United States: 2007

Issued April 2010

EC07TCF-US

2007 Economic Census

Transportation

2007 Commodity Flow Survey

U.S. Department of Transportation
Research and Innovative Technology Administration
BUREAU OF TRANSPORTATION STATISTICS

U.S. Department of Commerce
Economics and Statistics Administration
U.S. CENSUS BUREAU

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Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

The economic census is the major source of facts about the structure and functioning of the nation's economy. It provides essential information for government, business, industry, and the general public. Title 13 of the U.S. Code (Sections 131, 191, and 224) directs the U.S. Census Bureau to take the economic census every 5 years, ending in "2" and "7."

The economic census furnishes an important part of the framework for such composite measures as the gross domestic product estimates, input/output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions. Specific uses of economic census data include the following:

- Policymaking agencies of the federal government use the data to monitor economic activity and assess the effectiveness of policies.
- State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.
- Trade associations study trends in their own and competing industries, which allows them to keep their members informed of market changes.
- Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

BASIS OF REPORTING

The economic census is conducted on an establishment basis. A company operating at more than one location is required to file a separate report for each store, factory, ship, or other location. Each establishment is assigned a separate industry classification based on its primary activity and not that of its parent company.

AVAILABILITY OF ADDITIONAL DATA

All results of the 2007 Economic Census are available on the American FactFinder Internet site <www.factfinder.census.gov>. The American FactFinder system at the Web site allows selective retrieval and downloading of the data. For more information, including a description of reports being issued, see the Web site; write to the U.S. Census Bureau, Washington, DC 20233-8300; or call the Customer Services center at 1-800-923-8282 or 301-763-4636.

HISTORICAL INFORMATION

The economic census has been taken as an integrated program at 5-year intervals since 1967 and before that for 1954, 1958, and 1963. Prior to that time, individual components of the economic census were taken separately at varying intervals.

The economic census traces its beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for the 1840 Decennial Census and subsequent censuses to include mining and some commercial activities. The 1905 Census of Manufactures was the first time a census was taken apart from the regular decennial population census. Censuses covering retail and wholesale trade and construction industries were added in 1930, as were some service trades in 1933.

Censuses of construction, manufacturing, and the other business service censuses were suspended during World War II.

The 1954 Economic Census was the first census to be fully integrated, providing comparable census data across economic sectors and using consistent time periods, concepts, definitions, classifications, and reporting units. It was the first census to be taken by mail, using lists of firms provided by the administrative records of other federal agencies. Since 1963, administrative records have also been used to provide basic statistics for very small firms, reducing or eliminating the need to send them census report forms.

The range of industries covered in the economic censuses expanded between 1967 and 2007. The census of construction industries began on a regular basis in 1967; and the scope of service industries, introduced in 1933, was broadened in 1967, 1977, and 1987. While a few transportation industries were covered as early as 1963, it was not until 1992 that the census broadened to include all of transportation, communications, and utilities. Also, new for 1992 was coverage of financial, insurance, and real estate industries. With these additions, the economic census and the separate census of governments and census of agriculture collectively covered roughly 98 percent of all economic

activity. In 2002, there was new coverage in the following four industries classified in the Agriculture, Forestry, and Fishing sector under the Standard Industry Classification (SIC) system: landscape agricultural services, landscaping services, veterinary services, and pet care services.

Printed statistical reports from the 1997 and earlier economic censuses provide historical figures for the study of long-term time series and are available in some large libraries. CD-ROMs issued from the 1987, 1992, and 1997 Economic Censuses contain databases including all or nearly all data published in print, plus additional statistics, such as Zip Code statistics, published only on CD-ROM.

SOURCES FOR MORE INFORMATION

More information about scope, coverage, and classification system for each economic census and related surveys is published in the "What's New for 2007" section of the 2007 Economic Census Web site at <www.census.gov/econ/census07/www/whats_new_for_2007/>. Data items and publications for each economic census and related surveys are published as part of the 2007 Economic Census on American FactFinder at <www.factfinder.census.gov>. More information on the methodology, procedures, and history of each economic census is published in the "Methodology" section of the 2007 Economic Census Web site at <www.census.gov/econ/census07/www/methodology/>.

2007 Commodity Flow Survey

GENERAL

The 2007 Commodity Flow Survey (CFS) is undertaken through a partnership between the U.S. Census Bureau, U.S. Department of Commerce and the Research and Innovative Technology Administration (RITA), Bureau of Transportation Statistics (BTS), U.S. Department of Transportation. This survey produces data on the movement of goods in the United States. It provides information on commodities shipped, their value, weight, and mode of transportation, as well as the origin and destination of shipments of commodities from manufacturing, mining, wholesale, and select retail and services establishments. The CFS data are used by policy makers and transportation planners in various federal, state, and local agencies for assessing the demand for transportation facilities and services, energy use, and safety risk and environmental concerns. Additionally, business owners, private researchers, and analysts use the CFS data for analyzing trends in the movement of goods, mapping spatial patterns of commodity and vehicle flows, forecasting demands for the movement of goods, and determining needs for associated infrastructure and equipment. The CFS was conducted previously in 2002, 1997, and 1993.

SCOPE

Industry Coverage

The 2007 CFS covers business establishments with paid employees that are located in the United States and are classified by the 2002 North American Industry Classification System (NAICS) in mining, manufacturing, wholesale trade, and selected retail and services trade industries—namely, electronic shopping and mail-order houses, fuel dealers, and publishers. Additionally, the survey covers auxiliary establishments (i.e., warehouses and managing offices) of multiestablishment companies. For the 2007 CFS, an advance survey (precanvass) of approximately 40,000 auxiliary establishments was conducted to identify those with shipping activity. Surveyed establishments that indicated undertaking shipping activities and the nonrespondents to the precanvass were included in the CFS sample universe.

The survey does not cover establishments classified in transportation, construction, and most retail and services industries. Farms, fisheries, foreign establishments, and most government-owned establishments are also excluded.

In-scope industries for the 2007 CFS were selected based on the 2002 version of the NAICS, while the industries included in the 2002 CFS were selected based on the 1997 version of the NAICS. For the 1993 CFS and the 1997 CFS, the industries were selected based on the 1987 Standard Industrial Classification (SIC) system. Although attempts were made to maintain similar coverage among the SIC-based surveys (1993 and 1997) and the NAICS-based surveys (2002 and 2007), there have been some changes in industry coverage due to the conversion from SIC to NAICS. Most notably, the logging industry changed from an in-scope Manufacturing SIC code (SIC 2411) to an out-of-scope sector of Agriculture, Forestry, Fishing, and Hunting under NAICS 1133. Also, publishers were reclassified from Manufacturing Division (SIC 2711, 2721, 2731, 2741, and part of 2771) to information sector (NAICS 5111 and 51223) and were excluded from the 2002 CFS. The 2007 CFS, however, includes publishers and retail fuel dealers. Therefore, data users are urged to use caution when comparing 2007 CFS estimates with estimates from prior years.

The NAICS industries covered in the 2007 CFS are listed in the following table:

NAICS code	Description
212	Mining (except oil and gas)
311	Food manufacturing
312	Beverage and tobacco product manufacturing
313	Textile mills
314	Textile product mills
315	Apparel manufacturing
316	Leather and allied product manufacturing
321	Wood product manufacturing
322	Paper manufacturing
323[1]	Printing and related support activities
324	Petroleum and coal products manufacturing
325	Chemical manufacturing
326	Plastics and rubber products manufacturing
327	Nonmetallic mineral product manufacturing
331	Primary metal manufacturing
332	Fabricated metal product manufacturing
333	Machinery manufacturing
334	Computer and electronic product manufacturing
335	Electrical equipment, appliance, and component manufacturing
336	Transportation equipment manufacturing
337	Furniture and related product manufacturing
339	Miscellaneous manufacturing
423[2]	Wholesale trade, durable goods
424[2]	Wholesale trade, nondurable goods
4541	Electronic shopping and mail-order houses
45431	Fuel dealers
4931[3]	Warehousing and storage
5111	Newspaper, periodical, book, and directory publishers
51223[4]	Music publishers
551114[5]	Corporate, subsidiary, and regional managing offices

[1] Excludes Pre-Press Services (NAICS 323122).
[2] Excludes manufacturers sale offices, agents and brokers, and own brand importers.
[3] Includes only captive warehouses that provide storage and shipping support to a single company. Warehouses offering their services to the general public and other businesses are excluded.
[4] For tabulation and publication purposes, NAICS 51223 is grouped with NAICS 5111.
[5] Includes only those establishments in NAICS 551114 with shipping activity.

Note: Other industry areas that are not covered, but may have significant shipping activity, include agriculture and government. For agriculture, specifically, this means that the CFS does not cover shipments of agricultural products from the farm site to the processing centers or terminal elevators (most likely short-distance local movements) but does cover the shipments of these products from the initial processing centers or terminal elevators onward.

Shipment Coverage

The CFS captures data on shipments originating from select types of business establishments located in the 50 states and the District of Columbia. The survey does not cover shipments originating from business establishments located in Puerto Rico and other U.S. possessions and territories. Shipments traversing the United States from a foreign location to another foreign location (e.g., from Canada to Mexico) are not included, nor are shipments from a foreign location to a U.S. location. However, imported products are included in the CFS at the point that they leave the importer's initial domestic location for shipment to another location. Shipments that are shipped through a foreign territory with both the origin and destination in the United States are included in the CFS data. The mileages calculated for these shipments exclude the international segments (e.g., shipments from New York to Michigan through Canada do not include any mileage for Canada). Export shipments are included in the 2007 CFS. See the "Mileage Calculation" section for additional detail on how mileage estimates were developed.

Information Collected

Establishments in the 2007 CFS were asked to provide the following information for a sample of their outbound shipments:

- Shipment ID number
- Shipment date (mm/dd)
- Shipment value
- Shipment weight in pounds
- Commodity code from Standard Classification of Transported Goods (SCTG) list
- Commodity description
- Hazmat flag (United Nations [UN] or North American [NA] number)
- U.S. destination (city, state, Zip Code)—gateway for export shipment
- Modes of transportation
- Foreign destination (exports only—city, country)
- Export mode

By CFS definition, a shipment is a single movement of goods, commodities, or products from an establishment to a single customer or to another establishment owned or operated by the same company as the originating

establishment (e.g., a warehouse, distribution center, or retail or wholesale outlet). Full or partial truckloads were counted as a single shipment only if all commodities on the truck were destined for the same location. For multiple deliveries on a route, the goods delivered at each stop were counted as one shipment. Interoffice memos, payroll checks, or business correspondence were not included in the CFS. Likewise, the CFS does not include shipments of refuse, scrap paper, waste, or recyclable materials unless the establishment was in the business of selling or providing these materials.

Data Collection Method

The CFS survey was conducted through a mailout/mailback with an electronic reporting option. Each establishment selected into the 2007 CFS sample was mailed four questionnaires—one during each calendar quarter of year 2007. The four questionnaires were the same, except for the addition of Item H—"Third-Party Logistics" to the fourth quarter questionnaire (see Appendix E for a copy of the questionnaire). The establishments were asked to provide shipment information about a sample of their individual outbound shipments during a prespecified 1-week period in each calendar quarter. Each of the 4 weeks was in the same relative position of the calendar quarter. Respondents who were interested in electronic reporting could request and use a secure electronic reporting option.

Mileage Calculations

General

The distance traveled by each freight shipment sampled for the 2007 CFS was estimated using routing algorithms and an integrated, intermodal transportation network that has been developed and updated expressly for this purpose. Each shipment record contained the ZIP Codes of shipment origin and destination (O-D pair) and the mode or modal sequence required by the routing algorithm for distance estimation. Each record also contained information on type of commodity moved, its weight, dollar value, and hazardous materials (hazmat) status. For each export shipment, the U.S. port of exit (POE) was also identified, along with foreign destination city and country.

Valid and accurate O-D pair ZIP Codes were essential elements needed for estimating the travel distance of any shipment. For shipments with missing or invalid geographic data elements, such data elements were imputed if there was a high probability of accurate correction (e.g., a specific destination city/state was provided to allow a ZIP Code to be imputed for the shipment). Follow-up contact with respondents was required when the missing information could not be reasonably imputed.

GeoMiler—software to measure the distance traveled by commodity shipments

Mileages were computed using GeoMiler, a routing tool developed in partnership with MacroSys Research and Technology (MacroSys) specifically for CFS mileage calculations. This software tool used current Geographic Information System (GIS) technology and spatial multimodal network databases. It integrated map-visualization features with route solvers to handle many alternative multimodal combinations. This tool used algorithms that found the "best path" over spatial representations of the U.S. highway, railway, waterway, and airway networks. For waterborne export shipments, GeoMiler used a waterborne commerce database from the U.S. Army Corps of Engineers to route freight originating in the United States via the deep sea (ocean). For airborne export shipments, GeoMiler used a newly developed air export network from the RITA /BTS Office of Airline Information (OAI).

For a domestic shipment, the mileage was calculated between the centroid (center of the geographic area) of the U.S. origin ZIP Code and the centroid of the destination ZIP Code. The route between an O-D pair was composed of a series of links and an impedance factor was assigned to each link (impedance is defined as a function of distance and travel time). Given a mode or modal sequence, the role of GeoMiler was to find that "best path" route which minimized the summed total impedance of the links between the specified O-D pair.

The mileage for shipments within a ZIP Code (matching O-D pair) was calculated by means of a formula that approximated the longest distance within the boundaries of that ZIP Code.

For multimodal shipments (those shipments involving more than one mode, such as truck-rail shipments), spatial joins (intermodal transfer links) were added to the network database to connect the individual modal networks together for routing purposes. An intermodal terminals database and a number of terminal transfer models were developed at RITA/BTS to identify likely transfer points for freight. An algorithm was used to find the minimum impedance path between a shipment's origin ZIP Code to the transfer point and then from the transfer point to the destination ZIP Code. The cumulative length of the spatial joins plus links on this path provided the estimated distances used in CFS mileage computations.

The mileage for an export shipment was calculated between the centroid of the U.S. origin ZIP Code and the border crossing on the path of minimum impedance to the foreign destination country (foreign city in the case of Canada and Mexico). For all exports, a POE was found (seaport, airport, or border crossing) if not already provided

by the respondent. However, only the portion of mileage measured within U.S. borders was included as domestic mileage in the CFS estimates.

Methodological Changes From Past Commodity Flow Surveys

Improvements in routing logic—particularly for highway, railway, and airway—were built into the GeoMiler software. Through the use of GeoMiler, distance calculations for freight transportation were refined to better estimate the actual shipment mileage. In particular, GeoMiler introduced an overall concept change in algorithm for:

- Highway routing
- Railway routing
- Waterway routing on export shipments
- Airway routing on both domestic and export shipments
- Routing in Alaska

Highway routing

To estimate highway mileage, GeoMiler considered the functional class of highway so that the "best path" was the quickest path based on the likely use of interstate and other major roadways and not necessarily the shortest path. The "quickest path" algorithms in terms of travel time incorporated the following hierarchical functional class of highway:

1. Interstate route
2. U.S. route
3. State route
4. County or other local route

Hence, the 2007 highway model favored the selection of the higher-order routes (interstate) rather than lower-order routes (state and county), which provided a more realistic path for freight movement via highway.

The use of these selection criteria, coupled with a more extensive highway network, produced higher mileages (an average of about 3 percent) on highway shipments of distances less than 300 miles.

Railway routing

To estimate railway mileage, GeoMiler selected a "single best path" from those calibrated with route density information obtained from sampled 2005 rail waybills, assigned a specific railroad company at shipment origin, and considered ownership, trackage rights, and interlining (the transfer from one railroad company's trackage network to that of another). This procedure resulted in an average of about 3 percent higher mileages on railway shipments than the procedure used to estimate the mileage for the 2002 CFS.

Waterway routing on export shipments

The mileage estimates for export shipments in the 2007 CFS include the total distance from the shipment origin up to the exit port on the U.S. territorial borders.

For waterway exports via inland waterways (e.g., the Mississippi River), the mileage calculation included the distance from an inland water POE (such as St. Louis) to a coastal POE (such as New Orleans), and this extra inland waterway mileage was included in the total domestic mileage for this shipment.

The use of these selection criteria on waterway exports via inland waterways resulted in negligible changes to mileages on inland waterways.

For waterway exports via the Great Lakes (Lakes Erie, Huron, Michigan, Ontario, Superior), the mileage calculation was continued from a Great Lakes POE (such as Chicago, Cleveland, Duluth) to the line of demarcation between the United States and Canada (drawn within each of the Great Lakes except Michigan), and this extra Great Lakes mileage was included in the total domestic mileage for this shipment.

The use of these selection criteria on waterway exports via the Great Lakes produced much higher (an average of about 15 percent) mileages on Great Lakes waterways.

Airway routing on both domestic and export shipments

To estimate domestic airway mileage, GeoMiler selected the "single best path" from the three airports closest to the origin ZIP Code to the three airports closest to the destination ZIP Code. Criteria for route selection were calibrated with 2005 air route information provided by the OAI at RITA/BTS. As in the past, to be acceptable, an airway routing must generate at least twice as many airway miles as highway miles (the ratio of air/truck miles should be at least 2 to 1) in order to reach the destination.

Consequently, the GeoMiler chose the most likely air route from those routes that were nonstop (direct) from airport facilities with higher cargo lifts (weight transported between two airports) based on the OAI air cargo data.

For airway exports, the total domestic mileage included the mileage from the inland POE to a coastal point on the U.S. landmass (where the air flight path to a foreign country intersected with the U.S. territorial border).

The use of these selection criteria on both domestic airway and airway exports via inland airports, coupled with a more extensive airway network, produced much higher (an average of about 12 percent) mileages on airways.

Routing in Alaska

Much of Alaska was inaccessible by any mode of transportation except "bush" airplanes. A "bush" airplane is a small aircraft that usually carries no more than four people, including the "bush" pilot. For the 2007 CFS, a network of mini airports, more extensive than that used previously in the 2002 CFS, was incorporated into intrastate travel within Alaska to accommodate "short-hop" flights where no established roads existed, especially in cases where the respondent reported a mode of highway.

Mileage Data for Pipeline Shipments

For pipeline shipments, ton-miles and average miles per shipment are not shown in the data files. For most of these shipments, the respondents reported the shipment destination as a pipeline facility on the main pipeline network. Therefore, for the majority of these shipments, the resulting mileage represented only the access distance through feeder pipelines to the main pipeline network and not the actual distance through the main pipeline network. Pipeline shipments are included in the U.S. totals for ton-miles and average miles per shipment. For security purposes, there is no pipeline network available in the public domain with which to route petroleum-based products. Hence, any modal distance, either single or multi, involving pipeline was considered as solely pipeline mileage from origin ZIP Code to destination ZIP Code and calculated to equal great circle distance (GCD). GCD is defined as the shortest distance between two points on the earth's surface, taking into account the earth's curvature.

Availability of Additional Transportation Data

Users of transportation data may be especially interested in the reports from the Service Annual Survey, which can be found on the Census Bureau's Web site at <www.census.gov/services>. This survey covers firms with paid employees that provide commercial motor freight transportation and public warehousing services. Data collected include operating revenue and operating revenue by source, percentage of motor carrier freight revenue by commodity type, size of shipments handled, length of haul, and vehicle fleet inventory.

Table 1a.

Shipment Characteristics by Mode of Transportation for the United States: 2007

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

Mode of transportation	Value		Tons		Ton-miles[1]		
	2007 (million dollars)	Percentage of total	2007 (thousands)	Percentage of total	2007 (millions)	Percentage of total	Average miles per shipment
Total	**11,684,872**	**100.0**	**12,543,425**	**100.0**	**3,344,658**	**100.0**	**619**
Single modes	**9,539,037**	**81.6**	**11,698,128**	**93.3**	**2,894,251**	**86.5**	**234**
Truck[2]	8,335,789	71.3	8,778,713	70.0	1,342,104	40.1	206
For-hire truck	4,955,700	42.4	4,075,136	32.5	1,055,646	31.6	599
Private truck	3,380,090	28.9	4,703,576	37.5	286,457	8.6	57
Rail	436,420	3.7	1,861,307	14.8	1,344,040	40.2	728
Water	114,905	1.0	403,639	3.2	157,314	4.7	520
Shallow draft	91,004	0.8	343,307	2.7	117,473	3.5	144
Great Lakes	(S)	(S)	17,792	0.1	6,887	0.2	657
Deep draft	23,058	0.2	42,540	0.3	32,954	1.0	923
Air (includes truck and air)	252,276	2.2	3,611	(Z)	4,510	0.1	1,304
Pipeline[3]	399,646	3.4	650,859	5.2	(S)	(S)	(S)
Multiple modes	**1,866,723**	**16.0**	**573,729**	**4.6**	**416,642**	**12.5**	**975**
Parcel, U.S. Postal Service or courier	1,561,874	13.4	33,900	0.3	27,961	0.8	975
Truck and rail	187,248	1.6	225,589	1.8	196,772	5.9	1,007
Truck and water	58,389	0.5	145,521	1.2	98,396	2.9	1,429
Rail and water	13,892	0.1	54,878	0.4	47,111	1.4	1,928
Other multiple modes	45,320	0.4	113,841	0.9	46,402	1.4	1,182
Other and unknown modes	**279,113**	**2.4**	**271,567**	**2.2**	**33,764**	**1.0**	**116**

(S) Estimate did not meet publication standards.

(Z) Estimate is between zero and half the unit shown, thus rounded to zero.

[1] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See "Mileage Calculations" section for additional information.

[2] "Truck" as a single mode includes shipments that were made by only private truck, only for-hire truck, or a combination of private truck and for-hire truck.

[3] Estimates for pipeline exclude shipments of crude petroleum (SCTG 16).

Note: Value-of-shipments estimates have not been adjusted for price changes. Appendix B tables provide estimated measures of sampling variability. The Introduction and appendixes give 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/cfs>.

Table 1b.

Shipment Characteristics by Mode of Transportation for the United States: Percentage of Total for 2007 and 2002

[Estimates are based on data from the 2007 and 2002 Commodity Flow Surveys. Because of rounding, estimates may not be additive]

Mode of transportation	Value		Tons		Ton-miles[1]	
	2007	2002	2007	2002	2007	2002
Total	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**
Single modes	**81.6**	**83.9**	**93.3**	**95.0**	**86.5**	**91.4**
Truck[2]	71.3	74.3	70.0	67.2	40.1	40.0
For-hire truck	42.4	44.7	32.5	31.3	31.6	30.6
Private truck	28.9	29.1	37.5	35.6	8.6	9.3
Rail	3.7	3.7	14.8	16.1	40.2	40.2
Water	1.0	1.1	3.2	5.8	4.7	9.0
Shallow draft	0.8	0.7	2.7	3.9	3.5	6.7
Great Lakes	(S)	–	0.1	0.3	0.2	0.4
Deep draft	0.2	0.4	0.3	1.6	1.0	1.8
Air (includes truck and air)	2.2	3.2	(Z)	–	0.1	0.2
Pipeline[3]	3.4	1.8	5.2	5.9	(S)	(S)
Multiple modes	**16.0**	**12.9**	**4.6**	**1.9**	**12.5**	**7.2**
Parcel, U.S. Postal Service or courier	13.4	11.8	0.3	0.2	0.8	0.6
Truck and rail	1.6	0.8	1.8	0.4	5.9	1.5
Truck and water	0.5	0.2	1.2	0.2	2.9	1.0
Rail and water	0.1	–	0.4	0.9	1.4	3.7
Other multiple modes	0.4	–	0.9	0.2	1.4	0.4
Other and unknown modes	**2.4**	**3.2**	**2.2**	**3.1**	**1.0**	**1.4**

– Estimate equal to zero.

(S) Estimate did not meet publication standards.

(Z) Estimate is between zero and half the unit shown, thus rounded to zero.

[1] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See “Mileage Calculations” section for additional information.

[2] “Truck” as a single mode includes shipments that were made by only private truck, only for-hire truck, or a combination of private truck and for-hire truck.

[3] Estimates for pipeline exclude shipments of crude petroleum (SCTG 16).

Notes:

Value-of-shipments estimates have not been adjusted for price changes. Appendix B tables provide estimated measures of sampling variability. The Introduction and appendixes give 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/cfs>.

Generally, estimates that equal zero are not shown and are indicated by “–.” However, the 2007 and 2002 Commodity Flow Surveys have different distinctions between an estimate that equals zero and an estimate that rounds to zero. For 2007 data, the “–” represents estimates that equal zero. For 2002 data, the “–” represents estimates that equal or round to zero.

Table 1c.

Shipment Characteristics by Mode of Transportation for the United States: 2007 and 2002

[Estimates are based on data from the 2007 and 2002 Commodity Flow Surveys. Because of rounding, estimates may not be additive]

Mode of transportation	Value			Tons			Ton-miles[1]			Average miles per shipment		
	2007 (million dollars)	2002 (million dollars)	Percentage change	2007 (thousands)	2002 (thousands)	Percentage change	2007 (millions)	2002 (millions)	Percentage change	2007	2002	Percentage change
Total	**11,684,872**	**8,397,210**	**39.2**	**12,543,425**	**11,667,919**	**7.5**	**3,344,658**	**3,137,898**	**6.6**	**619**	**546**	**13.5**
Single modes	**9,539,037**	**7,049,383**	**35.3**	**11,698,128**	**11,086,660**	**5.5**	**2,894,251**	**2,867,938**	**0.9**	**234**	**240**	**–2.4**
Truck[2]	8,335,789	6,235,001	33.7	8,778,713	7,842,836	11.9	1,342,104	1,255,908	6.9	206	173	19.4
For-hire truck	4,955,700	3,757,114	31.9	4,075,136	3,657,333	11.4	1,055,646	959,610	10.0	599	523	14.6
Private truck	3,380,090	2,445,288	38.2	4,703,576	4,149,658	13.3	286,457	291,114	–1.6	57	64	–10.5
Rail	436,420	310,884	40.4	1,861,307	1,873,884	–0.7	1,344,040	1,261,612	6.5	728	807	–9.9
Water	114,905	89,344	28.6	403,639	681,227	–40.7	157,314	282,659	–44.3	520	568	–8.5
Shallow draft	91,004	57,467	58.4	343,307	458,577	–25.1	117,473	211,501	–44.5	144	450	–67.9
Great Lakes	(S)	843	(S)	17,792	38,041	–53.2	6,887	13,808	–50.1	657	339	93.9
Deep draft	23,058	31,034	–25.7	42,540	184,610	–77.0	32,954	57,350	–42.5	923	664	38.9
Air (includes truck and air)	252,276	264,959	–4.8	3,611	3,760	–4.0	4,510	5,835	–22.7	1,304	1,919	–32.0
Pipeline[3]	399,646	149,195	(S)	650,859	684,953	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Multiple modes	**1,866,723**	**1,079,185**	**73.0**	**573,729**	**216,686**	**164.8**	**416,642**	**225,715**	**84.6**	**975**	**895**	**8.9**
Parcel, U.S. Postal Service or courier	1,561,874	987,746	58.1	33,900	25,513	32.9	27,961	19,004	47.1	975	894	9.0
Truck and rail	187,248	69,929	167.8	225,589	42,984	424.8	196,772	45,525	332.2	1,007	1,413	–28.8
Truck and water	58,389	14,359	306.6	145,521	23,299	524.6	98,396	32,413	203.6	1,429	1,950	–26.7
Rail and water	13,892	3,329	317.3	54,878	105,107	–47.8	47,111	114,986	–59.0	1,928	957	101.5
Other multiple modes	45,320	3,822	1,085.8	113,841	19,782	475.5	46,402	13,788	236.5	1,182	(S)	(S)
Other and unknown modes	**279,113**	**268,642**	**3.9**	**271,567**	**364,573**	**–25.5**	**33,764**	**44,245**	**–23.7**	**116**	**130**	**–10.7**

(S) Estimate did not meet publication standards.

[1] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See "Mileage Calculations" section for additional information.

[2] "Truck" as a single mode includes shipments that were made by only private truck, only for-hire truck, or a combination of private truck and for-hire truck.

[3] Estimates for pipeline exclude shipments of crude petroleum (SCTG 16).

Note: Value-of-shipments estimates have not been adjusted for price changes. Appendix B tables provide estimated measures of sampling variability. The Introduction and appendixes give 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/cfs>.

Table 2a.

Shipment Characteristics by Total Modal Activity for the United States: 2007

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

Mode of transportation[1]	Ton-miles[2]		Average miles per shipment
	2007 (millions)	Percentage of total	
Total	**3,344,663**	**100.0**	**610**
Truck[3]	1,351,531	40.4	203
Rail	1,549,557	46.3	852
Shallow draft	208,611	6.2	217
Great Lakes	30,835	0.9	426
Deep draft	92,060	2.8	1,431
Air (includes truck and air)	4,425	0.1	1,080
Pipeline[4]	(S)	(S)	(S)
Parcel, U.S. Postal Service or courier	27,852	0.8	971
Other and unknown modes	33,510	1.0	112

(S) Estimate did not meet publication standards.

[1] Estimates represent activity for a given mode across single and multiple mode shipments. For example, "Truck" ton-miles includes total ton-miles for shipments moving only by truck plus ton-miles for truck segments of multiple mode shipments.

[2] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See "Mileage Calculations" section for additional information.

[3] "Truck" as a single mode includes shipments that were made by only private truck, only for-hire truck, or a combination of private truck and for-hire truck.

[4] Estimates exclude shipments of crude petroleum (SCTG 16).

Note: Value-of-shipments estimates have not been adjusted for price changes. Appendix B tables provide estimated measures of sampling variability. The Introduction and appendixes give 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 /cfs>.

Table 2b.

Shipment Characteristics by Total Modal Activity for the United States: 2007 and 2002

[Estimates are based on data from the 2007 and 2002 Commodity Flow Surveys. Because of rounding, estimates may not be additive]

Mode of transportation[1]	Ton-miles[2]			Average miles per shipment		
	2007 (millions)	2002 (millions)	Percentage change	2007	2002	Percentage change
Total	**3,344,663**	**3,137,902**	**6.6**	**610**	**536**	**13.8**
Truck[3]	1,351,531	1,261,813	7.1	203	168	20.7
Rail	1,549,557	1,360,760	13.9	852	893	–4.6
Shallow draft	208,611	258,386	–19.3	217	459	–52.8
Great Lakes	30,835	49,330	–37.5	426	354	20.4
Deep draft	92,060	75,544	21.9	1,431	1,498	–4.5
Air (includes truck and air)	4,425	5,659	–21.8	1,080	1,866	–42.1
Pipeline[4]	(S)	(S)	(S)	(S)	(S)	(S)
Parcel, U.S. Postal Service or courier	27,852	19,004	46.6	971	894	8.7
Other and unknown modes	33,510	44,253	–24.3	112	130	–13.7

(S) Estimate did not meet publication standards.

[1] Estimates represent activity for a given mode across single and multiple mode shipments. For example, "Truck" ton-miles includes total ton-miles for shipments moving only by truck plus ton-miles for truck segments of multiple mode shipments.

[2] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See "Mileage Calculations" section for additional information.

[3] "Truck" as a single mode includes shipments that were made by only private truck, only for-hire truck, or a combination of private truck and for-hire truck.

[4] Estimates exclude shipments of crude petroleum (SCTG 16).

Note: Value-of-shipments estimates have not been adjusted for price changes. Appendix B tables provide estimated measures of sampling variability. The Introduction and appendixes give 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/cfs>.

Table 2c.

Shipment Characteristics by Total Modal Activity for the United States: Percentage of Total for 2007 and 2002

[Estimates are based on data from the 2007 and 2002 Commodity Flow Surveys. Because of rounding, estimates may not be additive]

Mode of transportation[1]	Ton-miles[2]	
	2007	2002
Total	**100.0**	**100.0**
Truck[3]	40.4	40.2
Rail	46.3	43.4
Shallow draft	6.2	8.2
Great Lakes	0.9	1.6
Deep draft	2.8	2.4
Air (includes truck and air)	0.1	0.2
Pipeline[4]	(S)	(S)
Parcel, U.S. Postal Service or courier	0.8	0.6
Other and unknown modes	1.0	1.4

(S) Estimate did not meet publication standards.

[1] Estimates represent activity for a given mode across single and multiple mode shipments. For example, "Truck" ton-miles includes total ton-miles for shipments moving only by truck plus ton-miles for truck segments of multiple mode shipments.

[2] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See "Mileage Calculations" section for additional information.

[3] "Truck" as a single mode includes shipments that were made by only private truck, only for-hire truck, or a combination of private truck and for-hire truck.

[4] Estimates exclude shipments of crude petroleum (SCTG 16).

Note: Value-of-shipments estimates have not been adjusted for price changes. Appendix B tables provide estimated measures of sampling variability. The Introduction and appendixes give 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 /cfs>.

Table 3a.

Shipment Characteristics by Distance Shipped for the United States: 2007

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

Distance shipped[1] (based on Great Circle Distance)	Value		Tons		Ton-miles[2]	
	2007 (million dollars)	Percentage of total	2007 (thousands)	Percentage of total	2007 (millions)	Percentage of total
Total	**11,684,872**	**100.0**	**12,543,425**	**100.0**	**3,344,658**	**100.0**
Less than 50 miles	3,851,545	33.0	6,948,743	55.4	156,161	4.7
50 to 99 miles	1,074,137	9.2	1,255,189	10.0	122,646	3.7
100 to 249 miles	1,777,031	15.2	1,585,315	12.6	374,666	11.2
250 to 499 miles	1,606,034	13.7	1,064,455	8.5	529,308	15.8
500 to 749 miles	1,019,498	8.7	618,981	4.9	533,163	15.9
750 to 999 miles	720,623	6.2	517,669	4.1	616,594	18.4
1,000 to 1,499 miles	730,366	6.3	397,272	3.2	624,921	18.7
1,500 to 1,999 miles	494,992	4.2	95,511	0.8	207,175	6.2
2,000 miles or more	410,646	3.5	60,290	0.5	180,023	5.4

[1] Shipments are grouped into distance categories based on Great Circle Distance (GCD). GCD is the shortest distance between two points on the surface of a sphere over the surface of that sphere.

[2] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See "Mileage Calculations" section for additional information.

Note: Value-of-shipments estimates have not been adjusted for price changes. Appendix B tables provide estimated measures of sampling variability. The Introduction and appendixes give 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/cfs>.

Table 3b.

Shipment Characteristics by Distance Shipped for the United States: 2007 and 2002

[Estimates are based on data from the 2007 and 2002 Commodity Flow Surveys. Because of rounding, estimates may not be additive]

Distance shipped[1] (based on Great Circle Distance)	Value			Tons			Ton-miles[2]		
	2007 (million dollars)	2002 (million dollars)	Percentage change	2007 (thousands)	2002 (thousands)	Percentage change	2007 (millions)	2002 (millions)	Percentage change
Total	**11,684,872**	**8,397,210**	**39.2**	**12,543,425**	**11,667,919**	**7.5**	**3,344,658**	**3,137,898**	**6.6**
Less than 50 miles	3,851,545	2,503,895	53.8	6,948,743	6,309,437	10.1	156,161	127,277	22.7
50 to 99 miles	1,074,137	757,601	41.8	1,255,189	1,183,817	6.0	122,646	111,297	10.2
100 to 249 miles	1,777,031	1,329,245	33.7	1,585,315	1,480,571	7.1	374,666	329,721	13.6
250 to 499 miles	1,606,034	1,221,437	31.5	1,064,455	1,082,136	–1.6	529,308	534,562	–1.0
500 to 749 miles	1,019,498	844,880	20.7	618,981	604,036	2.5	533,163	504,193	5.7
750 to 999 miles	720,623	548,768	31.3	517,669	437,418	18.3	616,594	510,469	20.8
1,000 to 1,499 miles	730,366	501,419	45.7	397,272	419,584	–5.3	624,921	660,359	–5.4
1,500 to 1,999 miles	494,992	353,663	40.0	95,511	99,991	–4.5	207,175	217,826	–4.9
2,000 miles or more	410,646	336,302	22.1	60,290	50,929	18.4	180,023	142,193	26.6

[1] Shipments are grouped into distance categories based on Great Circle Distance (GCD). GCD is the shortest distance between two points on the surface of a sphere over the surface of that sphere.

[2] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See "Mileage Calculations" section for additional information.

Note: Value-of-shipments estimates have not been adjusted for price changes. Appendix B tables provide estimated measures of sampling variability. The Introduction and appendixes give 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/cfs>.

Table 3c.

Shipment Characteristics by Distance Shipped for the United States: Percentage of Total for 2007 and 2002

[Estimates are based on data from the 2007 and 2002 Commodity Flow Surveys. Because of rounding, estimates may not be additive]

Distance shipped[1] (based on Great Circle Distance)	Value		Tons		Ton-miles[2]	
	2007	2002	2007	2002	2007	2002
Total	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**
Less than 50 miles	33.0	29.8	55.4	54.1	4.7	4.1
50 to 99 miles	9.2	9.0	10.0	10.1	3.7	3.5
100 to 249 miles	15.2	15.8	12.6	12.7	11.2	10.5
250 to 499 miles	13.7	14.5	8.5	9.3	15.8	17.0
500 to 749 miles	8.7	10.1	4.9	5.2	15.9	16.1
750 to 999 miles	6.2	6.5	4.1	3.7	18.4	16.3
1,000 to 1,499 miles	6.3	6.0	3.2	3.6	18.7	21.0
1,500 to 1,999 miles	4.2	4.2	0.8	0.9	6.2	6.9
2,000 miles or more	3.5	4.0	0.5	0.4	5.4	4.5

[1] Shipments are grouped into distance categories based on Great Circle Distance (GCD). GCD is the shortest distance between two points on the surface of a sphere over the surface of that sphere.

[2] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See “Mileage Calculations” section for additional information.

Note: Value-of-shipments estimates have not been adjusted for price changes. Appendix B tables provide estimated measures of sampling variability. The Introduction and appendixes give 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/cfs>.

Table 4a.

Shipment Characteristics by Shipment Weight for the United States: 2007

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

Shipment weight	Value		Tons		Ton-miles[1]		Average miles per shipment
	2007 (million dollars)	Percentage of total	2007 (thousands)	Percentage of total	2007 (millions)	Percentage of total	
Total	**11,684,872**	**100.0**	**12,543,425**	**100.0**	**3,344,658**	**100.0**	**619**
Less than 50 lb	1,480,208	12.7	24,828	0.2	15,128	0.5	769
50 to 99 lb	388,649	3.3	16,630	0.1	6,675	0.2	406
100 to 499 lb	1,094,506	9.4	96,679	0.8	26,644	0.8	287
500 to 749 lb	309,788	2.7	47,963	0.4	10,974	0.3	229
750 to 999 lb	227,805	1.9	43,626	0.3	9,573	0.3	217
1,000 to 9,999 lb	2,381,303	20.4	709,781	5.7	167,196	5.0	227
10,000 to 49,999 lb	3,984,093	34.1	5,267,458	42.0	984,285	29.4	194
50,000 to 99,999 lb	685,084	5.9	2,340,485	18.7	212,678	6.4	89
100,000 lb or more	1,133,436	9.7	3,995,975	31.9	1,911,504	57.2	595

[1] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See "Mileage Calculations" section for additional information.

Note: Value-of-shipments estimates have not been adjusted for price changes. Appendix B tables provide estimated measures of sampling variability. The Introduction and appendixes give 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/cfs>.

Table 4b.

Shipment Characteristics by Shipment Weight for the United States: 2007 and 2002

[Estimates are based on data from the 2007 and 2002 Commodity Flow Surveys. Because of rounding, estimates may not be additive]

Shipment weight	Value			Tons			Ton-miles[1]			Average miles per shipment		
	2007 (million dollars)	2002 (million dollars)	Percentage change	2007 (thousands)	2002 (thousands)	Percentage change	2007 (millions)	2002 (millions)	Percentage change	2007	2002	Percentage change
Total	**11,684,872**	**8,397,210**	**39.2**	**12,543,425**	**11,667,919**	**7.5**	**3,344,658**	**3,137,898**	**6.6**	**619**	**546**	**13.5**
Less than 50 lb	1,480,208	991,839	49.2	24,828	18,543	33.9	15,128	9,911	52.6	769	696	10.4
50 to 99 lb	388,649	295,607	31.5	16,630	14,432	15.2	6,675	5,072	31.6	406	358	13.4
100 to 499 lb	1,094,506	811,133	34.9	96,679	85,224	13.4	26,644	21,920	21.6	287	263	9.3
500 to 749 lb	309,788	246,872	25.5	47,963	40,816	17.5	10,974	9,473	15.8	229	232	–1.1
750 to 999 lb	227,805	182,832	24.6	43,626	35,892	21.5	9,573	7,799	22.8	217	216	0.6
1,000 to 9,999 lb	2,381,303	1,781,947	33.6	709,781	614,243	15.6	167,196	154,986	7.9	227	245	–7.5
10,000 to 49,999 lb	3,984,093	3,075,335	29.5	5,267,458	4,453,871	18.3	984,285	882,900	11.5	194	202	–4.2
50,000 to 99,999 lb	685,084	390,050	75.6	2,340,485	2,129,556	9.9	212,678	189,129	12.5	89	87	1.9
100,000 lb or more	1,133,436	621,594	82.3	3,995,975	4,275,342	–6.5	1,911,504	1,856,708	3.0	595	477	24.8

[1] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See "Mileage Calculations" section for additional information.

Note: Value-of-shipments estimates have not been adjusted for price changes. Appendix B tables provide estimated measures of sampling variability. The Introduction and appendixes give 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/cfs>.

Table 4c.

Shipment Characteristics by Shipment Weight for the United States: Percentage of Total for 2007 and 2002

[Estimates are based on data from the 2007 and 2002 Commodity Flow Surveys. Because of rounding, estimates may not be additive]

Shipment weight	Value		Tons		Ton-miles[1]	
	2007	2002	2007	2002	2007	2002
Total	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**
Less than 50 lb	12.7	11.8	0.2	0.2	0.5	0.3
50 to 99 lb	3.3	3.5	0.1	0.1	0.2	0.2
100 to 499 lb	9.4	9.7	0.8	0.7	0.8	0.7
500 to 749 lb	2.7	2.9	0.4	0.3	0.3	0.3
750 to 999 lb	1.9	2.2	0.3	0.3	0.3	0.2
1,000 to 9,999 lb	20.4	21.2	5.7	5.3	5.0	4.9
10,000 to 49,999 lb	34.1	36.6	42.0	38.2	29.4	28.1
50,000 to 99,999 lb	5.9	4.6	18.7	18.3	6.4	6.0
100,000 lb or more	9.7	7.4	31.9	36.6	57.2	59.2

[1] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See “Mileage Calculations” section for additional information.

Note: Value-of-shipments estimates have not been adjusted for price changes. Appendix B tables provide estimated measures of sampling variability. The Introduction and appendixes give 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/cfs>.

Table 5a.

Shipment Characteristics by Two-Digit Commodity for the United States: 2007

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

SCTG code	Commodity description	Value		Tons		Ton-miles[1]		Average miles per shipment
		2007 (million dollars)	Percent	2007 (thousands)	Percent	2007 (millions)	Percent	
	Total[2]	**11,684,872**	**100.0**	**12,543,425**	**100.0**	**3,344,658**	**100.0**	**619**
01	Live animals and live fish	10,833	0.1	6,150	(Z)	3,973	0.1	739
02	Cereal grains	84,851	0.7	514,151	4.1	203,446	6.1	139
03	Other agricultural products	143,637	1.2	211,890	1.7	88,207	2.6	354
04	Animal feed and products of animal origin, n.e.c.	90,472	0.8	246,436	2.0	76,188	2.3	499
05	Meat, fish, seafood, and their preparations	277,251	2.4	98,413	0.8	48,549	1.5	247
06	Milled grain products and preparations and bakery products	143,139	1.2	120,023	1.0	50,732	1.5	403
07	Other prepared foodstuffs and fats and oils	479,757	4.1	468,435	3.7	171,452	5.1	268
08	Alcoholic beverages	158,322	1.4	114,012	0.9	36,685	1.1	80
09	Tobacco products	70,551	0.6	3,289	(Z)	390	(Z)	407
10	Monumental or building stone	5,202	(Z)	28,738	0.2	3,113	0.1	123
11	Natural sands	6,665	0.1	460,085	3.7	41,125	1.2	56
12	Gravel and crushed stone	21,167	0.2	2,039,457	16.3	147,770	4.4	37
13	Nonmetallic minerals n.e.c.	16,727	0.1	272,264	2.2	52,096	1.6	223
14	Metallic ores and concentrates	32,910	0.3	76,672	0.6	39,319	1.2	504
15	Coal	38,228	0.3	1,416,187	11.3	835,796	25.0	106
17	Gasoline and aviation turbine fuel	663,194	5.7	959,161	7.6	68,647	2.1	43
18	Fuel oils	373,515	3.2	641,894	5.1	54,243	1.6	32
19	Coal and petroleum products, n.e.c.	268,163	2.3	578,188	4.6	127,190	3.8	111
20	Basic chemicals	271,469	2.3	412,581	3.3	171,156	5.1	428
21	Pharmaceutical products	771,252	6.6	19,076	0.2	8,134	0.2	635
22	Fertilizers	43,613	0.4	149,600	1.2	58,970	1.8	171
23	Chemical products and preparations, n.e.c.	331,750	2.8	123,537	1.0	58,477	1.7	638
24	Plastics and rubber	489,435	4.2	186,392	1.5	104,622	3.1	550
25	Logs and other wood in the rough	7,086	0.1	107,869	0.9	11,164	0.3	110
26	Wood products	183,868	1.6	323,773	2.6	100,787	3.0	328
27	Pulp, newsprint, paper, and paperboard	126,857	1.1	145,380	1.2	82,098	2.5	297
28	Paper or paperboard articles	118,070	1.0	82,233	0.7	28,977	0.9	512
29	Printed products	190,389	1.6	51,435	0.4	22,363	0.7	579
30	Textiles, leather, and articles of textiles or leather	473,610	4.1	46,728	0.4	30,643	0.9	1,101
31	Nonmetallic mineral products	196,993	1.7	1,156,790	9.2	115,289	3.4	447
32	Base metal in primary or semifinished forms and in finished basic shapes	488,410	4.2	364,940	2.9	129,224	3.9	360
33	Articles of base metal	388,292	3.3	131,924	1.1	52,343	1.6	561
34	Machinery	628,267	5.4	66,728	0.5	36,760	1.1	498
35	Electronic and other electrical equipment and components and office equipment	1,046,495	9.0	47,528	0.4	31,645	0.9	815
36	Motorized and other vehicles (including parts)	907,288	7.8	133,126	1.1	64,776	1.9	489
37	Transportation equipment, n.e.c.	173,883	1.5	6,815	0.1	4,471	0.1	908
38	Precision instruments and apparatus	304,620	2.6	5,668	(Z)	3,513	0.1	1,008
39	Furniture, mattresses and mattress supports, lamps, lighting fittings, and illuminated signs	152,286	1.3	26,633	0.2	15,024	0.4	766
40	Miscellaneous manufactured products	490,305	4.2	91,844	0.7	41,995	1.3	1,012
41	Waste and scrap	82,243	0.7	305,878	2.4	67,023	2.0	152
43	Mixed freight	932,353	8.0	300,922	2.4	56,137	1.7	369
99	Commodity unknown	1,453	(Z)	(S)	(Z)	145	(Z)	485

(S) Estimate did not meet publication standards.

(Z) Estimate is between zero and half the unit shown, thus rounded to zero.

[1] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See "Mileage Calculations" section for additional information.

[2] Estimates exclude shipments of crude petroleum (SCTG 16).

Note: Value-of-shipments estimates have not been adjusted for price changes. Appendix B tables provide estimated measures of sampling variability. The Introduction and appendixes give 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/cfs>.

Table 5b.

Shipment Characteristics by Two-Digit Commodity for the United States: Percentage of Total for 2007 and 2002

[Estimates are based on data from the 2007 and 2002 Commodity Flow Surveys. Because of rounding, estimates may not be additive]

SCTG code	Commodity description	Value		Tons		Ton-miles[1]	
		2007	2002	2007	2002	2007	2002
	Total[2]	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**
01	Live animals and live fish	0.1	–	(Z)	–	0.1	–
02	Cereal grains	0.7	0.6	4.1	4.8	6.1	8.4
03	Other agricultural products	1.2	1.5	1.7	2.2	2.6	3.5
04	Animal feed and products of animal origin, n.e.c.	0.8	0.6	2.0	2.0	2.3	1.6
05	Meat, fish, seafood, and their preparations	2.4	2.4	0.8	0.7	1.5	1.3
06	Milled grain products and preparations and bakery products	1.2	1.4	1.0	0.9	1.5	1.6
07	Other prepared foodstuffs and fats and oils	4.1	4.2	3.7	3.8	5.1	5.1
08	Alcoholic beverages	1.4	1.3	0.9	0.8	1.1	0.8
09	Tobacco products	0.6	0.8	(Z)	–	(Z)	–
10	Monumental or building stone	(Z)	–	0.2	0.2	0.1	–
11	Natural sands	0.1	–	3.7	4.1	1.2	1.0
12	Gravel and crushed stone	0.2	0.2	16.3	16.0	4.4	3.4
13	Nonmetallic minerals n.e.c.	0.1	0.1	2.2	1.6	1.6	1.8
14	Metallic ores and concentrates	0.3	0.2	0.6	0.8	1.2	2.0
15	Coal	0.3	0.3	11.3	10.6	25.0	21.9
17	Gasoline and aviation turbine fuel	5.7	3.3	7.6	9.1	2.1	3.7
18	Fuel oils	3.2	1.4	5.1	4.7	1.6	1.8
19	Coal and petroleum products, n.e.c.	2.3	1.0	4.6	3.8	3.8	3.0
20	Basic chemicals	2.3	1.8	3.3	3.0	5.1	3.7
21	Pharmaceutical products	6.6	5.7	0.2	0.2	0.2	0.4
22	Fertilizers	0.4	0.4	1.2	2.3	1.8	2.8
23	Chemical products and preparations, n.e.c.	2.8	2.7	1.0	0.9	1.7	1.7
24	Plastics and rubber	4.2	3.9	1.5	1.2	3.1	2.6
25	Logs and other wood in the rough	0.1	–	0.9	(S)	0.3	0.2
26	Wood products	1.6	1.9	2.6	3.0	3.0	3.8
27	Pulp, newsprint, paper, and paperboard	1.1	1.2	1.2	1.2	2.5	2.5
28	Paper or paperboard articles	1.0	1.2	0.7	0.6	0.9	0.7
29	Printed products	1.6	1.6	0.4	0.3	0.7	0.5
30	Textiles, leather, and articles of textiles or leather	4.1	5.6	0.4	0.4	0.9	1.0
31	Nonmetallic mineral products	1.7	1.8	9.2	8.3	3.4	4.3
32	Base metal in primary or semifinished forms and in finished basic shapes	4.2	3.1	2.9	2.8	3.9	3.9
33	Articles of base metal	3.3	2.8	1.1	1.0	1.6	1.4
34	Machinery	5.4	5.8	0.5	0.5	1.1	1.1
35	Electronic and other electrical equipment and components and office equipment	9.0	10.6	0.4	0.4	0.9	1.0
36	Motorized and other vehicles (including parts)	7.8	8.9	1.1	1.1	1.9	1.9
37	Transportation equipment, n.e.c.	1.5	1.8	0.1	0.2	0.1	0.3
38	Precision instruments and apparatus	2.6	2.7	(Z)	0.2	0.1	0.1
39	Furniture, mattresses and mattress supports, lamps, lighting fittings, and illuminated signs	1.3	1.7	0.2	0.3	0.4	0.4
40	Miscellaneous manufactured products	4.2	4.6	0.7	0.7	1.3	1.1
41	Waste and scrap	0.7	0.5	2.4	1.9	2.0	1.5
43	Mixed freight	8.0	10.0	2.4	2.6	1.7	1.7
99	Commodity unknown	(Z)	0.2	(Z)	0.2	(Z)	0.3

– Estimate equal to zero.

(S) Estimate did not meet publication standards.

(Z) Estimate is between zero and half the unit shown, thus rounded to zero.

[1] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See "Mileage Calculations" section for additional information.

[2] Estimates exclude shipments of crude petroleum (SCTG 16).

Notes:

Value-of-shipments estimates have not been adjusted for price changes. Appendix B tables provide estimated measures of sampling variability. The Introduction and appendixes give 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/cfs>.

Generally, estimates that equal zero are not shown and are indicated by "–." However, the 2007 and 2002 Commodity Flow Surveys have different distinctions between an estimate that equals zero and an estimate that rounds to zero. For 2007 data, the "–" represents estimates that equal zero. For 2002 data, the "–" represents estimates that equal or round to zero.

Table 5c.

Shipment Characteristics by Two-Digit Commodity for the United States: 2007 and 2002

[Estimates are based on data from the 2007 and 2002 Commodity Flow Surveys. Because of rounding, estimates may not be additive]

SCTG code	Commodity description	Value			Tons			Ton-miles[1]			Average miles per shipment		
		2007 (million dollars)	2002 (million dollars)	Percentage change	2007 (thousands)	2002 (thousands)	Percentage change	2007 (millions)	2002 (millions)	Percentage change	2007	2002	Percentage change
	Total[2]	**11,684,872**	**8,397,210**	**39.2**	**12,543,425**	**11,667,919**	**7.5**	**3,344,658**	**3,137,898**	**6.6**	**619**	**546**	**13.5**
01	Live animals and live fish	10,833	7,410	(S)	6,150	6,118	(S)	3,973	1,586	150.5	739	530	39.4
02	Cereal grains	84,851	53,835	57.6	514,151	561,089	–8.4	203,446	264,239	–23.0	139	138	0.9
03	Other agricultural products	143,637	129,471	10.9	211,890	259,178	–18.2	88,207	109,362	–19.3	354	481	–26.4
04	Animal feed and products of animal origin, n.e.c.	90,472	52,142	73.5	246,436	227,991	8.1	76,188	51,158	48.9	499	167	198.9
05	Meat, fish, seafood, and their preparations	277,251	201,304	37.7	98,413	84,506	16.5	48,549	41,352	17.4	247	162	52.7
06	Milled grain products and preparations and bakery products	143,139	113,379	26.2	120,023	109,311	9.8	50,732	49,001	3.5	403	189	113.5
07	Other prepared foodstuffs and fats and oils	479,757	355,561	34.9	468,435	448,924	4.3	171,452	161,565	6.1	268	179	49.5
08	Alcoholic beverages	158,322	108,991	45.3	114,012	89,434	27.5	36,685	25,735	42.6	80	55	45.8
09	Tobacco products	70,551	69,868	(S)	3,289	4,370	(S)	390	983	–60.4	407	334	21.9
10	Monumental or building stone	5,202	3,039	(S)	28,738	22,451	(S)	3,113	1,571	98.1	123	170	–27.5
11	Natural sands	6,665	3,644	82.9	460,085	472,975	–2.7	41,125	29,990	37.1	56	45	23.4
12	Gravel and crushed stone	21,167	12,850	64.7	2,039,457	1,866,487	9.3	147,770	105,826	39.6	37	30	24.6
13	Nonmetallic minerals n.e.c.	16,727	10,066	66.2	272,264	184,632	47.5	52,096	56,630	–8.0	223	185	20.5
14	Metallic ores and concentrates	32,910	14,027	134.6	76,672	98,267	–22.0	39,319	63,028	–37.6	504	474	6.3
15	Coal	38,228	22,875	67.1	1,416,187	1,239,862	14.2	835,796	686,279	21.8	106	120	–11.9
17	Gasoline and aviation turbine fuel	663,194	279,407	137.4	959,161	1,063,569	–9.8	68,647	117,219	–41.4	43	52	–16.5
18	Fuel oils	373,515	116,119	(S)	641,894	549,007	(S)	54,243	55,464	–2.2	32	32	–0.2
19	Coal and petroleum products, n.e.c.	268,163	82,130	226.5	578,188	447,975	29.1	127,190	93,001	36.8	111	102	8.8
20	Basic chemicals	271,469	153,656	76.7	412,581	347,670	18.7	171,156	115,961	47.6	428	417	2.7
21	Pharmaceutical products	771,252	479,117	61.0	19,076	24,270	–21.4	8,134	11,337	–28.3	635	693	–8.4
22	Fertilizers	43,613	34,049	28.1	149,600	264,319	(S)	58,970	87,605	–32.7	171	157	8.8
23	Chemical products and preparations, n.e.c.	331,750	226,598	46.4	123,537	105,962	16.6	58,477	53,657	9.0	638	385	65.7
24	Plastics and rubber	489,435	325,673	50.3	186,392	139,973	33.2	104,622	80,827	29.4	550	424	29.8
25	Logs and other wood in the rough	7,086	5,756	23.1	107,869	(S)	(S)	11,164	7,790	43.3	110	(S)	(S)
26	Wood products	183,868	158,586	15.9	323,773	345,940	–6.4	100,787	120,151	–16.1	328	242	35.3
27	Pulp, newsprint, paper, and paperboard	126,857	102,495	23.8	145,380	137,053	6.1	82,098	78,160	5.0	297	206	44.1
28	Paper or paperboard articles	118,070	103,713	13.8	82,233	69,211	18.8	28,977	23,360	24.0	512	282	81.5
29	Printed products	190,389	134,452	41.6	51,435	34,015	51.2	22,363	17,037	31.3	579	816	–29.1
30	Textiles, leather, and articles of textiles or leather	473,610	466,429	1.5	46,728	51,232	–8.8	30,643	31,787	–3.6	1,101	940	17.1
31	Nonmetallic mineral products	196,993	149,951	31.4	1,156,790	967,978	19.5	115,289	135,937	–15.2	447	357	25.3
32	Base metal in primary or semifinished forms and in finished basic shapes	488,410	259,834	88.0	364,940	328,053	11.2	129,224	121,330	6.5	360	270	33.4
33	Articles of base metal	388,292	234,571	65.5	131,924	116,447	13.3	52,343	42,680	22.6	561	392	43.2
34	Machinery	628,267	484,152	29.8	66,728	63,390	5.3	36,760	34,535	6.4	498	377	32.0
35	Electronic and other electrical equipment and components and office equipment	1,046,495	890,803	17.5	47,528	49,592	–4.2	31,645	30,269	4.5	815	713	14.3
36	Motorized and other vehicles (including parts)	907,288	748,550	21.2	133,126	133,088	–	64,776	59,029	9.7	489	395	23.8
37	Transportation equipment, n.e.c.	173,883	155,013	12.2	6,815	18,352	–62.9	4,471	10,649	–58.0	908	1,074	–15.5
38	Precision instruments and apparatus	304,620	225,070	35.3	5,668	18,352	–69.1	3,513	3,912	–10.2	1,008	922	9.3
39	Furniture, mattresses and mattress supports, lamps, lighting fittings, and illuminated signs	152,286	139,727	9.0	26,633	32,546	–18.2	15,024	13,705	9.6	766	515	48.7
40	Miscellaneous manufactured products	490,305	387,426	26.6	91,844	79,208	16.0	41,995	34,467	21.8	1,012	995	1.7
41	Waste and scrap	82,243	37,896	117.0	305,878	217,234	40.8	67,023	48,009	39.6	152	166	–8.5
43	Mixed freight	932,353	840,346	10.9	300,922	299,926	0.3	56,137	52,823	6.3	369	329	12.3
99	Commodity unknown	1,453	17,229	–91.6	(S)	24,266	(S)	145	8,889	–98.4	485	485	0.1

– Estimate equal to zero.

(S) Estimate did not meet publication standards.

[1] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See "Mileage Calculations" section for additional information.

[2] Estimates exclude shipments of crude petroleum (SCTG 16).

Notes:

Value-of-shipments estimates have not been adjusted for price changes. Appendix B tables provide estimated measures of sampling variability. The Introduction and appendixes give 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/cfs>.

Generally, estimates that equal zero are not shown and are indicated by "–." However, the 2007 and 2002 Commodity Flow Surveys have different distinctions between an estimate that equals zero and an estimate that rounds to zero. For 2007 data, the "–" represents estimates that equal zero. For 2002 data, the "–" represents estimates that equal or round to zero.

Table 6.

Shipment Characteristics by Three-Digit Commodity for the United States: 2007

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

SCTG code	Commodity description	Value		Tons		Ton-miles[1]		Average miles per shipment
		2007 (million dollars)	Percent	2007 (thousands)	Percent	2007 (millions)	Percent	
	Total[2]	**11,684,872**	**100.0**	**12,543,425**	**100.0**	**3,344,658**	**100.0**	**619**
010	Live animals and live fish	10,833	0.1	6,150	(Z)	3,973	0.1	739
021	Wheat	27,884	0.2	135,053	1.1	59,854	1.8	241
022	Corn, except sweet	46,362	0.4	330,089	2.6	126,146	3.8	91
029	Other cereal grains	10,605	0.1	49,009	0.4	17,446	0.5	210
031	Fresh or chilled potatoes (Irish potatoes), except sweet	6,828	0.1	9,980	0.1	6,189	0.2	108
032	Fresh or chilled edible vegetables, except potatoes (Irish potatoes), and dried vegetables	38,943	0.3	30,326	0.2	16,304	0.5	142
033	Fresh, chilled, or dried edible fruit and nuts	30,795	0.3	20,540	0.2	12,657	0.4	160
034	Soy beans	30,988	0.3	108,436	0.9	39,292	1.2	161
035	Oil seeds and nuts, except olives and soy beans	4,272	(Z)	6,478	0.1	2,405	0.1	256
036	Bulb, live plants, and seeds for sowing, n.e.c.	13,539	0.1	7,699	0.1	4,150	0.1	832
039	Fresh-cut flowers, plants, and parts of plants, and other agricultural products, except forage products and cereal straw or husks	18,272	0.2	28,432	0.2	7,210	0.2	206
041	Cereal straw or husks, forage products, residues and waste from the food industries used in animal feeding, and eggs and other products of animal origin, n.e.c.	30,306	0.3	102,979	0.8	40,945	1.2	243
042	Animal feed preparations	60,167	0.5	143,457	1.1	35,242	1.1	552
051	Meat including poultry, except preparations	234,949	2.0	88,819	0.7	43,154	1.3	257
052	Fish, except live, and seafood, except preparations	37,913	0.3	7,736	0.1	4,180	0.1	218
053	Preparations, extracts, and juices of meat, fish, or seafood	4,389	(Z)	1,857	(Z)	1,215	(Z)	315
061	Wheat flour, groats, and meal	11,721	0.1	32,063	0.3	8,813	0.3	168
062	Malt, starches, insulin, wheat gluten, and milled or otherwise worked grains, except wheat flour, groats, and meal	11,860	0.1	22,018	0.2	12,794	0.4	984
063	Food preparations of cereals, flour, starch, or milk	39,196	0.3	25,085	0.2	12,785	0.4	701
064	Bakery products	80,362	0.7	40,858	0.3	16,340	0.5	330
071	Dairy products, except chocolate milk, eggnog, and food preparations of milk	119,682	1.0	81,701	0.7	23,757	0.7	107
072	Processed or prepared vegetables, fruit, or nuts, except dried or milled, and juices	95,438	0.8	61,965	0.5	43,443	1.3	148
073	Coffee, tea, and spices, except unprocessed coffee and unfermented tea	17,735	0.2	5,136	(Z)	2,739	0.1	520
074	Animal or vegetable fats and oils and their cleavage products, prepared edible fats, animal or vegetable waxes, and flours and meals	33,644	0.3	55,812	0.4	25,181	0.8	377
075	Cane, beet, and other sugars in solid form, sugar syrups not containing added flavoring or coloring matter, and molasses	13,899	0.1	35,535	0.3	16,616	0.5	251
076	Confectionery, cocoa, and cocoa preparations	24,695	0.2	8,147	0.1	5,335	0.2	1,119
077	Edible preparations, n.e.c. and vinegar	67,063	0.6	39,054	0.3	23,797	0.7	732
078	Nonalcoholic beverages, n.e.c. and ice	107,600	0.9	181,085	1.4	30,585	0.9	67
081	Malt beer	81,310	0.7	81,129	0.6	16,802	0.5	34
082	Wine and other fermented beverages	40,283	0.3	13,091	0.1	6,873	0.2	179
083	Spirituous beverages and ethyl alcohol	36,729	0.3	19,791	0.2	13,010	0.4	92
090	Tobacco products	70,551	0.6	3,289	(Z)	390	(Z)	407
100	Monumental or building stone, except dolomite	5,202	(Z)	28,738	0.2	3,113	0.1	123
110	Natural sands, except metal-bearing	6,665	0.1	460,085	3.7	41,125	1.2	56
120	Gravel and crushed stone, except dolomite and slate	21,167	0.2	2,039,457	16.3	147,770	4.4	37
131	Salt	4,565	(Z)	54,553	0.4	20,382	0.6	381
132	Natural calcium phosphates, natural aluminum-calcium phosphates, and phosphatic chalk	868	(Z)	16,563	0.1	1,026	(Z)	233
133	Dolomite	969	(Z)	111,138	0.9	4,704	0.1	24
139	Other nonmetallic minerals	10,324	0.1	90,009	0.7	25,983	0.8	300
141	Iron ores and concentrates	3,774	(Z)	66,322	0.5	29,905	0.9	138
149	Other metallic ores and concentrates	29,136	0.2	10,350	0.1	9,414	0.3	577
151	Nonagglomerated bituminous coal	35,872	0.3	1,300,861	10.4	832,520	24.9	108
159	Other coal	2,356	(Z)	115,326	0.9	3,276	0.1	87
171	Gasoline	615,229	5.3	883,224	7.0	61,355	1.8	43
172	Aviation turbine fuel (types A and B)	47,966	0.4	75,937	0.6	7,293	0.2	99
180	Fuel oils	373,515	3.2	641,894	5.1	54,243	1.6	32
191	Lubricating oils and greases	90,191	0.8	60,939	0.5	24,293	0.7	225
192	Refined petroleum oils and oils obtained from bituminous minerals, n.e.c.	42,648	0.4	73,539	0.6	30,652	0.9	86
193	Gaseous hydrocarbons	81,791	0.7	113,850	0.9	21,531	0.6	33
199	Other products of petroleum refining, and coal products	53,533	0.5	329,862	2.6	50,713	1.5	100

See footnotes at end of table.

Table 6.
Shipment Characteristics by Three-Digit Commodity for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

SCTG code	Commodity description	Value		Tons		Ton-miles[1]		Average miles per shipment
		2007 (million dollars)	Percent	2007 (thousands)	Percent	2007 (millions)	Percent	
201	Sodium hydroxide (caustic soda) and potassium hydroxide (caustic potash)	7,988	0.1	25,408	0.2	10,901	0.3	167
202	Inorganic chemicals, n.e.c.	79,908	0.7	229,673	1.8	88,089	2.6	168
203	Cyclic hydrocarbons	19,212	0.2	22,975	0.2	6,392	0.2	754
204	Phenols, phenol-alcohols, aldehydes, cyclic polymers of aldehydes, paraformaldehyde, ketones, quinones, organic acids, and acyclic alcohols	31,844	0.3	29,373	0.2	14,195	0.4	423
205	Organic chemicals, n.e.c.	132,517	1.1	105,152	0.8	51,579	1.5	756
210	Pharmaceutical products	771,252	6.6	19,076	0.2	8,134	0.2	635
220	Fertilizers and fertilizer materials	43,613	0.4	149,600	1.2	58,970	1.8	171
231	Paints and varnishes, tanning or dyeing extracts, tannins and their derivatives, dyes, putty and other mastics, inks, and coloring matter, except pigments and synthetic organic dyes, lakes, and toners	57,782	0.5	20,578	0.2	10,497	0.3	839
232	Essential oils and resinoids, and perfumery, cosmetic, or toilet preparations	104,263	0.9	14,160	0.1	9,193	0.3	756
233	Soap, organic surface-active agents, cleaning preparations, polishes and creams, and scouring preparations	63,653	0.5	40,896	0.3	19,125	0.6	360
234	Photographic film, plates, paper, paperboard, or textiles, and chemical preparations for photographic use	18,602	0.2	1,821	(Z)	1,291	(Z)	404
235	Insecticides, rodenticides, fungicides, herbicides, antisprouting products, plant-growth regulators, disinfectants, and similar products, in packages for retail sale or as preparations or articles	30,055	0.3	9,778	0.1	3,626	0.1	254
239	Other chemical products and preparations	57,395	0.5	36,304	0.3	14,745	0.4	470
241	Plastics in primary forms, rubber in primary forms or sheets, and unvulcanized compounded rubber	122,270	1.0	79,626	0.6	51,457	1.5	600
242	Manmade fibers and plastics basic shapes and articles	261,587	2.2	82,469	0.7	40,919	1.2	654
243	Rubber articles	105,578	0.9	24,297	0.2	12,247	0.4	367
250	Logs and other wood in the rough	7,086	0.1	107,869	0.9	11,164	0.3	110
261	Wood chips or particles	2,859	(Z)	66,612	0.5	5,810	0.2	73
262	Lumber, wood continuously shaped along any of its edges or faces, and shingles and shakes	83,765	0.7	155,769	1.2	58,538	1.8	287
263	Veneer sheets and sheets for plywood, particle board, fiberboard, plywood, veneered panels, and similar boards of ligneous material or laminated wood	40,970	0.4	58,145	0.5	26,378	0.8	294
264	Builders joinery and carpentry of wood, except shingles and shakes	37,857	0.3	13,142	0.1	3,826	0.1	283
269	Other wood products	18,418	0.2	30,106	0.2	6,235	0.2	540
271	Pulp of fibrous cellulosic materials	8,842	0.1	14,249	0.1	7,629	0.2	586
272	Newsprint in large rolls or sheets	4,152	(Z)	6,618	0.1	4,098	0.1	358
273	Uncoated paper and paperboard in large rolls or sheets	65,871	0.6	81,447	0.6	46,772	1.4	258
274	Coated, impregnated, treated, or worked paper and paperboard, in large rolls or sheets	47,993	0.4	43,066	0.3	23,598	0.7	353
280	Paper or paperboard articles	118,070	1.0	82,233	0.7	28,977	0.9	512
291	Printed books, brochures, leaflets, and similar printed products	85,609	0.7	11,618	0.1	7,003	0.2	1,047
292	Newspapers, journals, and periodicals	25,831	0.2	15,338	0.1	2,594	0.1	78
293	Advertising material, commercial or trade catalogues, and similar printed products	33,826	0.3	15,664	0.1	7,888	0.2	831
299	Other printed products	45,123	0.4	8,816	0.1	4,879	0.1	757
301	Textile fibers, yarns, and broadwoven or knitted fabrics, except coated or treated	56,837	0.5	10,954	0.1	5,131	0.2	987
302	Textile clothing and accessories, and headgear, except safety	262,867	2.2	12,452	0.1	11,195	0.3	1,099
303	Textiles and textile articles, n.e.c.	98,757	0.8	20,627	0.2	11,442	0.3	933
304	Footwear	37,234	0.3	1,706	(Z)	1,753	0.1	1,363
305	Leather and articles, luggage of related materials, and dressed furskins and articles	17,916	0.2	990	(Z)	1,123	(Z)	1,289
311	Hydraulic cements	18,296	0.2	204,141	1.6	24,995	0.7	80
312	Ceramic products	31,345	0.3	30,987	0.2	10,931	0.3	738
313	Glass and glass products	48,203	0.4	36,299	0.3	14,806	0.4	711
319	Other nonmetallic mineral products	99,149	0.8	885,363	7.1	64,556	1.9	79
321	Iron and steel in primary forms, in semifinished forms, or in powders or granules, and ferroalloys	45,266	0.4	37,698	0.3	11,955	0.4	442
322	Flat-rolled products of iron or steel	171,961	1.5	185,342	1.5	60,375	1.8	219
323	Bars, rods, angles, shapes, sections, and wire, of iron or steel	102,126	0.9	103,111	0.8	33,986	1.0	366
324	Nonferrous metal, except precious, in unwrought forms, in finished basic shapes, or in powders or granules	169,057	1.4	38,789	0.3	22,908	0.7	458
331	Pipes, tubes, and fittings	121,274	1.0	58,733	0.5	23,424	0.7	305

See footnotes at end of table.

Table 6.
Shipment Characteristics by Three-Digit Commodity for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

SCTG code	Commodity description	Value		Tons		Ton-miles[1]		Average miles per shipment
		2007 (million dollars)	Percent	2007 (thousands)	Percent	2007 (millions)	Percent	
332	Structures and parts, except prefabricated buildings	85,291	0.7	30,351	0.2	11,741	0.4	426
333	Handtools, cutlery, except of precious metals, interchangeable tools for hand- or machine-tools, hardware, and industrial fasteners	95,327	0.8	12,824	0.1	5,909	0.2	639
339	Other articles of metal	86,400	0.7	30,015	0.2	11,269	0.3	750
341	Internal-combustion piston engines	102,445	0.9	9,757	0.1	5,235	0.2	405
342	Turbines, boilers, nuclear reactors, and nonelectric engines and motors, except internal combustion piston engines	46,246	0.4	1,200	(Z)	771	(Z)	662
343	Pumps, compressors, and fans, and ventilating or recycling hoods incorporating a fan	62,546	0.5	4,777	(Z)	3,064	0.1	585
344	Air-conditioning, refrigerating, or freezing equipment	59,508	0.5	7,692	0.1	4,169	0.1	272
345	Materials-handling, excavating, boring, and related machinery and equipment	91,191	0.8	17,403	0.1	10,404	0.3	410
349	Other machinery	266,331	2.3	25,898	0.2	13,116	0.4	563
351	Electric motors, generators, generating sets, rotary converters, transformers, static converters, and inductors	47,906	0.4	5,470	(Z)	3,116	0.1	597
352	Electric cooking appliances and other electrothermic or electromechanical domestic appliances	25,312	0.2	3,008	(Z)	2,356	0.1	1,027
353	Line telephone or telegraph apparatus	32,755	0.3	389	(Z)	312	(Z)	699
354	Electronic entertainment products, except parts	102,483	0.9	5,014	(Z)	5,056	0.2	1,136
355	Computer and office equipment	227,615	1.9	3,900	(Z)	3,456	0.1	1,000
356	Prepared unrecorded or prerecorded media	58,714	0.5	1,487	(Z)	1,769	0.1	1,135
357	Transmission apparatus for radio or television broadcasting, radio transmission and reception apparatus, radar apparatus, radio navigational-aid apparatus, and radio remote-control apparatus, except radio broadcast receivers and parts	58,903	0.5	529	(Z)	534	(Z)	978
358	Electronic components and parts	184,919	1.6	1,121	(Z)	872	(Z)	1,131
359	Other electronic and electrical equipment	307,888	2.6	26,611	0.2	14,175	0.4	494
361	Motor vehicles for the transport of less than 10 people, except motorcycles, armored fighting vehicles, snowmobiles, golf carts and similar vehicles, and parts	300,027	2.6	31,864	0.3	17,950	0.5	446
362	Motor vehicles for the transport of goods and road tractors for semitrailers, except parts	50,305	0.4	7,735	0.1	3,922	0.1	397
363	Other vehicles	138,244	1.2	20,485	0.2	11,832	0.4	725
364	Parts and accessories for motor vehicles, except motorcycles and armored fighting vehicles	418,712	3.6	73,042	0.6	31,072	0.9	455
371	Locomotives and rolling stock, railway track fixtures and fittings, mechanical or electromechanical traffic-signalling equipment, and intermodal containers	16,157	0.1	4,602	(Z)	2,704	0.1	734
372	Aircraft and spacecraft	140,337	1.2	982	(Z)	674	(Z)	931
373	Ships, boats, and floating structures	17,388	0.1	1,230	(Z)	1,094	(Z)	790
381	Optical elements, instruments, and apparatus, except photographic and photocopying equipment and optical instruments and apparatus for measuring or checking	30,878	0.3	320	(Z)	225	(Z)	996
382	Photographic and photocopying machines	30,349	0.3	587	(Z)	286	(Z)	947
383	Surveying,hydrographic, oceanographic, hydrological, geophysical, drawing, or length-measuring instruments and appliances, and navigational and meteorological instruments and appliances, except radar and other radio-type apparatus	10,465	0.1	66	(Z)	59	(Z)	1,105
384	Instruments, apparatus, and appliances for medical, surgical, dental, or veterinary sciences, or for similar purposes	158,352	1.4	3,084	(Z)	1,713	0.1	1,061
385	Meters and other instruments and apparatus for measuring, checking, testing, or controlling	74,577	0.6	1,610	(Z)	1,231	(Z)	880
390	Furniture, mattresses and mattress supports, lamps, lighting fittings, and illuminated signs	152,286	1.3	26,633	0.2	15,024	0.4	766
401	Arms and ammunition	17,714	0.2	688	(Z)	546	(Z)	1,033
402	Toys, games, and sporting equipment	68,695	0.6	7,875	0.1	6,372	0.2	1,196
409	Miscellaneous manufactured products	403,896	3.5	83,281	0.7	35,078	1.0	946
411	Metallic waste and scrap	68,639	0.6	186,551	1.5	31,232	0.9	110
412	Nonmetallic waste and scrap, except from food processing	13,604	0.1	119,327	1.0	35,791	1.1	212
439	Mixed freight	932,353	8.0	300,922	2.4	56,137	1.7	369
999	Commodity unknown	1,453	(Z)	583	(Z)	145	(Z)	485

(Z) Estimate is between zero and half the unit shown, thus rounded to zero.

[1] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See "Mileage Calculations" section for additional information.

[2] Estimates exclude shipments of crude petroleum (SCTG 16).

Note: Value-of-shipments estimates have not been adjusted for price changes. Appendix B tables provide estimated measures of sampling variability. The Introduction and appendixes give 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/cfs>.

Table 7.

Shipment Characteristics by Two-Digit Commodity and Mode of Transportation for the United States: 2007

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

SCTG code, description, and mode of transportation	Value		Tons		Ton-miles[1]		Average miles per shipment
	2007 (million dollars)	Percent	2007 (thousands)	Percent	2007 (millions)	Percent	
All Commodities							
Total[2]	**11,684,872**	**100.0**	**12,543,425**	**100.0**	**3,344,658**	**100.0**	**619**
Single modes	**9,539,037**	**81.6**	**11,698,128**	**93.3**	**2,894,251**	**86.5**	**234**
Truck[3]	8,335,789	71.3	8,778,713	70.0	1,342,104	40.1	206
For-hire truck	4,955,700	42.4	4,075,136	32.5	1,055,646	31.6	599
Private truck	3,380,090	28.9	4,703,576	37.5	286,457	8.6	57
Rail	436,420	3.7	1,861,307	14.8	1,344,040	40.2	728
Water	114,905	1.0	403,639	3.2	157,314	4.7	520
Shallow draft	91,004	0.8	343,307	2.7	117,473	3.5	144
Great Lakes	(S)	(S)	17,792	0.1	6,887	0.2	657
Deep draft	23,058	0.2	42,540	0.3	32,954	1.0	923
Air (includes truck and air)	252,276	2.2	3,611	(Z)	4,510	0.1	1,304
Pipeline[4]	399,646	3.4	650,859	5.2	(S)	(S)	(S)
Multiple modes	**1,866,723**	**16.0**	**573,729**	**4.6**	**416,642**	**12.5**	**975**
Parcel, U.S. Postal Service or courier	1,561,874	13.4	33,900	0.3	27,961	0.8	975
Truck and rail	187,248	1.6	225,589	1.8	196,772	5.9	1,007
Truck and water	58,389	0.5	145,521	1.2	98,396	2.9	1,429
Rail and water	13,892	0.1	54,878	0.4	47,111	1.4	1,928
Other multiple modes	45,320	0.4	113,841	0.9	46,402	1.4	1,182
Other and unknown modes	**279,113**	**2.4**	**271,567**	**2.2**	**33,764**	**1.0**	**116**
SCTG 01, Live Animals and Live Fish							
Total	**10,833**	**100.0**	**6,150**	**100.0**	**3,973**	**100.0**	**739**
Single modes	**10,602**	**97.9**	**6,075**	**98.8**	**3,956**	**99.6**	**315**
Truck[3]	10,379	95.8	6,053	98.4	3,928	98.9	236
For-hire truck	7,902	72.9	4,537	73.8	3,625	91.3	708
Private truck	2,477	22.9	1,517	24.7	303	7.6	(S)
Rail	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Water	–	–	–	–	–	–	–
Shallow draft	–	–	–	–	–	–	–
Great Lakes	–	–	–	–	–	–	–
Deep draft	–	–	–	–	–	–	–
Air (includes truck and air)	(S)	(S)	(S)	(S)	(S)	(S)	1,463
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**(S)**	**(S)**	**9**	**0.2**	**11**	**0.3**	**1,152**
Parcel, U.S. Postal Service or courier	(S)	(S)	9	0.2	11	0.3	1,152
Truck and rail	–	–	–	–	–	–	–
Truck and water	–	–	–	–	–	–	–
Rail and water	–	–	–	–	–	–	–
Other multiple modes	–	–	–	–	–	–	–
Other and unknown modes	**(S)**	**(S)**	**(S)**	**(S)**	**(S)**	**(S)**	**1,538**

See footnotes at end of table.

Table 7.
Shipment Characteristics by Two-Digit Commodity and Mode of Transportation for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

SCTG code, description, and mode of transportation	Value		Tons		Ton-miles[1]		Average miles per shipment
	2007 (million dollars)	Percent	2007 (thousands)	Percent	2007 (millions)	Percent	
SCTG 02, Cereal Grains							
Total[2]	**84,851**	**100.0**	**514,151**	**100.0**	**203,446**	**100.0**	**139**
Single modes	**76,017**	**89.6**	**466,087**	**90.7**	**181,103**	**89.0**	**129**
Truck[3]	36,994	43.6	234,029	45.5	17,532	8.6	84
For-hire truck	19,627	23.1	123,027	23.9	11,642	5.7	106
Private truck	17,367	20.5	111,001	21.6	5,889	2.9	64
Rail	27,576	32.5	161,447	31.4	115,354	56.7	800
Water	11,168	13.2	69,583	13.5	48,215	23.7	1,008
Shallow draft	10,238	12.1	64,190	12.5	47,803	23.5	1,022
Great Lakes	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Deep draft	890	1.0	5,112	1.0	(S)	(S)	26
Air (includes truck and air)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Pipeline[4]	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Multiple modes	**5,482**	**6.5**	**32,002**	**6.2**	**21,885**	**10.8**	**1,007**
Parcel, U.S. Postal Service or courier	1	(Z)	3	(Z)	(S)	(S)	834
Truck and rail	(S)	(S)	(S)	(S)	(S)	(S)	1,145
Truck and water	(S)	(S)	(S)	(S)	(S)	(S)	920
Rail and water	1,744	2.1	11,937	2.3	(S)	(S)	784
Other multiple modes	1,885	2.2	10,618	2.1	8,109	4.0	884
Other and unknown modes	**(S)**	**(S)**	**(S)**	**(S)**	**(S)**	**(S)**	**101**
SCTG 03, Other Agricultural Products							
Total[2]	**143,637**	**100.0**	**211,890**	**100.0**	**88,207**	**100.0**	**354**
Single modes	**130,762**	**91.0**	**189,600**	**89.5**	**72,147**	**81.8**	**216**
Truck[3]	118,832	82.7	154,135	72.7	44,436	50.4	207
For-hire truck	60,287	42.0	74,922	35.4	38,262	43.4	966
Private truck	58,545	40.8	79,213	37.4	6,173	7.0	103
Rail	5,530	3.9	16,029	7.6	13,954	15.8	998
Water	5,589	3.9	19,303	9.1	13,494	15.3	1,024
Shallow draft	4,662	3.2	16,660	7.9	13,118	14.9	991
Great Lakes	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Deep draft	(S)	(S)	(S)	(S)	(S)	(S)	1,050
Air (includes truck and air)	811	0.6	(S)	(S)	(S)	(S)	972
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**9,668**	**6.7**	**17,140**	**8.1**	**15,458**	**17.5**	**982**
Parcel, U.S. Postal Service or courier	2,842	2.0	98	(Z)	96	0.1	982
Truck and rail	4,761	3.3	11,147	5.3	9,711	11.0	920
Truck and water	1,400	1.0	4,162	2.0	4,196	4.8	1,732
Rail and water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Other multiple modes	(S)	(S)	1,731	0.8	1,451	1.6	(S)
Other and unknown modes	**3,207**	**2.2**	**5,149**	**2.4**	**602**	**0.7**	**(S)**

See footnotes at end of table.

Table 7.
Shipment Characteristics by Two-Digit Commodity and Mode of Transportation for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

SCTG code, description, and mode of transportation	Value		Tons		Ton-miles[1]		Average miles per shipment
	2007 (million dollars)	Percent	2007 (thousands)	Percent	2007 (millions)	Percent	
SCTG 04, Animal Feed and Products of Animal Origin, n.e.c.							
Total[2]	**90,472**	**100.0**	**246,436**	**100.0**	**76,188**	**100.0**	**499**
Single modes	**79,470**	**87.8**	**227,721**	**92.4**	**57,461**	**75.4**	**144**
Truck[3]	74,408	82.2	203,977	82.8	36,450	47.8	136
For-hire truck	36,340	40.2	92,051	37.4	25,784	33.8	298
Private truck	38,068	42.1	111,926	45.4	10,666	14.0	81
Rail	4,941	5.5	23,157	9.4	20,787	27.3	884
Water	(S)	(S)	(S)	(S)	224	0.3	2,241
Shallow draft	9	(Z)	136	0.1	125	0.2	919
Great Lakes	–	–	–	–	–	–	–
Deep draft	(S)	(S)	(S)	(S)	(S)	(S)	2,304
Air (includes truck and air)	1	(Z)	(Z)	(Z)	(S)	(S)	(S)
Pipeline[4]	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Multiple modes	**9,167**	**10.1**	**15,498**	**6.3**	**18,102**	**23.8**	**1,006**
Parcel, U.S. Postal Service or courier	970	1.1	147	0.1	112	0.1	998
Truck and rail	7,143	7.9	10,756	4.4	14,354	18.8	1,461
Truck and water	(S)	(S)	(S)	(S)	(S)	(S)	2,575
Rail and water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Other multiple modes	34	(Z)	(S)	(S)	(S)	(S)	(S)
Other and unknown modes	**1,836**	**2.0**	**3,217**	**1.3**	**625**	**0.8**	**77**
SCTG 05, Meat, Fish, Seafood, and Their Preparations							
Total[2]	**277,251**	**100.0**	**98,413**	**100.0**	**48,549**	**100.0**	**247**
Single modes	**270,162**	**97.4**	**95,705**	**97.2**	**42,427**	**87.4**	**140**
Truck[3]	266,892	96.3	94,294	95.8	40,274	83.0	128
For-hire truck	148,414	53.5	53,076	53.9	33,939	69.9	581
Private truck	118,478	42.7	41,218	41.9	6,335	13.0	66
Rail	1,257	0.5	963	1.0	1,573	3.2	980
Water	927	0.3	330	0.3	368	0.8	952
Shallow draft	45	(Z)	10	(Z)	(S)	(S)	50
Great Lakes	–	–	–	–	–	–	–
Deep draft	882	0.3	320	0.3	368	0.8	977
Air (includes truck and air)	1,086	0.4	117	0.1	212	0.4	1,799
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**4,405**	**1.6**	**1,802**	**1.8**	**(S)**	**(S)**	**1,021**
Parcel, U.S. Postal Service or courier	1,203	0.4	106	0.1	89	0.2	1,029
Truck and rail	1,185	0.4	453	0.5	690	1.4	(S)
Truck and water	1,972	0.7	1,222	1.2	(S)	(S)	1,621
Rail and water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Other multiple modes	37	(Z)	(S)	(S)	(S)	(S)	1,134
Other and unknown modes	**2,684**	**1.0**	**906**	**0.9**	**245**	**0.5**	**(S)**

See footnotes at end of table.

Table 7.
Shipment Characteristics by Two-Digit Commodity and Mode of Transportation for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

SCTG code, description, and mode of transportation	Value		Tons		Ton-miles[1]		Average miles per shipment
	2007 (million dollars)	Percent	2007 (thousands)	Percent	2007 (millions)	Percent	
SCTG 06, Milled Grain Products and Preparations and Bakery Products							
Total[2]	**143,139**	**100.0**	**120,023**	**100.0**	**50,732**	**100.0**	**403**
Single modes	**134,016**	**93.6**	**112,296**	**93.6**	**44,445**	**87.6**	**104**
Truck[3]	129,757	90.7	102,359	85.3	35,356	69.7	103
For-hire truck	69,506	48.6	58,299	48.6	28,495	56.2	497
Private truck	60,252	42.1	44,059	36.7	6,861	13.5	63
Rail	3,987	2.8	9,335	7.8	9,007	17.8	1,065
Water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Shallow draft	146	0.1	(S)	(S)	4	(Z)	15
Great Lakes	–	–	–	–	–	–	–
Deep draft	19	(Z)	(S)	(S)	(S)	(S)	(S)
Air (includes truck and air)	(S)	(S)	(S)	(S)	(S)	(S)	1,504
Pipeline[4]	50	(Z)	134	0.1	(S)	(S)	(S)
Multiple modes	**6,946**	**4.9**	**5,064**	**4.2**	**5,541**	**10.9**	**1,151**
Parcel, U.S. Postal Service or courier	3,510	2.5	252	0.2	281	0.6	1,151
Truck and rail	3,152	2.2	4,462	3.7	4,863	9.6	1,359
Truck and water	236	0.2	267	0.2	376	0.7	949
Rail and water	1	(Z)	5	(Z)	13	(Z)	2,711
Other multiple modes	47	(Z)	77	0.1	9	(Z)	(S)
Other and unknown modes	**2,176**	**1.5**	**2,662**	**2.2**	**746**	**1.5**	**(S)**
SCTG 07, Other Prepared Foodstuffs and Fats and Oils							
Total[2]	**479,757**	**100.0**	**468,435**	**100.0**	**171,452**	**100.0**	**268**
Single modes	**458,575**	**95.6**	**450,292**	**96.1**	**154,433**	**90.1**	**100**
Truck[3]	444,950	92.7	421,065	89.9	123,475	72.0	95
For-hire truck	238,928	49.8	208,164	44.4	103,778	60.5	518
Private truck	206,022	42.9	212,901	45.4	19,697	11.5	47
Rail	12,203	2.5	26,597	5.7	30,190	17.6	1,092
Water	804	0.2	2,461	0.5	(S)	(S)	(S)
Shallow draft	698	0.1	2,380	0.5	(S)	(S)	(S)
Great Lakes	–	–	–	–	–	–	–
Deep draft	106	(Z)	82	(Z)	148	0.1	(S)
Air (includes truck and air)	543	0.1	46	(Z)	81	(Z)	1,706
Pipeline[4]	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Multiple modes	**15,044**	**3.1**	**11,730**	**2.5**	**15,085**	**8.8**	**1,132**
Parcel, U.S. Postal Service or courier	6,171	1.3	408	0.1	324	0.2	1,129
Truck and rail	7,376	1.5	10,053	2.1	12,484	7.3	1,452
Truck and water	1,433	0.3	1,232	0.3	2,115	1.2	1,716
Rail and water	24	(Z)	(S)	(S)	(S)	(S)	6,136
Other multiple modes	40	(Z)	25	(Z)	81	(Z)	3,254
Other and unknown modes	**6,137**	**1.3**	**6,413**	**1.4**	**1,935**	**1.1**	**114**

See footnotes at end of table.

Table 7.
Shipment Characteristics by Two-Digit Commodity and Mode of Transportation for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

SCTG code, description, and mode of transportation	Value		Tons		Ton-miles[1]		Average miles per shipment
	2007 (million dollars)	Percent	2007 (thousands)	Percent	2007 (millions)	Percent	
SCTG 08, Alcoholic Beverages							
Total[2]	**158,322**	**100.0**	**114,012**	**100.0**	**36,685**	**100.0**	**80**
Single modes	**150,817**	**95.3**	**109,559**	**96.1**	**29,518**	**80.5**	**51**
Truck[3]	144,662	91.4	101,686	89.2	19,711	53.7	49
For-hire truck	43,589	27.5	36,245	31.8	15,692	42.8	338
Private truck	101,073	63.8	65,441	57.4	4,019	11.0	34
Rail	5,003	3.2	6,856	6.0	8,651	23.6	1,015
Water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Shallow draft	(S)	(S)	(S)	(S)	(S)	(S)	1,004
Great Lakes	–	–	–	–	–	–	–
Deep draft	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Air (includes truck and air)	(S)	(S)	(S)	(S)	(S)	(S)	2,374
Pipeline[4]	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Multiple modes	**6,405**	**4.0**	**3,876**	**3.4**	**6,829**	**18.6**	**1,212**
Parcel, U.S. Postal Service or courier	655	0.4	55	(Z)	49	0.1	1,190
Truck and rail	5,463	3.5	3,637	3.2	6,110	16.7	1,615
Truck and water	276	0.2	174	0.2	653	1.8	1,888
Rail and water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Other multiple modes	6	(Z)	(S)	(S)	(S)	(S)	(S)
Other and unknown modes	**1,101**	**0.7**	**577**	**0.5**	**339**	**0.9**	**(S)**
SCTG 09, Tobacco Products							
Total[2]	**70,551**	**100.0**	**3,289**	**100.0**	**390**	**100.0**	**407**
Single modes	**68,078**	**96.5**	**3,239**	**98.5**	**356**	**91.4**	**104**
Truck[3]	67,967	96.3	3,237	98.4	354	90.9	103
For-hire truck	15,522	22.0	903	27.5	265	68.1	618
Private truck	52,445	74.3	2,334	71.0	89	22.8	61
Rail	–	–	–	–	–	–	–
Water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Shallow draft	–	–	–	–	–	–	–
Great Lakes	–	–	–	–	–	–	–
Deep draft	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Air (includes truck and air)	(S)	(S)	(S)	(S)	(S)	(S)	1,173
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**2,280**	**3.2**	**44**	**1.3**	**33**	**8.4**	**771**
Parcel, U.S. Postal Service or courier	2,260	3.2	43	1.3	31	8.1	771
Truck and rail	–	–	–	–	–	–	–
Truck and water	20	(Z)	(S)	(S)	(S)	(S)	(S)
Rail and water	–	–	–	–	–	–	–
Other multiple modes	–	–	–	–	–	–	–
Other and unknown modes	**193**	**0.3**	**6**	**0.2**	**1**	**0.1**	**75**

See footnotes at end of table.

Table 7.
Shipment Characteristics by Two-Digit Commodity and Mode of Transportation for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

SCTG code, description, and mode of transportation	Value		Tons		Ton-miles[1]		Average miles per shipment
	2007 (million dollars)	Percent	2007 (thousands)	Percent	2007 (millions)	Percent	
SCTG 10, Monumental or Building Stone							
Total[2]	**5,202**	**100.0**	**28,738**	**100.0**	**3,113**	**100.0**	**123**
Single modes	**4,963**	**95.4**	**27,579**	**96.0**	**2,965**	**95.3**	**104**
Truck[3]	4,956	95.3	27,528	95.8	2,942	94.5	104
For-hire truck	1,804	34.7	13,441	46.8	2,175	69.9	203
Private truck	3,151	60.6	14,086	49.0	768	24.7	54
Rail	3	0.1	(S)	(S)	(S)	(S)	351
Water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Shallow draft	–	–	–	–	–	–	–
Great Lakes	–	–	–	–	–	–	–
Deep draft	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Air (includes truck and air)	–	–	–	–	–	–	–
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**47**	**0.9**	**64**	**0.2**	**72**	**2.3**	**493**
Parcel, U.S. Postal Service or courier	27	0.5	2	(Z)	(S)	(S)	463
Truck and rail	12	0.2	55	0.2	66	2.1	1,488
Truck and water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Rail and water	–	–	–	–	–	–	–
Other multiple modes	–	–	–	–	–	–	–
Other and unknown modes	**(S)**	**(S)**	**1,094**	**3.8**	**(S)**	**(S)**	**(S)**
SCTG 11, Natural Sands							
Total[2]	**6,665**	**100.0**	**460,085**	**100.0**	**41,125**	**100.0**	**56**
Single modes	**6,046**	**90.7**	**426,952**	**92.8**	**27,585**	**67.1**	**49**
Truck[3]	5,530	83.0	408,080	88.7	18,769	45.6	44
For-hire truck	2,542	38.1	161,393	35.1	10,999	26.7	70
Private truck	2,988	44.8	246,688	53.6	7,770	18.9	29
Rail	491	7.4	15,155	3.3	8,602	20.9	533
Water	19	0.3	3,674	0.8	181	0.4	61
Shallow draft	16	0.2	3,661	0.8	178	0.4	32
Great Lakes	–	–	–	–	–	–	–
Deep draft	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Air (includes truck and air)	(S)	(S)	(S)	(S)	(S)	(S)	1,370
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**480**	**7.2**	**18,013**	**3.9**	**11,345**	**27.6**	**714**
Parcel, U.S. Postal Service or courier	11	0.2	2	(Z)	1	(Z)	536
Truck and rail	419	6.3	11,509	2.5	(S)	(S)	829
Truck and water	24	0.4	4,747	1.0	910	2.2	143
Rail and water	–	–	–	–	–	–	–
Other multiple modes	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Other and unknown modes	**138**	**2.1**	**15,121**	**3.3**	**(S)**	**(S)**	**71**

See footnotes at end of table.

Table 7.
Shipment Characteristics by Two-Digit Commodity and Mode of Transportation for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

SCTG code, description, and mode of transportation	Value		Tons		Ton-miles[1]		Average miles per shipment
	2007 (million dollars)	Percent	2007 (thousands)	Percent	2007 (millions)	Percent	
SCTG 12, Gravel and Crushed Stone							
Total[2]	**21,167**	**100.0**	**2,039,457**	**100.0**	**147,770**	**100.0**	**37**
Single modes	**20,160**	**95.2**	**1,934,518**	**94.9**	**119,519**	**80.9**	**36**
Truck[3]	19,079	90.1	1,806,924	88.6	80,604	54.5	34
For-hire truck	9,495	44.9	840,050	41.2	51,587	34.9	43
Private truck	9,584	45.3	966,874	47.4	29,017	19.6	27
Rail	849	4.0	81,795	4.0	23,411	15.8	264
Water	232	1.1	45,798	2.2	15,504	10.5	239
Shallow draft	160	0.8	32,159	1.6	10,752	7.3	310
Great Lakes	66	0.3	13,217	0.6	4,690	3.2	321
Deep draft	6	(Z)	422	(Z)	62	(Z)	146
Air (includes truck and air)	–	–	–	–	–	–	–
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**653**	**3.1**	**73,556**	**3.6**	**26,888**	**18.2**	**251**
Parcel, U.S. Postal Service or courier	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Truck and rail	388	1.8	32,402	1.6	8,680	5.9	244
Truck and water	185	0.9	31,282	1.5	15,382	10.4	221
Rail and water	–	–	–	–	–	–	–
Other multiple modes	(S)	(S)	(S)	(S)	2,825	1.9	440
Other and unknown modes	**354**	**1.7**	**31,384**	**1.5**	**1,362**	**0.9**	**48**
SCTG 13, Nonmetallic Minerals, n.e.c.							
Total[2]	**16,727**	**100.0**	**272,264**	**100.0**	**52,096**	**100.0**	**223**
Single modes	**15,165**	**90.7**	**255,008**	**93.7**	**44,082**	**84.6**	**128**
Truck[3]	13,241	79.2	201,385	74.0	24,251	46.6	117
For-hire truck	8,370	50.0	95,355	35.0	18,984	36.4	229
Private truck	4,871	29.1	106,030	38.9	5,267	10.1	46
Rail	1,571	9.4	30,637	11.3	14,063	27.0	711
Water	263	1.6	16,047	5.9	5,602	10.8	(S)
Shallow draft	250	1.5	14,503	5.3	5,246	10.1	(S)
Great Lakes	(S)	(S)	1,535	0.6	(S)	(S)	222
Deep draft	(S)	(S)	(S)	(S)	(S)	(S)	2,368
Air (includes truck and air)	(S)	(S)	(S)	(S)	(S)	(S)	733
Pipeline[4]	79	0.5	6,784	2.5	(S)	(S)	(S)
Multiple modes	**1,337**	**8.0**	**12,025**	**4.4**	**7,558**	**14.5**	**1,175**
Parcel, U.S. Postal Service or courier	354	2.1	12	(Z)	12	(Z)	1,202
Truck and rail	477	2.9	8,629	3.2	5,712	11.0	849
Truck and water	(S)	(S)	(S)	(S)	650	1.2	1,220
Rail and water	6	(Z)	(S)	(S)	(S)	(S)	2,803
Other multiple modes	56	0.3	2,610	1.0	1,032	2.0	1,432
Other and unknown modes	**225**	**1.3**	**(S)**	**(S)**	**456**	**0.9**	**(S)**

See footnotes at end of table.

Table 7.
Shipment Characteristics by Two-Digit Commodity and Mode of Transportation for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

SCTG code, description, and mode of transportation	Value		Tons		Ton-miles[1]		Average miles per shipment
	2007 (million dollars)	Percent	2007 (thousands)	Percent	2007 (millions)	Percent	
SCTG 14, Metallic Ores and Concentrates							
Total[2]	**32,910**	**100.0**	**76,672**	**100.0**	**39,319**	**100.0**	**504**
Single modes	**27,806**	**84.5**	**52,761**	**68.8**	**18,669**	**47.5**	**305**
Truck[3]	21,287	64.7	6,372	8.3	1,830	4.7	300
For-hire truck	17,839	54.2	4,736	6.2	1,572	4.0	547
Private truck	3,448	10.5	1,635	2.1	259	0.7	61
Rail	5,230	15.9	44,861	58.5	11,349	28.9	448
Water	1,264	3.8	(S)	(S)	5,489	14.0	1,806
Shallow draft	–	–	–	–	–	–	–
Great Lakes	–	–	–	–	–	–	–
Deep draft	1,264	3.8	(S)	(S)	5,489	14.0	1,806
Air (includes truck and air)	(S)	(S)	1	(Z)	(S)	(S)	(S)
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**3,631**	**11.0**	**23,831**	**31.1**	**20,541**	**52.2**	**851**
Parcel, U.S. Postal Service or courier	574	1.7	(S)	(S)	(S)	(S)	846
Truck and rail	2,147	6.5	5,283	6.9	1,089	2.8	1,070
Truck and water	761	2.3	15,915	20.8	17,226	43.8	1,102
Rail and water	–	–	–	–	–	–	–
Other multiple modes	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Other and unknown modes	**(S)**	**(S)**	**(S)**	**(S)**	**(S)**	**(S)**	**(S)**
SCTG 15, Coal							
Total[2]	**38,228**	**100.0**	**1,416,187**	**100.0**	**835,796**	**100.0**	**106**
Single modes	**34,787**	**91.0**	**1,276,735**	**90.2**	**793,840**	**95.0**	**74**
Truck[3]	7,179	18.8	217,602	15.4	14,002	1.7	61
For-hire truck	5,615	14.7	154,215	10.9	11,475	1.4	63
Private truck	1,564	4.1	63,387	4.5	2,527	0.3	48
Rail	25,907	67.8	1,015,209	71.7	773,290	92.5	428
Water	1,701	4.4	43,925	3.1	6,548	0.8	145
Shallow draft	1,701	4.4	43,925	3.1	6,548	0.8	145
Great Lakes	–	–	–	–	–	–	–
Deep draft	–	–	–	–	–	–	–
Air (includes truck and air)	–	–	–	–	–	–	–
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**1,832**	**4.8**	**52,352**	**3.7**	**39,389**	**4.7**	**340**
Parcel, U.S. Postal Service or courier	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Truck and rail	143	0.4	4,024	0.3	785	0.1	(S)
Truck and water	741	1.9	19,612	1.4	7,257	0.9	371
Rail and water	741	1.9	24,171	1.7	26,994	3.2	(S)
Other multiple modes	207	0.5	4,544	0.3	4,353	0.5	901
Other and unknown modes	**1,609**	**4.2**	**87,100**	**6.2**	**(S)**	**(S)**	**71**

See footnotes at end of table.

Table 7.
Shipment Characteristics by Two-Digit Commodity and Mode of Transportation for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

SCTG code, description, and mode of transportation	Value		Tons		Ton-miles[1]		Average miles per shipment
	2007 (million dollars)	Percent	2007 (thousands)	Percent	2007 (millions)	Percent	
SCTG 17, Gasoline and Aviation Turbine Fuel							
Total[2]	**663,194**	**100.0**	**959,161**	**100.0**	**68,647**	**100.0**	**43**
Single modes	**646,529**	**97.5**	**931,216**	**97.1**	**58,139**	**84.7**	**42**
Truck[3]	395,296	59.6	546,768	57.0	24,326	35.4	41
For-hire truck	173,898	26.2	243,825	25.4	11,866	17.3	51
Private truck	221,398	33.4	302,943	31.6	12,460	18.2	35
Rail	4,545	0.7	6,661	0.7	(S)	(S)	231
Water	17,280	2.6	28,669	3.0	6,673	9.7	606
Shallow draft	12,450	1.9	20,065	2.1	1,396	2.0	(S)
Great Lakes	–	–	–	–	–	–	–
Deep draft	4,830	0.7	8,604	0.9	5,277	7.7	785
Air (includes truck and air)	(S)	(S)	(S)	(S)	(S)	(S)	423
Pipeline[4]	229,253	34.6	348,972	36.4	(S)	(S)	(S)
Multiple modes	**15,666**	**2.4**	**26,646**	**2.8**	**10,414**	**15.2**	**216**
Parcel, U.S. Postal Service or courier	–	–	–	–	–	–	–
Truck and rail	387	0.1	510	0.1	163	0.2	210
Truck and water	6,687	1.0	10,382	1.1	5,407	7.9	(S)
Rail and water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Other multiple modes	8,537	1.3	15,582	1.6	4,645	6.8	(S)
Other and unknown modes	**999**	**0.2**	**1,299**	**0.1**	**94**	**0.1**	**52**
SCTG 18, Fuel Oils							
Total[2]	**373,515**	**100.0**	**641,894**	**100.0**	**54,243**	**100.0**	**32**
Single modes	**347,270**	**93.0**	**593,893**	**92.5**	**43,410**	**80.0**	**30**
Truck[3]	207,251	55.5	335,808	52.3	20,313	37.4	27
For-hire truck	71,392	19.1	117,422	18.3	9,583	17.7	72
Private truck	135,859	36.4	218,386	34.0	10,730	19.8	23
Rail	2,466	0.7	4,198	0.7	1,674	3.1	(S)
Water	35,795	9.6	76,268	11.9	11,207	20.7	352
Shallow draft	31,106	8.3	66,106	10.3	3,306	6.1	(S)
Great Lakes	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Deep draft	4,151	1.1	8,945	1.4	7,015	12.9	890
Air (includes truck and air)	(S)	(S)	(S)	(S)	(S)	(S)	484
Pipeline[4]	101,553	27.2	177,436	27.6	(S)	(S)	(S)
Multiple modes	**23,890**	**6.4**	**44,349**	**6.9**	**10,480**	**19.3**	**314**
Parcel, U.S. Postal Service or courier	(S)	(S)	1	(Z)	(S)	(S)	(S)
Truck and rail	(S)	(S)	(S)	(S)	(S)	(S)	860
Truck and water	15,080	4.0	25,265	3.9	5,948	11.0	235
Rail and water	26	(Z)	48	(Z)	12	(Z)	323
Other multiple modes	7,756	2.1	17,622	2.7	3,096	5.7	163
Other and unknown modes	**2,355**	**0.6**	**3,652**	**0.6**	**352**	**0.6**	**100**

See footnotes at end of table.

Table 7.
Shipment Characteristics by Two-Digit Commodity and Mode of Transportation for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

SCTG code, description, and mode of transportation	Value		Tons		Ton-miles[1]		Average miles per shipment
	2007 (million dollars)	Percent	2007 (thousands)	Percent	2007 (millions)	Percent	
SCTG 19, Coal and Petroleum Products, n.e.c.							
Total[2]	**268,163**	**100.0**	**578,188**	**100.0**	**127,190**	**100.0**	**111**
Single modes	**242,716**	**90.5**	**523,577**	**90.6**	**110,526**	**86.9**	**66**
Truck[3]	150,397	56.1	340,058	58.8	33,932	26.7	61
For-hire truck	57,619	21.5	181,197	31.3	22,924	18.0	213
Private truck	92,778	34.6	158,861	27.5	11,008	8.7	39
Rail	37,382	13.9	73,638	12.7	52,611	41.4	731
Water	13,954	5.2	45,209	7.8	18,628	14.6	466
Shallow draft	11,354	4.2	41,307	7.1	(S)	(S)	141
Great Lakes	–	–	–	–	–	–	–
Deep draft	(S)	(S)	3,902	0.7	(S)	(S)	1,138
Air (includes truck and air)	(S)	(S)	(S)	(S)	(S)	(S)	919
Pipeline[4]	40,949	15.3	64,669	11.2	(S)	(S)	(S)
Multiple modes	**21,384**	**8.0**	**36,220**	**6.3**	**16,008**	**12.6**	**550**
Parcel, U.S. Postal Service or courier	1,847	0.7	(S)	(S)	(S)	(S)	547
Truck and rail	3,783	1.4	4,612	0.8	3,310	2.6	745
Truck and water	(S)	(S)	(S)	(S)	(S)	(S)	1,709
Rail and water	5,687	2.1	12,209	2.1	7,191	5.7	923
Other multiple modes	9,588	3.6	18,526	3.2	4,964	3.9	205
Other and unknown modes	**4,062**	**1.5**	**18,391**	**3.2**	**656**	**0.5**	**45**
SCTG 20, Basic Chemicals							
Total[2]	**271,469**	**100.0**	**412,581**	**100.0**	**171,156**	**100.0**	**428**
Single modes	**241,267**	**88.9**	**379,285**	**91.9**	**153,979**	**90.0**	**157**
Truck[3]	138,642	51.1	199,121	48.3	50,120	29.3	129
For-hire truck	90,844	33.5	78,022	18.9	37,487	21.9	524
Private truck	47,798	17.6	121,099	29.4	12,633	7.4	46
Rail	60,469	22.3	104,664	25.4	88,222	51.5	842
Water	15,433	5.7	31,067	7.5	(S)	(S)	(S)
Shallow draft	10,545	3.9	22,869	5.5	5,887	3.4	209
Great Lakes	–	–	–	–	–	–	–
Deep draft	(S)	(S)	8,198	2.0	(S)	(S)	1,255
Air (includes truck and air)	1,304	0.5	67	(Z)	(S)	(S)	761
Pipeline[4]	25,418	9.4	44,366	10.8	(S)	(S)	(S)
Multiple modes	**27,932**	**10.3**	**30,720**	**7.4**	**16,081**	**9.4**	**912**
Parcel, U.S. Postal Service or courier	6,345	2.3	209	0.1	168	0.1	911
Truck and rail	2,787	1.0	3,978	1.0	3,416	2.0	853
Truck and water	1,928	0.7	(S)	(S)	622	0.4	2,365
Rail and water	4,671	1.7	5,352	1.3	3,315	1.9	1,859
Other multiple modes	12,202	4.5	19,714	4.8	8,561	5.0	710
Other and unknown modes	**2,271**	**0.8**	**2,577**	**0.6**	**1,095**	**0.6**	**(S)**

See footnotes at end of table.

Table 7.
Shipment Characteristics by Two-Digit Commodity and Mode of Transportation for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

SCTG code, description, and mode of transportation	Value		Tons		Ton-miles[1]		Average miles per shipment
	2007 (million dollars)	Percent	2007 (thousands)	Percent	2007 (millions)	Percent	
SCTG 21, Pharmaceutical Products							
Total[2]	**771,252**	**100.0**	**19,076**	**100.0**	**8,134**	**100.0**	**635**
Single modes	**519,532**	**67.4**	**14,899**	**78.1**	**6,123**	**75.3**	**203**
Truck[3]	501,445	65.0	14,761	77.4	5,922	72.8	152
For-hire truck	418,942	54.3	7,272	38.1	5,071	62.3	285
Private truck	82,503	10.7	7,489	39.3	851	10.5	75
Rail	(S)	(S)	1	(Z)	1	(Z)	1,084
Water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Shallow draft	–	–	–	–	–	–	–
Great Lakes	–	–	–	–	–	–	–
Deep draft	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Air (includes truck and air)	18,060	2.3	136	0.7	201	2.5	1,156
Pipeline[4]	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Multiple modes	**241,816**	**31.4**	**2,015**	**10.6**	**1,199**	**14.7**	**794**
Parcel, U.S. Postal Service or courier	240,974	31.2	1,853	9.7	919	11.3	795
Truck and rail	679	0.1	152	0.8	263	3.2	(S)
Truck and water	(S)	(S)	8	(Z)	14	0.2	(S)
Rail and water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Other multiple modes	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Other and unknown modes	**9,904**	**1.3**	**2,162**	**11.3**	**(S)**	**(S)**	**477**
SCTG 22, Fertilizers							
Total[2]	**43,613**	**100.0**	**149,600**	**100.0**	**58,970**	**100.0**	**171**
Single modes	**39,296**	**90.1**	**132,253**	**88.4**	**45,108**	**76.5**	**149**
Truck[3]	29,906	68.6	96,852	64.7	19,522	33.1	127
For-hire truck	15,173	34.8	51,546	34.5	16,068	27.2	277
Private truck	14,733	33.8	45,306	30.3	3,453	5.9	51
Rail	7,471	17.1	28,771	19.2	21,433	36.3	758
Water	692	1.6	2,542	1.7	1,878	3.2	(S)
Shallow draft	690	1.6	2,540	1.7	1,877	3.2	696
Great Lakes	–	–	–	–	–	–	–
Deep draft	1	(Z)	2	(Z)	(Z)	(Z)	153
Air (includes truck and air)	(S)	(S)	(S)	(S)	(S)	(S)	2,283
Pipeline[4]	1,224	2.8	4,087	2.7	(S)	(S)	(S)
Multiple modes	**3,978**	**9.1**	**16,283**	**10.9**	**13,737**	**23.3**	**1,107**
Parcel, U.S. Postal Service or courier	9	(Z)	2	(Z)	1	(Z)	1,250
Truck and rail	2,943	6.7	11,218	7.5	9,569	16.2	874
Truck and water	568	1.3	3,123	2.1	2,945	5.0	2,159
Rail and water	–	–	–	–	–	–	–
Other multiple modes	458	1.1	1,940	1.3	1,221	2.1	842
Other and unknown modes	**339**	**0.8**	**1,065**	**0.7**	**(S)**	**(S)**	**(S)**

See footnotes at end of table.

Table 7.
Shipment Characteristics by Two-Digit Commodity and Mode of Transportation for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

SCTG code, description, and mode of transportation	Value		Tons		Ton-miles[1]		Average miles per shipment
	2007 (million dollars)	Percent	2007 (thousands)	Percent	2007 (millions)	Percent	
SCTG 23, Chemical Products and Preparations, n.e.c.							
Total[2]	**331,750**	**100.0**	**123,537**	**100.0**	**58,477**	**100.0**	**638**
Single modes	**288,456**	**87.0**	**115,274**	**93.3**	**50,471**	**86.3**	**323**
Truck[3]	278,678	84.0	108,158	87.6	44,819	76.6	311
For-hire truck	219,208	66.1	79,310	64.2	40,929	70.0	574
Private truck	59,471	17.9	28,847	23.4	3,890	6.7	62
Rail	7,389	2.2	6,321	5.1	5,184	8.9	886
Water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Shallow draft	33	(Z)	21	(Z)	(S)	(S)	(S)
Great Lakes	–	–	–	–	–	–	–
Deep draft	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Air (includes truck and air)	1,696	0.5	(S)	(S)	(S)	(S)	1,409
Pipeline[4]	90	(Z)	343	0.3	(S)	(S)	(S)
Multiple modes	**38,593**	**11.6**	**6,457**	**5.2**	**7,272**	**12.4**	**896**
Parcel, U.S. Postal Service or courier	30,713	9.3	1,424	1.2	890	1.5	893
Truck and rail	5,513	1.7	3,660	3.0	5,130	8.8	1,396
Truck and water	1,358	0.4	232	0.2	603	1.0	2,301
Rail and water	(S)	(S)	(S)	(S)	(S)	(S)	3,975
Other multiple modes	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Other and unknown modes	**4,700**	**1.4**	**1,806**	**1.5**	**733**	**1.3**	**99**
SCTG 24, Plastics and Rubber							
Total[2]	**489,435**	**100.0**	**186,392**	**100.0**	**104,622**	**100.0**	**550**
Single modes	**425,849**	**87.0**	**167,811**	**90.0**	**86,803**	**83.0**	**262**
Truck[3]	377,889	77.2	129,534	69.5	60,533	57.9	250
For-hire truck	256,864	52.5	90,494	48.6	54,726	52.3	634
Private truck	121,025	24.7	39,040	20.9	5,807	5.6	60
Rail	45,425	9.3	38,065	20.4	26,075	24.9	715
Water	(S)	(S)	(S)	(S)	11	(Z)	960
Shallow draft	(S)	(S)	(S)	(S)	9	(Z)	(S)
Great Lakes	–	–	–	–	–	–	–
Deep draft	6	(Z)	2	(Z)	(S)	(S)	1,440
Air (includes truck and air)	2,397	0.5	135	0.1	183	0.2	1,251
Pipeline[4]	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Multiple modes	**56,281**	**11.5**	**14,570**	**7.8**	**16,232**	**15.5**	**888**
Parcel, U.S. Postal Service or courier	38,823	7.9	2,074	1.1	1,455	1.4	887
Truck and rail	15,666	3.2	11,741	6.3	13,242	12.7	1,399
Truck and water	1,552	0.3	555	0.3	991	0.9	1,618
Rail and water	18	(Z)	15	(Z)	73	0.1	4,491
Other multiple modes	222	(Z)	184	0.1	(S)	(S)	3,062
Other and unknown modes	**7,304**	**1.5**	**4,010**	**2.2**	**1,588**	**1.5**	**100**

See footnotes at end of table.

Table 7.
Shipment Characteristics by Two-Digit Commodity and Mode of Transportation for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

SCTG code, description, and mode of transportation	Value		Tons		Ton-miles[1]		Average miles per shipment
	2007 (million dollars)	Percent	2007 (thousands)	Percent	2007 (millions)	Percent	
SCTG 25, Logs and Other Wood in the Rough							
Total[2]	**7,086**	**100.0**	**107,869**	**100.0**	**11,164**	**100.0**	**110**
Single modes	**6,592**	**93.0**	**105,876**	**98.2**	**9,638**	**86.3**	**97**
Truck[3]	5,969	84.2	102,495	95.0	7,881	70.6	90
For-hire truck	3,828	54.0	53,023	49.2	4,801	43.0	127
Private truck	2,141	30.2	49,472	45.9	3,080	27.6	62
Rail	623	8.8	3,381	3.1	1,757	15.7	571
Water	–	–	–	–	–	–	–
Shallow draft	–	–	–	–	–	–	–
Great Lakes	–	–	–	–	–	–	–
Deep draft	–	–	–	–	–	–	–
Air (includes truck and air)	–	–	–	–	–	–	–
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**441**	**6.2**	**1,836**	**1.7**	**1,502**	**13.5**	**1,003**
Parcel, U.S. Postal Service or courier	(S)	(S)	(S)	(S)	(Z)	(Z)	(S)
Truck and rail	392	5.5	1,705	1.6	1,195	10.7	835
Truck and water	45	0.6	125	0.1	(S)	(S)	2,553
Rail and water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Other multiple modes	–	–	–	–	–	–	–
Other and unknown modes	**53**	**0.7**	**157**	**0.1**	**24**	**0.2**	**(S)**
SCTG 26, Wood Products							
Total[2]	**183,868**	**100.0**	**323,773**	**100.0**	**100,787**	**100.0**	**328**
Single modes	**174,476**	**94.9**	**308,887**	**95.4**	**84,814**	**84.2**	**198**
Truck[3]	168,913	91.9	292,597	90.4	64,616	64.1	161
For-hire truck	75,303	41.0	146,835	45.4	50,476	50.1	468
Private truck	93,610	50.9	145,761	45.0	14,141	14.0	73
Rail	5,338	2.9	14,843	4.6	19,998	19.8	1,236
Water	127	0.1	(S)	(S)	(S)	(S)	(S)
Shallow draft	(S)	(S)	(S)	(S)	(S)	(S)	107
Great Lakes	–	–	–	–	–	–	–
Deep draft	125	0.1	(S)	(S)	(S)	(S)	(S)
Air (includes truck and air)	98	0.1	29	(Z)	58	0.1	3,218
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**6,203**	**3.4**	**10,273**	**3.2**	**14,648**	**14.5**	**996**
Parcel, U.S. Postal Service or courier	2,432	1.3	218	0.1	200	0.2	987
Truck and rail	3,263	1.8	8,014	2.5	12,539	12.4	1,331
Truck and water	484	0.3	(S)	(S)	1,846	1.8	1,678
Rail and water	9	(Z)	7	(Z)	25	(Z)	3,511
Other multiple modes	15	(Z)	14	(Z)	(S)	(S)	3,115
Other and unknown modes	**3,189**	**1.7**	**4,613**	**1.4**	**1,325**	**1.3**	**71**

See footnotes at end of table.

Table 7.
Shipment Characteristics by Two-Digit Commodity and Mode of Transportation for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

SCTG code, description, and mode of transportation	Value		Tons		Ton-miles[1]		Average miles per shipment
	2007 (million dollars)	Percent	2007 (thousands)	Percent	2007 (millions)	Percent	
SCTG 27, Pulp, Newsprint, Paper, and Paperboard							
Total[2]	**126,857**	**100.0**	**145,380**	**100.0**	**82,098**	**100.0**	**297**
Single modes	**114,491**	**90.3**	**130,935**	**90.1**	**67,117**	**81.8**	**182**
Truck[3]	98,206	77.4	102,787	70.7	43,377	52.8	166
For-hire truck	69,236	54.6	78,770	54.2	40,520	49.4	433
Private truck	28,970	22.8	24,017	16.5	2,857	3.5	56
Rail	16,134	12.7	28,000	19.3	23,636	28.8	837
Water	93	0.1	140	0.1	(S)	(S)	(S)
Shallow draft	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Great Lakes	–	–	–	–	–	–	–
Deep draft	80	0.1	122	0.1	(S)	(S)	(S)
Air (includes truck and air)	58	(Z)	9	(Z)	11	(Z)	2,828
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**11,193**	**8.8**	**13,463**	**9.3**	**14,474**	**17.6**	**731**
Parcel, U.S. Postal Service or courier	1,742	1.4	244	0.2	97	0.1	721
Truck and rail	8,924	7.0	12,493	8.6	13,873	16.9	998
Truck and water	338	0.3	379	0.3	355	0.4	1,047
Rail and water	22	(Z)	(S)	(S)	29	(Z)	(S)
Other multiple modes	168	0.1	(S)	(S)	120	0.1	1,512
Other and unknown modes	**1,173**	**0.9**	**981**	**0.7**	**507**	**0.6**	**103**
SCTG 28, Paper or Paperboard Articles							
Total[2]	**118,070**	**100.0**	**82,233**	**100.0**	**28,977**	**100.0**	**512**
Single modes	**108,924**	**92.3**	**79,199**	**96.3**	**26,158**	**90.3**	**150**
Truck[3]	107,730	91.2	77,319	94.0	24,530	84.7	148
For-hire truck	68,745	58.2	46,693	56.8	21,267	73.4	402
Private truck	38,986	33.0	30,626	37.2	3,263	11.3	51
Rail	691	0.6	1,475	1.8	1,512	5.2	1,149
Water	406	0.3	395	0.5	(S)	(S)	(S)
Shallow draft	345	0.3	356	0.4	24	0.1	68
Great Lakes	–	–	–	–	–	–	–
Deep draft	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Air (includes truck and air)	97	0.1	10	(Z)	11	(Z)	868
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**7,791**	**6.6**	**2,205**	**2.7**	**2,452**	**8.5**	**1,003**
Parcel, U.S. Postal Service or courier	5,830	4.9	655	0.8	456	1.6	1,002
Truck and rail	1,739	1.5	1,423	1.7	1,797	6.2	1,539
Truck and water	220	0.2	125	0.2	194	0.7	1,879
Rail and water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Other multiple modes	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Other and unknown modes	**1,355**	**1.1**	**829**	**1.0**	**367**	**1.3**	**(S)**

See footnotes at end of table.

Table 7.
Shipment Characteristics by Two-Digit Commodity and Mode of Transportation for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

SCTG code, description, and mode of transportation	Value		Tons		Ton-miles[1]		Average miles per shipment
	2007 (million dollars)	Percent	2007 (thousands)	Percent	2007 (millions)	Percent	
SCTG 29, Printed Products							
Total[2]	**190,389**	**100.0**	**51,435**	**100.0**	**22,363**	**100.0**	**579**
Single modes	**124,218**	**65.2**	**45,987**	**89.4**	**18,329**	**82.0**	**115**
Truck[3]	122,579	64.4	45,474	88.4	17,524	78.4	99
For-hire truck	81,299	42.7	30,444	59.2	16,130	72.1	259
Private truck	41,279	21.7	15,030	29.2	1,395	6.2	25
Rail	338	0.2	424	0.8	681	3.0	1,037
Water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Shallow draft	–	–	–	–	–	–	–
Great Lakes	–	–	–	–	–	–	–
Deep draft	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Air (includes truck and air)	1,291	0.7	86	0.2	111	0.5	1,375
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**59,122**	**31.1**	**3,042**	**5.9**	**2,669**	**11.9**	**837**
Parcel, U.S. Postal Service or courier	58,286	30.6	2,767	5.4	2,143	9.6	837
Truck and rail	664	0.3	252	0.5	436	1.9	858
Truck and water	156	0.1	20	(Z)	(S)	(S)	4,273
Rail and water	–	–	–	–	–	–	–
Other multiple modes	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Other and unknown modes	**7,049**	**3.7**	**2,405**	**4.7**	**(S)**	**(S)**	**376**
SCTG 30, Textiles, Leather, and Articles of Textiles or Leather							
Total[2]	**473,610**	**100.0**	**46,728**	**100.0**	**30,643**	**100.0**	**1,101**
Single modes	**339,048**	**71.6**	**41,084**	**87.9**	**25,510**	**83.2**	**889**
Truck[3]	327,798	69.2	40,089	85.8	23,369	76.3	845
For-hire truck	244,202	51.6	24,088	51.5	21,299	69.5	1,169
Private truck	83,597	17.7	16,001	34.2	2,070	6.8	198
Rail	(S)	(S)	(S)	(S)	(S)	(S)	2,001
Water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Shallow draft	(S)	(S)	(S)	(S)	(S)	(S)	15
Great Lakes	–	–	–	–	–	–	–
Deep draft	(S)	(S)	3	(Z)	(S)	(S)	(S)
Air (includes truck and air)	3,943	0.8	111	0.2	210	0.7	1,449
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**120,326**	**25.4**	**4,114**	**8.8**	**4,529**	**14.8**	**1,154**
Parcel, U.S. Postal Service or courier	116,240	24.5	3,432	7.3	3,399	11.1	1,154
Truck and rail	2,428	0.5	425	0.9	728	2.4	1,156
Truck and water	1,621	0.3	230	0.5	395	1.3	1,872
Rail and water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Other multiple modes	(S)	(S)	(S)	(S)	7	(Z)	(S)
Other and unknown modes	**14,237**	**3.0**	**1,530**	**3.3**	**605**	**2.0**	**275**

See footnotes at end of table.

Table 7.
Shipment Characteristics by Two-Digit Commodity and Mode of Transportation for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

SCTG code, description, and mode of transportation	Value		Tons		Ton-miles[1]		Average miles per shipment
	2007 (million dollars)	Percent	2007 (thousands)	Percent	2007 (millions)	Percent	
SCTG 31, Nonmetallic Mineral Products							
Total[2]	**196,993**	**100.0**	**1,156,790**	**100.0**	**115,289**	**100.0**	**447**
Single modes	**179,892**	**91.3**	**1,122,305**	**97.0**	**103,040**	**89.4**	**130**
Truck[3]	174,881	88.8	1,093,616	94.5	88,593	76.8	126
For-hire truck	82,099	41.7	283,433	24.5	60,265	52.3	467
Private truck	92,783	47.1	810,182	70.0	28,328	24.6	45
Rail	2,599	1.3	22,280	1.9	10,947	9.5	414
Water	630	0.3	6,218	0.5	3,363	2.9	1,455
Shallow draft	372	0.2	4,464	0.4	2,432	2.1	526
Great Lakes	136	0.1	1,393	0.1	474	0.4	361
Deep draft	121	0.1	362	(Z)	457	0.4	1,665
Air (includes truck and air)	1,777	0.9	(S)	(S)	136	0.1	1,373
Pipeline[4]	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Multiple modes	**12,701**	**6.4**	**18,173**	**1.6**	**11,009**	**9.5**	**1,201**
Parcel, U.S. Postal Service or courier	9,702	4.9	526	(Z)	555	0.5	1,203
Truck and rail	2,043	1.0	13,075	1.1	8,078	7.0	657
Truck and water	(S)	(S)	1,422	0.1	1,041	0.9	2,107
Rail and water	17	(Z)	(S)	(S)	(S)	(S)	(S)
Other multiple modes	461	0.2	3,116	0.3	1,275	1.1	1,549
Other and unknown modes	**4,400**	**2.2**	**16,312**	**1.4**	**1,239**	**1.1**	**97**
SCTG 32, Base Metal in Primary or Semifinished Forms and in Finished Basic Shapes							
Total[2]	**488,410**	**100.0**	**364,940**	**100.0**	**129,224**	**100.0**	**360**
Single modes	**446,430**	**91.4**	**336,814**	**92.3**	**107,175**	**82.9**	**191**
Truck[3]	397,822	81.5	286,333	78.5	76,479	59.2	180
For-hire truck	267,564	54.8	188,594	51.7	65,804	50.9	449
Private truck	130,259	26.7	97,739	26.8	10,674	8.3	65
Rail	45,499	9.3	47,693	13.1	28,617	22.1	562
Water	1,592	0.3	2,638	0.7	1,971	1.5	833
Shallow draft	1,574	0.3	2,622	0.7	1,933	1.5	735
Great Lakes	–	–	–	–	–	–	–
Deep draft	17	(Z)	(S)	(S)	(S)	(S)	1,166
Air (includes truck and air)	1,517	0.3	(S)	(S)	(S)	(S)	1,200
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**34,609**	**7.1**	**23,584**	**6.5**	**20,932**	**16.2**	**880**
Parcel, U.S. Postal Service or courier	14,744	3.0	623	0.2	361	0.3	880
Truck and rail	16,457	3.4	17,744	4.9	14,045	10.9	686
Truck and water	2,896	0.6	4,495	1.2	(S)	(S)	1,666
Rail and water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Other multiple modes	504	0.1	713	0.2	689	0.5	1,026
Other and unknown modes	**7,370**	**1.5**	**4,542**	**1.2**	**1,117**	**0.9**	**100**

See footnotes at end of table.

Table 7.
Shipment Characteristics by Two-Digit Commodity and Mode of Transportation for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

SCTG code, description, and mode of transportation	Value		Tons		Ton-miles[1]		Average miles per shipment
	2007 (million dollars)	Percent	2007 (thousands)	Percent	2007 (millions)	Percent	
SCTG 33, Articles of Base Metal							
Total[2]	**388,292**	**100.0**	**131,924**	**100.0**	**52,343**	**100.0**	**561**
Single modes	**321,610**	**82.8**	**124,656**	**94.5**	**46,072**	**88.0**	**278**
Truck[3]	314,316	80.9	118,805	90.1	41,434	79.2	264
For-hire truck	205,315	52.9	74,132	56.2	36,012	68.8	673
Private truck	109,002	28.1	44,673	33.9	5,423	10.4	54
Rail	4,704	1.2	5,698	4.3	4,451	8.5	627
Water	(S)	(S)	(S)	(S)	(S)	(S)	1,318
Shallow draft	(S)	(S)	49	(Z)	(S)	(S)	(S)
Great Lakes	–	–	–	–	–	–	–
Deep draft	(S)	(S)	(S)	(S)	(S)	(S)	1,350
Air (includes truck and air)	2,408	0.6	82	0.1	135	0.3	1,267
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**57,442**	**14.8**	**5,187**	**3.9**	**5,679**	**10.8**	**851**
Parcel, U.S. Postal Service or courier	52,888	13.6	1,728	1.3	1,251	2.4	850
Truck and rail	3,048	0.8	2,328	1.8	3,402	6.5	871
Truck and water	1,286	0.3	1,073	0.8	867	1.7	2,215
Rail and water	121	(Z)	(S)	(S)	(S)	(S)	704
Other multiple modes	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Other and unknown modes	**9,240**	**2.4**	**2,080**	**1.6**	**592**	**1.1**	**65**
SCTG 34, Machinery							
Total[2]	**628,267**	**100.0**	**66,728**	**100.0**	**36,760**	**100.0**	**498**
Single modes	**495,138**	**78.8**	**60,465**	**90.6**	**31,629**	**86.0**	**281**
Truck[3]	474,659	75.6	59,517	89.2	30,785	83.7	250
For-hire truck	333,903	53.1	39,245	58.8	27,656	75.2	612
Private truck	140,757	22.4	20,273	30.4	3,130	8.5	58
Rail	5,619	0.9	711	1.1	538	1.5	(S)
Water	(S)	(S)	(S)	(S)	(S)	(S)	1,287
Shallow draft	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Great Lakes	–	–	–	–	–	–	–
Deep draft	21	(Z)	2	(Z)	1	(Z)	1,377
Air (includes truck and air)	14,617	2.3	223	0.3	303	0.8	1,224
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**113,986**	**18.1**	**3,971**	**6.0**	**4,353**	**11.8**	**737**
Parcel, U.S. Postal Service or courier	97,390	15.5	1,867	2.8	1,306	3.6	735
Truck and rail	12,722	2.0	1,792	2.7	2,284	6.2	1,020
Truck and water	3,682	0.6	299	0.4	723	2.0	3,058
Rail and water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Other multiple modes	(S)	(S)	10	(Z)	(S)	(S)	3,545
Other and unknown modes	**19,142**	**3.0**	**2,292**	**3.4**	**778**	**2.1**	**69**

See footnotes at end of table.

Table 7.
Shipment Characteristics by Two-Digit Commodity and Mode of Transportation for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

SCTG code, description, and mode of transportation	Value		Tons		Ton-miles[1]		Average miles per shipment
	2007 (million dollars)	Percent	2007 (thousands)	Percent	2007 (millions)	Percent	
SCTG 35, Electronic and Other Electrical Equipment and Components and Office Equipment							
Total[2]	**1,046,495**	**100.0**	**47,528**	**100.0**	**31,645**	**100.0**	**815**
Single modes	**624,157**	**59.6**	**39,144**	**82.4**	**24,849**	**78.5**	**395**
Truck[3]	528,267	50.5	37,905	79.8	22,843	72.2	308
For-hire truck	386,433	36.9	25,818	54.3	21,499	67.9	903
Private truck	141,833	13.6	12,087	25.4	1,343	4.2	42
Rail	(S)	(S)	726	1.5	1,373	4.3	803
Water	(S)	(S)	10	(Z)	(S)	(S)	(S)
Shallow draft	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Great Lakes	–	–	–	–	–	–	–
Deep draft	(S)	(S)	(S)	(S)	(S)	(S)	341
Air (includes truck and air)	89,321	8.5	503	1.1	626	2.0	1,343
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**389,383**	**37.2**	**4,736**	**10.0**	**5,573**	**17.6**	**1,069**
Parcel, U.S. Postal Service or courier	382,922	36.6	4,137	8.7	4,120	13.0	1,069
Truck and rail	4,272	0.4	376	0.8	657	2.1	1,618
Truck and water	2,176	0.2	222	0.5	794	2.5	1,131
Rail and water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Other multiple modes	(S)	(S)	(Z)	(Z)	(S)	(S)	(S)
Other and unknown modes	**32,954**	**3.1**	**3,648**	**7.7**	**1,223**	**3.9**	**62**
SCTG 36, Motorized and Other Vehicles (Including Parts)							
Total[2]	**907,288**	**100.0**	**133,126**	**100.0**	**64,776**	**100.0**	**489**
Single modes	**726,783**	**80.1**	**113,537**	**85.3**	**51,315**	**79.2**	**320**
Truck[3]	651,671	71.8	106,344	79.9	43,283	66.8	290
For-hire truck	452,350	49.9	69,434	52.2	37,479	57.9	741
Private truck	199,321	22.0	36,910	27.7	5,804	9.0	51
Rail	69,135	7.6	6,969	5.2	7,762	12.0	1,189
Water	(S)	(S)	(S)	(S)	(S)	(S)	1,333
Shallow draft	(S)	(S)	(S)	(S)	(S)	(S)	52
Great Lakes	–	–	–	–	–	–	–
Deep draft	(S)	(S)	(S)	(S)	(S)	(S)	1,364
Air (includes truck and air)	5,867	0.6	211	0.2	240	0.4	1,170
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**92,153**	**10.2**	**8,264**	**6.2**	**9,696**	**15.0**	**863**
Parcel, U.S. Postal Service or courier	41,269	4.5	1,831	1.4	1,393	2.2	858
Truck and rail	48,804	5.4	6,145	4.6	7,699	11.9	1,301
Truck and water	1,615	0.2	225	0.2	387	0.6	2,681
Rail and water	102	(Z)	10	(Z)	66	0.1	8,012
Other multiple modes	362	(Z)	(S)	(S)	151	0.2	3,387
Other and unknown modes	**88,352**	**9.7**	**11,325**	**8.5**	**3,765**	**5.8**	**93**

See footnotes at end of table.

Table 7.
Shipment Characteristics by Two-Digit Commodity and Mode of Transportation for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

SCTG code, description, and mode of transportation	Value		Tons		Ton-miles[1]		Average miles per shipment
	2007 (million dollars)	Percent	2007 (thousands)	Percent	2007 (millions)	Percent	
SCTG 37, Transportation Equipment, n.e.c.							
Total[2]	**173,883**	**100.0**	**6,815**	**100.0**	**4,471**	**100.0**	**908**
Single modes	**120,565**	**69.3**	**6,206**	**91.1**	**3,892**	**87.1**	**628**
Truck[3]	59,445	34.2	4,658	68.4	2,484	55.5	402
For-hire truck	44,275	25.5	3,813	56.0	2,322	51.9	906
Private truck	15,170	8.7	845	12.4	161	3.6	77
Rail	1,424	0.8	1,018	14.9	868	19.4	848
Water	3,129	1.8	392	5.7	384	8.6	(S)
Shallow draft	2,563	1.5	390	5.7	383	8.6	(S)
Great Lakes	–	–	–	–	–	–	–
Deep draft	566	0.3	(S)	(S)	(S)	(S)	669
Air (includes truck and air)	56,567	32.5	138	2.0	158	3.5	1,309
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**50,848**	**29.2**	**472**	**6.9**	**476**	**10.7**	**1,046**
Parcel, U.S. Postal Service or courier	47,707	27.4	125	1.8	120	2.7	1,048
Truck and rail	(S)	(S)	311	4.6	298	6.7	844
Truck and water	515	0.3	35	0.5	(S)	(S)	1,898
Rail and water	–	–	–	–	–	–	–
Other multiple modes	47	(Z)	2	(Z)	(S)	(S)	1,315
Other and unknown modes	**2,470**	**1.4**	**137**	**2.0**	**102**	**2.3**	**633**
SCTG 38, Precision Instruments and Apparatus							
Total[2]	**304,620**	**100.0**	**5,668**	**100.0**	**3,513**	**100.0**	**1,008**
Single modes	**140,769**	**46.2**	**3,904**	**68.9**	**2,048**	**58.3**	**675**
Truck[3]	107,971	35.4	3,740	66.0	1,800	51.2	397
For-hire truck	74,621	24.5	2,238	39.5	1,603	45.6	733
Private truck	33,350	10.9	(S)	(S)	(S)	(S)	60
Rail	–	–	–	–	–	–	–
Water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Shallow draft	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Great Lakes	–	–	–	–	–	–	–
Deep draft	–	–	–	–	–	–	–
Air (includes truck and air)	32,797	10.8	164	2.9	248	7.1	1,180
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**158,483**	**52.0**	**1,291**	**22.8**	**1,189**	**33.8**	**1,062**
Parcel, U.S. Postal Service or courier	157,222	51.6	1,255	22.2	1,118	31.8	1,062
Truck and rail	224	0.1	6	0.1	7	0.2	1,530
Truck and water	1,036	0.3	30	0.5	63	1.8	1,938
Rail and water	–	–	–	–	–	–	–
Other multiple modes	–	–	–	–	–	–	–
Other and unknown modes	**5,369**	**1.8**	**(S)**	**(S)**	**(S)**	**(S)**	**432**

See footnotes at end of table.

Table 7.
Shipment Characteristics by Two-Digit Commodity and Mode of Transportation for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

SCTG code, description, and mode of transportation	Value		Tons		Ton-miles[1]		Average miles per shipment
	2007 (million dollars)	Percent	2007 (thousands)	Percent	2007 (millions)	Percent	
SCTG 39, Furniture, Mattresses and Mattress Supports, Lamps. Lighting Fittings, and Illuminated Signs							
Total[2]	**152,286**	**100.0**	**26,633**	**100.0**	**15,024**	**100.0**	**766**
Single modes	**135,980**	**89.3**	**24,759**	**93.0**	**12,833**	**85.4**	**447**
Truck[3]	135,437	88.9	24,678	92.7	12,663	84.3	442
For-hire truck	83,217	54.6	15,011	56.4	11,151	74.2	727
Private truck	52,220	34.3	9,668	36.3	1,512	10.1	111
Rail	229	0.2	71	0.3	156	1.0	1,325
Water	(S)	(S)	(S)	(S)	(S)	(S)	226
Shallow draft	–	–	–	–	–	–	–
Great Lakes	–	–	–	–	–	–	–
Deep draft	(S)	(S)	(S)	(S)	(S)	(S)	226
Air (includes truck and air)	311	0.2	9	(Z)	14	0.1	1,435
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**13,537**	**8.9**	**1,157**	**4.3**	**1,416**	**9.4**	**1,085**
Parcel, U.S. Postal Service or courier	11,473	7.5	922	3.5	980	6.5	1,091
Truck and rail	1,885	1.2	184	0.7	265	1.8	(S)
Truck and water	177	0.1	51	0.2	166	1.1	2,985
Rail and water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Other multiple modes	–	–	–	–	–	–	–
Other and unknown modes	**2,769**	**1.8**	**717**	**2.7**	**(S)**	**(S)**	**133**
SCTG 40, Miscellaneous Manufactured Products							
Total[2]	**490,305**	**100.0**	**91,844**	**100.0**	**41,995**	**100.0**	**1,012**
Single modes	**295,796**	**60.3**	**83,913**	**91.4**	**34,453**	**82.0**	**701**
Truck[3]	282,021	57.5	80,402	87.5	33,305	79.3	625
For-hire truck	199,996	40.8	49,844	54.3	29,707	70.7	1,002
Private truck	82,026	16.7	30,558	33.3	3,598	8.6	76
Rail	602	0.1	557	0.6	591	1.4	1,124
Water	12	(Z)	(S)	(S)	(S)	(S)	(S)
Shallow draft	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Great Lakes	–	–	–	–	–	–	–
Deep draft	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Air (includes truck and air)	13,074	2.7	253	0.3	406	1.0	1,432
Pipeline[4]	86	(Z)	2,698	2.9	(S)	(S)	(S)
Multiple modes	**182,867**	**37.3**	**5,471**	**6.0**	**6,116**	**14.6**	**1,071**
Parcel, U.S. Postal Service or courier	179,058	36.5	4,355	4.7	4,360	10.4	1,071
Truck and rail	2,297	0.5	716	0.8	1,161	2.8	1,158
Truck and water	1,415	0.3	(S)	(S)	566	1.3	1,342
Rail and water	77	(Z)	7	(Z)	21	(Z)	2,703
Other multiple modes	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Other and unknown modes	**11,642**	**2.4**	**2,460**	**2.7**	**1,426**	**3.4**	**196**

See footnotes at end of table.

Table 7.
Shipment Characteristics by Two-Digit Commodity and Mode of Transportation for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

SCTG code, description, and mode of transportation	Value		Tons		Ton-miles[1]		
	2007 (million dollars)	Percent	2007 (thousands)	Percent	2007 (millions)	Percent	Average miles per shipment
SCTG 41, Waste and Scrap							
Total[2]	**82,243**	**100.0**	**305,878**	**100.0**	**67,023**	**100.0**	**152**
Single modes	**74,283**	**90.3**	**283,682**	**92.7**	**46,923**	**70.0**	**134**
Truck[3]	64,927	78.9	248,961	81.4	33,791	50.4	125
For-hire truck	39,149	47.6	99,666	32.6	25,089	37.4	254
Private truck	25,778	31.3	149,295	48.8	8,702	13.0	51
Rail	8,236	10.0	31,124	10.2	11,278	16.8	366
Water	1,110	1.3	3,596	1.2	1,854	2.8	1,168
Shallow draft	905	1.1	3,492	1.1	1,709	2.5	512
Great Lakes	–	–	–	–	–	–	–
Deep draft	(S)	(S)	(S)	(S)	(S)	(S)	1,540
Air (includes truck and air)	(S)	(S)	(S)	(S)	(S)	(S)	229
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**6,751**	**8.2**	**18,106**	**5.9**	**19,604**	**29.3**	**1,107**
Parcel, U.S. Postal Service or courier	(S)	(S)	(S)	(S)	(S)	(S)	721
Truck and rail	4,010	4.9	12,044	3.9	9,415	14.0	986
Truck and water	2,342	2.8	(S)	(S)	(S)	(S)	1,568
Rail and water	50	0.1	(S)	(S)	(S)	(S)	(S)
Other multiple modes	338	0.4	(S)	(S)	400	0.6	1,820
Other and unknown modes	**1,209**	**1.5**	**4,089**	**1.3**	**(S)**	**(S)**	**142**
SCTG 43, Mixed Freight							
Total[2]	**932,353**	**100.0**	**300,922**	**100.0**	**56,137**	**100.0**	**369**
Single modes	**870,498**	**93.4**	**293,901**	**97.7**	**51,272**	**91.3**	**165**
Truck[3]	866,591	92.9	292,751	97.3	49,838	88.8	160
For-hire truck	254,133	27.3	74,386	24.7	25,550	45.5	610
Private truck	612,458	65.7	218,365	72.6	24,288	43.3	86
Rail	1,860	0.2	971	0.3	1,160	2.1	1,182
Water	318	(Z)	81	(Z)	(S)	(S)	728
Shallow draft	22	(Z)	7	(Z)	(Z)	(Z)	15
Great Lakes	–	–	–	–	–	–	–
Deep draft	(S)	(S)	74	(Z)	(S)	(S)	1,091
Air (includes truck and air)	1,723	0.2	97	(Z)	133	0.2	1,266
Pipeline[4]	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Multiple modes	**51,509**	**5.5**	**4,091**	**1.4**	**4,271**	**7.6**	**760**
Parcel, U.S. Postal Service or courier	45,205	4.8	2,253	0.7	1,505	2.7	758
Truck and rail	4,808	0.5	1,457	0.5	1,919	3.4	1,231
Truck and water	1,115	0.1	281	0.1	601	1.1	1,802
Rail and water	218	(Z)	58	(Z)	132	0.2	1,972
Other multiple modes	161	(Z)	42	(Z)	114	0.2	2,789
Other and unknown modes	**10,347**	**1.1**	**2,930**	**1.0**	**594**	**1.1**	**72**

See footnotes at end of table.

Table 7.
Shipment Characteristics by Two-Digit Commodity and Mode of Transportation for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

SCTG code, description, and mode of transportation	Value		Tons		Ton-miles[1]		Average miles per shipment
	2007 (million dollars)	Percent	2007 (thousands)	Percent	2007 (millions)	Percent	
Commodity Unknown							
Total[2]	**1,453**	**100.0**	**(S)**	**100.0**	**145**	**100.0**	**485**
Single modes	**1,045**	**71.9**	**540**	**92.6**	**118**	**81.3**	**91**
Truck[3]	968	66.6	457	78.5	108	74.1	73
For-hire truck	316	21.7	167	28.6	87	60.2	(S)
Private truck	652	44.9	291	49.9	20	13.9	48
Rail	(S)	(S)	(S)	(S)	(S)	(S)	128
Water	–	–	–	–	–	–	–
Shallow draft	–	–	–	–	–	–	–
Great Lakes	–	–	–	–	–	–	–
Deep draft	–	–	–	–	–	–	–
Air (includes truck and air)	(S)	(S)	(S)	(S)	(S)	(S)	2,079
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**315**	**21.7**	**(S)**	**(S)**	**(S)**	**(S)**	**1,065**
Parcel, U.S. Postal Service or courier	314	21.6	8	1.4	7	4.6	1,065
Truck and rail	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Truck and water	–	–	–	–	–	–	–
Rail and water	–	–	–	–	–	–	–
Other multiple modes	–	–	–	–	–	–	–
Other and unknown modes	**(S)**	**(S)**	**18**	**3.1**	**(S)**	**(S)**	**(S)**

– Estimate equal to zero.
(S) Estimate did not meet publication standards.
(Z) Estimate is between zero and half the unit shown, thus rounded to zero.

[1] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See "Mileage Calculations" section for additional information.
[2] Estimates exclude shipments of crude petroleum (SCTG 16).
[3] "Truck" as a single mode includes shipments that were made by only private truck, only for-hire truck, or a combination of private truck and for-hire truck.
[4] Estimates for pipeline exclude shipments of crude petroleum (SCTG 16).

Note: Value-of-shipments estimates have not been adjusted for price changes. Appendix B tables provide estimated measures of sampling variability. The Introduction and appendixes give 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/cfs>.

Table 8.

Shipment Characteristics by Two-Digit Commodity and Distance Shipped for the United States: 2007

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

SCTG code, description, and distance shipped[1] (based on Great Circle Distance)	Value (million dollars)	Tons (thousands)	Ton-miles[2] (millions)
Total[3]	**11,684,872**	**12,543,425**	**3,344,658**
Less than 50 miles	3,851,545	6,948,743	156,161
50 to 99 miles	1,074,137	1,255,189	122,646
100 to 249 miles	1,777,031	1,585,315	374,666
250 to 499 miles	1,606,034	1,064,455	529,308
500 to 749 miles	1,019,498	618,981	533,163
750 to 999 miles	720,623	517,669	616,594
1,000 to 1,499 miles	730,366	397,272	624,921
1,500 to 1,999 miles	494,992	95,511	207,175
2,000 miles or more	410,646	60,290	180,023
SCTG 01, Live animals and live fish	**10,833**	**6,150**	**3,973**
Less than 50 miles	1,572	967	36
50 to 99 miles	980	774	78
100 to 249 miles	1,819	1,247	284
250 to 499 miles	924	610	320
500 to 749 miles	1,050	649	504
750 to 999 miles	1,323	684	772
1,000 to 1,499 miles	(S)	(S)	(S)
1,500 to 1,999 miles	69	(S)	(S)
2,000 miles or more	(S)	(S)	(S)
SCTG 02, Cereal grains	**84,851**	**514,151**	**203,446**
Less than 50 miles	39,983	253,003	6,449
50 to 99 miles	6,746	42,942	4,089
100 to 249 miles	8,181	43,194	11,471
250 to 499 miles	9,001	52,847	30,781
500 to 749 miles	8,676	49,101	43,344
750 to 999 miles	5,605	35,224	45,225
1,000 to 1,499 miles	5,795	34,756	59,100
1,500 to 1,999 miles	(S)	(S)	(S)
2,000 miles or more	55	68	180
SCTG 03, Other agricultural products	**143,637**	**211,890**	**88,207**
Less than 50 miles	55,382	94,712	2,726
50 to 99 miles	15,389	27,284	2,561
100 to 249 miles	21,287	25,038	5,826
250 to 499 miles	14,356	21,673	11,942
500 to 749 miles	9,211	11,350	10,417
750 to 999 miles	7,344	11,722	14,361
1,000 to 1,499 miles	7,974	11,460	18,574
1,500 to 1,999 miles	5,448	4,244	9,215
2,000 miles or more	7,245	4,407	12,585
SCTG 04, Animal feed and products of animal origin, n.e.c.	**90,472**	**246,436**	**76,188**
Less than 50 miles	28,918	110,152	3,410
50 to 99 miles	10,629	33,869	3,360
100 to 249 miles	17,724	42,745	9,371
250 to 499 miles	12,970	24,030	12,264
500 to 749 miles	6,846	16,401	14,577
750 to 999 miles	3,114	6,099	7,033
1,000 to 1,499 miles	4,304	8,451	14,032
1,500 to 1,999 miles	1,673	2,538	5,441
2,000 miles or more	(S)	(S)	(S)

See footnotes at end of table.

Table 8.
Shipment Characteristics by Two-Digit Commodity and Distance Shipped for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

SCTG code, description, and distance shipped[1] (based on Great Circle Distance)	Value (million dollars)	Tons (thousands)	Ton-miles[2] (millions)
SCTG 05, Meat, fish, seafood, and their preparations	**277,251**	**98,413**	**48,549**
Less than 50 miles	83,241	27,679	752
50 to 99 miles	27,642	10,996	1,058
100 to 249 miles	44,821	17,870	3,940
250 to 499 miles	41,511	15,623	7,284
500 to 749 miles	27,977	9,902	7,683
750 to 999 miles	18,644	5,994	6,461
1,000 to 1,499 miles	20,911	6,682	10,430
1,500 to 1,999 miles	7,743	2,084	4,351
2,000 miles or more	4,761	1,581	(S)
SCTG 06, Milled grain products and preparations and bakery products	**143,139**	**120,023**	**50,732**
Less than 50 miles	40,926	37,209	964
50 to 99 miles	14,282	13,951	1,368
100 to 249 miles	27,435	22,194	4,641
250 to 499 miles	22,082	17,327	8,000
500 to 749 miles	14,784	12,272	9,675
750 to 999 miles	9,521	7,810	8,636
1,000 to 1,499 miles	6,654	5,104	7,712
1,500 to 1,999 miles	4,757	2,955	6,378
2,000 miles or more	2,697	1,201	3,358
SCTG 07, Other prepared foodstuffs and fats and oils	**479,757**	**468,435**	**171,452**
Less than 50 miles	169,055	185,255	5,056
50 to 99 miles	52,529	58,382	5,585
100 to 249 miles	78,000	82,103	17,406
250 to 499 miles	61,885	58,011	26,337
500 to 749 miles	39,917	29,262	22,858
750 to 999 miles	25,916	18,759	20,497
1,000 to 1,499 miles	23,977	19,004	29,873
1,500 to 1,999 miles	15,793	9,839	21,718
2,000 miles or more	12,684	7,820	22,122
SCTG 08, Alcoholic beverages	**158,322**	**114,012**	**36,685**
Less than 50 miles	96,147	59,493	1,318
50 to 99 miles	13,132	9,268	868
100 to 249 miles	15,722	15,549	3,409
250 to 499 miles	12,052	12,144	5,526
500 to 749 miles	5,802	4,861	3,848
750 to 999 miles	4,751	5,100	6,094
1,000 to 1,499 miles	3,827	4,321	6,934
1,500 to 1,999 miles	2,929	1,542	3,336
2,000 miles or more	3,960	1,735	5,354
SCTG 09, Tobacco products	**70,551**	**3,289**	**390**
Less than 50 miles	47,665	2,574	41
50 to 99 miles	4,817	177	18
100 to 249 miles	5,306	191	41
250 to 499 miles	5,547	153	67
500 to 749 miles	3,319	87	67
750 to 999 miles	1,639	50	54
1,000 to 1,499 miles	1,316	37	52
1,500 to 1,999 miles	315	7	16
2,000 miles or more	627	12	35

See footnotes at end of table.

Table 8.
Shipment Characteristics by Two-Digit Commodity and Distance Shipped for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

SCTG code, description, and distance shipped[1] (based on Great Circle Distance)	Value (million dollars)	Tons (thousands)	Ton-miles[2] (millions)
SCTG 10, Monumental or building stone	**5,202**	**28,738**	**3,113**
Less than 50 miles	2,650	22,044	560
50 to 99 miles	559	2,565	253
100 to 249 miles	865	1,877	428
250 to 499 miles	484	952	436
500 to 749 miles	309	700	538
750 to 999 miles	115	211	236
1,000 to 1,499 miles	135	283	404
1,500 to 1,999 miles	37	45	93
2,000 miles or more	49	62	165
SCTG 11, Natural sands	**6,665**	**460,085**	**41,125**
Less than 50 miles	4,008	370,514	7,876
50 to 99 miles	526	34,994	3,197
100 to 249 miles	681	30,941	7,381
250 to 499 miles	423	6,959	3,171
500 to 749 miles	449	6,405	5,666
750 to 999 miles	382	7,843	9,273
1,000 to 1,499 miles	112	1,511	2,319
1,500 to 1,999 miles	58	(S)	(S)
2,000 miles or more	26	(S)	(S)
SCTG 12, Gravel and crushed stone	**21,167**	**2,039,457**	**147,770**
Less than 50 miles	16,718	1,637,555	32,906
50 to 99 miles	1,606	154,990	15,832
100 to 249 miles	1,527	139,958	32,781
250 to 499 miles	839	83,430	40,696
500 to 749 miles	283	16,293	14,705
750 to 999 miles	95	4,022	4,723
1,000 to 1,499 miles	62	1,452	2,386
1,500 to 1,999 miles	29	1,517	3,127
2,000 miles or more	8	239	613
SCTG 13, Nonmetallic minerals, n.e.c.	**16,727**	**272,264**	**52,096**
Less than 50 miles	5,666	173,702	3,397
50 to 99 miles	1,379	20,599	2,021
100 to 249 miles	3,398	35,045	7,801
250 to 499 miles	2,540	19,218	9,532
500 to 749 miles	1,299	9,683	8,626
750 to 999 miles	963	7,203	8,737
1,000 to 1,499 miles	964	4,878	7,576
1,500 to 1,999 miles	316	(S)	(S)
2,000 miles or more	202	499	1,455
SCTG 14, Metallic ores and concentrates	**32,910**	**76,672**	**39,319**
Less than 50 miles	3,152	18,378	1,280
50 to 99 miles	4,994	24,420	2,474
100 to 249 miles	8,853	4,816	1,138
250 to 499 miles	4,361	(S)	(S)
500 to 749 miles	3,061	12,637	10,746
750 to 999 miles	1,576	(S)	(S)
1,000 to 1,499 miles	1,788	(S)	(S)
1,500 to 1,999 miles	(S)	429	1,070
2,000 miles or more	1,107	653	4,869

See footnotes at end of table.

Table 8.
Shipment Characteristics by Two-Digit Commodity and Distance Shipped for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

SCTG code, description, and distance shipped[1] (based on Great Circle Distance)	Value (million dollars)	Tons (thousands)	Ton-miles[2] (millions)
SCTG 15, Coal	**38,228**	**1,416,187**	**835,796**
Less than 50 miles	10,182	371,234	11,258
50 to 99 miles	3,608	105,468	11,889
100 to 249 miles	9,815	242,799	80,113
250 to 499 miles	8,138	194,647	107,867
500 to 749 miles	2,300	143,510	139,213
750 to 999 miles	2,567	216,535	265,620
1,000 to 1,499 miles	1,612	141,942	219,700
1,500 to 1,999 miles	(S)	(S)	(S)
2,000 miles or more	(S)	(S)	(S)
SCTG 17, Gasoline and aviation turbine fuel	**663,194**	**959,161**	**68,647**
Less than 50 miles	501,001	716,263	13,644
50 to 99 miles	71,614	108,177	9,475
100 to 249 miles	54,289	80,631	14,867
250 to 499 miles	23,677	34,055	13,812
500 to 749 miles	8,236	12,695	8,783
750 to 999 miles	3,280	5,528	5,211
1,000 to 1,499 miles	(S)	(S)	(S)
1,500 to 1,999 miles	77	100	227
2,000 miles or more	(Z)	(Z)	1
SCTG 18, Fuel oils	**373,515**	**641,894**	**54,243**
Less than 50 miles	281,262	479,935	9,711
50 to 99 miles	34,723	60,308	5,758
100 to 249 miles	37,510	66,205	12,641
250 to 499 miles	11,346	19,713	8,612
500 to 749 miles	4,135	8,109	6,463
750 to 999 miles	2,390	3,417	3,634
1,000 to 1,499 miles	2,046	(S)	(S)
1,500 to 1,999 miles	23	37	71
2,000 miles or more	(S)	(S)	(S)
SCTG 19, Coal and petroleum products, n.e.c.	**268,163**	**578,188**	**127,190**
Less than 50 miles	131,913	359,929	6,932
50 to 99 miles	31,662	56,182	5,054
100 to 249 miles	37,295	63,244	14,428
250 to 499 miles	26,597	37,159	17,515
500 to 749 miles	13,153	22,639	21,163
750 to 999 miles	10,700	20,154	25,557
1,000 to 1,499 miles	12,403	14,461	24,740
1,500 to 1,999 miles	3,500	3,606	9,350
2,000 miles or more	939	814	2,451
SCTG 20, Basic chemicals	**271,469**	**412,581**	**171,156**
Less than 50 miles	84,549	144,034	3,666
50 to 99 miles	28,620	52,830	5,713
100 to 249 miles	33,511	78,328	17,138
250 to 499 miles	39,900	48,108	23,934
500 to 749 miles	23,780	28,154	25,098
750 to 999 miles	22,369	27,481	32,847
1,000 to 1,499 miles	23,334	25,171	42,372
1,500 to 1,999 miles	11,071	6,340	14,392
2,000 miles or more	4,338	2,136	5,997

See footnotes at end of table.

Table 8.
Shipment Characteristics by Two-Digit Commodity and Distance Shipped for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

SCTG code, description, and distance shipped[1] (based on Great Circle Distance)	Value (million dollars)	Tons (thousands)	Ton-miles[2] (millions)
SCTG 21, Pharmaceutical products	**771,252**	**19,076**	**8,134**
Less than 50 miles	168,809	5,711	115
50 to 99 miles	70,201	2,607	243
100 to 249 miles	135,236	3,719	738
250 to 499 miles	137,390	2,427	1,140
500 to 749 miles	84,144	2,145	1,656
750 to 999 miles	71,041	718	773
1,000 to 1,499 miles	42,685	793	1,166
1,500 to 1,999 miles	43,346	436	906
2,000 miles or more	18,401	520	1,397
SCTG 22, Fertilizers	**43,613**	**149,600**	**58,970**
Less than 50 miles	16,975	55,698	1,620
50 to 99 miles	5,705	17,770	1,763
100 to 249 miles	5,900	19,778	4,580
250 to 499 miles	5,004	18,702	9,845
500 to 749 miles	4,980	18,816	16,033
750 to 999 miles	3,186	11,830	13,439
1,000 to 1,499 miles	1,583	6,061	9,255
1,500 to 1,999 miles	174	471	1,013
2,000 miles or more	(S)	(S)	(S)
SCTG 23, Chemical products and preparations, n.e.c.	**331,750**	**123,537**	**58,477**
Less than 50 miles	83,696	38,436	1,004
50 to 99 miles	21,884	9,703	952
100 to 249 miles	48,320	20,628	4,630
250 to 499 miles	63,668	21,304	9,904
500 to 749 miles	40,371	14,041	10,719
750 to 999 miles	25,458	7,978	8,480
1,000 to 1,499 miles	22,395	5,552	8,508
1,500 to 1,999 miles	13,390	3,574	7,719
2,000 miles or more	12,567	2,320	6,562
SCTG 24, Plastics and rubber	**489,435**	**186,392**	**104,622**
Less than 50 miles	131,255	49,200	1,236
50 to 99 miles	41,255	16,950	1,615
100 to 249 miles	76,006	27,534	6,202
250 to 499 miles	80,815	31,591	15,237
500 to 749 miles	53,043	20,262	16,157
750 to 999 miles	39,181	17,068	19,326
1,000 to 1,499 miles	36,442	14,777	23,094
1,500 to 1,999 miles	17,883	6,027	13,504
2,000 miles or more	13,554	2,982	8,252
SCTG 25, Logs and other wood in the rough	**7,086**	**107,869**	**11,164**
Less than 50 miles	2,748	73,252	2,380
50 to 99 miles	1,005	20,616	1,827
100 to 249 miles	1,340	7,458	1,451
250 to 499 miles	892	3,958	1,783
500 to 749 miles	347	859	(S)
750 to 999 miles	(S)	(S)	(S)
1,000 to 1,499 miles	(S)	(S)	(S)
1,500 to 1,999 miles	88	150	370
2,000 miles or more	43	(S)	(S)

See footnotes at end of table.

Table 8.
Shipment Characteristics by Two-Digit Commodity and Distance Shipped for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

SCTG code, description, and distance shipped[1] (based on Great Circle Distance)	Value (million dollars)	Tons (thousands)	Ton-miles[2] (millions)
SCTG 26, Wood products	**183,868**	**323,773**	**100,787**
Less than 50 miles	66,713	131,469	4,560
50 to 99 miles	26,803	55,412	5,572
100 to 249 miles	34,603	63,449	13,692
250 to 499 miles	21,585	32,060	15,095
500 to 749 miles	10,814	14,379	11,884
750 to 999 miles	8,188	9,035	10,445
1,000 to 1,499 miles	6,615	7,151	11,735
1,500 to 1,999 miles	4,587	6,466	14,999
2,000 miles or more	3,960	4,353	12,806
SCTG 27, Pulp, newsprint, paper, and paperboard	**126,857**	**145,380**	**82,098**
Less than 50 miles	31,548	29,043	662
50 to 99 miles	9,842	11,730	1,170
100 to 249 miles	20,226	25,702	6,178
250 to 499 miles	23,552	29,527	14,775
500 to 749 miles	17,695	21,841	17,858
750 to 999 miles	11,283	13,695	15,386
1,000 to 1,499 miles	7,441	8,640	13,465
1,500 to 1,999 miles	3,707	3,800	8,575
2,000 miles or more	1,565	1,403	4,028
SCTG 28, Paper or paperboard articles	**118,070**	**82,233**	**28,977**
Less than 50 miles	40,247	30,851	809
50 to 99 miles	12,937	10,607	986
100 to 249 miles	19,538	15,398	3,271
250 to 499 miles	17,547	10,663	5,018
500 to 749 miles	10,419	5,540	4,378
750 to 999 miles	7,629	4,363	4,614
1,000 to 1,499 miles	4,821	1,868	2,758
1,500 to 1,999 miles	2,977	1,631	3,538
2,000 miles or more	1,954	1,312	3,605
SCTG 29, Printed products	**190,389**	**51,435**	**22,363**
Less than 50 miles	55,621	17,719	390
50 to 99 miles	13,859	4,894	497
100 to 249 miles	28,944	8,503	1,902
250 to 499 miles	26,711	7,790	3,681
500 to 749 miles	21,669	4,805	3,665
750 to 999 miles	13,331	2,723	2,902
1,000 to 1,499 miles	14,339	2,585	3,657
1,500 to 1,999 miles	8,986	1,669	3,625
2,000 miles or more	6,930	746	2,044
SCTG 30, Textiles, leather, and articles of textiles or leather	**473,610**	**46,728**	**30,643**
Less than 50 miles	79,964	13,264	294
50 to 99 miles	38,344	3,755	371
100 to 249 miles	72,175	6,631	1,442
250 to 499 miles	80,554	6,712	3,141
500 to 749 miles	54,386	5,026	3,865
750 to 999 miles	34,466	2,413	2,539
1,000 to 1,499 miles	40,491	2,959	4,467
1,500 to 1,999 miles	28,360	2,716	5,724
2,000 miles or more	44,870	3,252	8,801

See footnotes at end of table.

Table 8.
Shipment Characteristics by Two-Digit Commodity and Distance Shipped for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

SCTG code, description, and distance shipped[1] (based on Great Circle Distance)	Value (million dollars)	Tons (thousands)	Ton-miles[2] (millions)
SCTG 31, Nonmetallic mineral products	**196,993**	**1,156,790**	**115,289**
Less than 50 miles	90,923	859,331	16,139
50 to 99 miles	19,979	96,833	9,264
100 to 249 miles	30,226	116,148	24,712
250 to 499 miles	21,596	46,730	21,487
500 to 749 miles	12,002	19,625	15,951
750 to 999 miles	6,741	6,803	7,674
1,000 to 1,499 miles	6,641	7,278	10,602
1,500 to 1,999 miles	4,329	2,616	5,472
2,000 miles or more	4,557	1,426	3,987
SCTG 32, Base metal in primary or semifinished forms and in finished basic shapes	**488,410**	**364,940**	**129,224**
Less than 50 miles	135,205	114,408	2,890
50 to 99 miles	45,346	36,836	3,567
100 to 249 miles	99,474	86,778	19,487
250 to 499 miles	86,323	67,425	32,589
500 to 749 miles	43,306	28,968	23,155
750 to 999 miles	25,126	13,426	15,474
1,000 to 1,499 miles	29,963	10,025	15,407
1,500 to 1,999 miles	14,779	5,377	11,998
2,000 miles or more	8,889	1,697	4,656
SCTG 33, Articles of base metal	**388,292**	**131,924**	**52,343**
Less than 50 miles	116,154	42,927	1,142
50 to 99 miles	35,304	15,373	1,479
100 to 249 miles	63,525	25,028	5,630
250 to 499 miles	61,343	20,024	9,242
500 to 749 miles	36,539	11,037	8,391
750 to 999 miles	25,634	6,883	7,519
1,000 to 1,499 miles	25,179	7,577	11,729
1,500 to 1,999 miles	12,783	2,029	4,281
2,000 miles or more	11,834	1,044	2,931
SCTG 34, Machinery	**628,267**	**66,728**	**36,760**
Less than 50 miles	167,344	19,713	481
50 to 99 miles	46,740	4,608	458
100 to 249 miles	90,296	10,359	2,362
250 to 499 miles	100,643	11,025	5,211
500 to 749 miles	69,814	6,986	5,515
750 to 999 miles	49,845	5,079	5,451
1,000 to 1,499 miles	53,318	4,989	7,428
1,500 to 1,999 miles	28,197	2,330	5,188
2,000 miles or more	22,069	1,639	4,666
SCTG 35, Electronic and other electrical equipment and components and office equipment	**1,046,495**	**47,528**	**31,645**
Less than 50 miles	249,972	15,579	379
50 to 99 miles	44,281	2,588	260
100 to 249 miles	106,787	5,454	1,276
250 to 499 miles	136,716	6,068	2,851
500 to 749 miles	112,886	4,838	3,721
750 to 999 miles	86,537	3,503	3,759
1,000 to 1,499 miles	112,296	4,039	6,067
1,500 to 1,999 miles	101,540	3,044	6,607
2,000 miles or more	95,480	2,415	6,724

See footnotes at end of table.

Table 8.
Shipment Characteristics by Two-Digit Commodity and Distance Shipped for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

SCTG code, description, and distance shipped[1] (based on Great Circle Distance)	Value (million dollars)	Tons (thousands)	Ton-miles[2] (millions)
SCTG 36, Motorized and other vehicles (including parts)	**907,288**	**133,126**	**64,776**
Less than 50 miles	241,998	43,015	958
50 to 99 miles	62,667	11,181	1,064
100 to 249 miles	142,794	21,771	4,994
250 to 499 miles	163,200	22,152	10,467
500 to 749 miles	102,234	12,678	9,863
750 to 999 miles	64,903	7,286	7,948
1,000 to 1,499 miles	56,025	7,241	10,890
1,500 to 1,999 miles	43,903	5,457	12,161
2,000 miles or more	29,566	2,345	6,432
SCTG 37, Transportation equipment, n.e.c.	**173,883**	**6,815**	**4,471**
Less than 50 miles	29,861	1,601	40
50 to 99 miles	5,015	235	25
100 to 249 miles	14,799	949	223
250 to 499 miles	21,134	1,308	631
500 to 749 miles	19,297	834	667
750 to 999 miles	18,635	926	1,048
1,000 to 1,499 miles	26,268	499	768
1,500 to 1,999 miles	28,015	368	813
2,000 miles or more	10,859	94	257
SCTG 38, Precision instruments and apparatus	**304,620**	**5,668**	**3,513**
Less than 50 miles	58,763	1,687	51
50 to 99 miles	15,914	389	36
100 to 249 miles	32,406	639	164
250 to 499 miles	39,824	962	433
500 to 749 miles	34,154	566	426
750 to 999 miles	31,197	498	537
1,000 to 1,499 miles	33,833	421	616
1,500 to 1,999 miles	29,264	233	481
2,000 miles or more	29,265	274	769
SCTG 39, Furniture, mattresses and mattress supports, lamps, lighting fittings, and illuminated signs	**152,286**	**26,633**	**15,024**
Less than 50 miles	43,744	6,507	172
50 to 99 miles	11,501	2,345	228
100 to 249 miles	21,002	4,402	960
250 to 499 miles	22,475	4,627	2,125
500 to 749 miles	18,141	3,202	2,447
750 to 999 miles	11,453	1,969	2,120
1,000 to 1,499 miles	10,238	1,815	2,757
1,500 to 1,999 miles	7,644	1,049	2,217
2,000 miles or more	6,087	717	1,998
SCTG 40, Miscellaneous manufactured products	**490,305**	**91,844**	**41,995**
Less than 50 miles	96,427	30,890	735
50 to 99 miles	29,181	7,605	746
100 to 249 miles	64,043	15,676	3,406
250 to 499 miles	78,110	14,019	6,388
500 to 749 miles	58,548	8,357	6,449
750 to 999 miles	43,221	5,078	5,492
1,000 to 1,499 miles	57,328	6,121	9,160
1,500 to 1,999 miles	28,521	2,337	4,836
2,000 miles or more	34,927	1,761	4,785

See footnotes at end of table.

Table 8.
Shipment Characteristics by Two-Digit Commodity and Distance Shipped for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

SCTG code, description, and distance shipped[1] (based on Great Circle Distance)	Value (million dollars)	Tons (thousands)	Ton-miles[2] (millions)
SCTG 41, Waste and scrap	**82,243**	**305,878**	**67,023**
Less than 50 miles	35,298	175,241	4,313
50 to 99 miles	9,802	45,575	4,219
100 to 249 miles	13,295	33,935	7,600
250 to 499 miles	10,508	25,129	12,420
500 to 749 miles	4,472	11,651	9,455
750 to 999 miles	3,014	5,615	6,251
1,000 to 1,499 miles	2,077	3,278	5,016
1,500 to 1,999 miles	1,202	1,375	3,093
2,000 miles or more	2,575	4,079	14,656
SCTG 43, Mixed freight	**932,353**	**300,922**	**56,137**
Less than 50 miles	303,664	128,313	3,801
50 to 99 miles	180,913	59,291	5,643
100 to 249 miles	247,807	71,318	14,643
250 to 499 miles	107,742	24,663	10,478
500 to 749 miles	35,523	7,768	6,194
750 to 999 miles	17,864	3,364	3,583
1,000 to 1,499 miles	18,857	2,953	4,248
1,500 to 1,999 miles	12,626	2,189	4,620
2,000 miles or more	7,356	1,063	2,927
Commodity unknown	**1,453**	**(S)**	**145**
Less than 50 miles	624	258	7
50 to 99 miles	222	(S)	(S)
100 to 249 miles	248	83	17
250 to 499 miles	71	(S)	20
500 to 749 miles	125	(S)	(S)
750 to 999 miles	67	(S)	(S)
1,000 to 1,499 miles	20	(S)	(S)
1,500 to 1,999 miles	27	(S)	(S)
2,000 miles or more	50	1	4

(S) Estimate did not meet publication standards.
(Z) Estimate is between zero and half the unit shown, thus rounded to zero.

[1] Shipments are grouped into distance categories based on Great Circle Distance (GCD). GCD is the shortest distance between 2 points on the surface of a sphere over the surface of that sphere.
[2] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See "Mileage Calculations" section for additional information.
[3] Estimates exclude shipments of crude petroleum (SCTG 16).

Note: Value-of-shipments estimates have not been adjusted for price changes. Appendix B tables provide estimated measures of sampling variability. The Introduction and appendixes give 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/cfs>.

Table 9.

Shipment Characteristics by Two-Digit Commodity and Shipment Weight for the United States: 2007

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

SCTG code, description, and shipment weight	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)
Total[2]	**11,684,872**	**12,543,425**	**3,344,658**
Less than 50 lb	1,480,208	24,828	15,128
50 to 99 lb	388,649	16,630	6,675
100 to 499 lb	1,094,506	96,679	26,644
500 to 749 lb	309,788	47,963	10,974
750 to 999 lb	227,805	43,626	9,573
1,000 to 9,999 lb	2,381,303	709,781	167,196
10,000 to 49,999 lb	3,984,093	5,267,458	984,285
50,000 to 99,999 lb	685,084	2,340,485	212,678
100,000 lb or more	1,133,436	3,995,975	1,911,504
SCTG 01, Live animals and live fish	**10,833**	**6,150**	**3,973**
Less than 50 lb	263	10	(S)
50 to 99 lb	118	7	2
100 to 499 lb	322	38	21
500 to 749 lb	(S)	(S)	(S)
750 to 999 lb	39	11	(S)
1,000 to 9,999 lb	708	316	(S)
10,000 to 49,999 lb	5,830	3,864	2,725
50,000 to 99,999 lb	2,056	1,139	634
100,000 lb or more	1,451	755	(S)
SCTG 02, Cereal grains	**84,851**	**514,151**	**203,446**
Less than 50 lb	(S)	(S)	(Z)
50 to 99 lb	(S)	3	(S)
100 to 499 lb	47	60	(S)
500 to 749 lb	75	48	7
750 to 999 lb	23	20	1
1,000 to 9,999 lb	916	1,688	156
10,000 to 49,999 lb	6,119	26,595	5,490
50,000 to 99,999 lb	24,274	167,041	12,216
100,000 lb or more	53,382	318,695	185,571
SCTG 03, Other agricultural products	**143,637**	**211,890**	**88,207**
Less than 50 lb	4,530	331	89
50 to 99 lb	2,208	419	33
100 to 499 lb	9,292	3,242	230
500 to 749 lb	3,141	1,423	132
750 to 999 lb	2,170	1,070	126
1,000 to 9,999 lb	28,092	19,489	5,504
10,000 to 49,999 lb	58,667	67,561	36,423
50,000 to 99,999 lb	14,716	53,912	5,315
100,000 lb or more	20,820	64,443	40,354
SCTG 04, Animal feed and products of animal origin, n.e.c.	**90,472**	**246,436**	**76,188**
Less than 50 lb	759	92	(S)
50 to 99 lb	239	83	20
100 to 499 lb	1,460	632	77
500 to 749 lb	722	406	53
750 to 999 lb	547	303	45
1,000 to 9,999 lb	8,530	9,819	1,531
10,000 to 49,999 lb	53,736	124,816	26,164
50,000 to 99,999 lb	12,497	68,838	10,194
100,000 lb or more	11,983	41,446	38,022

See footnotes at end of table.

Table 9.
Shipment Characteristics by Two-Digit Commodity and Shipment Weight for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

SCTG code, description, and shipment weight	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)
SCTG 05, Meat, fish, seafood, and their preparations	**277,251**	**98,413**	**48,549**
Less than 50 lb	3,264	290	85
50 to 99 lb	3,903	444	38
100 to 499 lb	18,104	3,271	330
500 to 749 lb	6,321	1,554	187
750 to 999 lb	4,961	1,314	179
1,000 to 9,999 lb	59,928	17,737	5,048
10,000 to 49,999 lb	171,196	66,985	34,215
50,000 to 99,999 lb	3,851	2,635	1,417
100,000 lb or more	5,724	4,182	(S)
SCTG 06, Milled grain products and preparations and bakery products	**143,139**	**120,023**	**50,732**
Less than 50 lb	5,371	692	271
50 to 99 lb	1,442	388	29
100 to 499 lb	5,076	1,757	190
500 to 749 lb	1,995	902	112
750 to 999 lb	2,034	953	132
1,000 to 9,999 lb	23,385	11,832	3,114
10,000 to 49,999 lb	92,008	70,243	32,234
50,000 to 99,999 lb	5,723	17,438	2,641
100,000 lb or more	6,105	15,817	12,008
SCTG 07, Other prepared foodstuffs and fats and oils	**479,757**	**468,435**	**171,452**
Less than 50 lb	8,414	909	176
50 to 99 lb	5,423	1,095	110
100 to 499 lb	23,910	8,957	707
500 to 749 lb	10,543	4,818	456
750 to 999 lb	8,928	4,495	434
1,000 to 9,999 lb	91,530	56,652	9,722
10,000 to 49,999 lb	288,683	294,943	109,099
50,000 to 99,999 lb	19,670	48,217	8,606
100,000 lb or more	22,655	48,348	42,142
SCTG 08, Alcoholic beverages	**158,322**	**114,012**	**36,685**
Less than 50 lb	3,631	228	45
50 to 99 lb	2,335	423	22
100 to 499 lb	16,868	5,662	246
500 to 749 lb	7,271	3,380	137
750 to 999 lb	6,503	3,212	116
1,000 to 9,999 lb	51,287	32,883	1,702
10,000 to 49,999 lb	56,421	49,402	19,829
50,000 to 99,999 lb	7,202	8,870	1,930
100,000 lb or more	6,805	9,951	12,659
SCTG 09, Tobacco products	**70,551**	**3,289**	**390**
Less than 50 lb	5,664	75	25
50 to 99 lb	3,898	53	8
100 to 499 lb	9,144	207	36
500 to 749 lb	2,156	78	18
750 to 999 lb	1,621	64	20
1,000 to 9,999 lb	9,760	476	140
10,000 to 49,999 lb	38,037	2,282	139
50,000 to 99,999 lb	(S)	(S)	2
100,000 lb or more	(S)	(S)	(S)

See footnotes at end of table.

Table 9.
Shipment Characteristics by Two-Digit Commodity and Shipment Weight for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

SCTG code, description, and shipment weight	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)
SCTG 10, Monumental or building stone	**5,202**	**28,738**	**3,113**
Less than 50 lb	68	4	1
50 to 99 lb	17	4	1
100 to 499 lb	239	65	8
500 to 749 lb	213	55	7
750 to 999 lb	137	55	5
1,000 to 9,999 lb	1,788	1,486	163
10,000 to 49,999 lb	2,388	17,911	2,371
50,000 to 99,999 lb	310	7,697	422
100,000 lb or more	42	1,461	136
SCTG 11, Natural sands	**6,665**	**460,085**	**41,125**
Less than 50 lb	17	1	(Z)
50 to 99 lb	4	1	(S)
100 to 499 lb	35	26	2
500 to 749 lb	17	15	2
750 to 999 lb	21	16	3
1,000 to 9,999 lb	446	2,552	191
10,000 to 49,999 lb	3,317	238,183	9,550
50,000 to 99,999 lb	1,636	145,514	7,553
100,000 lb or more	1,171	73,777	23,824
SCTG 12, Gravel and crushed stone	**21,167**	**2,039,457**	**147,770**
Less than 50 lb	(S)	(S)	(Z)
50 to 99 lb	(S)	(S)	(S)
100 to 499 lb	(S)	8	(S)
500 to 749 lb	1	16	(Z)
750 to 999 lb	1	19	(Z)
1,000 to 9,999 lb	234	9,176	196
10,000 to 49,999 lb	12,530	1,194,032	40,340
50,000 to 99,999 lb	5,201	480,879	21,371
100,000 lb or more	3,198	355,327	85,862
SCTG 13, Nonmetallic minerals n.e.c.	**16,727**	**272,264**	**52,096**
Less than 50 lb	323	7	5
50 to 99 lb	77	11	4
100 to 499 lb	308	125	17
500 to 749 lb	192	76	(S)
750 to 999 lb	(S)	(S)	8
1,000 to 9,999 lb	1,466	2,649	284
10,000 to 49,999 lb	10,068	150,183	19,139
50,000 to 99,999 lb	1,662	49,131	5,640
100,000 lb or more	2,373	69,962	26,978
SCTG 14, Metallic ores and concentrates	**32,910**	**76,672**	**39,319**
Less than 50 lb	381	3	2
50 to 99 lb	234	5	2
100 to 499 lb	1,021	36	(S)
500 to 749 lb	397	(S)	(S)
750 to 999 lb	(S)	(S)	(S)
1,000 to 9,999 lb	(S)	294	93
10,000 to 49,999 lb	13,301	3,885	1,529
50,000 to 99,999 lb	2,671	1,734	302
100,000 lb or more	10,443	70,679	37,347

See footnotes at end of table.

Table 9.
Shipment Characteristics by Two-Digit Commodity and Shipment Weight for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

SCTG code, description, and shipment weight	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)
SCTG 15, Coal	**38,228**	**1,416,187**	**835,796**
Less than 50 lb	(S)	(S)	(S)
50 to 99 lb	(S)	(S)	(S)
100 to 499 lb	(S)	(S)	(S)
500 to 749 lb	(Z)	1	(Z)
750 to 999 lb	(S)	3	(Z)
1,000 to 9,999 lb	94	430	20
10,000 to 49,999 lb	2,629	57,536	5,247
50,000 to 99,999 lb	3,508	98,751	9,843
100,000 lb or more	31,990	1,259,464	820,686
SCTG 17, Gasoline and aviation turbine fuel	**663,194**	**959,161**	**68,647**
Less than 50 lb	19	19	(Z)
50 to 99 lb	62	68	2
100 to 499 lb	292	329	13
500 to 749 lb	198	238	10
750 to 999 lb	192	216	7
1,000 to 9,999 lb	12,751	16,212	745
10,000 to 49,999 lb	117,705	162,904	7,857
50,000 to 99,999 lb	261,486	361,660	16,146
100,000 lb or more	270,489	417,516	43,867
SCTG 18, Fuel oils	**373,515**	**641,894**	**54,243**
Less than 50 lb	27	22	1
50 to 99 lb	68	55	1
100 to 499 lb	1,254	1,513	43
500 to 749 lb	2,043	2,655	68
750 to 999 lb	2,684	3,626	76
1,000 to 9,999 lb	37,343	52,726	1,574
10,000 to 49,999 lb	68,537	109,446	6,698
50,000 to 99,999 lb	95,858	163,686	11,295
100,000 lb or more	165,702	308,164	34,486
SCTG 19, Coal and petroleum products, n.e.c.	**268,163**	**578,188**	**127,190**
Less than 50 lb	2,146	259	53
50 to 99 lb	1,332	325	36
100 to 499 lb	9,498	4,768	272
500 to 749 lb	3,859	2,914	127
750 to 999 lb	5,168	4,003	190
1,000 to 9,999 lb	36,835	28,665	2,437
10,000 to 49,999 lb	76,423	206,608	23,233
50,000 to 99,999 lb	19,810	81,617	9,208
100,000 lb or more	113,092	249,029	91,634
SCTG 20, Basic chemicals	**271,469**	**412,581**	**171,156**
Less than 50 lb	6,241	172	68
50 to 99 lb	1,839	220	(S)
100 to 499 lb	8,556	2,347	264
500 to 749 lb	2,724	1,297	132
750 to 999 lb	2,194	919	110
1,000 to 9,999 lb	29,341	17,362	3,160
10,000 to 49,999 lb	90,591	147,991	41,080
50,000 to 99,999 lb	11,019	24,354	6,492
100,000 lb or more	118,964	217,921	119,776

See footnotes at end of table.

Table 9.
Shipment Characteristics by Two-Digit Commodity and Shipment Weight for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

SCTG code, description, and shipment weight	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)
SCTG 21, Pharmaceutical products	**771,252**	**19,076**	**8,134**
Less than 50 lb	252,887	1,267	551
50 to 99 lb	55,513	550	165
100 to 499 lb	120,779	1,832	577
500 to 749 lb	19,791	535	199
750 to 999 lb	14,691	393	140
1,000 to 9,999 lb	149,305	5,858	1,816
10,000 to 49,999 lb	157,862	6,980	3,849
50,000 to 99,999 lb	(S)	591	(S)
100,000 lb or more	195	(S)	(S)
SCTG 22, Fertilizers	**43,613**	**149,600**	**58,970**
Less than 50 lb	14	2	1
50 to 99 lb	11	7	1
100 to 499 lb	132	88	5
500 to 749 lb	62	55	5
750 to 999 lb	52	50	4
1,000 to 9,999 lb	2,717	5,182	372
10,000 to 49,999 lb	17,030	54,560	10,132
50,000 to 99,999 lb	8,819	31,720	7,443
100,000 lb or more	14,777	57,937	41,008
SCTG 23, Chemical products and preparations, n.e.c.	**331,750**	**123,537**	**58,477**
Less than 50 lb	24,381	860	423
50 to 99 lb	8,871	553	246
100 to 499 lb	27,734	2,925	1,167
500 to 749 lb	10,234	1,499	663
750 to 999 lb	9,702	1,268	556
1,000 to 9,999 lb	75,278	18,557	8,623
10,000 to 49,999 lb	163,097	83,159	39,139
50,000 to 99,999 lb	2,468	4,335	720
100,000 lb or more	9,983	10,382	6,939
SCTG 24, Plastics and rubber	**489,435**	**186,392**	**104,622**
Less than 50 lb	33,888	1,263	614
50 to 99 lb	14,717	1,211	389
100 to 499 lb	48,624	6,022	1,953
500 to 749 lb	14,109	2,166	747
750 to 999 lb	10,782	2,015	653
1,000 to 9,999 lb	129,877	36,160	14,207
10,000 to 49,999 lb	174,447	81,743	48,291
50,000 to 99,999 lb	6,019	4,772	1,808
100,000 lb or more	56,972	51,040	35,958
SCTG 25, Logs and other wood in the rough	**7,086**	**107,869**	**11,164**
Less than 50 lb	(S)	(Z)	(S)
50 to 99 lb	(S)	(S)	(Z)
100 to 499 lb	22	8	1
500 to 749 lb	18	9	(S)
750 to 999 lb	32	20	(S)
1,000 to 9,999 lb	385	502	56
10,000 to 49,999 lb	3,419	29,094	4,643
50,000 to 99,999 lb	2,553	66,418	4,483
100,000 lb or more	609	(S)	1,976

See footnotes at end of table.

Table 9.
Shipment Characteristics by Two-Digit Commodity and Shipment Weight for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

SCTG code, description, and shipment weight	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)
SCTG 26, Wood products	**183,868**	**323,773**	**100,787**
Less than 50 lb	3,024	192	120
50 to 99 lb	2,208	236	74
100 to 499 lb	10,593	1,834	350
500 to 749 lb	4,715	1,164	187
750 to 999 lb	3,803	1,121	169
1,000 to 9,999 lb	46,997	29,706	3,846
10,000 to 49,999 lb	89,251	176,942	46,310
50,000 to 99,999 lb	14,151	77,332	14,261
100,000 lb or more	9,126	35,247	35,470
SCTG 27, Pulp, newsprint, paper, and paperboard	**126,857**	**145,380**	**82,098**
Less than 50 lb	1,551	101	36
50 to 99 lb	764	146	39
100 to 499 lb	3,831	1,212	156
500 to 749 lb	1,826	709	91
750 to 999 lb	1,317	566	84
1,000 to 9,999 lb	18,880	10,913	1,877
10,000 to 49,999 lb	69,867	83,564	42,454
50,000 to 99,999 lb	5,067	8,349	2,517
100,000 lb or more	23,754	39,820	34,843
SCTG 28, Paper or paperboard articles	**118,070**	**82,233**	**28,977**
Less than 50 lb	4,262	302	178
50 to 99 lb	2,026	311	91
100 to 499 lb	8,243	1,903	357
500 to 749 lb	2,860	921	176
750 to 999 lb	2,013	709	122
1,000 to 9,999 lb	28,089	14,871	2,837
10,000 to 49,999 lb	68,048	56,325	22,205
50,000 to 99,999 lb	1,198	4,132	1,410
100,000 lb or more	1,330	2,759	1,601
SCTG 29, Printed products	**190,389**	**51,435**	**22,363**
Less than 50 lb	43,685	1,916	1,048
50 to 99 lb	10,226	794	336
100 to 499 lb	26,290	2,708	1,119
500 to 749 lb	9,990	1,127	450
750 to 999 lb	5,450	714	273
1,000 to 9,999 lb	48,782	12,460	4,615
10,000 to 49,999 lb	42,170	28,146	12,677
50,000 to 99,999 lb	(S)	1,339	528
100,000 lb or more	(S)	2,231	(S)
SCTG 30, Textiles, leather, and articles of textiles or leather	**473,610**	**46,728**	**30,643**
Less than 50 lb	90,477	2,055	2,133
50 to 99 lb	17,628	726	618
100 to 499 lb	48,981	2,736	1,930
500 to 749 lb	15,377	1,390	645
750 to 999 lb	10,836	987	485
1,000 to 9,999 lb	133,162	11,370	6,970
10,000 to 49,999 lb	152,897	24,495	15,143
50,000 to 99,999 lb	1,877	950	362
100,000 lb or more	2,375	2,018	(S)

See footnotes at end of table.

Table 9.
Shipment Characteristics by Two-Digit Commodity and Shipment Weight for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

SCTG code, description, and shipment weight	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)
SCTG 31, Nonmetallic mineral products	**196,993**	**1,156,790**	**115,289**
Less than 50 lb	10,403	461	272
50 to 99 lb	3,221	352	129
100 to 499 lb	10,367	1,929	601
500 to 749 lb	3,785	901	199
750 to 999 lb	2,618	867	189
1,000 to 9,999 lb	32,009	37,131	4,401
10,000 to 49,999 lb	104,973	800,598	61,329
50,000 to 99,999 lb	21,855	224,391	20,431
100,000 lb or more	7,762	90,159	27,737
SCTG 32, Base metal in primary or semifinished forms and in finished basic shapes	**488,410**	**364,940**	**129,224**
Less than 50 lb	11,651	360	134
50 to 99 lb	6,127	415	128
100 to 499 lb	25,310	3,256	709
500 to 749 lb	9,432	1,802	414
750 to 999 lb	7,182	1,622	341
1,000 to 9,999 lb	90,756	33,692	6,943
10,000 to 49,999 lb	250,999	211,518	66,215
50,000 to 99,999 lb	26,887	38,954	6,329
100,000 lb or more	60,065	73,321	48,010
SCTG 33, Articles of base metal	**388,292**	**131,924**	**52,343**
Less than 50 lb	50,512	1,095	576
50 to 99 lb	15,312	798	342
100 to 499 lb	47,749	4,317	1,630
500 to 749 lb	14,007	1,955	723
750 to 999 lb	10,390	1,595	603
1,000 to 9,999 lb	102,829	28,764	9,415
10,000 to 49,999 lb	129,321	73,439	27,975
50,000 to 99,999 lb	7,849	7,713	1,937
100,000 lb or more	10,323	12,249	9,140
SCTG 34, Machinery	**628,267**	**66,728**	**36,760**
Less than 50 lb	95,393	1,319	668
50 to 99 lb	30,784	849	368
100 to 499 lb	79,978	4,124	1,828
500 to 749 lb	25,801	1,763	729
750 to 999 lb	17,443	1,198	610
1,000 to 9,999 lb	147,647	15,756	7,954
10,000 to 49,999 lb	201,813	33,558	20,411
50,000 to 99,999 lb	17,789	5,270	2,441
100,000 lb or more	11,619	2,891	1,752
SCTG 35, Electronic and other electrical equipment and components and office equipment	**1,046,495**	**47,528**	**31,645**
Less than 50 lb	339,945	2,816	2,069
50 to 99 lb	87,029	1,503	946
100 to 499 lb	206,657	5,552	3,009
500 to 749 lb	45,291	1,667	932
750 to 999 lb	31,938	1,493	1,277
1,000 to 9,999 lb	186,740	12,040	7,631
10,000 to 49,999 lb	142,773	19,071	13,930
50,000 to 99,999 lb	3,424	1,018	586
100,000 lb or more	2,698	2,368	1,266

See footnotes at end of table.

Table 9.
Shipment Characteristics by Two-Digit Commodity and Shipment Weight for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

SCTG code, description, and shipment weight	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)
SCTG 36, Motorized and other vehicles (including parts)	**907,288**	**133,126**	**64,776**
Less than 50 lb	63,205	2,021	880
50 to 99 lb	24,944	1,390	707
100 to 499 lb	83,135	6,023	2,673
500 to 749 lb	21,362	2,049	884
750 to 999 lb	13,147	1,465	585
1,000 to 9,999 lb	281,261	38,355	18,514
10,000 to 49,999 lb	359,120	70,028	33,011
50,000 to 99,999 lb	35,295	6,590	3,958
100,000 lb or more	25,819	5,205	3,565
SCTG 37, Transportation equipment, n.e.c.	**173,883**	**6,815**	**4,471**
Less than 50 lb	44,606	77	69
50 to 99 lb	9,257	29	26
100 to 499 lb	24,894	121	94
500 to 749 lb	6,842	55	48
750 to 999 lb	4,050	35	23
1,000 to 9,999 lb	30,453	960	706
10,000 to 49,999 lb	21,870	3,051	1,698
50,000 to 99,999 lb	6,713	540	282
100,000 lb or more	(S)	1,946	1,526
SCTG 38, Precision instruments and apparatus	**304,620**	**5,668**	**3,513**
Less than 50 lb	145,652	693	718
50 to 99 lb	28,240	286	184
100 to 499 lb	59,143	1,028	529
500 to 749 lb	11,306	273	119
750 to 999 lb	6,669	231	114
1,000 to 9,999 lb	38,559	1,670	894
10,000 to 49,999 lb	14,427	1,205	767
50,000 to 99,999 lb	401	(S)	(S)
100,000 lb or more	(S)	(S)	(S)
SCTG 39, Furniture, mattresses and mattress supports, lamps, lighting fittings, and illuminated signs	**152,286**	**26,633**	**15,024**
Less than 50 lb	9,290	427	390
50 to 99 lb	5,773	432	301
100 to 499 lb	26,898	2,628	1,432
500 to 749 lb	9,155	1,202	574
750 to 999 lb	6,416	912	480
1,000 to 9,999 lb	56,756	9,817	5,083
10,000 to 49,999 lb	35,189	10,064	6,345
50,000 to 99,999 lb	1,048	627	277
100,000 lb or more	1,760	526	141
SCTG 40, Miscellaneous manufactured products	**490,305**	**91,844**	**41,995**
Less than 50 lb	166,213	2,603	2,539
50 to 99 lb	24,887	961	811
100 to 499 lb	62,389	3,976	2,340
500 to 749 lb	16,141	1,343	905
750 to 999 lb	11,154	1,071	659
1,000 to 9,999 lb	92,495	16,355	8,845
10,000 to 49,999 lb	104,717	49,863	20,140
50,000 to 99,999 lb	9,330	6,773	3,378
100,000 lb or more	2,980	8,900	2,379

See footnotes at end of table.

Table 9.
Shipment Characteristics by Two-Digit Commodity and Shipment Weight for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

SCTG code, description, and shipment weight	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)
SCTG 41, Waste and scrap	**82,243**	**305,878**	**67,023**
Less than 50 lb	(S)	(Z)	(S)
50 to 99 lb	(S)	(S)	(S)
100 to 499 lb	11	(S)	(S)
500 to 749 lb	16	(S)	1
750 to 999 lb	12	8	1
1,000 to 9,999 lb	1,938	1,271	121
10,000 to 49,999 lb	57,152	194,908	30,779
50,000 to 99,999 lb	8,657	56,812	6,716
100,000 lb or more	14,430	52,864	29,406
SCTG 43, Mixed freight	**932,353**	**300,922**	**56,137**
Less than 50 lb	47,640	1,868	795
50 to 99 lb	17,728	1,467	386
100 to 499 lb	67,055	9,375	1,688
500 to 749 lb	25,663	5,431	795
750 to 999 lb	20,419	4,845	743
1,000 to 9,999 lb	287,417	85,845	15,588
10,000 to 49,999 lb	455,271	179,596	33,400
50,000 to 99,999 lb	7,672	8,339	1,273
100,000 lb or more	3,489	4,155	1,469
Commodity unknown	**1,453**	**(S)**	**145**
Less than 50 lb	380	11	(S)
50 to 99 lb	125	8	(S)
100 to 499 lb	260	34	4
500 to 749 lb	92	22	3
750 to 999 lb	61	16	1
1,000 to 9,999 lb	219	102	18
10,000 to 49,999 lb	191	182	81
50,000 to 99,999 lb	(S)	(S)	(S)
100,000 lb or more	(S)	(S)	(S)

(S) Estimate did not meet publication standards.
(Z) Estimate is between zero and half the unit shown, thus rounded to zero.

[1] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See “Mileage Calculations” section for additional information.
[2] Estimates exclude shipments of crude petroleum (SCTG 16).

Note: Value-of-shipments estimates have not been adjusted for price changes. Appendix B tables provide estimated measures of sampling variability. The Introduction and appendixes give 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/cfs>.

Table 10.

Shipment Characteristics by Industry for the United States: 2007

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)	Average miles per shipment
212	Mining (except oil and gas)	85,730	3,638,118	1,057,505	53
311	Food manufacturing	585,676	568,950	264,425	305
312	Beverage and tobacco product manufacturing	129,804	143,530	42,063	227
313	Textile mills	35,936	8,989	4,133	811
314	Textile product mills	28,448	7,022	3,131	854
315	Apparel manufacturing	24,381	1,463	1,400	1,224
316	Leather and allied product manufacturing	5,441	636	789	1,118
321	Wood product manufacturing	100,923	218,834	78,742	343
322	Paper manufacturing	174,780	166,472	89,418	494
323	Printing and related support activities	98,848	33,661	15,936	791
324	Petroleum and coal products manufacturing	608,090	1,415,099	207,148	222
325	Chemical manufacturing	713,674	594,262	279,917	847
326	Plastics and rubber products manufacturing	209,268	66,753	37,394	679
327	Nonmetallic mineral product manufacturing	124,713	1,060,926	98,086	170
331	Primary metal manufacturing	251,412	201,339	98,318	545
332	Fabricated metal product manufacturing	338,290	118,350	44,620	596
333	Machinery manufacturing	343,262	40,523	31,565	917
334	Computer and electronic product manufacturing	389,399	5,416	4,442	1,205
335	Electrical equipment, appliance, and component manufacturing	128,868	18,771	15,436	938
336	Transportation equipment manufacturing	715,294	94,023	45,264	801
337	Furniture and related product manufacturing	83,494	18,700	11,480	715
339	Miscellaneous manufacturing	144,279	10,941	9,350	1,017
4231	Motor vehicle and motor vehicle parts and supplies merchant wholesalers	503,333	81,203	29,489	532
4232	Furniture and home furnishing merchant wholesalers	74,305	23,358	12,730	663
4233	Lumber and other construction materials merchant wholesalers	153,528	498,825	43,488	141
4234	Professional and commercial equipment and supplies merchant wholesalers	397,976	21,817	9,088	716
4235	Metal and mineral (except petroleum) merchant wholesalers	191,673	182,041	43,016	192
4236	Electrical and electronic goods merchant wholesalers	338,597	24,469	11,663	474
4237	Hardware, and plumbing and heating equipment and supplies merchant wholesalers	119,464	28,474	5,563	213
4238	Machinery, equipment, and supplies merchant wholesalers	363,108	74,069	16,716	322
4239	Miscellaneous durable goods merchant wholesalers	210,361	426,888	93,027	911
4241	Paper and paper product merchant wholesalers	100,860	50,888	15,513	282
4242	Drugs and druggists' sundries merchant wholesalers	409,264	23,407	9,611	478
4243	Apparel, piece goods, and notions merchant wholesalers	119,239	9,468	8,484	933
4244	Grocery and related product wholesalers	567,732	321,626	81,594	109
4245	Farm product raw material merchant wholesalers	143,358	623,826	240,207	145
4246	Chemical and allied products merchant wholesalers	119,923	119,971	31,344	237
4247	Petroleum and petroleum products merchant wholesalers	610,759	846,636	52,112	70
4248	Beer, wine, and distilled alcoholic beverage merchant wholesalers	100,154	55,667	3,194	40
4249	Miscellaneous nondurable goods merchant wholesalers	216,429	192,897	60,260	481
4541	Electronic shopping and mail-order houses	216,817	7,305	6,398	1,169
45431	Fuel dealers	38,220	48,438	1,784	22
4931	Warehousing and storage	903,398	187,219	46,335	833
5111	Newspaper, periodical, book, and directory publishers	38,082	11,892	2,279	250
551114	Corporate, subsidiary, and regional managing offices	428,280	250,262	80,199	784

[1] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See "Mileage Calculations" section for additional information.

Note: Value-of-shipments estimates have not been adjusted for price changes. Appendix B tables provide estimated measures of sampling variability. The Introduction and appendixes give 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/cfs>.

Table 11.

Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and mode of transportation	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)	Average miles per shipment
212	**Mining (Except Oil and Gas)**				
	Total	**85,730**	**3,638,118**	**1,057,505**	**53**
	Single modes	**78,658**	**3,353,616**	**956,608**	**49**
	Truck[2]	43,325	2,131,050	98,817	42
	For-hire truck	28,676	1,011,437	62,166	57
	Private truck	14,648	1,119,613	36,650	30
	Rail	33,141	1,156,197	830,906	491
	Water	1,780	62,558	26,629	(S)
	Shallow draft	(S)	45,864	16,053	297
	Great Lakes	73	14,752	5,027	313
	Deep draft	1,270	1,941	5,549	(S)
	Air (includes truck and air)	(S)	(Z)	(Z)	(S)
	Pipeline[3]	(S)	(S)	(S)	(S)
	Multiple modes	**5,217**	**160,134**	**96,241**	**443**
	Parcel, U.S. Postal Service or courier	(S)	1	1	619
	Truck and rail	2,639	60,748	26,915	444
	Truck and water	1,294	60,998	37,441	381
	Rail and water	569	18,850	23,402	(S)
	Other multiple modes	429	19,536	8,482	487
	Other and unknown modes	**1,854**	**124,368**	**4,657**	**32**
311	**Food Manufacturing**				
	Total	**585,676**	**568,950**	**264,425**	**305**
	Single modes	**558,516**	**531,992**	**232,256**	**184**
	Truck[2]	533,628	463,673	169,332	170
	For-hire truck	374,015	288,522	144,835	567
	Private truck	159,612	175,151	24,496	61
	Rail	22,345	59,764	61,503	1,059
	Water	1,716	(S)	1,266	1,106
	Shallow draft	849	(S)	(S)	(S)
	Great Lakes	–	–	–	–
	Deep draft	867	385	636	1,225
	Air (includes truck and air)	705	68	144	1,991
	Pipeline[3]	122	231	(S)	(S)
	Multiple modes	**18,792**	**26,737**	**29,630**	**922**
	Parcel, U.S. Postal Service or courier	2,292	192	171	914
	Truck and rail	14,288	21,165	24,274	1,116
	Truck and water	1,911	(S)	(S)	1,805
	Rail and water	(S)	(S)	(S)	(S)
	Other multiple modes	160	(S)	(S)	(S)
	Other and unknown modes	**8,368**	**10,222**	**2,539**	**96**

See footnotes at end of table.

Table 11.
Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and mode of transportation	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)	Average miles per shipment
312	**Beverage and Tobacco Product Manufacturing**				
	Total	**129,804**	**143,530**	**42,063**	**227**
	Single modes	**123,765**	**140,112**	**36,818**	**129**
	Truck[2]	121,817	138,357	34,559	125
	For-hire truck	63,698	76,653	27,904	452
	Private truck	58,119	61,704	6,655	42
	Rail	1,765	1,714	2,199	1,108
	Water	19	16	(S)	(S)
	Shallow draft	(S)	(S)	(S)	(S)
	Great Lakes	–	–	–	–
	Deep draft	12	13	(S)	(S)
	Air (includes truck and air)	(S)	(S)	(S)	2,459
	Pipeline[3]	–	–	–	–
	Multiple modes	**5,368**	**2,623**	**4,903**	**1,006**
	Parcel, U.S. Postal Service or courier	715	32	32	964
	Truck and rail	4,279	2,191	3,801	1,878
	Truck and water	361	385	1,042	2,383
	Rail and water	(S)	(S)	(S)	(S)
	Other multiple modes	8	(S)	(S)	(S)
	Other and unknown modes	**671**	**795**	**341**	**(S)**
313	**Textile Mills**				
	Total	**35,936**	**8,989**	**4,133**	**811**
	Single modes	**33,139**	**8,673**	**3,753**	**570**
	Truck[2]	32,646	8,513	3,718	560
	For-hire truck	21,351	5,095	3,224	781
	Private truck	11,295	3,417	494	130
	Rail	271	149	29	380
	Water	–	–	–	–
	Shallow draft	–	–	–	–
	Great Lakes	–	–	–	–
	Deep draft	–	–	–	–
	Air (includes truck and air)	219	5	6	1,641
	Pipeline[3]	2	(S)	(S)	(S)
	Multiple modes	**2,458**	**250**	**339**	**1,000**
	Parcel, U.S. Postal Service or courier	1,913	58	55	998
	Truck and rail	118	44	102	1,989
	Truck and water	401	124	179	1,308
	Rail and water	–	–	–	–
	Other multiple modes	(S)	(S)	(S)	(S)
	Other and unknown modes	**339**	**66**	**41**	**397**

See footnotes at end of table.

Table 11.
Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and mode of transportation	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)	Average miles per shipment
314	**Textile Product Mills**				
	Total	**28,448**	**7,022**	**3,131**	**854**
	Single modes	**24,096**	**6,522**	**2,798**	**647**
	Truck[2]	23,887	6,505	2,774	592
	For-hire truck	14,063	3,034	2,447	982
	Private truck	9,824	3,471	328	62
	Rail	(S)	(S)	(S)	(S)
	Water	(S)	(S)	(S)	(S)
	Shallow draft	(S)	(S)	(S)	(S)
	Great Lakes	–	–	–	–
	Deep draft	–	–	–	–
	Air (includes truck and air)	204	10	(S)	1,159
	Pipeline[3]	–	–	–	–
	Multiple modes	**3,262**	**179**	**176**	**1,010**
	Parcel, U.S. Postal Service or courier	3,199	160	159	1,010
	Truck and rail	42	12	(S)	(S)
	Truck and water	21	6	8	2,192
	Rail and water	–	–	–	–
	Other multiple modes	–	–	–	–
	Other and unknown modes	**1,090**	**322**	**(S)**	**(S)**
315	**Apparel Manufacturing**				
	Total	**24,381**	**1,463**	**1,400**	**1,224**
	Single modes	**15,794**	**1,210**	**1,152**	**1,073**
	Truck[2]	15,426	1,172	1,070	1,027
	For-hire truck	12,015	985	1,053	1,280
	Private truck	3,410	187	16	155
	Rail	–	–	–	–
	Water	–	–	–	–
	Shallow draft	–	–	–	–
	Great Lakes	–	–	–	–
	Deep draft	–	–	–	–
	Air (includes truck and air)	368	(S)	(S)	1,747
	Pipeline[3]	–	–	–	–
	Multiple modes	**6,813**	**179**	**212**	**1,284**
	Parcel, U.S. Postal Service or courier	6,554	162	197	1,282
	Truck and rail	(S)	(Z)	(Z)	(S)
	Truck and water	246	14	13	2,177
	Rail and water	–	–	–	–
	Other multiple modes	(S)	(S)	(S)	(S)
	Other and unknown modes	**(S)**	**(S)**	**(S)**	**(S)**

See footnotes at end of table.

Table 11.
Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and mode of transportation	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)	Average miles per shipment
316	**Leather and Allied Product Manufacturing**				
	Total	**5,441**	**636**	**789**	**1,118**
	Single modes	**2,919**	**402**	**435**	**1,086**
	Truck[2]	2,819	373	403	1,032
	For-hire truck	2,313	337	398	1,109
	Private truck	505	35	5	564
	Rail	72	(S)	(S)	2,328
	Water	–	–	–	–
	Shallow draft	–	–	–	–
	Great Lakes	–	–	–	–
	Deep draft	–	–	–	–
	Air (includes truck and air)	28	1	2	2,667
	Pipeline[3]	–	–	–	–
	Multiple modes	**2,409**	**201**	**330**	**1,126**
	Parcel, U.S. Postal Service or courier	2,060	59	66	1,125
	Truck and rail	335	142	263	1,936
	Truck and water	10	(Z)	(S)	(S)
	Rail and water	(S)	(S)	(S)	(S)
	Other multiple modes	3	(S)	(S)	(S)
	Other and unknown modes	**(S)**	**(S)**	**(S)**	**545**
321	**Wood Product Manufacturing**				
	Total	**100,923**	**218,834**	**78,742**	**343**
	Single modes	**95,156**	**206,782**	**66,039**	**242**
	Truck[2]	89,646	191,515	46,750	229
	For-hire truck	56,463	111,495	38,050	482
	Private truck	33,183	80,020	8,700	77
	Rail	5,422	14,877	19,127	1,254
	Water	66	(S)	(S)	(S)
	Shallow draft	(S)	(S)	(S)	110
	Great Lakes	–	–	–	–
	Deep draft	64	(S)	(S)	(S)
	Air (includes truck and air)	24	(S)	(S)	1,883
	Pipeline[3]	–	–	–	–
	Multiple modes	**4,169**	**8,681**	**11,703**	**914**
	Parcel, U.S. Postal Service or courier	1,057	69	58	894
	Truck and rail	2,899	7,088	10,939	1,417
	Truck and water	186	(S)	608	1,704
	Rail and water	13	12	(S)	4,501
	Other multiple modes	14	14	(S)	3,258
	Other and unknown modes	**1,597**	**3,371**	**1,000**	**105**

See footnotes at end of table.

Table 11.
Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and mode of transportation	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)	Average miles per shipment
322	**Paper Manufacturing**				
	Total	**174,780**	**166,472**	**89,418**	**494**
	Single modes	**163,710**	**154,965**	**77,069**	**344**
	Truck[2]	147,657	127,716	54,061	330
	For-hire truck	119,892	102,683	50,366	482
	Private truck	27,766	25,033	3,695	83
	Rail	15,558	26,809	22,888	874
	Water	405	433	(S)	(S)
	Shallow draft	359	374	31	(S)
	Great Lakes	–	–	–	–
	Deep draft	(S)	(S)	(S)	1,122
	Air (includes truck and air)	89	8	9	1,197
	Pipeline[3]	–	–	–	–
	Multiple modes	**9,862**	**10,466**	**11,747**	**859**
	Parcel, U.S. Postal Service or courier	2,530	193	155	840
	Truck and rail	6,723	9,536	11,043	1,432
	Truck and water	422	388	380	1,317
	Rail and water	17	(S)	28	(S)
	Other multiple modes	170	310	141	1,721
	Other and unknown modes	**1,207**	**1,041**	**602**	**526**
323	**Printing and Related Support Activities**				
	Total	**98,848**	**33,661**	**15,936**	**791**
	Single modes	**71,198**	**31,177**	**14,332**	**255**
	Truck[2]	70,329	30,775	13,812	216
	For-hire truck	47,908	24,083	12,850	592
	Private truck	22,421	6,692	962	38
	Rail	258	348	443	933
	Water	1	(Z)	(S)	(S)
	Shallow draft	–	–	–	–
	Great Lakes	–	–	–	–
	Deep draft	1	(Z)	(S)	(S)
	Air (includes truck and air)	609	54	78	1,274
	Pipeline[3]	–	–	–	–
	Multiple modes	**24,219**	**1,503**	**1,339**	**955**
	Parcel, U.S. Postal Service or courier	23,797	1,268	872	955
	Truck and rail	350	217	397	1,066
	Truck and water	57	(S)	(S)	4,833
	Rail and water	–	–	–	–
	Other multiple modes	(S)	(S)	(S)	(S)
	Other and unknown modes	**3,431**	**982**	**264**	**84**

See footnotes at end of table.

Table 11.
Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and mode of transportation	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)	Average miles per shipment
324	**Petroleum and Coal Products Manufacturing**				
	Total	**608,090**	**1,415,099**	**207,148**	**222**
	Single modes	**547,371**	**1,294,782**	**171,650**	**134**
	Truck[2]	133,904	564,884	57,716	121
	For-hire truck	79,054	339,064	43,594	172
	Private truck	54,850	225,819	14,121	56
	Rail	31,112	73,264	42,846	659
	Water	51,921	127,373	35,027	325
	Shallow draft	40,886	105,779	17,164	144
	Great Lakes	–	–	–	–
	Deep draft	11,036	21,594	17,863	813
	Air (includes truck and air)	(S)	(S)	(S)	810
	Pipeline[3]	330,392	529,241	(S)	(S)
	Multiple modes	**57,434**	**99,166**	**34,863**	**857**
	Parcel, U.S. Postal Service or courier	(S)	(S)	(S)	871
	Truck and rail	2,999	5,087	2,534	665
	Truck and water	20,513	32,308	10,695	(S)
	Rail and water	5,512	12,909	7,277	1,139
	Other multiple modes	27,687	48,803	14,306	242
	Other and unknown modes	**(S)**	**21,151**	**635**	**(S)**
325	**Chemical Manufacturing**				
	Total	**713,674**	**594,262**	**279,917**	**847**
	Single modes	**619,876**	**538,420**	**235,109**	**550**
	Truck[2]	441,940	307,527	97,670	485
	For-hire truck	376,585	194,310	83,566	644
	Private truck	65,355	113,216	14,104	131
	Rail	119,862	147,272	117,810	810
	Water	16,379	26,074	14,522	747
	Shallow draft	10,979	18,565	7,603	359
	Great Lakes	–	–	–	–
	Deep draft	(S)	7,509	(S)	1,376
	Air (includes truck and air)	10,510	202	336	1,209
	Pipeline[3]	31,186	57,346	(S)	(S)
	Multiple modes	**87,341**	**50,338**	**42,435**	**1,100**
	Parcel, U.S. Postal Service or courier	48,376	586	543	1,096
	Truck and rail	23,618	25,721	28,099	1,286
	Truck and water	3,554	4,401	3,374	2,699
	Rail and water	4,557	3,948	2,472	1,774
	Other multiple modes	7,237	15,682	7,947	697
	Other and unknown modes	**6,458**	**5,504**	**2,374**	**464**

See footnotes at end of table.

Table 11.
Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and mode of transportation	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)	Average miles per shipment
326	**Plastics and Rubber Products Manufacturing**				
	Total	**209,268**	**66,753**	**37,394**	**679**
	Single modes	**194,055**	**63,351**	**34,025**	**510**
	Truck[2]	191,748	62,791	33,092	500
	For-hire truck	153,103	49,903	30,520	680
	Private truck	38,646	12,889	2,571	133
	Rail	1,344	511	878	1,533
	Water	4	1	(S)	(S)
	Shallow draft	–	–	–	–
	Great Lakes	–	–	–	–
	Deep draft	4	1	(S)	(S)
	Air (includes truck and air)	959	47	54	1,178
	Pipeline[3]	–	–	–	–
	Multiple modes	**12,532**	**1,480**	**2,226**	**986**
	Parcel, U.S. Postal Service or courier	9,724	423	401	979
	Truck and rail	2,140	894	1,563	1,562
	Truck and water	607	151	212	2,011
	Rail and water	11	(S)	13	(S)
	Other multiple modes	49	8	36	4,486
	Other and unknown modes	**2,682**	**1,922**	**(S)**	**432**
327	**Nonmetallic Mineral Product Manufacturing**				
	Total	**124,713**	**1,060,926**	**98,086**	**170**
	Single modes	**117,140**	**1,035,039**	**90,348**	**108**
	Truck[2]	113,567	992,410	72,659	102
	For-hire truck	60,095	228,680	47,100	330
	Private truck	53,473	763,730	25,559	41
	Rail	2,325	34,912	14,160	390
	Water	624	7,653	3,433	1,529
	Shallow draft	407	5,971	2,496	423
	Great Lakes	136	1,393	474	361
	Deep draft	82	289	462	1,937
	Air (includes truck and air)	623	64	(S)	1,404
	Pipeline[3]	–	–	–	–
	Multiple modes	**5,559**	**12,611**	**6,729**	**966**
	Parcel, U.S. Postal Service or courier	3,299	101	98	969
	Truck and rail	1,598	8,086	4,649	720
	Truck and water	217	1,247	702	1,706
	Rail and water	26	(S)	28	(S)
	Other multiple modes	419	3,140	1,253	2,646
	Other and unknown modes	**2,014**	**13,276**	**1,009**	**88**

See footnotes at end of table.

Table 11.
Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and mode of transportation	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)	Average miles per shipment
331	**Primary Metal Manufacturing**				
	Total	**251,412**	**201,339**	**98,318**	**545**
	Single modes	**223,545**	**176,585**	**75,260**	**440**
	Truck[2]	188,138	130,355	47,336	423
	For-hire truck	158,586	106,802	43,052	524
	Private truck	29,552	23,553	4,283	130
	Rail	32,755	43,787	25,969	578
	Water	1,478	2,430	1,942	844
	Shallow draft	1,470	2,418	1,907	774
	Great Lakes	–	–	–	–
	Deep draft	(S)	(S)	(S)	(S)
	Air (includes truck and air)	1,174	12	13	1,248
	Pipeline[3]	–	–	–	–
	Multiple modes	**25,186**	**22,833**	**22,507**	**865**
	Parcel, U.S. Postal Service or courier	6,243	84	73	867
	Truck and rail	15,753	17,464	15,433	787
	Truck and water	2,378	(S)	(S)	1,194
	Rail and water	296	1,108	1,277	1,157
	Other multiple modes	515	718	772	1,111
	Other and unknown modes	**2,682**	**1,922**	**552**	**364**
332	**Fabricated Metal Product Manufacturing**				
	Total	**338,290**	**118,350**	**44,620**	**596**
	Single modes	**288,155**	**114,457**	**41,828**	**394**
	Truck[2]	280,823	110,526	38,473	376
	For-hire truck	198,881	73,419	33,976	704
	Private truck	81,942	37,107	4,497	72
	Rail	3,069	3,753	3,214	843
	Water	(S)	(S)	(S)	(S)
	Shallow draft	(S)	(S)	(S)	1,731
	Great Lakes	–	–	–	–
	Deep draft	(S)	(S)	(S)	(S)
	Air (includes truck and air)	4,213	(S)	137	1,283
	Pipeline[3]	–	–	–	–
	Multiple modes	**44,509**	**1,886**	**1,987**	**910**
	Parcel, U.S. Postal Service or courier	42,238	786	687	907
	Truck and rail	1,502	920	864	1,248
	Truck and water	660	156	336	2,917
	Rail and water	(S)	16	36	(S)
	Other multiple modes	(S)	(S)	(S)	4,274
	Other and unknown modes	**5,626**	**2,007**	**804**	**185**

See footnotes at end of table.

Table 11.
Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and mode of transportation	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)	Average miles per shipment
333	**Machinery Manufacturing**				
	Total	**343,262**	**40,523**	**31,565**	**917**
	Single modes	**268,758**	**37,243**	**27,712**	**712**
	Truck[2]	256,275	36,584	26,929	662
	For-hire truck	215,562	29,605	24,956	843
	Private truck	40,713	6,979	1,973	150
	Rail	5,169	435	478	1,144
	Water	(S)	(S)	(S)	(S)
	Shallow draft	–	–	–	–
	Great Lakes	–	–	–	–
	Deep draft	(S)	(S)	(S)	(S)
	Air (includes truck and air)	7,314	224	305	1,213
	Pipeline[3]	–	–	–	–
	Multiple modes	**65,345**	**2,169**	**3,025**	**1,015**
	Parcel, U.S. Postal Service or courier	53,065	847	787	1,012
	Truck and rail	8,808	1,023	1,439	1,597
	Truck and water	3,109	242	684	3,052
	Rail and water	119	(S)	(S)	2,487
	Other multiple modes	(S)	(S)	(S)	2,937
	Other and unknown modes	**9,159**	**1,111**	**829**	**389**
334	**Computer and Electronic Product Manufacturing**				
	Total	**389,399**	**5,416**	**4,442**	**1,205**
	Single modes	**226,039**	**3,879**	**2,902**	**990**
	Truck[2]	168,491	3,647	2,624	756
	For-hire truck	132,618	2,968	2,497	964
	Private truck	35,873	680	128	147
	Rail	111	(S)	(S)	(S)
	Water	–	–	–	–
	Shallow draft	–	–	–	–
	Great Lakes	–	–	–	–
	Deep draft	–	–	–	–
	Air (includes truck and air)	57,438	227	270	1,381
	Pipeline[3]	–	–	–	–
	Multiple modes	**152,831**	**742**	**911**	**1,255**
	Parcel, U.S. Postal Service or courier	151,361	699	816	1,257
	Truck and rail	855	25	47	1,447
	Truck and water	601	17	47	(S)
	Rail and water	(S)	(S)	(S)	(S)
	Other multiple modes	(S)	(S)	(S)	(S)
	Other and unknown modes	**10,528**	**795**	**629**	**774**

See footnotes at end of table.

Table 11.
Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and mode of transportation	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)	Average miles per shipment
335	**Electrical Equipment, Appliance, and Component Manufacturing**				
	Total	**128,868**	**18,771**	**15,436**	**938**
	Single modes	**103,517**	**16,682**	**13,019**	**843**
	Truck[2]	100,064	16,277	12,656	810
	For-hire truck	86,848	13,915	11,657	884
	Private truck	13,217	2,361	999	267
	Rail	(S)	(S)	(S)	1,533
	Water	(S)	(S)	(S)	1,910
	Shallow draft	(S)	(S)	(S)	(S)
	Great Lakes	–	–	–	–
	Deep draft	(S)	(S)	(S)	(S)
	Air (includes truck and air)	2,645	(S)	(S)	1,326
	Pipeline[3]	–	–	–	–
	Multiple modes	**22,000**	**1,006**	**1,515**	**1,064**
	Parcel, U.S. Postal Service or courier	19,781	365	375	1,059
	Truck and rail	1,968	591	992	1,874
	Truck and water	247	49	145	3,954
	Rail and water	(S)	(S)	(S)	(S)
	Other multiple modes	–	–	–	–
	Other and unknown modes	**3,351**	**1,083**	**902**	**(S)**
336	**Transportation Equipment Manufacturing**				
	Total	**715,294**	**94,023**	**45,264**	**801**
	Single modes	**564,368**	**80,893**	**35,156**	**627**
	Truck[2]	460,709	74,527	29,193	535
	For-hire truck	342,319	52,840	25,108	705
	Private truck	118,389	21,687	4,085	153
	Rail	40,178	5,777	5,338	1,145
	Water	2,939	384	384	(S)
	Shallow draft	2,373	382	383	(S)
	Great Lakes	–	–	–	–
	Deep draft	566	(S)	(S)	669
	Air (includes truck and air)	60,543	205	242	1,302
	Pipeline[3]	–	–	–	–
	Multiple modes	**86,361**	**5,887**	**7,121**	**1,033**
	Parcel, U.S. Postal Service or courier	41,294	349	330	1,018
	Truck and rail	43,640	5,414	6,419	1,338
	Truck and water	1,192	109	271	2,802
	Rail and water	(S)	(S)	(S)	8,922
	Other multiple modes	(S)	(S)	(S)	5,870
	Other and unknown modes	**64,565**	**7,243**	**2,987**	**315**

See footnotes at end of table.

Table 11.
Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and mode of transportation	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)	Average miles per shipment
337	**Furniture and Related Product Manufacturing**				
	Total	**83,494**	**18,700**	**11,480**	**715**
	Single modes	**78,349**	**18,152**	**10,855**	**579**
	Truck[2]	78,099	18,115	10,808	576
	For-hire truck	53,089	13,039	9,981	810
	Private truck	25,010	5,076	826	177
	Rail	158	29	30	1,321
	Water	(S)	(S)	(Z)	(S)
	Shallow draft	–	–	–	–
	Great Lakes	–	–	–	–
	Deep draft	(S)	(S)	(Z)	(S)
	Air (includes truck and air)	89	7	(S)	1,474
	Pipeline[3]	–	–	–	–
	Multiple modes	**4,307**	**391**	**520**	**952**
	Parcel, U.S. Postal Service or courier	3,850	281	280	946
	Truck and rail	317	77	89	1,297
	Truck and water	128	32	139	4,184
	Rail and water	(S)	(S)	(S)	(S)
	Other multiple modes	10	2	(S)	5,952
	Other and unknown modes	**838**	**158**	**105**	**465**
339	**Miscellaneous Manufacturing**				
	Total	**144,279**	**10,941**	**9,350**	**1,017**
	Single modes	**79,053**	**9,192**	**7,504**	**755**
	Truck[2]	70,904	8,974	7,239	567
	For-hire truck	58,604	7,165	6,850	901
	Private truck	12,300	1,809	389	84
	Rail	308	(S)	(S)	1,268
	Water	(S)	(S)	(S)	(S)
	Shallow draft	(S)	(S)	(S)	(S)
	Great Lakes	–	–	–	–
	Deep draft	–	–	–	–
	Air (includes truck and air)	7,836	123	176	1,414
	Pipeline[3]	–	–	–	–
	Multiple modes	**63,047**	**1,460**	**1,648**	**1,085**
	Parcel, U.S. Postal Service or courier	61,817	870	899	1,085
	Truck and rail	630	(S)	(S)	1,458
	Truck and water	505	77	137	2,388
	Rail and water	–	–	–	–
	Other multiple modes	(S)	3	(S)	(S)
	Other and unknown modes	**2,179**	**288**	**198**	**233**

See footnotes at end of table.

Table 11.
Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and mode of transportation	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)	Average miles per shipment
4231	**Motor Vehicle and Motor Vehicle Parts and Supplies Merchant Wholesalers**				
	Total	**503,333**	**81,203**	**29,489**	**532**
	Single modes	**423,180**	**73,983**	**24,587**	**256**
	Truck[2]	388,166	70,972	21,270	236
	For-hire truck	219,435	28,679	17,691	675
	Private truck	168,731	42,293	3,579	46
	Rail	(S)	2,852	(S)	950
	Water	(S)	(S)	(S)	(S)
	Shallow draft	–	–	–	–
	Great Lakes	–	–	–	–
	Deep draft	(S)	(S)	(S)	(S)
	Air (includes truck and air)	5,221	152	185	1,170
	Pipeline[3]	–	–	–	–
	Multiple modes	**55,559**	**3,684**	**4,062**	**1,110**
	Parcel, U.S. Postal Service or courier	47,673	2,265	1,714	1,110
	Truck and rail	7,216	1,278	2,130	1,063
	Truck and water	658	141	216	2,766
	Rail and water	–	–	–	–
	Other multiple modes	(S)	(S)	(S)	(S)
	Other and unknown modes	**24,594**	**3,536**	**839**	**78**
4232	**Furniture and Home Furnishing Merchant Wholesalers**				
	Total	**74,305**	**23,358**	**12,730**	**663**
	Single modes	**60,954**	**20,933**	**10,520**	**330**
	Truck[2]	60,633	20,845	10,332	327
	For-hire truck	26,322	7,782	8,723	951
	Private truck	34,311	13,063	1,609	83
	Rail	198	71	165	1,055
	Water	6	(S)	(S)	232
	Shallow draft	–	–	–	–
	Great Lakes	–	–	–	–
	Deep draft	6	(S)	(S)	232
	Air (includes truck and air)	(S)	(S)	(S)	1,727
	Pipeline[3]	–	–	–	–
	Multiple modes	**10,234**	**1,199**	**1,370**	**1,043**
	Parcel, U.S. Postal Service or courier	9,657	946	972	1,043
	Truck and rail	383	157	241	904
	Truck and water	156	61	(S)	1,436
	Rail and water	(S)	(S)	(S)	(S)
	Other multiple modes	(S)	(S)	(S)	(S)
	Other and unknown modes	**3,117**	**1,226**	**(S)**	**172**

See footnotes at end of table.

Table 11.
Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and mode of transportation	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)	Average miles per shipment
4233	**Lumber and Other Construction Materials Merchant Wholesalers**				
	Total	**153,528**	**498,825**	**43,488**	**141**
	Single modes	**144,605**	**483,232**	**36,418**	**101**
	Truck[2]	143,970	481,804	35,009	99
	For-hire truck	36,709	190,024	23,082	316
	Private truck	107,261	291,780	11,927	55
	Rail	489	1,396	1,388	(S)
	Water	39	18	5	453
	Shallow draft	–	–	–	–
	Great Lakes	–	–	–	–
	Deep draft	39	18	5	453
	Air (includes truck and air)	107	13	16	1,898
	Pipeline[3]	–	–	–	–
	Multiple modes	**4,180**	**(S)**	**6,438**	**675**
	Parcel, U.S. Postal Service or courier	2,349	172	90	670
	Truck and rail	1,120	(S)	(S)	(S)
	Truck and water	696	765	1,818	1,710
	Rail and water	–	–	–	–
	Other multiple modes	16	11	(S)	(S)
	Other and unknown modes	**4,743**	**8,701**	**633**	**40**
4234	**Professional and Commercial Equipment and Supplies Merchant Wholesalers**				
	Total	**397,976**	**21,817**	**9,088**	**716**
	Single modes	**201,761**	**17,050**	**6,462**	**440**
	Truck[2]	181,535	16,842	6,112	338
	For-hire truck	106,636	6,702	5,256	789
	Private truck	74,899	10,140	856	69
	Rail	(S)	(S)	(S)	(S)
	Water	8	1	(Z)	164
	Shallow draft	–	–	–	–
	Great Lakes	–	–	–	–
	Deep draft	8	1	(Z)	164
	Air (includes truck and air)	20,194	207	349	1,126
	Pipeline[3]	–	–	–	–
	Multiple modes	**185,772**	**3,470**	**2,371**	**813**
	Parcel, U.S. Postal Service or courier	184,657	3,429	2,246	812
	Truck and rail	95	(S)	11	1,491
	Truck and water	(S)	(S)	(S)	(S)
	Rail and water	–	–	–	–
	Other multiple modes	(S)	(S)	(S)	(S)
	Other and unknown modes	**10,442**	**1,297**	**255**	**109**

See footnotes at end of table.

Table 11.
Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and mode of transportation	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)	Average miles per shipment
4235	**Metal and Mineral (Except Petroleum) Merchant Wholesalers**				
	Total	**191,673**	**182,041**	**43,016**	**192**
	Single modes	**180,193**	**173,197**	**34,760**	**132**
	Truck[2]	176,011	130,219	25,696	130
	For-hire truck	89,986	70,664	19,816	353
	Private truck	86,026	59,554	5,880	65
	Rail	2,017	5,231	(S)	341
	Water	1,456	37,693	6,236	(S)
	Shallow draft	1,445	37,690	6,233	157
	Great Lakes	–	–	–	–
	Deep draft	11	3	(S)	1,190
	Air (includes truck and air)	(S)	(S)	(S)	912
	Pipeline[3]	–	–	–	–
	Multiple modes	**6,815**	**6,793**	**7,876**	**543**
	Parcel, U.S. Postal Service or courier	4,478	357	161	540
	Truck and rail	1,468	1,014	(S)	863
	Truck and water	(S)	(S)	(S)	1,730
	Rail and water	176	(S)	(S)	1,168
	Other multiple modes	94	965	1,820	2,156
	Other and unknown modes	**4,665**	**2,051**	**381**	**37**
4236	**Electrical and Electronic Goods Merchant Wholesalers**				
	Total	**338,597**	**24,469**	**11,663**	**474**
	Single modes	**209,655**	**19,401**	**9,111**	**208**
	Truck[2]	179,186	18,532	7,637	157
	For-hire truck	106,395	9,700	7,124	660
	Private truck	72,791	8,832	513	32
	Rail	(S)	715	1,242	(S)
	Water	(S)	7	(S)	(S)
	Shallow draft	–	–	–	–
	Great Lakes	–	–	–	–
	Deep draft	(S)	7	(S)	(S)
	Air (includes truck and air)	24,979	148	228	1,296
	Pipeline[3]	–	–	–	–
	Multiple modes	**111,937**	**2,198**	**2,219**	**822**
	Parcel, U.S. Postal Service or courier	109,160	1,887	1,510	822
	Truck and rail	(S)	192	(S)	1,584
	Truck and water	(S)	120	(S)	(S)
	Rail and water	–	–	–	–
	Other multiple modes	(S)	(S)	(S)	(S)
	Other and unknown modes	**17,004**	**2,870**	**333**	**50**

See footnotes at end of table.

Table 11.
Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and mode of transportation	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)	Average miles per shipment
4237	**Hardware and Plumbing and Heating Equipment and Supplies Merchant Wholesalers**				
	Total	**119,464**	**28,474**	**5,563**	**213**
	Single modes	**91,740**	**24,036**	**4,468**	**109**
	Truck[2]	91,046	23,979	4,365	103
	For-hire truck	26,982	6,911	3,040	484
	Private truck	64,065	17,069	1,325	40
	Rail	183	22	30	(S)
	Water	5	1	(S)	1,625
	Shallow draft	–	–	–	–
	Great Lakes	–	–	–	–
	Deep draft	5	1	(S)	1,625
	Air (includes truck and air)	506	(S)	(S)	1,122
	Pipeline[3]	–	–	–	–
	Multiple modes	**18,647**	**812**	**509**	**528**
	Parcel, U.S. Postal Service or courier	18,152	703	383	528
	Truck and rail	328	86	88	(S)
	Truck and water	165	23	39	1,757
	Rail and water	–	–	–	–
	Other multiple modes	(S)	(S)	(S)	382
	Other and unknown modes	**9,077**	**3,625**	**(S)**	**23**
4238	**Machinery, Equipment, and Supplies Merchant Wholesalers**				
	Total	**363,108**	**74,069**	**16,716**	**322**
	Single modes	**240,858**	**66,976**	**14,430**	**141**
	Truck[2]	233,192	66,651	14,249	122
	For-hire truck	113,842	30,176	11,491	482
	Private truck	119,350	36,476	2,758	42
	Rail	(S)	36	15	(S)
	Water	(S)	(S)	(S)	1,291
	Shallow draft	(S)	(S)	(S)	29
	Great Lakes	–	–	–	–
	Deep draft	(S)	(S)	(S)	1,483
	Air (includes truck and air)	6,976	70	80	1,078
	Pipeline[3]	–	–	–	–
	Multiple modes	**106,143**	**2,982**	**1,512**	**477**
	Parcel, U.S. Postal Service or courier	101,963	2,203	1,106	475
	Truck and rail	2,579	(S)	85	1,003
	Truck and water	1,404	(S)	200	2,458
	Rail and water	(S)	(S)	(S)	5,363
	Other multiple modes	(S)	(S)	(S)	(S)
	Other and unknown modes	**16,107**	**4,111**	**774**	**52**

See footnotes at end of table.

Table 11.
Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and mode of transportation	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)	Average miles per shipment
4239	**Miscellaneous Durable Goods Merchant Wholesalers**				
	Total	**210,361**	**426,888**	**93,027**	**911**
	Single modes	**140,167**	**399,440**	**69,188**	**426**
	Truck[2]	125,541	359,428	53,504	397
	For-hire truck	78,198	155,787	39,847	899
	Private truck	47,343	203,641	13,656	69
	Rail	9,375	35,163	13,654	410
	Water	1,251	4,782	1,932	1,242
	Shallow draft	932	3,581	1,733	329
	Great Lakes	–	–	–	–
	Deep draft	(S)	(S)	(S)	(S)
	Air (includes truck and air)	4,000	67	98	1,288
	Pipeline[3]	–	–	–	–
	Multiple modes	**63,751**	**22,601**	**23,254**	**1,138**
	Parcel, U.S. Postal Service or courier	55,202	1,168	1,213	1,138
	Truck and rail	5,175	14,097	10,740	952
	Truck and water	3,028	6,177	(S)	1,447
	Rail and water	(S)	(S)	(S)	(S)
	Other multiple modes	307	(S)	331	(S)
	Other and unknown modes	**6,443**	**4,848**	**585**	**125**
4241	**Paper and Paper Product Merchant Wholesalers**				
	Total	**100,860**	**50,888**	**15,513**	**282**
	Single modes	**84,260**	**45,890**	**12,427**	**179**
	Truck[2]	82,446	41,218	8,988	175
	For-hire truck	22,260	14,547	7,202	707
	Private truck	60,186	26,672	1,786	88
	Rail	(S)	(S)	(S)	720
	Water	3	(Z)	(Z)	200
	Shallow draft	–	–	–	–
	Great Lakes	–	–	–	–
	Deep draft	3	(Z)	(Z)	200
	Air (includes truck and air)	818	21	(S)	1,338
	Pipeline[3]	–	–	–	–
	Multiple modes	**14,367**	**(S)**	**(S)**	**580**
	Parcel, U.S. Postal Service or courier	11,614	948	484	579
	Truck and rail	(S)	(S)	(S)	735
	Truck and water	179	172	186	1,650
	Rail and water	–	–	–	–
	Other multiple modes	–	–	–	–
	Other and unknown modes	**2,233**	**936**	**(S)**	**91**

See footnotes at end of table.

Table 11.
Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and mode of transportation	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)	Average miles per shipment
4242	**Drugs and Druggists' Sundries Merchant Wholesalers**				
	Total	**409,264**	**23,407**	**9,611**	**478**
	Single modes	**257,241**	**21,328**	**8,292**	**229**
	Truck[2]	253,143	21,188	8,119	215
	For-hire truck	182,513	8,696	6,594	413
	Private truck	70,629	12,492	1,525	60
	Rail	(S)	(S)	(S)	948
	Water	(S)	(S)	(S)	224
	Shallow draft	–	–	–	–
	Great Lakes	–	–	–	–
	Deep draft	(S)	(S)	(S)	224
	Air (includes truck and air)	3,987	(S)	(S)	1,212
	Pipeline[3]	(S)	(S)	(S)	(S)
	Multiple modes	**149,575**	**1,649**	**991**	**631**
	Parcel, U.S. Postal Service or courier	149,038	1,587	865	632
	Truck and rail	(S)	(S)	(S)	(S)
	Truck and water	(S)	53	(S)	645
	Rail and water	–	–	–	–
	Other multiple modes	(S)	(S)	(S)	(S)
	Other and unknown modes	**2,448**	**430**	**328**	**(S)**
4243	**Apparel, Piece Goods, and Notions Merchant Wholesalers**				
	Total	**119,239**	**9,468**	**8,484**	**933**
	Single modes	**67,677**	**7,326**	**6,553**	**931**
	Truck[2]	66,736	7,279	6,494	921
	For-hire truck	53,200	5,502	6,288	1,089
	Private truck	13,535	1,777	206	196
	Rail	(S)	(S)	(S)	(S)
	Water	(S)	(S)	(S)	(S)
	Shallow draft	(S)	(S)	(S)	(S)
	Great Lakes	–	–	–	–
	Deep draft	4	(S)	(S)	(S)
	Air (includes truck and air)	833	26	38	1,182
	Pipeline[3]	–	–	–	–
	Multiple modes	**47,558**	**1,691**	**1,685**	**963**
	Parcel, U.S. Postal Service or courier	45,997	1,564	1,414	962
	Truck and rail	941	90	186	1,984
	Truck and water	(S)	(S)	(S)	1,835
	Rail and water	–	–	–	–
	Other multiple modes	–	–	–	–
	Other and unknown modes	**4,005**	**451**	**245**	**222**

See footnotes at end of table.

Table 11.
Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and mode of transportation	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)	Average miles per shipment
4244	**Grocery and Related Product Wholesalers**				
	Total	**567,732**	**321,626**	**81,594**	**109**
	Single modes	**557,533**	**316,565**	**73,268**	**85**
	Truck[2]	554,608	314,826	70,205	83
	For-hire truck	115,429	75,691	48,540	449
	Private truck	439,179	239,135	21,665	60
	Rail	1,579	1,401	2,589	826
	Water	268	140	120	(S)
	Shallow draft	(S)	(S)	(S)	(S)
	Great Lakes	–	–	–	–
	Deep draft	231	101	119	741
	Air (includes truck and air)	1,078	197	(S)	1,610
	Pipeline[3]	–	–	–	–
	Multiple modes	**6,036**	**2,515**	**(S)**	**1,030**
	Parcel, U.S. Postal Service or courier	2,399	211	155	1,016
	Truck and rail	1,041	742	1,174	1,095
	Truck and water	2,548	1,541	(S)	1,601
	Rail and water	24	16	52	4,050
	Other multiple modes	(S)	(S)	(S)	(S)
	Other and unknown modes	**4,164**	**2,546**	**768**	**76**
4245	**Farm Product Raw Materials Merchant Wholesalers**				
	Total	**143,358**	**623,826**	**240,207**	**145**
	Single modes	**126,167**	**567,812**	**205,008**	**116**
	Truck[2]	79,392	312,891	30,560	96
	For-hire truck	42,078	152,130	22,222	204
	Private truck	37,314	160,761	8,338	47
	Rail	30,037	166,199	114,955	788
	Water	16,436	87,688	59,491	992
	Shallow draft	14,519	79,266	58,737	1,006
	Great Lakes	(S)	(S)	(S)	(S)
	Deep draft	1,820	7,993	(S)	(S)
	Air (includes truck and air)	(S)	(S)	(S)	1,300
	Pipeline[3]	(S)	(S)	(S)	(S)
	Multiple modes	**14,294**	**44,931**	**34,491**	**721**
	Parcel, U.S. Postal Service or courier	798	25	(S)	631
	Truck and rail	8,062	16,211	17,986	1,076
	Truck and water	1,461	6,859	(S)	(S)
	Rail and water	1,425	9,586	4,378	534
	Other multiple modes	2,547	12,249	9,554	865
	Other and unknown modes	**2,896**	**(S)**	**708**	**(S)**

See footnotes at end of table.

Table 11.
Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and mode of transportation	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)	Average miles per shipment
4246	**Chemical and Allied Products Merchant Wholesalers**				
	Total	**119,923**	**119,971**	**31,344**	**237**
	Single modes	**107,399**	**115,573**	**27,125**	**140**
	Truck[2]	104,847	108,295	22,873	136
	For-hire truck	51,867	37,005	15,729	465
	Private truck	52,980	71,290	7,144	50
	Rail	1,924	(S)	(S)	509
	Water	224	398	(S)	(S)
	Shallow draft	(S)	(S)	(S)	77
	Great Lakes	–	–	–	–
	Deep draft	(S)	126	(S)	1,243
	Air (includes truck and air)	404	31	(S)	1,278
	Pipeline[3]	–	–	–	–
	Multiple modes	**10,574**	**2,442**	**3,290**	**626**
	Parcel, U.S. Postal Service or courier	7,894	393	204	620
	Truck and rail	2,090	1,847	2,372	1,316
	Truck and water	(S)	98	(S)	2,517
	Rail and water	30	14	64	4,047
	Other multiple modes	(S)	90	(S)	5,964
	Other and unknown modes	**1,951**	**1,955**	**929**	**53**
4247	**Petroleum and Petroleum Products Merchant Wholesalers**				
	Total	**610,759**	**846,636**	**52,112**	**70**
	Single modes	**599,544**	**828,201**	**48,505**	**50**
	Truck[2]	561,488	765,001	40,125	48
	For-hire truck	216,531	302,007	20,306	88
	Private truck	344,956	462,994	19,819	39
	Rail	5,877	6,047	5,138	582
	Water	14,216	28,589	2,042	362
	Shallow draft	13,174	26,683	731	(S)
	Great Lakes	(S)	(S)	(S)	(S)
	Deep draft	(S)	(S)	(S)	908
	Air (includes truck and air)	(S)	(S)	(S)	465
	Pipeline[3]	17,615	28,256	(S)	(S)
	Multiple modes	**6,968**	**13,253**	**3,006**	**380**
	Parcel, U.S. Postal Service or courier	(S)	(S)	(S)	378
	Truck and rail	(S)	(S)	(S)	876
	Truck and water	1,185	2,616	(S)	(S)
	Rail and water	(S)	(S)	(S)	419
	Other multiple modes	3,558	8,918	353	39
	Other and unknown modes	**4,248**	**5,182**	**601**	**(S)**

See footnotes at end of table.

Table 11.
Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and mode of transportation	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)	Average miles per shipment
4248	**Beer, Wine, and Distilled Alcoholic Beverages Merchant Wholesalers**				
	Total	**100,154**	**55,667**	**3,194**	**40**
	Single modes	**99,172**	**55,306**	**2,765**	**39**
	Truck[2]	99,035	55,194	2,614	39
	For-hire truck	8,232	2,588	1,127	216
	Private truck	90,804	52,606	1,487	32
	Rail	128	110	150	(S)
	Water	(S)	(S)	(S)	217
	Shallow draft	–	–	–	–
	Great Lakes	–	–	–	–
	Deep draft	(S)	(S)	(S)	217
	Air (includes truck and air)	(S)	(S)	1	1,807
	Pipeline[3]	–	–	–	–
	Multiple modes	**488**	**232**	**(S)**	**725**
	Parcel, U.S. Postal Service or courier	99	(S)	5	707
	Truck and rail	(S)	(S)	(S)	(S)
	Truck and water	55	(S)	(S)	742
	Rail and water	–	–	–	–
	Other multiple modes	–	–	–	–
	Other and unknown modes	**(S)**	**(S)**	**3**	**(S)**
4249	**Miscellaneous Nondurable Goods Merchant Wholesalers**				
	Total	**216,429**	**192,897**	**60,260**	**481**
	Single modes	**191,547**	**178,768**	**46,863**	**155**
	Truck[2]	186,678	164,086	32,226	148
	For-hire truck	53,127	67,956	23,336	533
	Private truck	133,551	96,130	8,890	64
	Rail	2,958	12,522	12,583	803
	Water	(S)	4	1	210
	Shallow draft	–	–	–	–
	Great Lakes	–	–	–	–
	Deep draft	(S)	4	1	210
	Air (includes truck and air)	1,268	(S)	113	1,637
	Pipeline[3]	630	1,946	(S)	(S)
	Multiple modes	**21,298**	**11,810**	**13,062**	**956**
	Parcel, U.S. Postal Service or courier	17,312	948	876	956
	Truck and rail	2,811	6,370	5,892	952
	Truck and water	858	(S)	(S)	1,654
	Rail and water	(S)	(S)	(S)	(S)
	Other multiple modes				
	Other and unknown modes	**3,585**	**2,319**	**336**	**89**

See footnotes at end of table.

Table 11.
Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and mode of transportation	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)	Average miles per shipment
4541	**Electronic Shopping and Mail-Order Houses**				
	Total	**216,817**	**7,305**	**6,398**	**1,169**
	Single modes	**39,428**	**2,791**	**1,427**	**936**
	Truck[2]	35,015	2,740	1,336	826
	For-hire truck	25,573	1,595	1,220	1,211
	Private truck	9,442	1,146	116	271
	Rail	9	(S)	(S)	(S)
	Water	–	–	–	–
	Shallow draft	–	–	–	–
	Great Lakes	–	–	–	–
	Deep draft	–	–	–	–
	Air (includes truck and air)	4,404	48	91	1,629
	Pipeline[3]	–	–	–	–
	Multiple modes	**170,297**	**4,328**	**4,904**	**1,190**
	Parcel, U.S. Postal Service or courier	170,229	4,320	4,889	1,190
	Truck and rail	(S)	(S)	(S)	(S)
	Truck and water	(S)	(S)	(S)	2,880
	Rail and water	–	–	–	–
	Other multiple modes	–	–	–	–
	Other and unknown modes	**(S)**	**185**	**67**	**699**
45431	**Fuel Dealers**				
	Total	**38,220**	**48,438**	**1,784**	**22**
	Single modes	**37,921**	**48,070**	**1,774**	**22**
	Truck[2]	37,712	47,803	1,772	22
	For-hire truck	(S)	(S)	(S)	(S)
	Private truck	35,920	44,998	1,093	22
	Rail	(S)	(S)	1	(S)
	Water	(S)	(S)	(S)	14
	Shallow draft	(S)	(S)	(S)	(S)
	Great Lakes	–	–	–	–
	Deep draft	(S)	(S)	(S)	(S)
	Air (includes truck and air)	(S)	(S)	(S)	(S)
	Pipeline[3]	–	–	–	–
	Multiple modes	**(S)**	**2**	**(Z)**	**653**
	Parcel, U.S. Postal Service or courier	(S)	1	(Z)	658
	Truck and rail	(S)	(S)	(S)	(S)
	Truck and water	–	–	–	–
	Rail and water	–	–	–	–
	Other multiple modes	–	–	–	–
	Other and unknown modes	**294**	**367**	**10**	**13**

See footnotes at end of table.

Table 11.
Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and mode of transportation	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)	Average miles per shipment
4931	**Warehousing and Storage**				
	Total	**903,398**	**187,219**	**46,335**	**833**
	Single modes	**823,575**	**181,632**	**41,534**	**529**
	Truck[2]	815,197	174,321	37,466	502
	For-hire truck	510,385	82,888	26,290	733
	Private truck	304,812	91,433	11,176	122
	Rail	1,786	2,180	1,430	850
	Water	(S)	(S)	(S)	(S)
	Shallow draft	(S)	(S)	(S)	1,041
	Great Lakes	–	–	–	–
	Deep draft	(S)	(S)	4	(S)
	Air (includes truck and air)	3,919	109	166	1,273
	Pipeline[3]	(S)	(S)	(S)	(S)
	Multiple modes	**74,570**	**3,825**	**3,517**	**941**
	Parcel, U.S. Postal Service or courier	69,236	1,540	1,227	941
	Truck and rail	3,301	1,662	1,590	604
	Truck and water	1,665	(S)	465	1,565
	Rail and water	202	47	112	2,392
	Other multiple modes	166	91	122	2,681
	Other and unknown modes	**5,252**	**1,762**	**(S)**	**599**
5111	**Newspaper, Periodical, Book, and Directory Publishers**				
	Total	**38,082**	**11,892**	**2,279**	**250**
	Single modes	**26,967**	**11,103**	**1,783**	**38**
	Truck[2]	26,672	11,067	1,755	35
	For-hire truck	15,021	4,328	1,550	(S)
	Private truck	11,651	6,739	205	18
	Rail	(S)	(S)	(S)	801
	Water	(S)	(S)	(S)	(S)
	Shallow draft	–	–	–	–
	Great Lakes	–	–	–	–
	Deep draft	(S)	(S)	(S)	(S)
	Air (includes truck and air)	(S)	(S)	18	1,193
	Pipeline[3]	–	–	–	–
	Multiple modes	**10,372**	**537**	**468**	**494**
	Parcel, U.S. Postal Service or courier	9,894	516	443	494
	Truck and rail	425	20	22	680
	Truck and water	(S)	(S)	(S)	1,973
	Rail and water	–	–	–	–
	Other multiple modes	–	–	–	–
	Other and unknown modes	**743**	**252**	**28**	**561**

See footnotes at end of table.

Table 11.
Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and mode of transportation	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)	Average miles per shipment
551114	**Corporate, Subsidiary, and Regional Managing Offices**				
	Total	**428,280**	**250,262**	**80,199**	**784**
	Single modes	**350,317**	**215,392**	**70,355**	**340**
	Truck[2]	287,698	137,265	37,708	307
	For-hire truck	197,447	74,939	32,343	672
	Private truck	90,251	62,326	5,365	91
	Rail	27,012	45,541	29,065	1,292
	Water	2,291	6,299	(S)	489
	Shallow draft	2,158	6,170	(S)	435
	Great Lakes	–	–	–	–
	Deep draft	(S)	(S)	35	608
	Air (includes truck and air)	16,097	(S)	75	901
	Pipeline[3]	17,219	26,157	(S)	(S)
	Multiple modes	**68,259**	**20,900**	**8,869**	**967**
	Parcel, U.S. Postal Service or courier	56,945	914	826	967
	Truck and rail	8,849	3,773	3,282	1,099
	Truck and water	1,224	12,726	4,503	(S)
	Rail and water	(S)	(S)	(S)	(S)
	Other multiple modes	1,076	1,742	149	(S)
	Other and unknown modes	**9,704**	**13,970**	**976**	**(S)**

– Estimate equal to zero.
(S) Estimate did not meet publication standards.
(Z) Estimate is between zero and half the unit shown, thus rounded to zero.

[1] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See "Mileage Calculations" section for additional information.
[2] "Truck" as a single mode includes shipments that were made by only private truck, only for-hire truck, or a combination of private truck and for-hire truck.
[3] Estimates for pipeline exclude shipments of crude petroleum (SCTG 16).

Note: Value-of-shipments estimates have not been adjusted for price changes. Appendix B tables provide estimated measures of sampling variability. The Introduction and appendixes give 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/cfs>.

Table 12.

Shipment Characteristics by Industry and Distance Shipped for the United States: 2007

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and distance shipped	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)
212	**Mining (Except Oil and Gas)**			
	Total	**85,730**	**3,638,118**	**1,057,505**
	Less than 50 miles	28,463	2,126,709	47,781
	50 to 99 miles	9,481	288,840	29,866
	100 to 249 miles	18,856	369,967	105,388
	250 to 499 miles	11,910	266,886	147,664
	500 to 749 miles	4,803	189,422	181,037
	750 to 999 miles	4,476	233,449	286,804
	1,000 to 1,499 miles	4,411	156,318	241,326
	1,500 to 1,999 miles	2,218	5,357	11,301
	2,000 miles or more	1,111	1,170	6,338
311	**Food Manufacturing**			
	Total	**585,676**	**568,950**	**264,425**
	Less than 50 miles	127,799	174,591	5,780
	50 to 99 miles	56,054	64,187	6,309
	100 to 249 miles	100,811	99,948	21,754
	250 to 499 miles	101,761	83,450	40,198
	500 to 749 miles	73,723	59,578	48,462
	750 to 999 miles	45,329	32,247	35,595
	1,000 to 1,499 miles	43,946	32,519	51,889
	1,500 to 1,999 miles	22,703	13,820	30,199
	2,000 miles or more	13,550	8,610	24,239
312	**Beverage and Tobacco Product Manufacturing**			
	Total	**129,804**	**143,530**	**42,063**
	Less than 50 miles	59,337	49,980	1,122
	50 to 99 miles	10,633	19,729	1,915
	100 to 249 miles	19,401	33,379	7,103
	250 to 499 miles	18,806	23,973	10,307
	500 to 749 miles	8,004	6,274	4,869
	750 to 999 miles	4,835	4,527	5,041
	1,000 to 1,499 miles	2,666	2,488	3,441
	1,500 to 1,999 miles	2,670	1,619	3,488
	2,000 miles or more	3,451	1,561	4,777
313	**Textile Mills**			
	Total	**35,936**	**8,989**	**4,133**
	Less than 50 miles	8,725	2,235	63
	50 to 99 miles	3,095	1,086	114
	100 to 249 miles	6,628	1,930	446
	250 to 499 miles	5,620	1,393	639
	500 to 749 miles	4,863	1,089	865
	750 to 999 miles	2,371	505	543
	1,000 to 1,499 miles	2,245	362	530
	1,500 to 1,999 miles	1,090	173	375
	2,000 miles or more	1,299	216	558

See footnotes at end of table.

Table 12.
Shipment Characteristics by Industry and Distance Shipped for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and distance shipped	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)
314	**Textile Product Mills**			
	Total	**28,448**	**7,022**	**3,131**
	Less than 50 miles	9,204	3,210	50
	50 to 99 miles	1,256	387	35
	100 to 249 miles	2,683	541	123
	250 to 499 miles	4,476	907	445
	500 to 749 miles	3,758	779	604
	750 to 999 miles	2,488	482	506
	1,000 to 1,499 miles	1,823	342	484
	1,500 to 1,999 miles	1,542	200	421
	2,000 miles or more	1,217	175	465
315	**Apparel Manufacturing**			
	Total	**24,381**	**1,463**	**1,400**
	Less than 50 miles	4,791	246	5
	50 to 99 miles	1,607	44	4
	100 to 249 miles	2,033	154	33
	250 to 499 miles	2,821	262	123
	500 to 749 miles	2,888	175	132
	750 to 999 miles	2,400	74	78
	1,000 to 1,499 miles	3,059	246	401
	1,500 to 1,999 miles	2,143	86	174
	2,000 miles or more	2,640	(S)	(S)
316	**Leather and Allied Product Manufacturing**			
	Total	**5,441**	**636**	**789**
	Less than 50 miles	376	33	(Z)
	50 to 99 miles	166	8	1
	100 to 249 miles	915	58	14
	250 to 499 miles	803	70	31
	500 to 749 miles	927	81	62
	750 to 999 miles	515	43	45
	1,000 to 1,499 miles	989	272	449
	1,500 to 1,999 miles	403	28	60
	2,000 miles or more	347	(S)	(S)
321	**Wood Product Manufacturing**			
	Total	**100,923**	**218,834**	**78,742**
	Less than 50 miles	25,601	74,336	2,718
	50 to 99 miles	12,174	39,700	4,035
	100 to 249 miles	20,478	44,483	9,879
	250 to 499 miles	16,588	26,978	12,890
	500 to 749 miles	8,257	11,799	9,775
	750 to 999 miles	6,734	7,423	8,725
	1,000 to 1,499 miles	5,150	6,141	10,184
	1,500 to 1,999 miles	3,630	5,125	11,992
	2,000 miles or more	2,312	2,848	8,546

See footnotes at end of table.

Table 12.
Shipment Characteristics by Industry and Distance Shipped for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and distance shipped	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)
322	**Paper Manufacturing**			
	Total	**174,780**	**166,472**	**89,418**
	Less than 50 miles	34,242	32,803	871
	50 to 99 miles	15,036	15,845	1,584
	100 to 249 miles	30,660	31,526	7,416
	250 to 499 miles	36,249	33,899	16,760
	500 to 749 miles	24,114	22,981	18,638
	750 to 999 miles	16,527	15,111	16,899
	1,000 to 1,499 miles	9,283	8,293	13,025
	1,500 to 1,999 miles	6,276	4,575	10,205
	2,000 miles or more	2,393	1,439	4,021
323	**Printing and Related Support Activities**			
	Total	**98,848**	**33,661**	**15,936**
	Less than 50 miles	31,699	8,434	199
	50 to 99 miles	7,552	3,598	377
	100 to 249 miles	14,215	6,268	1,357
	250 to 499 miles	14,137	6,103	2,844
	500 to 749 miles	10,856	3,908	2,991
	750 to 999 miles	6,596	2,063	2,189
	1,000 to 1,499 miles	6,613	1,892	2,707
	1,500 to 1,999 miles	4,107	944	2,027
	2,000 miles or more	3,073	451	1,244
324	**Petroleum and Coal Products Manufacturing**			
	Total	**608,090**	**1,415,099**	**207,148**
	Less than 50 miles	363,900	904,873	16,414
	50 to 99 miles	70,230	139,840	12,975
	100 to 249 miles	86,614	186,136	38,812
	250 to 499 miles	45,393	105,720	46,375
	500 to 749 miles	19,087	37,262	31,461
	750 to 999 miles	11,179	23,992	28,772
	1,000 to 1,499 miles	9,407	14,970	24,677
	1,500 to 1,999 miles	1,828	1,800	5,364
	2,000 miles or more	452	505	(S)
325	**Chemical Manufacturing**			
	Total	**713,674**	**594,262**	**279,917**
	Less than 50 miles	175,854	187,559	4,566
	50 to 99 miles	47,343	61,642	6,347
	100 to 249 miles	93,720	101,947	22,466
	250 to 499 miles	132,462	87,789	43,853
	500 to 749 miles	90,619	55,617	45,924
	750 to 999 miles	63,345	42,703	50,527
	1,000 to 1,499 miles	57,572	40,962	67,503
	1,500 to 1,999 miles	34,579	11,667	26,255
	2,000 miles or more	18,179	4,376	12,476

See footnotes at end of table.

Table 12.
Shipment Characteristics by Industry and Distance Shipped for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and distance shipped	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)
326	**Plastics and Rubber Products Manufacturing**			
	Total	**209,268**	**66,753**	**37,394**
	Less than 50 miles	36,697	12,934	375
	50 to 99 miles	16,197	5,716	563
	100 to 249 miles	35,087	11,698	2,680
	250 to 499 miles	43,457	14,202	6,647
	500 to 749 miles	29,936	9,291	7,130
	750 to 999 miles	17,167	4,991	5,322
	1,000 to 1,499 miles	16,087	4,382	6,345
	1,500 to 1,999 miles	8,416	2,195	4,702
	2,000 miles or more	6,224	1,344	3,630
327	**Nonmetallic Mineral Product Manufacturing**			
	Total	**124,713**	**1,060,926**	**98,086**
	Less than 50 miles	53,721	796,412	14,463
	50 to 99 miles	12,351	82,342	7,915
	100 to 249 miles	21,760	113,384	25,024
	250 to 499 miles	15,117	39,645	18,268
	500 to 749 miles	8,495	16,040	13,028
	750 to 999 miles	4,872	6,039	6,826
	1,000 to 1,499 miles	3,790	4,722	6,979
	1,500 to 1,999 miles	2,364	1,344	2,778
	2,000 miles or more	2,246	998	2,805
331	**Primary Metal Manufacturing**			
	Total	**251,412**	**201,339**	**98,318**
	Less than 50 miles	42,188	38,862	891
	50 to 99 miles	15,632	14,456	1,372
	100 to 249 miles	52,086	50,190	11,952
	250 to 499 miles	61,892	48,507	23,789
	500 to 749 miles	30,133	22,599	18,236
	750 to 999 miles	17,059	12,058	14,351
	1,000 to 1,499 miles	17,125	9,190	14,538
	1,500 to 1,999 miles	8,949	3,941	9,000
	2,000 miles or more	6,349	1,537	4,188
332	**Fabricated Metal Product Manufacturing**			
	Total	**338,290**	**118,350**	**44,620**
	Less than 50 miles	86,011	38,854	966
	50 to 99 miles	25,992	12,576	1,231
	100 to 249 miles	55,925	23,038	5,100
	250 to 499 miles	58,762	20,549	9,646
	500 to 749 miles	37,051	9,846	7,432
	750 to 999 miles	24,733	5,473	5,903
	1,000 to 1,499 miles	26,566	5,220	7,762
	1,500 to 1,999 miles	12,728	1,909	4,097
	2,000 miles or more	10,521	884	2,483

See footnotes at end of table.

Table 12.
Shipment Characteristics by Industry and Distance Shipped for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and distance shipped	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)
333	**Machinery Manufacturing**			
	Total	**343,262**	**40,523**	**31,565**
	Less than 50 miles	43,588	5,466	154
	50 to 99 miles	17,621	2,504	263
	100 to 249 miles	46,780	5,950	1,419
	250 to 499 miles	63,786	7,889	3,837
	500 to 749 miles	49,440	5,607	4,524
	750 to 999 miles	42,454	4,859	5,222
	1,000 to 1,499 miles	43,674	4,573	6,821
	1,500 to 1,999 miles	19,656	1,722	3,854
	2,000 miles or more	16,263	1,952	5,470
334	**Computer and Electronic Product Manufacturing**			
	Total	**389,399**	**5,416**	**4,442**
	Less than 50 miles	80,219	934	35
	50 to 99 miles	15,824	291	33
	100 to 249 miles	37,015	497	132
	250 to 499 miles	49,633	931	445
	500 to 749 miles	45,216	792	609
	750 to 999 miles	35,816	609	671
	1,000 to 1,499 miles	49,901	760	1,064
	1,500 to 1,999 miles	34,757	320	683
	2,000 miles or more	41,018	281	771
335	**Electrical Equipment, Appliance, and Component Manufacturing**			
	Total	**128,868**	**18,771**	**15,436**
	Less than 50 miles	14,469	2,383	58
	50 to 99 miles	5,768	725	75
	100 to 249 miles	14,366	2,273	525
	250 to 499 miles	23,618	3,658	1,757
	500 to 749 miles	21,983	3,347	2,609
	750 to 999 miles	15,324	2,122	2,258
	1,000 to 1,499 miles	15,516	2,096	3,095
	1,500 to 1,999 miles	9,818	1,263	2,618
	2,000 miles or more	8,006	905	2,441
336	**Transportation Equipment Manufacturing**			
	Total	**715,294**	**94,023**	**45,264**
	Less than 50 miles	168,871	28,705	673
	50 to 99 miles	35,710	6,667	619
	100 to 249 miles	99,906	17,379	4,009
	250 to 499 miles	123,402	16,909	8,106
	500 to 749 miles	87,977	9,405	7,262
	750 to 999 miles	56,512	5,066	5,488
	1,000 to 1,499 miles	63,055	5,146	7,816
	1,500 to 1,999 miles	58,341	3,626	8,197
	2,000 miles or more	21,520	1,120	3,093

See footnotes at end of table.

Table 12.
Shipment Characteristics by Industry and Distance Shipped for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and distance shipped	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)
337	**Furniture and Related Product Manufacturing**			
	Total	**83,494**	**18,700**	**11,480**
	Less than 50 miles	17,407	3,465	86
	50 to 99 miles	5,874	1,378	134
	100 to 249 miles	11,861	2,761	640
	250 to 499 miles	15,675	3,854	1,805
	500 to 749 miles	13,105	3,061	2,341
	750 to 999 miles	6,982	1,646	1,776
	1,000 to 1,499 miles	5,532	1,424	2,072
	1,500 to 1,999 miles	4,527	741	1,566
	2,000 miles or more	2,531	370	1,062
339	**Miscellaneous Manufacturing**			
	Total	**144,279**	**10,941**	**9,350**
	Less than 50 miles	18,625	1,629	40
	50 to 99 miles	5,538	337	34
	100 to 249 miles	15,951	1,190	297
	250 to 499 miles	20,011	1,405	682
	500 to 749 miles	19,663	2,332	1,843
	750 to 999 miles	15,249	1,289	1,411
	1,000 to 1,499 miles	19,773	1,771	2,682
	1,500 to 1,999 miles	16,104	544	1,147
	2,000 miles or more	13,365	444	1,213
4231	**Motor Vehicle and Motor Vehicle Parts and Supplies Merchant Wholesalers**			
	Total	**503,333**	**81,203**	**29,489**
	Less than 50 miles	162,866	39,366	980
	50 to 99 miles	52,249	7,495	716
	100 to 249 miles	84,229	10,616	2,346
	250 to 499 miles	79,496	8,758	3,958
	500 to 749 miles	37,976	4,634	3,577
	750 to 999 miles	26,472	3,059	3,303
	1,000 to 1,499 miles	15,540	2,892	4,255
	1,500 to 1,999 miles	18,283	2,777	5,927
	2,000 miles or more	26,222	1,606	4,427
4232	**Furniture and Home Furnishing Merchant Wholesalers**			
	Total	**74,305**	**23,358**	**12,730**
	Less than 50 miles	25,607	8,614	222
	50 to 99 miles	6,989	2,526	242
	100 to 249 miles	9,307	3,402	684
	250 to 499 miles	8,097	2,443	1,071
	500 to 749 miles	6,275	1,417	1,086
	750 to 999 miles	5,086	938	1,010
	1,000 to 1,499 miles	4,926	1,176	1,795
	1,500 to 1,999 miles	3,611	1,683	3,490
	2,000 miles or more	4,407	1,159	3,131

See footnotes at end of table.

Table 12.
Shipment Characteristics by Industry and Distance Shipped for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and distance shipped	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)
4233	**Lumber and Other Construction Materials Merchant Wholesalers**			
	Total	**153,528**	**498,825**	**43,488**
	Less than 50 miles	90,627	401,076	8,353
	50 to 99 miles	22,883	39,536	3,706
	100 to 249 miles	21,710	32,958	6,568
	250 to 499 miles	7,582	10,665	4,814
	500 to 749 miles	3,192	5,020	4,175
	750 to 999 miles	2,842	3,183	3,504
	1,000 to 1,499 miles	2,238	3,616	5,043
	1,500 to 1,999 miles	1,023	1,224	2,763
	2,000 miles or more	1,433	1,549	4,562
4234	**Professional and Commercial Equipment and Supplies Merchant Wholesalers**			
	Total	**397,976**	**21,817**	**9,088**
	Less than 50 miles	101,368	8,794	226
	50 to 99 miles	27,720	3,004	274
	100 to 249 miles	51,535	3,500	709
	250 to 499 miles	53,029	2,080	906
	500 to 749 miles	35,433	1,196	922
	750 to 999 miles	33,306	800	856
	1,000 to 1,499 miles	30,726	833	1,209
	1,500 to 1,999 miles	31,598	748	1,575
	2,000 miles or more	33,262	863	2,412
4235	**Metal and Mineral (Except Petroleum) Merchant Wholesalers**			
	Total	**191,673**	**182,041**	**43,016**
	Less than 50 miles	75,523	68,856	1,941
	50 to 99 miles	26,648	35,041	3,560
	100 to 249 miles	40,168	47,788	10,668
	250 to 499 miles	23,498	16,529	7,690
	500 to 749 miles	9,512	4,819	3,648
	750 to 999 miles	4,728	4,977	7,548
	1,000 to 1,499 miles	6,397	2,675	4,494
	1,500 to 1,999 miles	2,373	631	1,306
	2,000 miles or more	2,826	725	2,160
4236	**Electrical and Electronic Goods Merchant Wholesalers**			
	Total	**338,597**	**24,469**	**11,663**
	Less than 50 miles	124,879	11,711	254
	50 to 99 miles	17,164	1,610	159
	100 to 249 miles	35,592	3,069	678
	250 to 499 miles	26,369	1,641	765
	500 to 749 miles	25,457	1,584	1,233
	750 to 999 miles	19,325	1,541	1,644
	1,000 to 1,499 miles	31,563	1,269	1,971
	1,500 to 1,999 miles	33,878	1,385	3,115
	2,000 miles or more	24,369	660	1,843

See footnotes at end of table.

Table 12.
Shipment Characteristics by Industry and Distance Shipped for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and distance shipped	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)
4237	**Hardware and Plumbing and Heating Equipment and Supplies Merchant Wholesalers**			
	Total	**119,464**	**28,474**	**5,563**
	Less than 50 miles	65,441	16,404	419
	50 to 99 miles	12,213	3,364	341
	100 to 249 miles	14,532	3,479	743
	250 to 499 miles	10,994	3,189	1,462
	500 to 749 miles	5,514	776	590
	750 to 999 miles	3,212	517	547
	1,000 to 1,499 miles	3,206	328	480
	1,500 to 1,999 miles	2,312	247	521
	2,000 miles or more	2,041	169	461
4238	**Machinery, Equipment, and Supplies Merchant Wholesalers**			
	Total	**363,108**	**74,069**	**16,716**
	Less than 50 miles	155,014	44,399	1,154
	50 to 99 miles	36,028	7,899	757
	100 to 249 miles	52,837	9,036	1,922
	250 to 499 miles	39,997	5,303	2,408
	500 to 749 miles	22,666	2,384	1,820
	750 to 999 miles	16,686	1,402	1,526
	1,000 to 1,499 miles	19,907	1,705	2,644
	1,500 to 1,999 miles	10,571	1,304	2,728
	2,000 miles or more	9,402	636	1,759
4239	**Miscellaneous Durable Goods Merchant Wholesalers**			
	Total	**210,361**	**426,888**	**93,027**
	Less than 50 miles	64,705	241,164	6,429
	50 to 99 miles	17,204	67,745	6,215
	100 to 249 miles	28,578	49,259	10,877
	250 to 499 miles	28,851	34,542	17,001
	500 to 749 miles	17,434	13,661	11,385
	750 to 999 miles	11,763	6,718	7,457
	1,000 to 1,499 miles	18,501	5,342	8,298
	1,500 to 1,999 miles	9,203	2,827	6,295
	2,000 miles or more	14,123	5,630	19,069
4241	**Paper and Paper Product Merchant Wholesalers**			
	Total	**100,860**	**50,888**	**15,513**
	Less than 50 miles	53,218	24,688	596
	50 to 99 miles	10,324	4,459	424
	100 to 249 miles	13,797	6,881	1,480
	250 to 499 miles	7,038	5,007	2,487
	500 to 749 miles	4,977	4,686	3,539
	750 to 999 miles	3,431	3,258	3,311
	1,000 to 1,499 miles	3,504	899	1,272
	1,500 to 1,999 miles	3,084	568	1,191
	2,000 miles or more	1,486	442	1,214

See footnotes at end of table.

Table 12.
Shipment Characteristics by Industry and Distance Shipped for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and distance shipped	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)
4242	**Drugs and Druggists' Sundries Merchant Wholesalers**			
	Total	**409,264**	**23,407**	**9,611**
	Less than 50 miles	113,961	6,676	282
	50 to 99 miles	57,577	3,853	364
	100 to 249 miles	103,378	4,996	1,086
	250 to 499 miles	52,698	2,793	1,281
	500 to 749 miles	27,553	2,184	1,764
	750 to 999 miles	17,381	811	870
	1,000 to 1,499 miles	17,314	1,138	1,687
	1,500 to 1,999 miles	8,610	484	982
	2,000 miles or more	10,790	471	1,296
4243	**Apparel, Piece Goods, and Notions Merchant Wholesalers**			
	Total	**119,239**	**9,468**	**8,484**
	Less than 50 miles	20,201	2,772	47
	50 to 99 miles	7,630	466	45
	100 to 249 miles	13,127	835	178
	250 to 499 miles	14,627	816	379
	500 to 749 miles	15,020	1,009	762
	750 to 999 miles	8,775	482	503
	1,000 to 1,499 miles	14,736	814	1,177
	1,500 to 1,999 miles	8,286	(S)	(S)
	2,000 miles or more	16,838	1,020	2,776
4244	**Grocery and Related Product Wholesalers**			
	Total	**567,732**	**321,626**	**81,594**
	Less than 50 miles	275,343	162,770	4,030
	50 to 99 miles	90,665	49,496	4,683
	100 to 249 miles	104,908	53,455	10,797
	250 to 499 miles	40,747	22,011	9,541
	500 to 749 miles	15,829	8,910	6,976
	750 to 999 miles	11,945	7,979	8,658
	1,000 to 1,499 miles	12,316	7,853	12,020
	1,500 to 1,999 miles	8,232	5,002	10,898
	2,000 miles or more	7,748	4,149	13,991
4245	**Farm Product Raw Materials Merchant Wholesalers**			
	Total	**143,358**	**623,826**	**240,207**
	Less than 50 miles	62,534	313,989	8,370
	50 to 99 miles	11,361	54,761	4,969
	100 to 249 miles	14,631	53,436	14,229
	250 to 499 miles	14,991	66,689	39,120
	500 to 749 miles	12,387	52,241	46,594
	750 to 999 miles	8,468	37,310	47,857
	1,000 to 1,499 miles	10,843	38,164	64,636
	1,500 to 1,999 miles	2,656	4,413	5,737
	2,000 miles or more	(S)	2,823	(S)

See footnotes at end of table.

Table 12.
Shipment Characteristics by Industry and Distance Shipped for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and distance shipped	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)
4246	**Chemical and Allied Products Merchant Wholesalers**			
	Total	**119,923**	**119,971**	**31,344**
	Less than 50 miles	44,769	53,707	1,692
	50 to 99 miles	14,987	18,280	1,819
	100 to 249 miles	20,463	23,234	4,920
	250 to 499 miles	13,892	11,046	4,988
	500 to 749 miles	7,201	4,719	3,801
	750 to 999 miles	6,740	4,205	4,571
	1,000 to 1,499 miles	6,231	2,801	4,288
	1,500 to 1,999 miles	2,670	1,044	2,631
	2,000 miles or more	2,971	934	2,635
4247	**Petroleum and Petroleum Products Merchant Wholesalers**			
	Total	**610,759**	**846,636**	**52,112**
	Less than 50 miles	483,011	687,745	14,626
	50 to 99 miles	64,262	88,654	7,904
	100 to 249 miles	35,430	44,149	8,619
	250 to 499 miles	12,930	12,743	5,614
	500 to 749 miles	5,542	5,869	4,610
	750 to 999 miles	4,337	3,930	4,340
	1,000 to 1,499 miles	4,077	2,884	4,657
	1,500 to 1,999 miles	1,044	544	1,350
	2,000 miles or more	127	(S)	(S)
4248	**Beer, Wine, and Distilled Alcoholic Beverages Merchant Wholesalers**			
	Total	**100,154**	**55,667**	**3,194**
	Less than 50 miles	84,480	50,070	1,034
	50 to 99 miles	7,826	3,287	285
	100 to 249 miles	4,547	1,254	235
	250 to 499 miles	707	225	95
	500 to 749 miles	419	181	166
	750 to 999 miles	232	103	116
	1,000 to 1,499 miles	609	191	319
	1,500 to 1,999 miles	506	109	234
	2,000 miles or more	830	247	710
4249	**Miscellaneous Nondurable Goods Merchant Wholesalers**			
	Total	**216,429**	**192,897**	**60,260**
	Less than 50 miles	78,544	83,919	2,393
	50 to 99 miles	33,484	30,029	3,000
	100 to 249 miles	47,943	32,936	6,992
	250 to 499 miles	18,444	13,613	6,509
	500 to 749 miles	11,002	9,812	8,106
	750 to 999 miles	9,115	12,305	14,606
	1,000 to 1,499 miles	10,940	8,013	12,839
	1,500 to 1,999 miles	3,093	746	1,550
	2,000 miles or more	3,864	1,523	4,266

See footnotes at end of table.

Table 12.
Shipment Characteristics by Industry and Distance Shipped for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and distance shipped	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)
4541	**Electronic Shopping and Mail-Order Houses**			
	Total	**216,817**	**7,305**	**6,398**
	Less than 50 miles	30,512	1,326	33
	50 to 99 miles	9,633	629	58
	100 to 249 miles	19,800	619	147
	250 to 499 miles	28,708	962	458
	500 to 749 miles	26,489	972	760
	750 to 999 miles	23,713	733	788
	1,000 to 1,499 miles	31,237	915	1,334
	1,500 to 1,999 miles	19,928	518	1,081
	2,000 miles or more	26,798	630	1,738
45431	**Fuel Dealers**			
	Total	**38,220**	**48,438**	**1,784**
	Less than 50 miles	35,366	44,476	760
	50 to 99 miles	1,036	1,396	121
	100 to 249 miles	824	1,080	248
	250 to 499 miles	(S)	(S)	(S)
	500 to 749 miles	(S)	(S)	(S)
	750 to 999 miles	(S)	(S)	(S)
	1,000 to 1,499 miles	(S)	(S)	(S)
	1,500 to 1,999 miles	–	–	–
	2,000 miles or more	(S)	(S)	(S)
4931	**Warehousing and Storage**			
	Total	**903,398**	**187,219**	**46,335**
	Less than 50 miles	161,327	66,696	1,971
	50 to 99 miles	116,633	34,938	3,458
	100 to 249 miles	205,078	45,265	9,519
	250 to 499 miles	183,101	21,482	9,504
	500 to 749 miles	87,016	10,170	8,462
	750 to 999 miles	62,149	3,341	3,541
	1,000 to 1,499 miles	32,982	2,677	3,770
	1,500 to 1,999 miles	39,554	1,720	3,605
	2,000 miles or more	15,557	931	2,504
5111	**Newspaper, Periodical, Book, and Directory Publishers**			
	Total	**38,082**	**11,892**	**2,279**
	Less than 50 miles	15,373	8,401	170
	50 to 99 miles	2,255	710	63
	100 to 249 miles	2,851	849	213
	250 to 499 miles	4,339	813	371
	500 to 749 miles	3,664	398	292
	750 to 999 miles	2,743	252	267
	1,000 to 1,499 miles	3,706	209	292
	1,500 to 1,999 miles	1,488	169	364
	2,000 miles or more	1,662	92	248

See footnotes at end of table.

Table 12.
Shipment Characteristics by Industry and Distance Shipped for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and distance shipped	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)
551114	**Corporate, Subsidiary, and Regional Managing Offices**			
	Total	**428,280**	**250,262**	**80,199**
	Less than 50 miles	95,087	106,468	2,868
	50 to 99 miles	36,235	34,112	3,682
	100 to 249 miles	64,017	48,523	14,240
	250 to 499 miles	68,603	24,747	11,207
	500 to 749 miles	43,976	10,956	8,988
	750 to 999 miles	35,208	13,055	14,819
	1,000 to 1,499 miles	40,678	6,779	10,641
	1,500 to 1,999 miles	24,141	3,114	6,714
	2,000 miles or more	20,333	2,506	7,040

– Estimate equal to zero.

(S) Estimate did not meet publication standards.

(Z) Estimate is between zero and half the unit shown, thus rounded to zero.

[1] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See “Mileage Calculations” section for additional information.

Note: Value-of-shipments estimates have not been adjusted for price changes. Appendix B tables provide estimated measures of sampling variability. The Introduction and appendixes give 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/cfs>.

Table 13.

Shipment Characteristics by Industry and Shipment Weight for the United States: 2007

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and shipment weight	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)	Average miles per shipment
212	**Mining (Except Oil and Gas)**				
	Total	**85,730**	**3,638,118**	**1,057,505**	**53**
	Less than 50 lb	139	3	(Z)	220
	50 to 99 lb	(S)	2	(S)	158
	100 to 499 lb	1,027	27	2	57
	500 to 749 lb	(S)	25	1	(S)
	750 to 999 lb	(S)	34	(S)	50
	1,000 to 9,999 lb	(S)	8,163	299	41
	10,000 to 49,999 lb	24,095	1,332,052	57,545	41
	50,000 to 99,999 lb	11,586	651,900	35,811	55
	100,000 lb or more	44,289	1,645,914	963,845	371
311	**Food Manufacturing**				
	Total	**585,676**	**568,950**	**264,425**	**305**
	Less than 50 lb	3,861	538	123	365
	50 to 99 lb	1,988	459	52	114
	100 to 499 lb	7,857	2,844	409	135
	500 to 749 lb	3,671	1,530	311	203
	750 to 999 lb	3,397	1,510	324	213
	1,000 to 9,999 lb	67,832	32,873	11,348	323
	10,000 to 49,999 lb	429,125	329,214	150,566	451
	50,000 to 99,999 lb	30,691	97,076	15,790	160
	100,000 lb or more	37,253	102,907	85,503	934
312	**Beverage and Tobacco Product Manufacturing**				
	Total	**129,804**	**143,530**	**42,063**	**227**
	Less than 50 lb	641	41	25	524
	50 to 99 lb	242	53	6	115
	100 to 499 lb	1,459	732	42	60
	500 to 749 lb	690	441	34	(S)
	750 to 999 lb	736	338	28	81
	1,000 to 9,999 lb	7,895	5,177	795	133
	10,000 to 49,999 lb	107,927	120,281	35,059	285
	50,000 to 99,999 lb	7,588	12,709	2,751	207
	100,000 lb or more	2,623	3,758	3,323	907
313	**Textile Mills**				
	Total	**35,936**	**8,989**	**4,133**	**811**
	Less than 50 lb	1,166	22	21	959
	50 to 99 lb	483	18	14	755
	100 to 499 lb	2,226	128	89	705
	500 to 749 lb	1,032	75	52	679
	750 to 999 lb	701	65	42	640
	1,000 to 9,999 lb	9,299	1,357	745	563
	10,000 to 49,999 lb	20,301	6,865	3,093	454
	50,000 to 99,999 lb	223	88	32	377
	100,000 lb or more	506	370	45	(S)

See footnotes at end of table.

Table 13.
Shipment Characteristics by Industry and Shipment Weight for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and shipment weight	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)	Average miles per shipment
314	**Textile Product Mills**				
	Total	**28,448**	**7,022**	**3,131**	**854**
	Less than 50 lb	2,675	105	95	960
	50 to 99 lb	981	49	40	820
	100 to 499 lb	2,905	253	166	712
	500 to 749 lb	1,395	342	67	(S)
	750 to 999 lb	861	197	47	233
	1,000 to 9,999 lb	7,799	1,645	963	509
	10,000 to 49,999 lb	11,457	3,876	1,602	470
	50,000 to 99,999 lb	293	254	119	474
	100,000 lb or more	(S)	(S)	31	(S)
315	**Apparel Manufacturing**				
	Total	**24,381**	**1,463**	**1,400**	**1,224**
	Less than 50 lb	5,448	79	97	1,256
	50 to 99 lb	1,265	50	(S)	1,222
	100 to 499 lb	3,462	114	113	995
	500 to 749 lb	895	33	23	703
	750 to 999 lb	561	26	22	825
	1,000 to 9,999 lb	8,461	442	342	729
	10,000 to 49,999 lb	4,080	418	298	616
	50,000 to 99,999 lb	27	(S)	(S)	1,182
	100,000 lb or more	(S)	(S)	(S)	(S)
316	**Leather and Allied Product Manufacturing**				
	Total	**5,441**	**636**	**789**	**1,118**
	Less than 50 lb	1,171	25	27	1,135
	50 to 99 lb	385	11	10	922
	100 to 499 lb	865	45	51	1,109
	500 to 749 lb	276	23	20	850
	750 to 999 lb	201	(S)	(S)	909
	1,000 to 9,999 lb	1,181	125	(S)	1,274
	10,000 to 49,999 lb	1,150	276	368	1,243
	50,000 to 99,999 lb	36	18	23	1,306
	100,000 lb or more	(S)	(S)	(S)	1,198
321	**Wood Product Manufacturing**				
	Total	**100,923**	**218,834**	**78,742**	**343**
	Less than 50 lb	856	36	21	634
	50 to 99 lb	685	55	22	389
	100 to 499 lb	2,997	440	130	297
	500 to 749 lb	1,070	234	50	208
	750 to 999 lb	936	230	71	306
	1,000 to 9,999 lb	13,868	8,655	1,598	203
	10,000 to 49,999 lb	59,857	118,293	34,944	272
	50,000 to 99,999 lb	11,983	60,839	10,391	166
	100,000 lb or more	8,671	30,051	31,516	1,130

See footnotes at end of table.

Table 13.
Shipment Characteristics by Industry and Shipment Weight for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and shipment weight	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)	Average miles per shipment
322	**Paper Manufacturing**				
	Total	**174,780**	**166,472**	**89,418**	**494**
	Less than 50 lb	1,354	53	42	788
	50 to 99 lb	583	45	31	696
	100 to 499 lb	2,894	463	197	465
	500 to 749 lb	1,469	370	123	334
	750 to 999 lb	1,225	379	113	297
	1,000 to 9,999 lb	25,307	13,063	3,558	277
	10,000 to 49,999 lb	117,767	109,157	53,024	438
	50,000 to 99,999 lb	4,245	7,470	2,696	320
	100,000 lb or more	19,935	35,473	29,635	855
323	**Printing and Related Support Activities**				
	Total	**98,848**	**33,661**	**15,936**	**791**
	Less than 50 lb	18,456	593	387	838
	50 to 99 lb	4,445	242	124	507
	100 to 499 lb	13,798	1,095	544	482
	500 to 749 lb	3,783	526	241	455
	750 to 999 lb	2,834	430	200	461
	1,000 to 9,999 lb	25,631	7,182	2,815	411
	10,000 to 49,999 lb	29,089	21,027	10,309	457
	50,000 to 99,999 lb	450	558	276	504
	100,000 lb or more	361	(S)	(S)	457
324	**Petroleum and Coal Products Manufacturing**				
	Total	**608,090**	**1,415,099**	**207,148**	**222**
	Less than 50 lb	(S)	(S)	(S)	840
	50 to 99 lb	(S)	15	13	857
	100 to 499 lb	(S)	113	73	703
	500 to 749 lb	126	50	29	579
	750 to 999 lb	195	91	42	456
	1,000 to 9,999 lb	5,404	6,994	952	175
	10,000 to 49,999 lb	75,121	333,020	28,745	84
	50,000 to 99,999 lb	48,703	163,138	13,760	82
	100,000 lb or more	477,329	911,651	163,513	404
325	**Chemical Manufacturing**				
	Total	**713,674**	**594,262**	**279,917**	**847**
	Less than 50 lb	37,389	239	229	1,093
	50 to 99 lb	9,024	163	140	853
	100 to 499 lb	31,378	1,056	713	686
	500 to 749 lb	9,529	656	395	600
	750 to 999 lb	6,348	594	383	641
	1,000 to 9,999 lb	99,221	17,154	8,541	532
	10,000 to 49,999 lb	305,588	242,408	88,302	378
	50,000 to 99,999 lb	21,305	47,558	9,293	184
	100,000 lb or more	193,893	284,435	171,921	788

See footnotes at end of table.

Table 13.
Shipment Characteristics by Industry and Shipment Weight for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and shipment weight	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)	Average miles per shipment
326	**Plastics and Rubber Products Manufacturing**				
	Total	**209,268**	**66,753**	**37,394**	**679**
	Less than 50 lb	6,480	123	103	881
	50 to 99 lb	3,021	141	106	755
	100 to 499 lb	13,830	1,174	725	626
	500 to 749 lb	6,027	676	409	604
	750 to 999 lb	4,580	623	342	545
	1,000 to 9,999 lb	78,766	21,382	9,361	457
	10,000 to 49,999 lb	94,111	39,167	24,500	603
	50,000 to 99,999 lb	1,719	2,050	1,044	524
	100,000 lb or more	734	1,416	804	533
327	**Nonmetallic Mineral Product Manufacturing**				
	Total	**124,713**	**1,060,926**	**98,086**	**170**
	Less than 50 lb	2,789	53	33	692
	50 to 99 lb	814	49	25	508
	100 to 499 lb	3,838	449	189	435
	500 to 749 lb	1,519	251	89	356
	750 to 999 lb	1,009	231	73	316
	1,000 to 9,999 lb	13,498	18,654	2,277	153
	10,000 to 49,999 lb	80,000	750,969	53,410	66
	50,000 to 99,999 lb	14,890	190,967	17,541	94
	100,000 lb or more	6,358	99,302	24,449	264
331	**Primary Metal Manufacturing**				
	Total	**251,412**	**201,339**	**98,318**	**545**
	Less than 50 lb	4,855	28	20	735
	50 to 99 lb	2,152	31	23	737
	100 to 499 lb	6,241	214	131	610
	500 to 749 lb	2,060	131	73	562
	750 to 999 lb	1,762	140	74	524
	1,000 to 9,999 lb	26,951	4,395	2,258	529
	10,000 to 49,999 lb	146,577	115,186	45,591	405
	50,000 to 99,999 lb	16,882	21,229	4,475	207
	100,000 lb or more	43,933	59,987	45,674	741
332	**Fabricated Metal Product Manufacturing**				
	Total	**338,290**	**118,350**	**44,620**	**596**
	Less than 50 lb	38,567	376	252	696
	50 to 99 lb	12,145	343	212	614
	100 to 499 lb	37,348	2,320	1,245	534
	500 to 749 lb	12,350	1,248	646	517
	750 to 999 lb	8,681	1,070	523	484
	1,000 to 9,999 lb	91,423	22,220	8,341	398
	10,000 to 49,999 lb	124,946	74,349	26,121	337
	50,000 to 99,999 lb	7,083	7,936	1,669	205
	100,000 lb or more	5,748	8,488	5,611	704

See footnotes at end of table.

Table 13.
Shipment Characteristics by Industry and Shipment Weight for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and shipment weight	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)	Average miles per shipment
333	**Machinery Manufacturing**				
	Total	**343,262**	**40,523**	**31,565**	**917**
	Less than 50 lb	40,356	324	300	972
	50 to 99 lb	12,507	241	209	869
	100 to 499 lb	36,203	1,318	1,032	789
	500 to 749 lb	11,601	672	499	742
	750 to 999 lb	8,754	523	421	803
	1,000 to 9,999 lb	86,056	8,605	6,149	728
	10,000 to 49,999 lb	121,411	23,611	17,178	763
	50,000 to 99,999 lb	14,985	3,040	2,767	895
	100,000 lb or more	11,389	2,188	3,010	1,095
334	**Computer and Electronic Product Manufacturing**				
	Total	**389,399**	**5,416**	**4,442**	**1,205**
	Less than 50 lb	134,334	339	399	1,232
	50 to 99 lb	38,912	145	148	1,034
	100 to 499 lb	82,650	595	591	1,012
	500 to 749 lb	21,104	221	196	891
	750 to 999 lb	10,376	147	146	998
	1,000 to 9,999 lb	59,696	1,427	1,262	903
	10,000 to 49,999 lb	41,264	1,947	1,223	633
	50,000 to 99,999 lb	778	(S)	324	835
	100,000 lb or more	(S)	180	153	833
335	**Electrical Equipment, Appliance, and Component Manufacturing**				
	Total	**128,868**	**18,771**	**15,436**	**938**
	Less than 50 lb	13,096	128	127	1,026
	50 to 99 lb	4,685	98	94	960
	100 to 499 lb	17,718	828	659	746
	500 to 749 lb	5,140	306	261	849
	750 to 999 lb	3,777	243	203	829
	1,000 to 9,999 lb	31,413	3,464	2,974	872
	10,000 to 49,999 lb	49,789	12,256	10,119	822
	50,000 to 99,999 lb	1,674	415	353	852
	100,000 lb or more	1,575	1,033	645	1,075
336	**Transportation Equipment Manufacturing**				
	Total	**715,294**	**94,023**	**45,264**	**801**
	Less than 50 lb	40,762	197	184	963
	50 to 99 lb	9,541	115	99	858
	100 to 499 lb	38,306	763	559	747
	500 to 749 lb	14,005	539	362	656
	750 to 999 lb	10,796	408	265	647
	1,000 to 9,999 lb	250,147	27,338	13,154	505
	10,000 to 49,999 lb	281,175	54,091	24,849	460
	50,000 to 99,999 lb	33,357	5,657	2,691	514
	100,000 lb or more	37,206	4,915	3,102	692

See footnotes at end of table.

Table 13.
Shipment Characteristics by Industry and Shipment Weight for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and shipment weight	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)	Average miles per shipment
337	**Furniture and Related Product Manufacturing**				
	Total	**83,494**	**18,700**	**11,480**	**715**
	Less than 50 lb	3,016	126	111	832
	50 to 99 lb	1,861	140	108	778
	100 to 499 lb	9,957	1,185	778	669
	500 to 749 lb	4,162	594	340	571
	750 to 999 lb	3,311	546	290	528
	1,000 to 9,999 lb	38,038	7,160	3,980	555
	10,000 to 49,999 lb	22,013	7,823	4,950	627
	50,000 to 99,999 lb	700	565	383	690
	100,000 lb or more	435	(S)	(S)	772
339	**Miscellaneous Manufacturing**				
	Total	**144,279**	**10,941**	**9,350**	**1,017**
	Less than 50 lb	58,381	443	461	1,030
	50 to 99 lb	8,065	185	178	953
	100 to 499 lb	18,317	719	652	917
	500 to 749 lb	5,077	286	274	959
	750 to 999 lb	3,221	208	171	819
	1,000 to 9,999 lb	31,039	3,150	2,425	803
	10,000 to 49,999 lb	19,421	5,022	4,022	771
	50,000 to 99,999 lb	575	(S)	(S)	1,357
	100,000 lb or more	183	141	103	1,078
4231	**Motor Vehicle and Motor Vehicle Parts and Supplies Merchant Wholesalers**				
	Total	**503,333**	**81,203**	**29,489**	**532**
	Less than 50 lb	81,305	2,861	1,139	592
	50 to 99 lb	31,633	2,222	838	392
	100 to 499 lb	104,716	9,524	3,061	330
	500 to 749 lb	23,043	2,611	736	281
	750 to 999 lb	12,451	1,934	475	243
	1,000 to 9,999 lb	93,439	17,570	6,567	324
	10,000 to 49,999 lb	142,173	39,995	14,537	385
	50,000 to 99,999 lb	4,909	2,881	950	(S)
	100,000 lb or more	9,664	1,604	1,185	736
4232	**Furniture and Home Furnishing Merchant Wholesalers**				
	Total	**74,305**	**23,358**	**12,730**	**663**
	Less than 50 lb	6,559	414	353	789
	50 to 99 lb	3,925	419	278	657
	100 to 499 lb	11,922	1,985	939	517
	500 to 749 lb	4,381	1,031	361	348
	750 to 999 lb	3,158	822	289	350
	1,000 to 9,999 lb	26,975	8,742	3,078	324
	10,000 to 49,999 lb	15,673	7,698	4,234	562
	50,000 to 99,999 lb	574	669	(S)	649
	100,000 lb or more	(S)	(S)	(S)	1,304

See footnotes at end of table.

Table 13.
Shipment Characteristics by Industry and Shipment Weight for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and shipment weight	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)	Average miles per shipment
4233	**Lumber and Other Construction Materials Merchant Wholesalers**				
	Total	**153,528**	**498,825**	**43,488**	**141**
	Less than 50 lb	4,828	284	59	244
	50 to 99 lb	3,259	396	65	169
	100 to 499 lb	14,207	2,936	350	125
	500 to 749 lb	5,871	1,673	178	106
	750 to 999 lb	4,359	1,560	143	92
	1,000 to 9,999 lb	52,342	43,884	3,686	86
	10,000 to 49,999 lb	54,205	294,711	20,581	67
	50,000 to 99,999 lb	11,770	122,267	9,240	73
	100,000 lb or more	2,688	31,115	9,186	302
4234	**Professional and Commercial Equipment and Supplies Merchant Wholesalers**				
	Total	**397,976**	**21,817**	**9,088**	**716**
	Less than 50 lb	148,425	1,730	1,166	770
	50 to 99 lb	33,627	970	473	491
	100 to 499 lb	89,875	3,856	1,472	384
	500 to 749 lb	17,392	1,093	396	360
	750 to 999 lb	11,847	1,115	(S)	660
	1,000 to 9,999 lb	74,388	8,748	3,115	430
	10,000 to 49,999 lb	22,125	3,952	1,557	406
	50,000 to 99,999 lb	(S)	190	(S)	526
	100,000 lb or more	53	(S)	38	(S)
4235	**Metal and Mineral (Except Petroleum) Merchant Wholesalers**				
	Total	**191,673**	**182,041**	**43,016**	**192**
	Less than 50 lb	4,457	209	54	267
	50 to 99 lb	2,683	287	57	196
	100 to 499 lb	13,464	2,609	384	148
	500 to 749 lb	5,519	1,550	240	152
	750 to 999 lb	4,511	1,332	202	151
	1,000 to 9,999 lb	56,055	27,540	4,044	148
	10,000 to 49,999 lb	87,875	77,963	17,888	205
	50,000 to 99,999 lb	8,296	15,125	2,333	145
	100,000 lb or more	8,814	55,426	17,813	356
4236	**Electrical and Electronic Goods Merchant Wholesalers**				
	Total	**338,597**	**24,469**	**11,663**	**474**
	Less than 50 lb	112,262	1,476	674	497
	50 to 99 lb	30,401	907	378	405
	100 to 499 lb	68,638	3,457	1,192	340
	500 to 749 lb	13,829	1,117	362	324
	750 to 999 lb	13,698	988	476	469
	1,000 to 9,999 lb	58,824	6,717	3,035	405
	10,000 to 49,999 lb	38,732	7,952	4,425	543
	50,000 to 99,999 lb	1,225	752	239	(S)
	100,000 lb or more	(S)	1,103	(S)	(S)

See footnotes at end of table.

Table 13.
Shipment Characteristics by Industry and Shipment Weight for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and shipment weight	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)	Average miles per shipment
4237	**Hardware and Plumbing and Heating Equipment and Supplies Merchant Wholesalers**				
	Total	**119,464**	**28,474**	**5,563**	**213**
	Less than 50 lb	22,908	757	168	226
	50 to 99 lb	8,910	632	116	185
	100 to 499 lb	29,390	3,020	500	165
	500 to 749 lb	8,293	1,169	223	188
	750 to 999 lb	5,344	835	223	259
	1,000 to 9,999 lb	31,263	8,606	1,956	238
	10,000 to 49,999 lb	11,409	5,914	1,426	235
	50,000 to 99,999 lb	235	851	(S)	94
	100,000 lb or more	(S)	6,691	(S)	331
4238	**Machinery, Equipment, and Supplies Merchant Wholesalers**				
	Total	**363,108**	**74,069**	**16,716**	**322**
	Less than 50 lb	96,979	1,523	499	339
	50 to 99 lb	25,422	902	270	295
	100 to 499 lb	55,213	4,240	1,076	255
	500 to 749 lb	14,295	1,734	416	239
	750 to 999 lb	9,474	1,290	305	234
	1,000 to 9,999 lb	75,518	17,394	4,156	243
	10,000 to 49,999 lb	69,994	35,446	7,201	213
	50,000 to 99,999 lb	11,406	5,818	1,513	236
	100,000 lb or more	4,807	5,722	(S)	203
4239	**Miscellaneous Durable Goods Merchant Wholesalers**				
	Total	**210,361**	**426,888**	**93,027**	**911**
	Less than 50 lb	51,536	585	583	1,065
	50 to 99 lb	7,256	300	222	730
	100 to 499 lb	15,838	1,189	881	751
	500 to 749 lb	4,147	459	306	655
	750 to 999 lb	2,862	461	186	400
	1,000 to 9,999 lb	21,624	6,479	2,830	429
	10,000 to 49,999 lb	78,309	230,160	44,545	189
	50,000 to 99,999 lb	12,206	117,420	9,889	80
	100,000 lb or more	16,584	69,835	33,584	509
4241	**Paper and Paper Product Merchant Wholesalers**				
	Total	**100,860**	**50,888**	**15,513**	**282**
	Less than 50 lb	15,190	698	225	345
	50 to 99 lb	5,420	598	119	196
	100 to 499 lb	15,759	3,686	582	168
	500 to 749 lb	5,190	1,632	192	115
	750 to 999 lb	3,327	1,172	155	131
	1,000 to 9,999 lb	32,360	16,127	2,550	157
	10,000 to 49,999 lb	18,156	16,227	5,266	295
	50,000 to 99,999 lb	1,482	(S)	(S)	380
	100,000 lb or more	3,976	6,625	4,631	739

See footnotes at end of table.

Table 13.
Shipment Characteristics by Industry and Shipment Weight for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and shipment weight	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)	Average miles per shipment
4242	**Drugs and Druggists' Sundries Merchant Wholesalers**				
	Total	**409,264**	**23,407**	**9,611**	**478**
	Less than 50 lb	161,174	1,090	415	482
	50 to 99 lb	46,378	534	233	446
	100 to 499 lb	82,784	1,601	763	429
	500 to 749 lb	11,478	472	299	624
	750 to 999 lb	9,944	311	220	722
	1,000 to 9,999 lb	55,927	7,587	3,270	573
	10,000 to 49,999 lb	39,703	10,423	3,698	303
	50,000 to 99,999 lb	355	431	(S)	308
	100,000 lb or more	(S)	(S)	(S)	618
4243	**Apparel, Piece Goods, and Notions Merchant Wholesalers**				
	Total	**119,239**	**9,468**	**8,484**	**933**
	Less than 50 lb	30,421	786	702	937
	50 to 99 lb	8,297	345	316	920
	100 to 499 lb	22,963	1,075	913	894
	500 to 749 lb	5,731	347	300	851
	750 to 999 lb	3,523	237	202	843
	1,000 to 9,999 lb	32,751	2,313	2,524	987
	10,000 to 49,999 lb	14,742	3,833	(S)	828
	50,000 to 99,999 lb	368	168	(S)	242
	100,000 lb or more	442	364	(S)	1,062
4244	**Grocery and Related Product Wholesalers**				
	Total	**567,732**	**321,626**	**81,594**	**109**
	Less than 50 lb	10,539	1,327	151	153
	50 to 99 lb	10,278	1,924	127	66
	100 to 499 lb	56,917	16,839	1,204	69
	500 to 749 lb	24,713	9,442	776	82
	750 to 999 lb	20,776	8,539	708	82
	1,000 to 9,999 lb	220,684	110,174	15,947	128
	10,000 to 49,999 lb	208,658	153,141	49,047	275
	50,000 to 99,999 lb	8,609	13,443	4,029	301
	100,000 lb or more	6,560	6,797	9,606	1,104
4245	**Farm Product Raw Materials Merchant Wholesalers**				
	Total	**143,358**	**623,826**	**240,207**	**145**
	Less than 50 lb	(S)	26	5	206
	50 to 99 lb	216	46	4	95
	100 to 499 lb	1,188	384	39	96
	500 to 749 lb	389	271	36	134
	750 to 999 lb	354	239	28	118
	1,000 to 9,999 lb	7,049	8,814	771	83
	10,000 to 49,999 lb	25,859	55,208	15,908	253
	50,000 to 99,999 lb	36,636	205,431	15,948	77
	100,000 lb or more	71,210	353,407	207,467	835

See footnotes at end of table.

Table 13.
Shipment Characteristics by Industry and Shipment Weight for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and shipment weight	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)	Average miles per shipment
4246	**Chemical and Allied Products Merchant Wholesalers**				
	Total	**119,923**	**119,971**	**31,344**	**237**
	Less than 50 lb	6,321	295	75	314
	50 to 99 lb	4,337	306	69	227
	100 to 499 lb	12,994	2,550	452	182
	500 to 749 lb	4,667	1,388	191	140
	750 to 999 lb	3,596	1,102	182	165
	1,000 to 9,999 lb	35,680	19,005	3,412	177
	10,000 to 49,999 lb	45,705	68,454	19,268	266
	50,000 to 99,999 lb	2,814	10,420	1,414	138
	100,000 lb or more	3,808	16,451	6,279	494
4247	**Petroleum and Petroleum Products Merchant Wholesalers**				
	Total	**610,759**	**846,636**	**52,112**	**70**
	Less than 50 lb	1,438	167	(S)	175
	50 to 99 lb	903	210	20	89
	100 to 499 lb	5,670	2,759	157	63
	500 to 749 lb	2,535	1,998	100	50
	750 to 999 lb	3,743	2,765	141	50
	1,000 to 9,999 lb	58,641	61,605	2,951	49
	10,000 to 49,999 lb	178,158	242,395	16,720	61
	50,000 to 99,999 lb	315,263	454,802	21,589	47
	100,000 lb or more	44,407	79,935	10,406	261
4248	**Beer, Wine, and Distilled Alcoholic Beverages Merchant Wholesalers**				
	Total	**100,154**	**55,667**	**3,194**	**40**
	Less than 50 lb	(S)	214	12	51
	50 to 99 lb	2,209	439	19	43
	100 to 499 lb	16,540	5,719	219	39
	500 to 749 lb	7,176	3,386	121	36
	750 to 999 lb	6,221	3,200	102	32
	1,000 to 9,999 lb	48,410	31,818	1,116	35
	10,000 to 49,999 lb	15,561	10,130	1,574	103
	50,000 to 99,999 lb	727	544	23	42
	100,000 lb or more	173	217	(S)	29
4249	**Miscellaneous Nondurable Goods Merchant Wholesalers**				
	Total	**216,429**	**192,897**	**60,260**	**481**
	Less than 50 lb	18,683	752	354	593
	50 to 99 lb	10,454	532	219	414
	100 to 499 lb	33,694	2,664	741	271
	500 to 749 lb	11,544	1,371	277	202
	750 to 999 lb	8,390	1,206	219	181
	1,000 to 9,999 lb	69,877	21,992	4,593	211
	10,000 to 49,999 lb	42,158	75,439	14,752	175
	50,000 to 99,999 lb	10,805	47,351	10,232	210
	100,000 lb or more	10,824	41,590	28,875	586

See footnotes at end of table.

Table 13.
Shipment Characteristics by Industry and Shipment Weight for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and shipment weight	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)	Average miles per shipment
4541	**Electronic Shopping and Mail-Order Houses**				
	Total	**216,817**	**7,305**	**6,398**	**1,169**
	Less than 50 lb	169,330	3,544	3,977	1,179
	50 to 99 lb	10,292	768	651	871
	100 to 499 lb	13,043	1,122	739	651
	500 to 749 lb	2,004	176	83	482
	750 to 999 lb	1,261	101	(S)	581
	1,000 to 9,999 lb	13,117	898	508	572
	10,000 to 49,999 lb	7,435	684	381	534
	50,000 to 99,999 lb	200	6	(Z)	(S)
	100,000 lb or more	(S)	(S)	(S)	(S)
45431	**Fuel Dealers**				
	Total	**38,220**	**48,438**	**1,784**	**22**
	Less than 50 lb	168	69	1	23
	50 to 99 lb	306	165	3	20
	100 to 499 lb	4,172	3,386	86	24
	500 to 749 lb	3,092	3,459	80	24
	750 to 999 lb	3,776	4,564	91	20
	1,000 to 9,999 lb	19,618	26,111	608	20
	10,000 to 49,999 lb	4,679	7,033	(S)	46
	50,000 to 99,999 lb	2,211	3,399	(S)	124
	100,000 lb or more	199	251	4	19
4931	**Warehousing and Storage**				
	Total	**903,398**	**187,219**	**46,335**	**833**
	Less than 50 lb	48,181	848	734	948
	50 to 99 lb	14,908	447	266	607
	100 to 499 lb	54,329	2,543	967	402
	500 to 749 lb	16,039	1,072	425	388
	750 to 999 lb	14,173	770	364	470
	1,000 to 9,999 lb	211,490	19,387	7,021	405
	10,000 to 49,999 lb	529,710	129,791	29,387	239
	50,000 to 99,999 lb	9,928	19,820	1,950	97
	100,000 lb or more	4,639	12,542	5,220	452
5111	**Newspaper, Periodical, Book, and Directory Publishers**				
	Total	**38,082**	**11,892**	**2,279**	**250**
	Less than 50 lb	6,803	716	196	253
	50 to 99 lb	2,086	352	74	200
	100 to 499 lb	4,969	1,062	225	209
	500 to 749 lb	3,497	430	123	282
	750 to 999 lb	726	183	35	191
	1,000 to 9,999 lb	10,130	4,025	684	157
	10,000 to 49,999 lb	9,123	4,636	817	152
	50,000 to 99,999 lb	715	(S)	(S)	267
	100,000 lb or more	(S)	(S)	(S)	(S)

See footnotes at end of table.

Table 13.
Shipment Characteristics by Industry and Shipment Weight for the United States: 2007—Con.

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

NAICS code	NAICS title and shipment weight	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)	Average miles per shipment
551114	**Corporate, Subsidiary, and Regional Managing Offices**				
	Total	**428,280**	**250,262**	**80,199**	**784**
	Less than 50 lb	62,906	559	477	899
	50 to 99 lb	11,336	276	142	523
	100 to 499 lb	30,275	1,599	613	402
	500 to 749 lb	7,655	853	259	295
	750 to 999 lb	5,637	842	198	233
	1,000 to 9,999 lb	92,539	13,621	4,477	317
	10,000 to 49,999 lb	157,684	84,966	31,655	357
	50,000 to 99,999 lb	14,333	39,509	6,889	181
	100,000 lb or more	45,915	108,037	35,489	671

(S) Estimate did not meet publication standards.
(Z) Estimate is between zero and half the unit shown, thus rounded to zero.

[1] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See "Mileage Calculations" section for additional information.

Note: Value-of-shipments estimates have not been adjusted for price changes. Appendix B tables provide estimated measures of sampling variability. The Introduction and appendixes give 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/cfs>.

Table 14.

Shipment Characteristics by Origin State for the United States: 2007

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

Origin state	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)
Alabama	182,785	268,926	58,222
Alaska	18,184	28,743	12,633
Arizona	164,820	175,439	24,207
Arkansas	101,915	137,545	40,027
California	1,341,220	900,817	180,976
Colorado	125,093	153,635	76,804
Connecticut	142,787	79,117	11,702
Delaware	34,757	25,679	4,422
District of Columbia	2,876	4,505	57
Florida	399,941	540,450	73,811
Georgia	377,718	372,777	70,173
Hawaii	22,043	35,270	1,547
Idaho	38,452	46,584	20,153
Illinois	639,177	626,898	180,924
Indiana	355,503	379,374	75,389
Iowa	156,920	241,008	73,213
Kansas	149,210	178,327	41,690
Kentucky	241,879	408,434	111,257
Louisiana	269,932	475,520	107,733
Maine	30,893	42,786	9,826
Maryland	131,252	127,630	16,713
Massachusetts	212,121	128,169	13,335
Michigan	409,172	282,752	66,965
Minnesota	237,290	285,018	114,425
Mississippi	90,753	127,526	34,461
Missouri	225,954	305,184	77,099
Montana	21,583	85,244	62,620
Nebraska	76,148	161,358	50,805
Nevada	53,126	62,780	9,531
New Hampshire	38,482	32,678	3,311
New Jersey	422,581	230,155	37,087
New Mexico	31,388	62,650	9,470
New York	549,674	335,782	73,793
North Carolina	363,549	267,770	52,366
North Dakota	26,743	95,671	31,700
Ohio	563,187	475,857	96,370
Oklahoma	116,806	184,134	40,620
Oregon	146,886	184,738	49,849
Pennsylvania	489,415	500,393	88,690
Rhode Island	28,662	13,335	1,945
South Carolina	155,619	144,297	30,835
South Dakota	26,677	52,093	21,268
Tennessee	433,270	328,935	67,397
Texas	1,166,608	1,338,753	252,819
Utah	106,690	123,245	40,249
Vermont	17,919	16,034	3,643
Virginia	194,444	246,958	50,629
Washington	215,515	244,906	62,811
West Virginia	49,842	222,895	85,627
Wisconsin	263,658	203,766	64,301
Wyoming	23,753	550,886	559,160

[1] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See “Mileage Calculations” section for additional information.

Note: Value-of-shipments estimates have not been adjusted for price changes. Appendix B tables provide estimated measures of sampling variability. The Introduction and appendixes give 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/cfs>.

Table 15.

Shipment Characteristics by Destination State for the United States: 2007

[Estimates are based on data from the 2007 Commodity Flow Survey. Because of rounding, estimates may not be additive]

Destination state	Value (million dollars)	Tons (thousands)	Ton-miles[1] (millions)
Alabama	188,538	290,505	79,480
Alaska	30,663	28,152	6,990
Arizona	201,423	208,242	47,476
Arkansas	112,095	148,880	56,530
California	1,284,465	948,097	289,160
Colorado	141,964	149,325	43,766
Connecticut	118,778	81,337	13,898
Delaware	36,648	49,786	8,199
District of Columbia	12,754	10,117	908
Florida	556,389	612,664	138,473
Georgia	412,749	438,260	131,584
Hawaii	32,434	37,601	9,068
Idaho	40,932	54,582	15,320
Illinois	580,172	602,160	191,496
Indiana	306,031	386,891	82,232
Iowa	142,422	225,931	52,187
Kansas	123,483	188,068	55,662
Kentucky	225,715	299,035	68,991
Louisiana	274,285	508,908	158,834
Maine	41,113	38,933	10,368
Maryland	204,554	143,546	28,320
Massachusetts	196,256	137,134	24,294
Michigan	417,856	314,613	100,645
Minnesota	199,361	246,404	64,962
Mississippi	104,336	145,240	42,479
Missouri	233,812	330,784	103,234
Montana	37,944	48,108	15,273
Nebraska	64,028	152,229	27,175
Nevada	77,230	80,997	24,222
New Hampshire	40,331	39,640	6,368
New Jersey	350,430	246,017	63,555
New Mexico	46,576	52,718	12,317
New York	597,413	365,002	80,186
North Carolina	337,081	312,827	76,840
North Dakota	29,598	82,605	14,723
Ohio	493,087	538,925	118,380
Oklahoma	134,764	189,351	58,487
Oregon	139,751	190,707	48,527
Pennsylvania	458,381	466,714	98,964
Rhode Island	28,211	16,965	3,067
South Carolina	167,816	181,223	52,324
South Dakota	27,787	48,181	11,018
Tennessee	265,778	309,899	61,908
Texas	1,246,397	1,482,571	402,203
Utah	102,179	104,616	25,883
Vermont	23,680	24,253	3,879
Virginia	250,013	289,631	75,343
Washington	229,033	264,855	103,313
West Virginia	54,125	99,360	15,176
Wisconsin	236,320	241,157	101,671
Wyoming	27,689	89,678	19,302

[1] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See “Mileage Calculations” section for additional information.

Note: Value-of-shipments estimates have not been adjusted for price changes. Appendix B tables provide estimated measures of sampling variability. The Introduction and appendixes give 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/cfs>.

Appendix A.
Comparability With Previous Commodity Flow Surveys

The following tables show a comparison of the commodity classification system, industry coverage, sample size, sample weeks, reported mode of transportation, and data items requested for each shipment among the 1993, 1997, 2002, and 2007 Commodity Flow Surveys (CFS).

Commodity Classification System

1993	1997, 2002, and 2007
Standard Transportation Commodity Classification (STCC), developed by the Association of American Railroads (AAR)	Standard Classification of Transported Goods (SCTG)

Industry Coverage

1993 and 1997	2002	2007
Establishments classified based on the 1987 Standard Industrial Classification (SIC) system.	Establishments classified based on the 1997 North American Industry Classification System (NAICS).	Establishments classified based on the 2002 NAICS.
Publishers were covered—classified in Manufacturing Division.	Publishers were not covered—classified in information sector.[1]	Publishers were covered—classified in information sector.[1]
Logging covered—under Manufacturing Division.	Logging not covered.[2]	Logging not covered.[2]
Other Manufacturing (excluding Printing Trade Services [SIC 279]).	Other manufacturing (excluding pre-press services [NAICS 323122]).	Other manufacturing (excluding pre-press services [NAICS 323122]).
Mining (except mining services [SICs 108, 124, 138, 148] and oil and gas extraction [SICs 131 and 132]).	Mining (except support activities [NAICS 213] and oil and gas extraction [NAICS 211]).	Mining (except support activities [NAICS 213] and oil and gas extraction [NAICS 211]).
Wholesale (merchants and manufacturers' sales branches and government-owned liquor stores).	Wholesale (merchants and manufacturers' sales branches and government-owned liquor stores).	Wholesale (merchants and manufacturers' sales branches and government-owned liquor stores).
Retail—catalog and mail-order houses.	Retail—electronic shopping and mail-order houses.	Retail—electronic shopping and mail-order houses, fuel dealers.
Auxiliaries (e.g., warehouses).	Auxiliaries (e.g., warehouses).	Auxiliaries (e.g., warehouses).[3]

[1] Under NAICS, publishers were reclassified from Manufacturing (SIC 2711, 2721, 2731, 2741, and part of 2771) to Information (NAICS 5111 and 51223) and were excluded in the 2002 CFS. However, for the 2007 CFS, publishers were restored as an in-scope industry.

[2] Because of changes in the classification of establishments between SIC and NAICS, logging establishments (NAICS 1133), which were covered as part of Manufacturing in the 1993 and 1997 surveys, were not included in 2002 and 2007. Detailed information about NAICS classification can be found on the Census Bureau's NAICS Web site.

[3] While included in all surveys, the procedures for identifying in-scope auxiliary establishments have changed over the years. For the 1997 CFS, a managing office was considered in-scope only if it had sales or end-of-year inventories in the 1992 Census. Research conducted prior to the 2002 CFS showed that not all managing offices with shipping activity in the 1997 CFS indicated sales or inventories in the 1997 Economic Census. Consequently, the 1997 Economic Census results were not used to determine scope for managing offices in the 2002 CFS. For 2002, an auxiliary was included if it supported an in-scope or retail company. For the 2007 CFS, an advance survey of approximately 40,000 auxiliary establishments was conducted in 2006 to identify those auxiliary establishments with shipping activity. Those that indicated that shipping was performed (as well as nonrespondents) were included in the CFS sample universe.

Sample Size

1993	1997	2002	2007
Approximately 200,000 establishments selected from a universe of about 790,000 in-scope establishments.	Approximately 100,000 establishments selected from a universe of about 770,000 in-scope establishments.	Approximately 50,000 establishments selected from a universe of about 760,000 in-scope establishments.	Approximately 102,000 establishments selected from a universe of about 754,000 in-scope establishments.

Sample Weeks

1993	1997, 2002, and 2007
Respondents reported for a sample of their individual outbound shipments for a 2-week period during each of the four calendar quarters of the reference year.	Respondents reported for a sample of their individual outbound shipments for a 1-week period during each of the four calendar quarters of the reference year.
Respondents reported key characteristics for each sampled shipment.	Respondents reported key characteristics for each sampled shipment.

Reported Mode of Transportation

1993	1997, 2002, and 2007
For-hire truck	For-hire truck
Private truck	Private truck
Rail	Rail
Air	Air
Inland water	Shallow draft vessel
Deep sea water	Deep draft vessel
Pipeline	Pipeline
Parcel, U.S. Postal Service, or courier	Parcel, U.S. Postal Service, or courier
Other	Other
Unknown	Unknown

Data Items Requested for Each Shipment

1993	1997	2002 and 2007
Total value	Total value	Total value
Total weight	Total weight	Total weight
Standard Transportation Commodity Code (STCC) of the commodity that contributes the most to the shipment's weight	Standard Classification of Transported Goods (SCTG) code of the commodity that contributes the most to the shipment's weight	SCTG code of the commodity that contributes the most to the shipment's weight
All known modes of transportation	All known modes of transportation	All known modes of transportation
Single origin (assumed to be the mailing address unless the respondent provided a different physical location address)	Single origin (assumed to be the mailing address unless the respondent provided a different physical location address)	Single origin (assumed to be the mailing address unless the respondent provided a different physical location address)
Destination	Destination	Destination
Containerized (Y/N)	Containerized (Y/N)	(NA)
(NA)	(NA)	Intermodal (2002-N/A) (2007-Y/N)
Hazardous material (Y/N)	Hazardous material—United Nations or North American (UN/NA) code	Hazardous material—UN/NA code
Export (Y/N)	Export (Y/N)	Export (Y/N)
If export: U.S. exit gateway, mode(s) of transport to the gateway, foreign city and country of destination, and mode(s) of export.	If export: U.S. exit gateway, mode(s) of transport to the gateway, foreign city and country of destination, and mode(s) of export.	If export: U.S. exit gateway, mode(s) of transport to the gateway, foreign city and country of destination, and mode(s) of export.

(NA) Not Available.

Appendix B.
Reliability of the Estimates

INTRODUCTION

The estimates presented by the 2007 Commodity Flow Survey (CFS) may differ from the actual, unknown population values. Statisticians define this difference as the total error of the estimate. When describing the accuracy of survey results, it is convenient to discuss total error as the sum of sampling error and nonsampling error. Sampling error is the average 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. Nonsampling error encompasses all other factors that contribute to the total error of a sample survey estimate.

The sampling error of the estimates in this publication can be estimated from the selected sample because the sample was selected using probability sampling. Common measures related to sampling error are the sampling variance, the standard error, and the coefficient of variation (CV). The sampling variance is the squared difference, averaged over all possible samples of the same size and design, between the estimator and its average value. The standard error is the square root of the sampling variance. The CV expresses the standard error as a percentage of the estimate to which it refers.

Nonsampling errors are difficult to measure and can be introduced through inadequacies in the questionnaire, nonresponse, inaccurate reporting by respondents, errors in the application of survey procedures, incorrect recording of answers, and errors in data entry and processing. In conducting the 2007 CFS, every effort was made to minimize the effect of nonsampling errors on the estimates. Data users should take into account both the measures of sampling error and the potential effects of nonsampling error when using these estimates.

More detailed descriptions of sampling and nonsampling errors for the 2007 CFS are provided in the following sections.

SAMPLING ERROR

Because the estimates are based on a sample, exact agreement with results that would be obtained from a complete enumeration of all shipments made in 2007 from all establishments included on the sampling frame using the same enumeration procedures is not expected. However, because probability sampling was used at each stage of selection, it is possible to estimate the sampling variability of the survey estimates. For CFS estimates, sampling variability arises from each of the three stages of sampling.

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 a 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 (CV or relative standard error) of an estimator is the standard error of the estimator divided by the estimator. For the 2007 CFS, the CV also incorporates the effect of the noise infusion disclosure avoidance method. Note that measures of sampling variability, such as the standard error and CV, are estimated from the sample and are also subject to sampling variability; technically, they should have been referred to as estimated standard error and estimated CV. However, it is important to note that the standard error only measures sampling variability and does not measure systematic biases of the sample. Individuals using estimates contained in this report are advised to incorporate this information into their analyses, as sampling error could affect the conclusions drawn from these estimates.

Data users should exercise caution when using estimates with a high CV. These data are being provided because aggregates of the tabulated estimates can be useful.

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 result

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 result 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 total value of shipments, assume that an estimate of total value is $10,750 million and the CV for this estimate is 1.8 percent, or 0.018. First, obtain the standard error of the estimate by multiplying the value of shipments estimate by its CV. For this example, multiply $10,750 million by 0.018. This yields a standard error of $193.5 million. The upper and lower bounds of the 90 percent confidence interval are computed as $10,750 million plus or minus 1.645 times $193.5 million. Consequently, the 90 percent confidence interval is $10,432 million to $11,068 million. 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.

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 in the survey process. In the CFS, nonsampling error can be attributed to many sources: inability to obtain information about all units in the sample; response errors; differences in the interpretation of the questions; mistakes in coding or keying the data obtained; and 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 their influence. Individuals using estimates in this report should incorporate this information into their analyses, as nonsampling error could affect the conclusions drawn from these estimates.

A potential source of bias in the estimates is nonresponse. “Nonresponse” is defined as the inability to obtain all the intended measurements or responses from all units in the sample. Four levels of nonresponse can occur in the CFS: item, shipment, quarter (reporting week), and establishment. Item nonresponse occurs either when a question is unanswered or the response to the question fails computer or analyst edits. Nonresponse to the shipment value or weight items is corrected by imputation, which is the procedure by which a missing value is replaced by a predicted value obtained from an appropriate model.

Shipment, quarter, and establishment nonresponse are used to describe the inability to obtain any of the substantive measurements about a sampled shipment, quarter, or establishment, respectively. Shipment and quarter nonresponse are corrected by reweighting. Reweighting allocates characteristics to the nonrespondents in proportion to the characteristics observed for the respondents. The amount of bias introduced by this nonresponse adjustment procedure depends on the extent to which the nonrespondents differ, characteristically, from the respondents. Establishment nonresponse is corrected during the estimation procedure by the industry-level adjustment weight. In most cases of establishment nonresponse, none of the four questionnaires have been returned to the U.S. Census Bureau, even after several attempts to elicit a response. Approximately 67 percent of the establishments in the sample provided at least one quarter of data that contributed to these tables.

Some possible sources of bias that are attributed to respondent-conducted sampling include misunderstanding the definition of a shipment, constructing an incomplete frame of shipments from which to sample, ordering the shipment sampling frame by selected shipment characteristics, and selecting shipment records by a method other than the one specified in the questionnaire’s instructions. The respondents who had reported a shipment with untypically large value or weight when compared to the rest of their reported shipments were often contacted for verification. In such cases, if it was feasible to collect information on all of the large shipments a respondent had made either for a particular reporting week or for the entire quarter, then those large shipments were identified as certainty shipments.

DEFINITIONS OF TERMS

Confidentiality

Title 13 of the U.S. Code authorizes the Census Bureau to conduct censuses and surveys. Section 9 of Title 13 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 U.S. Code provide for the imposition of penalties of up to 5 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.

Disclosure Avoidance

Disclosure is the release of data that have been deemed confidential. It generally reveals information about a specific individual or establishment or permits deduction of sensitive information about a particular individual or establishment. Disclosure avoidance is the process used to protect the confidentiality of the survey data provided by an individual or firm. Using disclosure avoidance procedures, the Census Bureau modifies or removes the characteristics that put confidential information at risk of 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.

For the CFS, the primary method of disclosure avoidance is noise infusion. Noise infusion is a method of disclosure avoidance in which values for each shipment are perturbed prior to tabulation by applying a random noise multiplier to the magnitude data—characteristics such as shipment value and weight (but not shipment mileage). Disclosure protection is accomplished in a manner that causes the vast majority of cell values to be perturbed by at most a few percentage points. For sample-based tabulations, such as CFS, the estimated relative standard error for a published cell includes both the estimated sampling error and the amount of perturbation in the estimated cell value due to noise. In certain circumstances, some individual cells may be suppressed on a case-by-case basis for additional disclosure avoidance. In these cases the data are replaced with a "D" in the tables. Other cells in the table may be suppressed because the quality of the data do not meet publication standards. The most common reason for suppressing a cell is a high CV (greater than 50 percent). These suppressed cells are shown with an "S" in the tables.

Unpublished Estimates

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 poor response, high sampling variability, or other factors that may make them potentially misleading.

Individuals who use estimates in this report to create new estimates should cite the Census Bureau as the source of only the original estimates.

Table B-1a.

Estimated Measures of Reliability for Shipment Characteristics by Mode of Transportation for the United States: 2007

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

Mode of transportation	Value		Tons		Ton-miles[1]		Average miles per shipment—coefficient of variation of number
	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	
Total	**0.8**	**–**	**1.6**	**–**	**3.6**	**–**	**2.5**
Single modes	**1.1**	**0.4**	**1.5**	**0.4**	**4.2**	**0.8**	**4.3**
Truck[2]	1.2	0.5	1.3	0.7	1.4	1.3	4.5
For-hire truck	1.5	0.5	1.8	0.7	1.7	1.0	5.2
Private truck	1.4	0.3	1.9	0.5	1.7	0.3	3.6
Rail	6.8	0.2	6.2	0.8	8.7	2.1	4.6
Water	11.0	0.1	8.1	0.3	11.5	0.6	13.1
Shallow draft	12.8	0.1	9.4	0.3	13.2	0.6	40.3
Great Lakes	(S)	(S)	23.8	–	22.9	0.1	15.3
Deep draft	17.5	–	12.3	–	23.9	0.2	12.0
Air (includes truck and air)	8.2	0.2	10.4	–	9.6	–	2.2
Pipeline[3]	6.6	0.2	6.5	0.4	(S)	(S)	(S)
Multiple modes	**1.8**	**0.3**	**5.3**	**0.2**	**5.1**	**0.8**	**2.3**
Parcel, U.S. Postal Service or courier	2.1	0.3	2.6	–	3.0	–	2.4
Truck and rail	5.6	0.1	6.2	0.1	5.0	0.3	6.3
Truck and water	12.5	0.1	15.3	0.2	15.6	0.5	9.0
Rail and water	19.2	–	26.9	0.1	27.6	0.4	13.1
Other multiple modes	13.3	0.1	8.7	0.1	11.4	0.2	14.0
Other and unknown modes	**7.8**	**0.2**	**14.0**	**0.3**	**9.2**	**0.1**	**13.0**

– Estimate equal to zero.

(S) Estimate did not meet publication standards.

[1] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See “Mileage Calculations” section for additional information.

[2] “Truck” as a single mode includes shipments that were made by private truck, only for-hire truck, or a combination of private truck and for-hire truck.

[3] Estimates for pipeline exclude shipments of crude petroleum (SCTG 16).

Note: The Introduction and appendixes give information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions. Links to the information on the Internet may be found at <www.census.gov/cfs>.

Table B-1b.

Estimated Standard Errors for Shipment Characteristics by Mode of Transportation for the United States: 2007 and 2002

[Estimates are shown as percentages and are based on data from the 2007 and 2002 Commodity Flow Surveys]

Mode of transportation	Value—standard error		Tons—standard error		Ton-miles[1]—standard error	
	2007	2002	2007	2002	2007	2002
Total	**–**	**–**	**–**	**–**	**–**	**–**
Single modes	**0.4**	**0.3**	**0.4**	**0.5**	**0.8**	**0.7**
Truck[2]	0.5	0.4	0.7	1.0	1.3	1.5
For-hire truck	0.5	0.6	0.7	1.0	1.0	1.2
Private truck	0.3	0.5	0.5	0.8	0.3	0.4
Rail	0.2	0.2	0.8	0.7	2.1	1.3
Water	0.1	–	0.3	0.4	0.6	0.7
Shallow draft	0.1	–	0.3	0.3	0.6	0.7
Great Lakes	(S)	–	–	–	0.1	0.1
Deep draft	–	–	–	0.3	0.2	0.4
Air (includes truck and air)	0.2	0.4	–	–	–	–
Pipeline[3]	0.2	0.1	0.4	0.4	(S)	(S)
Multiple modes	**0.3**	**0.4**	**0.2**	**0.2**	**0.8**	**0.8**
Parcel, U.S. Postal Service or courier	0.3	0.3	–	–	–	–
Truck and rail	0.1	0.1	0.1	–	0.3	0.1
Truck and water	0.1	–	0.2	–	0.5	0.2
Rail and water	–	–	0.1	0.2	0.4	0.9
Other multiple modes	0.1	–	0.1	–	0.2	0.1
Other and unknown modes	**0.2**	**0.1**	**0.3**	**0.4**	**0.1**	**0.2**

– Estimate equal to zero.

(S) Estimate did not meet publication standards.

[1] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See "Mileage Calculations" section for additional information.

[2] "Truck" as a single mode includes shipments that were made by private truck, only for-hire truck, or a combination of private truck and for-hire truck.

[3] Estimates for pipeline exclude shipments of crude petroleum (SCTG 16).

Notes:

The Introduction and appendixes give information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions. Links to the information on the Internet may be found at <www.census.gov/cfs>.

Generally, estimates that equal zero are not shown and are indicated by "–." However, the 2007 and 2002 Commodity Flow Surveys have different distinctions between an estimate that equals zero and an estimate that rounds to zero. For 2007 data, the "–" represents estimates that equal zero. For 2002 data, the "–" represents estimates that equal or round to zero.

Table B-1c.

Estimated Measures of Reliability for Shipment Characteristics by Mode of Transportation for the United States: 2007 and 2002

[Estimates are based on data from the 2007 and 2002 Commodity Flow Surveys. Because of rounding, estimates may not be additive]

Mode of transportation	Value			Tons			Ton-miles[1]			Average miles per shipment		
	Coefficient of variation of number		Standard error of percentage change	Coefficient of variation of number		Standard error of percentage change	Coefficient of variation of number		Standard error of percentage change	Coefficient of variation of number		Standard error of percentage change
	2007	2002		2007	2002		2007	2002		2007	2002	
Total	**0.8**	**1.3**	**2.1**	**1.6**	**2.0**	**2.8**	**3.6**	**3.7**	**5.4**	**2.5**	**2.9**	**4.4**
Single modes	**1.1**	**1.4**	**2.4**	**1.5**	**2.1**	**2.7**	**4.2**	**3.1**	**5.1**	**4.3**	**7.0**	**8.0**
Truck[2]	1.2	1.4	2.5	1.3	2.6	3.2	1.4	2.8	3.4	4.5	3.7	7.0
For-hire truck	1.5	2.3	3.6	1.8	3.6	4.5	1.7	3.1	3.9	5.2	2.6	6.7
Private truck	1.4	1.6	2.9	1.9	3.4	4.4	1.7	3.9	4.2	3.6	4.2	4.9
Rail	6.8	6.0	12.8	6.2	5.7	8.3	8.7	6.7	11.4	4.6	6.7	7.3
Water	11.0	6.4	16.7	8.1	6.8	6.3	11.5	7.4	7.7	13.1	16.5	19.3
Shallow draft	12.8	8.6	24.8	9.4	7.9	9.2	13.2	10.3	9.3	40.3	15.2	13.8
Great Lakes	(S)	29.1	(S)	23.8	22.3	14.9	22.9	24.5	16.5	15.3	15.0	41.6
Deep draft	17.5	15.4	17.6	12.3	18.0	5.0	23.9	19.2	18.1	12.0	28.6	43.1
Air (includes truck and air)	8.2	11.6	13.5	10.4	11.6	15.0	9.6	15.5	14.1	2.2	4.2	3.2
Pipeline[3]	6.6	6.4	(S)	6.5	6.9	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Multiple modes	**1.8**	**3.3**	**6.5**	**5.3**	**10.0**	**29.9**	**5.1**	**16.5**	**31.9**	**2.3**	**2.2**	**3.5**
Parcel, U.S. Postal Service or courier	2.1	3.3	6.2	2.6	4.4	6.8	3.0	4.2	7.6	2.4	2.3	3.6
Truck and rail	5.6	13.2	38.3	6.2	12.3	72.0	5.0	7.1	37.7	6.3	3.1	5.0
Truck and water	12.5	26.4	118.2	15.3	16.6	139.9	15.6	18.5	72.8	9.0	9.4	9.5
Rail and water	19.2	16.6	104.9	26.9	23.0	18.5	27.6	35.1	18.4	13.1	21.0	49.9
Other multiple modes	13.3	31.8	409.9	8.7	30.7	183.5	11.4	25.2	93.2	14.0	(S)	(S)
Other and unknown modes	**7.8**	**3.0**	**8.8**	**14.0**	**12.6**	**14.0**	**9.2**	**9.7**	**10.3**	**13.0**	**13.0**	**16.4**

(S) Estimate did not meet publication standards.

[1] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See "Mileage Calculations" section for additional information.

[2] "Truck" as a single mode includes shipments that were made by only private truck, only for-hire truck, or a combination of private truck and for-hire truck.

[3] Estimates for pipeline exclude shipments of crude petroleum (SCTG 16).

Note: The Introduction and appendixes give information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions. Links to the information on the Internet may be found at <www.census.gov/cfs>.

Table B-2a.

Estimated Measures of Reliability for Shipment Characteristics by Total Modal Activity for the United States: 2007

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

Mode of transportation	Ton-miles[1]		Average miles per shipment—coefficient of variation of number
	Coefficient of variation of number	Standard error of percentage	
Total	**3.6**	**–**	**2.5**
Truck[2]	1.4	1.3	4.4
Rail	7.7	2.0	4.6
Shallow draft	10.0	0.8	9.9
Great Lakes	27.9	0.3	9.2
Deep draft	17.1	0.4	6.9
Air (includes truck and air)	9.6	–	2.5
Pipeline[3]	(S)	(S)	(S)
Parcel, U.S. Postal Service or courier	3.0	–	2.3
Other and unknown modes	9.3	0.1	12.7

– Estimate equal to zero.

(S) Estimate did not meet publication standards.

[1] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See "Mileage Calculations" section for additional information.

[2] "Truck" as a single mode includes shipments that were made by private truck, only for-hire truck, or a combination of private truck and for-hire truck.

[3] Estimates for pipeline exclude shipments of crude petroleum (SCTG 16).

Note: The Introduction and appendixes give information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions. Links to the information on the Internet may be found at <www.census.gov/cfs>.

Table B-2b.

Estimated Measures of Reliability for Shipment Characteristics by Total Modal Activity for the United States: 2007 and 2002

[Estimates are shown as percentages and are based on data from the 2007 and 2002 Commodity Flow Surveys]

Mode of transportation	Ton-miles[1]			Average miles per shipment		
	Coefficient of variation of number		Standard error of percentage change	Coefficient of variation of number		Standard error of percentage change
	2007	2002		2007	2002	
Total	**3.6**	**3.7**	**5.4**	**2.5**	**2.8**	**4.3**
Truck[2]	1.4	2.8	3.3	4.4	3.6	6.9
Rail	7.7	7.6	12.1	4.6	6.1	7.3
Shallow draft	10.0	9.4	11.1	9.9	13.1	7.8
Great Lakes	27.9	18.1	20.7	9.2	16.0	22.2
Deep draft	17.1	17.3	29.9	6.9	11.1	12.5
Air (includes truck and air)	9.6	15.7	14.4	2.5	4.3	2.9
Pipeline[3]	(S)	(S)	(S)	(S)	(S)	(S)
Parcel, U.S. Postal Service or courier	3.0	4.2	7.6	2.3	2.3	3.6
Other and unknown modes	9.3	9.7	10.3	12.7	13.0	15.7

(S) Estimate did not meet publication standards.

[1] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See "Mileage Calculations" section for additional information.

[2] "Truck" as a single mode includes shipments that were made by private truck, only for-hire truck, or a combination of private truck and for-hire truck.

[3] Estimates for pipeline exclude shipments of crude petroleum (SCTG 16).

Note: The Introduction and appendixes give information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions. Links to the information on the Internet may be found at <www.census.gov/cfs>.

Table B-2c.

Estimated Standard Errors for Shipment Characteristics by Total Modal Activity for the United States: Percentage of Total for 2007 and 2002

[Estimates are shown as percentages and are based on data from the 2007 and 2002 Commodity Flow Surveys]

Mode of transportation	Ton-miles[1]—standard error	
	2007	2002
Total	**–**	**–**
Truck[2]	1.3	1.5
Rail	2.0	1.6
Shallow draft	0.8	0.6
Great Lakes	0.3	0.3
Deep draft	0.4	0.4
Air (includes truck and air)	–	–
Pipeline[3]	(S)	(S)
Parcel, U.S. Postal Service or courier	–	–
Other and unknown modes	0.1	0.2

– Estimate equal to zero.

(S) Estimate did not meet publication standards.

[1] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See "Mileage Calculations" section for additional information.

[2] "Truck" as a single mode includes shipments that were made by private truck, only for-hire truck, or a combination of private truck and for-hire truck.

[3] Estimates for pipeline exclude shipments of crude petroleum (SCTG 16).

Notes:

The Introduction and appendixes give information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions. Links to the information on the Internet may be found at <www.census.gov/cfs>.

Generally, estimates that equal zero are not shown and are indicated by "–." However, the 2007 and 2002 Commodity Flow Surveys have different distinctions between an estimate that equals zero and an estimate that rounds to zero. For 2007 data, the "–" represents estimates that equal zero. For 2002 data, the "–" represents estimates that equal or round to zero.

Table B-3a.

Estimated Measures of Reliability for Shipment Characteristics by Distance Shipped for the United States: 2007

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

Distance shipped[1] (based on Great Circle Distance)	Value		Tons		Ton-miles[2]	
	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage
Total	**0.8**	**–**	**1.6**	**–**	**3.6**	**–**
Less than 50 miles	1.4	0.4	2.1	0.7	2.6	0.2
50 to 99 miles	1.6	0.1	3.2	0.4	3.5	0.2
100 to 249 miles	1.3	0.2	3.2	0.4	4.3	0.6
250 to 499 miles	1.8	0.2	3.4	0.3	3.3	0.7
500 to 749 miles	1.6	0.1	3.5	0.1	3.6	0.4
750 to 999 miles	2.4	0.1	9.7	0.3	9.7	1.1
1,000 to 1,499 miles	2.3	0.1	7.6	0.2	7.4	0.9
1,500 to 1,999 miles	4.5	0.2	5.1	–	4.4	0.3
2,000 miles or more	4.7	0.2	5.6	–	6.8	0.3

– Estimate equal to zero.

[1] Shipments are grouped into distance categories based on Great Circle Distance (GCD). GCD is the shortest distance between two points on the surface of a sphere over the surface of that sphere.

[2] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See "Mileage Calculations" section for additional information.

Note: The Introduction and appendixes give information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions. Links to the information on the Internet may be found at <www.census.gov/cfs>.

Table B-3b.

Estimated Measures of Reliability for Shipment Characteristics by Distance Shipped for the United States: 2007 and 2002

[Estimates are shown as percentages and are based on data from the 2007 and 2002 Commodity Flow Surveys]

Distance shipped[1] (based on Great Circle Distance)	Value			Tons			Ton-miles[2]		
	Coefficient of variation of number		Standard error of percentage change	Coefficient of variation of number		Standard error of percentage change	Coefficient of variation of number		Standard error of percentage change
	2007	2002		2007	2002		2007	2002	
Total	**0.8**	**1.3**	**2.1**	**1.6**	**2.0**	**2.8**	**3.6**	**3.7**	**5.4**
Less than 50 miles	1.4	1.4	3.0	2.1	3.2	4.2	2.6	3.9	5.8
50 to 99 miles	1.6	1.8	3.5	3.2	5.8	7.1	3.5	5.8	7.5
100 to 249 miles	1.3	2.0	3.2	3.2	2.9	4.6	4.3	2.8	5.9
250 to 499 miles	1.8	2.3	3.8	3.4	3.2	4.6	3.3	3.9	5.1
500 to 749 miles	1.6	3.4	4.5	3.5	3.1	4.8	3.6	3.6	5.4
750 to 999 miles	2.4	4.0	6.2	9.7	6.2	13.3	9.7	6.4	13.8
1,000 to 1,499 miles	2.3	3.3	5.9	7.6	11.2	12.7	7.4	12.0	13.2
1,500 to 1,999 miles	4.5	5.8	10.3	5.1	6.9	8.2	4.4	7.0	7.9
2,000 miles or more	4.7	6.3	9.5	5.6	3.9	8.1	6.8	4.3	10.2

[1] Shipments are grouped into distance categories based on Great Circle Distance (GCD). GCD is the shortest distance between two points on the surface of a sphere over the surface of that sphere.

[2] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See "Mileage Calculations" section for additional information.

Note: The Introduction and appendixes give information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions. Links to the information on the Internet may be found at <www.census.gov/cfs>.

Table B-3c.

Estimated Standard Errors for Shipment Characteristics by Distance Shipped for the United States: Percentage of Total for 2007 and 2002

[Estimates are shown as percentages and are based on data from the 2007 and 2002 Commodity Flow Surveys]

Distance shipped[1] (based on Great Circle Distance)	Value—standard error		Tons—standard error		Ton-miles[2]—standard error	
	2007	2002	2007	2002	2007	2002
Total	–	–	–	–	–	–
Less than 50 miles	0.4	0.4	0.7	1.0	0.2	0.2
50 to 99 miles	0.1	0.2	0.4	0.5	0.2	0.2
100 to 249 miles	0.2	0.3	0.4	0.4	0.6	0.4
250 to 499 miles	0.2	0.2	0.3	0.4	0.7	0.8
500 to 749 miles	0.1	0.3	0.1	0.2	0.4	0.6
750 to 999 miles	0.1	0.2	0.3	0.2	1.1	0.7
1,000 to 1,499 miles	0.1	0.2	0.2	0.4	0.9	1.7
1,500 to 1,999 miles	0.2	0.2	–	–	0.3	0.4
2,000 miles or more	0.2	0.2	–	–	0.3	0.2

– Estimate equal to zero.

[1] Shipments are grouped into distance categories based on Great Circle Distance (GCD). GCD is the shortest distance between two points on the surface of a sphere over the surface of that sphere.

[2] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See "Mileage Calculations" section for additional information.

Notes:

The Introduction and appendixes give information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions. Links to the information on the Internet may be found at <www.census.gov/cfs>.

Generally, estimates that equal zero are not shown and are indicated by "–." However, the 2007 and 2002 Commodity Flow Surveys have different distinctions between an estimate that equals zero and an estimate that rounds to zero. For 2007 data, the "–" represents estimates that equal zero. For 2002 data, the "–" represents estimates that equal or round to zero.

Table B-4a.

Estimated Measures of Reliability for Shipment Characteristics by Shipment Weight for the United States: 2007

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

Shipment weight	Value		Tons		Ton-miles[1]		Average miles per shipment—coefficient of variation of number
	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	
Total	**0.8**	**–**	**1.6**	**–**	**3.6**	**–**	**2.5**
Less than 50 lb	1.9	0.3	2.1	–	3.4	–	2.6
50 to 99 lb	2.6	0.1	2.0	–	3.9	–	3.0
100 to 499 lb	1.9	0.2	1.4	–	3.4	–	2.7
500 to 749 lb	1.9	–	1.3	–	2.4	–	2.6
750 to 999 lb	3.1	0.1	1.7	–	5.5	–	4.8
1,000 to 9,999 lb	1.8	0.4	1.1	0.1	1.7	0.2	1.7
10,000 to 49,999 lb	1.8	0.5	1.8	0.4	1.2	0.9	1.5
50,000 to 99,999 lb	3.3	0.2	2.2	0.5	3.1	0.2	3.0
100,000 lb or more	4.4	0.4	3.3	0.6	5.9	1.3	2.9

– Estimate equal to zero.

[1] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See "Mileage Calculations" section for additional information.

Note: The Introduction and appendixes give information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions. Links to the information on the Internet may be found at <www.census.gov/cfs>.

Table B-4b.

Estimated Measures of Reliability for Shipment Characteristics by Shipment Weight for the United States: 2007 and 2002

[Estimates are shown as percentages and are based on data from the 2007 and 2002 Commodity Flow Surveys]

Shipment weight	Value			Tons			Ton-miles[1]			Average miles per shipment		
	Coefficient of variation of number		Standard error of percentage change	Coefficient of variation of number		Standard error of percentage change	Coefficient of variation of number		Standard error of percentage change	Coefficient of variation of number		Standard error of percentage change
	2007	2002		2007	2002		2007	2002		2007	2002	
Total	0.8	1.3	2.1	1.6	2.0	2.8	3.6	3.7	5.4	2.5	2.9	4.4
Less than 50 lb	1.9	2.5	4.7	2.1	2.7	4.5	3.4	3.5	7.4	2.6	2.8	4.2
50 to 99 lb	2.6	5.6	8.1	2.0	4.7	5.9	3.9	6.8	10.3	3.0	5.4	7.0
100 to 499 lb	1.9	3.0	4.7	1.4	3.4	4.1	3.4	2.6	5.1	2.7	3.5	4.8
500 to 749 lb	1.9	3.3	4.8	1.3	3.3	4.2	2.4	2.8	4.3	2.6	3.3	4.2
750 to 999 lb	3.1	3.8	6.1	1.7	4.6	6.0	5.5	2.6	7.6	4.8	4.4	6.5
1,000 to 9,999 lb	1.8	2.6	4.3	1.1	1.9	2.5	1.7	3.7	4.4	1.7	2.8	3.0
10,000 to 49,999 lb	1.8	1.7	3.2	1.8	3.3	4.4	1.2	2.1	2.7	1.5	2.7	3.0
50,000 to 99,999 lb	3.3	3.6	8.5	2.2	3.8	4.8	3.1	4.6	6.2	3.0	4.5	5.5
100,000 lb or more	4.4	6.5	14.3	3.3	3.4	4.4	5.9	6.2	8.7	2.9	3.2	5.4

[1] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See "Mileage Calculations" section for additional information.

Note: The Introduction and appendixes give information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions. Links to the information on the Internet may be found at <www.census.gov/cfs>.

Table B-4c.

Estimated Standard Errors for Shipment Characteristics by Shipment Weight for the United States: Percentage of Total for 2007 and 2002

[Estimates are shown as percentages and are based on data from the 2007 and 2002 Commodity Flow Surveys]

Shipment weight	Value—standard error		Tons—standard error		Ton-miles[1]—standard error	
	2007	2002	2007	2002	2007	2002
Total	–	–	–	–	–	–
Less than 50 lb	0.3	0.3	–	–	–	–
50 to 99 lb	0.1	0.2	–	–	–	–
100 to 499 lb	0.2	0.3	–	–	–	–
500 to 749 lb	–	0.1	–	–	–	–
750 to 999 lb	0.1	–	–	–	–	–
1,000 to 9,999 lb	0.4	0.3	0.1	0.1	0.2	0.2
10,000 to 49,999 lb	0.5	0.5	0.4	0.8	0.9	0.9
50,000 to 99,999 lb	0.2	0.2	0.5	0.5	0.2	0.3
100,000 lb or more	0.4	0.5	0.6	1.0	1.3	1.3

– Estimate equal to zero.

[1] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See “Mileage Calculations” section for additional information.

Notes:

The Introduction and appendixes give information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions. Links to the information on the Internet may be found at <www.census.gov/cfs>.

Generally, estimates that equal zero are not shown and are indicated by “–.” However, the 2007 and 2002 Commodity Flow Surveys have different distinctions between an estimate that equals zero and an estimate that rounds to zero. For 2007 data, the “–” represents estimates that equal zero. For 2002 data, the “–” represents estimates that equal or round to zero.

Table B-5a.

Estimated Measures of Reliability for Shipment Characteristics by Two-Digit Commodity for the United States: 2007

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code	Commodity description	Value		Tons		Ton-miles[1]		Average miles per shipment—coefficient of variation of number
		Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	
	Total[2]	**0.8**	**–**	**1.6**	**–**	**3.6**	**–**	**2.5**
01	Live animals and live fish	25.3	–	20.4	–	39.1	0.1	15.0
02	Cereal grains	6.7	–	6.3	0.3	11.3	0.6	12.0
03	Other agricultural products	5.7	0.1	4.0	0.1	6.0	0.2	14.4
04	Animal feed and products of animal origin, n.e.c.	6.5	0.1	6.4	0.1	9.2	0.2	13.2
05	Meat, fish, seafood, and their preparations	3.7	0.1	4.0	–	8.3	0.1	12.9
06	Milled grain products and preparations, and bakery products	4.9	0.1	4.6	0.1	5.6	0.1	16.0
07	Other prepared foodstuffs and fats and oils	2.4	0.1	3.1	0.1	4.7	0.3	13.0
08	Alcoholic beverages	3.8	–	3.5	–	6.2	0.1	14.9
09	Tobacco products	9.5	0.1	26.9	–	10.4	–	13.8
10	Monumental or building stone	14.5	–	20.5	–	13.1	–	13.3
11	Natural sands	7.4	–	8.3	0.3	15.7	0.2	10.7
12	Gravel and crushed stone	3.2	–	2.9	0.4	10.5	0.5	3.7
13	Nonmetallic minerals n.e.c	5.6	–	6.1	0.1	8.3	0.1	16.6
14	Metallic ores and concentrates	15.8	–	17.4	0.1	29.4	0.4	9.4
15	Coal	7.1	–	7.6	0.7	12.2	2.1	8.8
17	Gasoline and aviation turbine fuel	4.5	0.2	4.3	0.4	9.7	0.2	6.5
18	Fuel oils	3.5	0.1	4.1	0.2	7.4	0.1	9.2
19	Coal and petroleum products, n.e.c.	4.1	0.1	4.0	0.2	7.6	0.3	12.9
20	Basic chemicals	6.2	0.1	7.0	0.2	10.7	0.5	10.9
21	Pharmaceutical products	6.2	0.4	11.0	–	8.6	–	6.6
22	Fertilizers	9.2	–	10.3	0.1	14.9	0.3	9.5
23	Chemical products and preparations, n.e.c	5.9	0.2	4.9	–	5.8	0.1	7.2
24	Plastics and rubber	2.4	0.1	4.0	0.1	4.9	0.2	8.5
25	Logs and other wood in the rough	13.1	–	21.0	0.2	13.9	0.1	44.2
26	Wood products	2.9	–	2.7	0.1	4.2	0.1	10.9
27	Pulp, newsprint, paper, and paperboard	3.8	–	3.6	–	5.8	0.1	14.6
28	Paper or paperboard articles	3.0	–	5.7	–	7.8	0.1	13.5
29	Printed products	4.4	0.1	5.0	–	6.8	0.1	8.7
30	Textiles, leather, and articles of textiles or leather	5.9	0.2	5.5	–	13.7	0.1	3.2
31	Nonmetallic mineral products	3.0	–	4.1	0.3	6.8	0.2	10.1
32	Base metal in primary or semifinished forms and in finished basic shapes	3.3	0.1	3.8	0.1	6.2	0.3	10.7
33	Articles of base metal	2.7	0.1	5.2	0.1	4.1	0.1	8.5
34	Machinery	3.6	0.2	3.0	–	5.9	0.1	5.4
35	Electronic and other electrical equipment and components and office equipment	2.7	0.2	4.6	–	5.7	0.1	3.5
36	Motorized and other vehicles (including parts)	5.6	0.4	5.2	–	5.0	0.1	6.9
37	Transportation equipment, n.e.c	10.6	0.1	18.1	–	12.1	–	3.9
38	Precision instruments and apparatus	4.6	0.1	31.1	–	20.0	–	4.3
39	Furniture, mattresses and mattress supports, lamps, lighting fittings, and illuminated signs	4.5	0.1	6.2	–	7.4	–	5.3
40	Miscellaneous manufactured products	1.9	0.1	6.3	0.1	5.0	0.1	2.4
41	Waste and scrap	8.3	0.1	23.1	0.5	18.3	0.3	23.2
43	Mixed freight	2.2	0.2	2.9	0.1	3.0	0.1	4.7
99	Commodity unknown	16.2	–	(S)	–	26.0	–	18.7

– Estimate equal to zero.

(S) Estimate did not meet publication standards.

[1] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See “Mileage Calculations” section for additional information.

[2] Estimates exclude shipments of crude petroleum (SCTG 16).

Note: The Introduction and appendixes give information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions. Links to the information on the Internet may be found at <www.census.gov/cfs>.

Table B-5b.

Estimated Standard Errors for Shipment Characteristics by Two-Digit Commodity for the United States: Percentage of Total for 2007 and 2002

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code	Commodity description	Value—standard error		Tons—standard error		Ton-miles[1]—standard error	
		2007	2002	2007	2002	2007	2002
	Total[2]	100.0	100.0	100.0	100.0	100.0	100.0
01	Live animals and live fish	0.1	–	(Z)	–	0.1	–
02	Cereal grains	0.7	0.6	4.1	4.8	6.1	8.4
03	Other agricultural products	1.2	1.5	1.7	2.2	2.6	3.5
04	Animal feed and products of animal origin, n.e.c.	0.8	0.6	2.0	2.0	2.3	1.6
05	Meat, fish, seafood, and their preparations	2.4	2.4	0.8	0.7	1.5	1.3
06	Milled grain products and preparations, and bakery products	1.2	1.4	1.0	0.9	1.5	1.6
07	Other prepared foodstuffs and fats and oils	4.1	4.2	3.7	3.8	5.1	5.1
08	Alcoholic beverages	1.4	1.3	0.9	0.8	1.1	0.8
09	Tobacco products	0.6	0.8	(Z)	–	(Z)	–
10	Monumental or building stone	(Z)	–	0.2	0.2	0.1	–
11	Natural sands	0.1	–	3.7	4.1	1.2	1.0
12	Gravel and crushed stone	0.2	0.2	16.3	16.0	4.4	3.4
13	Nonmetallic minerals n.e.c	0.1	0.1	2.2	1.6	1.6	1.8
14	Metallic ores and concentrates	0.3	0.2	0.6	0.8	1.2	2.0
15	Coal	0.3	0.3	11.3	10.6	25.0	21.9
17	Gasoline and aviation turbine fuel	5.7	3.3	7.6	9.1	2.1	3.7
18	Fuel oils	3.2	1.4	5.1	4.7	1.6	1.8
19	Coal and petroleum products, n.e.c.	2.3	1.0	4.6	3.8	3.8	3.0
20	Basic chemicals	2.3	1.8	3.3	3.0	5.1	3.7
21	Pharmaceutical products	6.6	5.7	0.2	0.2	0.2	0.4
22	Fertilizers	0.4	0.4	1.2	2.3	1.8	2.8
23	Chemical products and preparations, n.e.c	2.8	2.7	1.0	0.9	1.7	1.7
24	Plastics and rubber	4.2	3.9	1.5	1.2	3.1	2.6
25	Logs and other wood in the rough	0.1	–	0.9	(S)	0.3	0.2
26	Wood products	1.6	1.9	2.6	3.0	3.0	3.8
27	Pulp, newsprint, paper, and paperboard	1.1	1.2	1.2	1.2	2.5	2.5
28	Paper or paperboard articles	1.0	1.2	0.7	0.6	0.9	0.7
29	Printed products	1.6	1.6	0.4	0.3	0.7	0.5
30	Textiles, leather, and articles of textiles or leather	4.1	5.6	0.4	0.4	0.9	1.0
31	Nonmetallic mineral products	1.7	1.8	9.2	8.3	3.4	4.3
32	Base metal in primary or semifinished forms and in finished basic shapes	4.2	3.1	2.9	2.8	3.9	3.9
33	Articles of base metal	3.3	2.8	1.1	1.0	1.6	1.4
34	Machinery	5.4	5.8	0.5	0.5	1.1	1.1
35	Electronic and other electrical equipment and components and office equipment	9.0	10.6	0.4	0.4	0.9	1.0
36	Motorized and other vehicles (including parts)	7.8	8.9	1.1	1.1	1.9	1.9
37	Transportation equipment, n.e.c	1.5	1.8	0.1	0.2	0.1	0.3
38	Precision instruments and apparatus	2.6	2.7	(Z)	0.2	0.1	0.1
39	Furniture, mattresses and mattress supports, lamps, lighting fittings, and illuminated signs	1.3	1.7	0.2	0.3	0.4	0.4
40	Miscellaneous manufactured products	4.2	4.6	0.7	0.7	1.3	1.1
41	Waste and scrap	0.7	0.5	2.4	1.9	2.0	1.5
43	Mixed freight	8.0	10.0	2.4	2.6	1.7	1.7
99	Commodity unknown	(Z)	0.2	(Z)	0.2	(Z)	0.3

– Estimate equal to zero.

(S) Estimate did not meet publication standards.

(Z) Estimate is between zero and half the unit shown, thus rounded down to zero.

[1] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See "Mileage Calculations" section for additional information.

[2] Estimates exclude shipments of crude petroleum (SCTG 16).

Notes:

The Introduction and appendixes give information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions. Links to the information on the Internet may be found at <www.census.gov/cfs>.

Generally, estimates that equal zero are not shown and are indicated by "–." However, the 2007 and 2002 Commodity Flow Surveys have different distinctions between an estimate that equals zero and an estimate that rounds to zero. For 2007 data, the "–" represents estimates that equal zero. For 2002 data, the "–" represents estimates that equal or round to zero.

Table B-5c.

Estimated Measures of Reliability for Shipment Characteristics by Two-Digit Commodity for the United States: 2007 and 2002

[Estimates are shown as percentages and are based on data from the 2007 and 2002 Commodity Flow Surveys]

SCTG code	Commodity description	Value			Tons			Ton-miles[1]			Average miles per shipment—coefficient of variation of number
		Coefficient of variation of number		Standard error of percentage	Coefficient of variation of number		Standard error of percentage	Coefficient of variation of number		Standard error of percentage	
		2007	2002	2007	2007	2002	2007	2007	2002	2007	
	Total[2]	**0.8**	**1.3**	**2.1**	**1.6**	**2.0**	**2.8**	**3.6**	**3.7**	**5.4**	**4.4**
01	Live animals and live fish	25.3	21.1	(S)	20.4	24.5	(S)	39.1	26.0	117.0	32.9
02	Cereal grains	6.7	7.1	15.3	6.3	7.5	9.0	11.3	18.1	16.4	16.3
03	Other agricultural products	5.7	10.4	13.2	4.0	7.8	7.1	6.0	7.4	7.7	13.9
04	Animal feed and products of animal origin, n.e.c.	6.5	9.6	20.1	6.4	14.1	16.7	9.2	10.0	20.1	84.0
05	Meat, fish, seafood, and their preparations	3.7	4.2	7.6	4.0	4.6	7.0	8.3	6.5	12.1	30.5
06	Milled grain products and preparations, and bakery products	4.9	8.2	12.0	4.6	7.2	9.4	5.6	6.8	9.1	53.3
07	Other prepared foodstuffs and fats and oils	2.4	4.4	6.8	3.1	5.2	6.3	4.7	6.3	8.4	32.8
08	Alcoholic beverages	3.8	6.1	10.3	3.5	5.8	8.4	6.2	12.8	20.0	22.8
09	Tobacco products	9.5	14.4	(S)	26.9	29.9	(S)	10.4	36.3	15.0	31.8
10	Monumental or building stone	14.5	29.1	(S)	20.5	29.9	(S)	13.1	22.1	50.9	15.6
11	Natural sands	7.4	6.8	18.3	8.3	9.1	12.0	15.7	11.8	27.1	18.5
12	Gravel and crushed stone	3.2	6.7	12.2	2.9	9.0	10.3	10.5	10.5	20.7	10.6
13	Nonmetallic minerals n.e.c	5.6	11.5	21.2	6.1	11.9	19.7	8.3	18.7	18.8	27.7
14	Metallic ores and concentrates	15.8	14.0	49.8	17.4	12.4	16.6	29.4	18.1	21.0	13.0
15	Coal	7.1	8.0	17.9	7.6	8.8	13.2	12.2	16.8	25.0	10.7
17	Gasoline and aviation turbine fuel	4.5	4.4	14.9	4.3	5.0	6.0	9.7	9.8	8.1	10.0
18	Fuel oils	3.5	6.0	(S)	4.1	6.0	(S)	7.4	10.1	12.4	16.3
19	Coal and petroleum products, n.e.c.	4.1	7.5	28.1	4.0	10.2	14.2	7.6	11.1	18.4	30.3
20	Basic chemicals	6.2	7.7	17.6	7.0	12.6	17.1	10.7	10.8	22.7	19.3
21	Pharmaceutical products	6.2	9.5	18.5	11.0	16.7	15.6	8.6	21.0	16.2	8.0
22	Fertilizers	9.2	16.9	24.5	10.3	30.2	(S)	14.9	24.7	19.3	32.6
23	Chemical products and preparations, n.e.c	5.9	5.0	11.3	4.9	5.1	8.3	5.8	7.9	10.7	16.9
24	Plastics and rubber	2.4	3.6	6.5	4.0	4.0	7.6	4.9	5.2	9.3	13.6
25	Logs and other wood in the rough	13.1	24.2	33.9	21.0	(S)	(S)	13.9	34.4	53.2	(S)
26	Wood products	2.9	8.4	10.3	2.7	9.2	9.0	4.2	11.7	10.4	20.5
27	Pulp, newsprint, paper, and paperboard	3.8	5.2	7.9	3.6	6.2	7.5	5.8	7.4	9.8	25.8
28	Paper or paperboard articles	3.0	4.0	5.7	5.7	5.2	9.1	7.8	8.5	14.1	30.0
29	Printed products	4.4	7.6	12.4	5.0	8.1	14.3	6.8	8.5	14.4	6.8
30	Textiles, leather, and articles of textiles or leather	5.9	5.4	8.2	5.5	7.5	8.5	13.7	10.5	16.8	4.6
31	Nonmetallic mineral products	3.0	7.0	9.6	4.1	9.0	11.8	6.8	11.9	11.6	17.4
32	Base metal in primary or semifinished forms and in finished basic shapes	3.3	5.0	11.2	3.8	6.3	8.2	6.2	6.0	9.2	19.7
33	Articles of base metal	2.7	3.9	7.8	5.2	9.5	12.3	4.1	7.0	9.9	14.6
34	Machinery	3.6	5.7	8.7	3.0	7.7	8.7	5.9	9.0	11.5	11.3
35	Electronic and other electrical equipment and components and office equipment	2.7	5.6	7.3	4.6	9.7	10.3	5.7	11.9	13.8	6.9
36	Motorized and other vehicles (including parts)	5.6	8.3	12.1	5.2	7.6	9.2	5.0	10.1	12.3	17.5
37	Transportation equipment, n.e.c	10.6	23.3	28.5	18.1	40.9	16.6	12.1	41.7	18.3	5.3
38	Precision instruments and apparatus	4.6	7.9	12.3	31.1	18.3	11.1	20.0	12.6	21.1	9.9
39	Furniture, mattresses and mattress supports, lamps, lighting fittings, and illuminated signs	4.5	6.2	8.3	6.2	11.8	10.9	7.4	6.4	10.7	12.1
40	Miscellaneous manufactured products	1.9	5.4	7.3	6.3	10.5	14.2	5.0	7.7	11.1	5.0
41	Waste and scrap	8.3	14.4	36.2	23.1	16.8	40.3	18.3	25.8	44.3	23.3
43	Mixed freight	2.2	3.6	4.6	2.9	5.6	6.3	3.0	5.0	6.2	10.3
99	Commodity unknown	16.2	9.9	1.6	(S)	22.3	(S)	26.0	41.7	0.8	20.7

(S) Estimate did not meet publication standards.

[1] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See "Mileage Calculations" section for additional information.

[2] Estimates exclude shipments of crude petroleum (SCTG 16).

Note: The Introduction and appendixes give information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions. Links to the information on the Internet may be found at <www.census.gov/cfs>.

Table B-6.

Estimated Measures of Reliability for Shipment Characteristics by Three-Digit Commodity for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code	Commodity description	Value		Tons		Ton-miles[1]		Average miles per shipment—coefficient of variation of number
		Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	
	Total[2]	**0.8**	**–**	**1.6**	**–**	**3.6**	**–**	**2.5**
010	Live animals and live fish	25.3	–	20.4	–	39.1	0.1	15.0
021	Wheat	11.5	–	12.7	0.1	18.4	0.3	16.7
022	Corn, except sweet	6.7	–	6.6	0.2	12.2	0.5	15.0
029	Other cereal grains	20.2	–	24.0	0.1	39.0	0.2	24.5
031	Fresh or chilled potatoes (Irish potatoes), except sweet	16.7	–	17.3	–	25.0	0.1	27.1
032	Fresh or chilled edible vegetables, except potatoes (Irish potatoes), and dried vegetables	10.1	–	9.4	–	14.7	0.1	19.2
033	Fresh, chilled, or dried edible fruit and nuts	12.4	–	11.6	–	14.5	0.1	16.7
034	Soy beans	6.6	–	6.6	0.1	10.1	0.1	17.4
035	Oil seeds and nuts, except olives and soy beans	17.6	–	22.3	–	22.5	–	13.0
036	Bulbs, live plants, and seeds for sowing, n.e.c	14.7	–	19.6	–	21.8	–	11.4
039	Fresh-cut flowers, plants, and parts of plants, and other agricultural products, except forage products and cereal straw or husks	9.4	–	14.7	–	18.3	–	28.0
041	Cereal straw or husks, forage products, residues and waste from the food industries used in animal feeding, and eggs and other products of animal origin, n.e.c	12.4	–	9.6	0.1	13.3	0.2	13.1
042	Animal feed preparations	8.7	–	9.1	0.1	15.1	0.2	13.5
051	Meat including poultry, except preparations	4.1	0.1	4.6	–	9.6	0.1	14.0
052	Fish, except live, and seafood, except preparations	5.7	–	7.2	–	8.5	–	17.4
053	Preparations, extracts, and juices of meat, fish, or seafood	11.0	–	19.1	–	26.6	–	27.2
061	Wheat flour, groats, and meal	14.2	–	16.4	–	18.5	–	19.6
062	Malt, starches, inulin, wheat gluten, and milled or otherwise worked grains, except wheat flour, groats, and meal	13.6	–	10.9	–	15.4	0.1	16.3
063	Food preparations of cereals, flour, starch, or milk	6.4	–	5.6	–	7.5	–	14.9
064	Bakery products	7.1	–	6.5	–	11.3	0.1	19.2
071	Dairy products, except chocolate milk, eggnog, and food preparations of milk	4.2	–	9.2	0.1	4.5	0.1	14.4
072	Processed or prepared vegetables, fruit, or nuts, except dried or milled, and juices	4.4	–	6.6	–	11.9	0.2	12.6
073	Coffee, tea, and spices, except unprocessed coffee and unfermented tea	12.8	–	12.0	–	11.8	–	12.0
074	Animal or vegetable fats and oils and their cleavage products, prepared edible fats, animal or vegetable waxes, and flours and meals	7.7	–	8.1	–	8.2	0.1	20.0
075	Cane, beet, and other sugars in solid form, sugar syrups not containing added flavoring or coloring matter, and molasses	14.0	–	20.1	0.1	10.4	0.1	18.5
076	Confectionery, cocoa, and cocoa preparations	9.2	–	9.9	–	10.7	–	10.2
077	Edible preparations, n.e.c. and vinegar	6.7	–	7.1	–	7.3	0.1	12.1
078	Nonalcoholic beverages, n.e.c. and ice	3.6	–	5.6	0.1	9.8	0.1	10.0
081	Malt beer	3.9	–	4.5	–	11.1	0.1	3.4
082	Wine and other fermented beverages	9.4	–	12.3	–	16.0	–	24.0
083	Spirituous beverages and ethyl alcohol	5.9	–	9.1	–	14.2	–	10.9
–	Tobacco products	9.5	0.1	26.9	–	10.4	–	13.8
100	Monumental or building stone, except dolomite	14.5	–	20.5	–	13.1	–	13.3
110	Natural sands, except metal-bearing	7.4	–	8.3	0.3	15.7	0.2	10.7
120	Gravel and crushed stone, except dolomite and slate	3.2	–	2.9	0.4	10.5	0.5	3.7
131	Salt	16.2	–	17.3	0.1	16.4	0.1	21.9
132	Natural calcium phosphates, natural aluminum-calcium phosphates, and phosphatic chalk	32.7	–	39.9	0.1	31.1	–	24.7
133	Dolomite	14.4	–	16.3	0.1	26.4	–	17.0
139	Other nonmetallic minerals	9.5	–	12.2	0.1	10.8	0.1	16.0
141	Iron ores and concentrates	14.7	–	20.7	0.1	39.5	0.4	45.6
149	Other metallic ores and concentrates	18.3	–	13.2	–	15.2	–	8.2
151	Nonagglomerated bituminous coal	7.6	–	8.4	0.7	12.2	2.1	9.8
159	Other coal	22.0	–	26.2	0.2	23.5	–	41.8
171	Gasoline	4.9	0.2	4.8	0.3	9.8	0.2	6.6
172	Aviation turbine fuel (types A and B)	11.2	–	10.8	0.1	21.8	–	14.2

See footnotes at end of table.

Table B-6.

Estimated Measures of Reliability for Shipment Characteristics by Three-Digit Commodity for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code	Commodity description	Value		Tons		Ton-miles[1]		Average miles per shipment—coefficient of variation of number
		Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	
180	Fuel oils	3.5	0.1	4.1	0.2	7.4	0.1	9.2
191	Lubricating oils and greases	9.4	0.1	11.2	0.1	16.0	0.1	15.4
192	Refined petroleum oils and oils obtained from bituminous minerals, n.e.c.	10.3	–	11.5	0.1	28.3	0.3	20.2
193	Gaseous hydrocarbons	11.0	0.1	12.1	0.1	22.1	0.1	10.1
199	Other products of petroleum refining, and coal products	10.1	–	7.8	0.2	9.4	0.1	8.1
201	Sodium hydroxide (caustic soda) and potassium hydroxide (caustic potash)	9.8	–	7.4	–	13.1	–	18.3
202	Inorganic chemicals, n.e.c.	8.3	0.1	10.5	0.2	16.9	0.5	10.4
203	Cyclic hydrocarbons	14.2	–	17.7	–	21.2	–	13.3
204	Phenols, phenol-alcohols, aldehydes, cyclic polymers of aldehydes, paraformaldehyde, ketones, quinones, organic acids, and acyclic alcohols	15.6	–	12.6	–	14.2	0.1	8.5
205	Organic chemicals, n.e.c.	8.4	0.1	12.5	0.1	16.9	0.2	10.6
210	Pharmaceutical products	6.2	0.4	11.0	–	8.6	–	6.6
220	Fertilizers and fertilizer materials	9.2	–	10.3	0.1	14.9	0.3	9.5
231	Paints and varnishes, tanning or dyeing extracts, tannins and their derivatives, dyes, putty and other mastics, inks, and coloring matter, except pigments and synthetic organic dyes, lakes, and toners	6.1	–	7.3	–	13.6	0.1	14.2
232	Essential oils and resinoids, and perfumery, cosmetic, or toilet preparations	10.9	0.1	11.7	–	12.3	–	7.3
233	Soap, organic surface-active agents, cleaning preparations, polishes and creams, and scouring preparations	11.7	0.1	8.4	–	12.7	0.1	8.0
234	Photographic film, plates, paper, paperboard, or textiles, and chemical preparations for photographic use	23.1	–	19.3	–	27.4	–	15.8
235	Insecticides, rodenticides, fungicides, herbicides, antisprouting products, plant-growth regulators, disinfectants, and similar products, in packages for retail sale or as preparations or articles	9.4	–	15.3	–	20.5	–	14.1
239	Other chemical products and preparations	6.2	–	8.1	–	8.6	–	9.0
241	Plastics in primary forms, rubber in primary forms or sheets, and unvulcanized compounded rubber	6.0	0.1	8.0	–	9.9	0.1	10.4
242	Manmade fibers and plastics basic shapes and articles	2.2	0.1	3.4	–	3.8	0.1	6.8
243	Rubber articles	6.0	0.1	8.4	–	12.6	0.1	15.0
250	Logs and other wood in the rough	13.1	–	21.0	0.2	13.9	0.1	44.2
261	Wood chips or particles	7.8	–	9.4	0.1	8.6	–	8.7
262	Lumber, wood continuously shaped along any of its edges or faces, and shingles and shakes	3.1	–	3.5	–	6.2	0.1	17.7
263	Veneer sheets and sheets for plywood, particle board, fiberboard, plywood, veneered panels, and similar boards of ligneous material or laminated wood	2.9	–	4.5	–	7.1	0.1	9.8
264	Builders' joinery and carpentry of wood, except shingles and shakes	7.4	–	4.4	–	10.2	–	10.8
269	Other wood products	6.9	–	9.4	–	15.5	–	12.4
271	Pulp of fibrous cellulosic materials	13.8	–	15.9	–	35.8	0.1	13.7
272	Newsprint in large rolls or sheets	11.6	–	10.8	–	16.2	–	27.6
273	Uncoated paper and paperboard in large rolls or sheets	5.6	–	5.3	–	6.0	0.1	24.3
274	Coated, impregnated, treated, or worked paper and paperboard, in large rolls or sheets	5.9	–	7.6	–	9.8	0.1	7.5
280	Paper or paperboard articles	3.0	–	5.7	–	7.8	0.1	13.5
291	Printed books, brochures, leaflets, and similar printed products	9.1	0.1	10.1	–	13.9	–	4.1
292	Newspapers, journals, and periodicals	6.2	–	8.3	–	15.4	–	30.8
293	Advertising material, commercial or trade catalogues, and similar printed products	5.8	–	9.6	–	10.6	–	5.5
299	Other printed products	7.9	–	14.9	–	16.1	–	6.8
301	Textile fibers, yarns, and broadwoven or knitted fabrics, except coated or treated	5.0	–	8.0	–	11.8	–	5.1
302	Textile clothing and accessories, and headgear, except safety	10.5	0.2	16.6	–	32.5	0.1	3.7
303	Textiles and textile articles, n.e.c.	3.8	–	7.3	–	17.4	–	3.3
304	Footwear	22.5	0.1	31.1	–	31.9	–	5.4

See footnotes at end of table.

Table B-6.

Estimated Measures of Reliability for Shipment Characteristics by Three-Digit Commodity for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code	Commodity description	Value		Tons		Ton-miles[1]		Average miles per shipment—coefficient of variation of number
		Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	
305	Leather and articles, luggage of related materials, and dressed furskins and articles	8.6	–	12.0	–	13.1	–	4.7
311	Hydraulic cements	9.8	–	10.0	0.2	12.8	0.1	5.9
312	Ceramic products	8.2	–	12.6	–	17.8	0.1	7.6
313	Glass and glass products	10.7	–	5.6	–	6.1	–	9.4
319	Other nonmetallic mineral products	3.3	–	4.8	0.3	7.9	0.1	7.6
321	Iron and steel in primary forms, in semifinished forms, or in powders or granules, and ferroalloys	9.5	–	11.3	–	10.7	–	13.7
322	Flat-rolled products of iron or steel	5.2	0.1	6.2	0.1	9.8	0.2	9.1
323	Bars, rods, angles, shapes, sections, and wire, of iron or steel	3.6	–	7.5	0.1	9.6	0.1	16.3
324	Nonferrous metal, except precious, in unwrought forms, in finished basic shapes, or in powders or granules	8.4	0.1	8.4	–	15.3	0.1	8.0
331	Pipes, tubes, and fittings	5.3	0.1	9.4	–	10.2	0.1	9.2
332	Structures and parts, except prefabricated buildings	4.4	–	5.5	–	6.2	–	6.1
333	Handtools, cutlery, except of precious metals, interchangeable tools for hand- or machine-tools, hardware, and industrial fasteners	5.4	–	6.5	–	7.0	–	9.9
339	Other articles of metal	5.3	–	10.8	–	6.2	–	10.3
341	Internal-combustion piston engines	7.3	0.1	7.6	–	7.7	–	9.0
342	Turbines, boilers, nuclear reactors, and nonelectric engines and motors, except internal-combustion piston engines	22.3	0.1	14.2	–	17.6	–	7.0
343	Pumps, compressors, and fans, and ventilating or recycling hoods incorporating a fan	5.1	–	7.2	–	8.4	–	8.5
344	Air-conditioning, refrigerating, or freezing equipment	5.6	–	10.7	–	14.3	–	12.0
345	Materials-handling, excavating, boring, and related machinery and equipment	5.1	–	10.1	–	16.9	0.1	10.6
349	Other machinery	3.5	0.1	5.2	–	5.2	–	5.7
351	Electric motors, generators, generating sets, rotary converters, transformers, static converters, and inductors	10.8	–	20.2	–	8.7	–	5.5
352	Electric cooking appliances and other electrothermic or electromechanical domestic appliances	13.6	–	16.1	–	17.5	–	7.0
353	Line telephone or telegraph apparatus	15.3	–	14.3	–	16.2	–	6.8
354	Electronic entertainment products, except parts	11.8	0.1	16.0	–	21.1	–	4.9
355	Computer and office equipment	10.2	0.2	19.2	–	14.3	–	4.8
356	Prepared unrecorded or prerecorded media	11.3	0.1	15.9	–	34.4	–	2.5
357	Transmission apparatus for radio or television broadcasting, radio transmission and reception apparatus, radar apparatus, radio navigational-aid apparatus, and radio remote-control apparatus, except radio broadcast receivers and parts	15.9	0.1	21.1	–	20.4	–	4.9
358	Electronic components and parts	7.9	0.1	6.0	–	7.6	–	4.1
359	Other electronic and electrical equipment	2.6	0.1	4.8	–	6.9	–	7.5
361	Motor vehicles for the transport of less than 10 people, except motorcycles, armored fighting vehicles, snowmobiles, golf carts and similar vehicles, and parts	15.0	0.4	14.1	–	14.7	0.1	10.4
362	Motor vehicles for the transport of goods and road tractors for semitrailers, except parts	10.7	–	11.0	–	14.6	–	18.7
363	Other vehicles	6.2	0.1	8.0	–	7.6	–	8.7
364	Parts and accessories for motor vehicles, except motorcycles and armored fighting vehicles	4.8	0.2	7.7	–	11.1	0.1	8.4
371	Locomotives and rolling stock, railway track fixtures and fittings, mechanical or electromechanical traffic-signalling equipment, and intermodal containers	15.9	–	24.4	–	20.5	–	7.0
372	Aircraft and spacecraft	12.9	0.1	25.4	–	20.3	–	4.2
373	Ships, boats, and floating structures	8.2	–	13.4	–	8.6	–	13.1
381	Optical elements, instruments, and apparatus, except photographic and photocopying equipment and optical instruments and apparatus for measuring or checking	10.6	–	29.8	–	16.3	–	8.9
382	Photographic and photocopying machines	13.8	–	17.1	–	13.9	–	9.8
383	Surveying, hydrographic, oceanographic, hydrological, geophysical, drawing, or length-measuring instruments and appliances, and navigational and meteorological instruments and appliances, except radar and other radio-type apparatus	13.2	–	24.6	–	31.8	–	9.6
384	Instruments, apparatus, and appliances for medical, surgical, dental, or veterinary sciences, or for similar purposes	6.3	0.1	34.2	–	16.6	–	3.3
385	Meters and other instruments and apparatus for measuring, checking, testing, or controlling	7.1	–	44.5	–	35.2	–	5.0

See footnotes at end of table.

Table B-6.

Estimated Measures of Reliability for Shipment Characteristics by Three-Digit Commodity for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code	Commodity description	Value		Tons		Ton-miles[1]		Average miles per shipment—coefficient of variation of number
		Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	
390	Furniture, mattresses and mattress supports, lamps, lighting fittings, and illuminated signs	4.5	0.1	6.2	–	7.4	–	5.3
401	Arms and ammunition	22.6	–	17.9	–	20.3	–	4.1
402	Toys, games, and sporting equipment	11.4	0.1	16.2	–	14.8	–	4.0
409	Miscellaneous manufactured products	2.3	0.1	6.9	0.1	5.5	0.1	2.2
411	Metallic waste and scrap	9.0	0.1	24.3	0.3	9.9	0.1	13.8
412	Nonmetallic waste and scrap, except from food processing	20.1	–	36.6	0.3	33.3	0.3	24.2
439	Mixed freight	2.2	0.2	2.9	0.1	3.0	0.1	4.7
999	Commodity unknown	16.2	–	21.6	–	26.0	–	18.7

– Estimate equal to zero.

[1] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See “Mileage Calculations” section for additional information.

[2] Estimates exclude shipments of crude petroleum (SCTG 16).

Note: The Introduction and appendixes give information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions. Links to the information on the Internet may be found at <www.census.gov/cfs>.

Table B-7.

Estimated Measures of Reliability for Shipment Characteristics by Two-Digit Commodity and Mode of Transportation for the United States: 2007

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code, description, and mode of transportation	Value		Tons		Ton-miles[1]		Average miles per shipment—coefficient of variation
	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	
All Commodities							
Total[2]	**0.8**	**–**	**1.6**	**–**	**3.6**	**–**	**2.5**
Single modes	**1.1**	**0.4**	**1.5**	**0.4**	**4.2**	**0.8**	**4.3**
Truck[3]	1.2	0.5	1.3	0.7	1.4	1.3	4.5
For-hire truck	1.5	0.5	1.8	0.7	1.7	1.0	5.2
Private truck	1.4	0.3	1.9	0.5	1.7	0.3	3.6
Rail	6.8	0.2	6.2	0.8	8.7	2.1	4.6
Water	11.0	0.1	8.1	0.3	11.5	0.6	13.1
Shallow draft	12.8	0.1	9.4	0.3	13.2	0.6	40.3
Great Lakes	(S)	(S)	23.8	–	22.9	0.1	15.3
Deep draft	17.5	–	12.3	–	23.9	0.2	12.0
Air (includes truck and air)	8.2	0.2	10.4	–	9.6	–	2.2
Pipeline[4]	6.6	0.2	6.5	0.4	(S)	(S)	(S)
Multiple modes	**1.8**	**0.3**	**5.3**	**0.2**	**5.1**	**0.8**	**2.3**
Parcel, U.S. Postal Service or courier	2.1	0.3	2.6	–	3.0	–	2.4
Truck and rail	5.6	0.1	6.2	0.1	5.0	0.3	6.3
Truck and water	12.5	0.1	15.3	0.2	15.6	0.5	9.0
Rail and water	19.2	–	26.9	0.1	27.6	0.4	13.1
Other multiple modes	13.3	0.1	8.7	0.1	11.4	0.2	14.0
Other and unknown modes	**7.8**	**0.2**	**14.0**	**0.3**	**9.2**	**0.1**	**13.0**
SCTG 01, Live Animals and Live Fish							
Total[2]	**25.3**	**–**	**20.4**	**–**	**39.1**	**–**	**15.0**
Single modes	**25.6**	**2.0**	**20.2**	**0.5**	**39.2**	**3.4**	**27.6**
Truck[3]	26.3	3.2	20.3	0.9	39.6	4.4	32.5
For-hire truck	32.0	7.4	24.9	6.7	42.4	8.4	13.6
Private truck	19.6	6.7	19.9	6.6	44.5	6.3	(S)
Rail	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Water	–	–	–	–	–	–	–
Shallow draft	–	–	–	–	–	–	–
Great Lakes	–	–	–	–	–	–	–
Deep draft	–	–	–	–	–	–	–
Air (includes truck and air)	(S)	(S)	(S)	(S)	(S)	(S)	12.7
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**(S)**	**(S)**	**35.8**	**0.5**	**49.3**	**7.1**	**14.6**
Parcel, U.S. Postal Service or courier	(S)	(S)	35.8	0.5	49.3	7.1	14.6
Truck and rail	–	–	–	–	–	–	–
Truck and water	–	–	–	–	–	–	–
Rail and water	–	–	–	–	–	–	–
Other multiple modes	–	–	–	–	–	–	–
Other and unknown modes	**(S)**	**(S)**	**(S)**	**(S)**	**(S)**	**(S)**	**32.8**

See footnotes at end of table.

Table B-7.

Estimated Measures of Reliability for Shipment Characteristics by Two-Digit Commodity and Mode of Transportation for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code, description, and mode of transportation	Value		Tons		Ton-miles[1]		Average miles per shipment—coefficient of variation
	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	
SCTG 02, Cereal Grains							
Total[2]	**6.7**	**–**	**6.3**	**–**	**11.3**	**–**	**12.0**
Single modes	**6.3**	**1.8**	**6.3**	**1.6**	**11.6**	**2.3**	**11.9**
Truck[3]	7.4	3.3	8.4	3.3	13.7	0.9	11.8
For-hire truck	11.1	2.0	13.9	2.2	11.6	0.5	9.3
Private truck	10.8	2.6	11.5	2.7	30.3	0.6	25.6
Rail	13.5	2.9	12.4	2.9	14.2	4.3	6.4
Water	12.9	1.3	12.7	1.3	19.0	3.5	5.4
Shallow draft	14.7	1.4	14.1	1.4	19.0	3.5	5.6
Great Lakes	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Deep draft	13.2	4.8	9.3	4.0	(S)	(S)	43.2
Air (includes truck and air)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Pipeline[4]	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Multiple modes	**23.9**	**1.3**	**23.0**	**1.3**	**26.9**	**2.4**	**10.3**
Parcel, U.S. Postal Service or courier	29.8	–	49.2	–	(S)	(S)	14.1
Truck and rail	(S)	(S)	(S)	(S)	(S)	(S)	13.1
Truck and water	(S)	(S)	(S)	(S)	(S)	(S)	37.1
Rail and water	49.9	1.5	47.7	1.7	(S)	(S)	15.0
Other multiple modes	22.7	0.8	22.6	0.7	27.5	1.4	12.8
Other and unknown modes	**(S)**	**(S)**	**(S)**	**(S)**	**(S)**	**(S)**	**49.6**
SCTG 03, Other Agricultural Products							
Total[2]	**5.7**	**–**	**4.0**	**–**	**6.0**	**–**	**14.4**
Single modes	**6.3**	**1.2**	**4.8**	**2.3**	**5.8**	**2.8**	**17.9**
Truck[3]	6.8	1.2	5.8	2.5	7.6	2.6	18.4
For-hire truck	8.8	2.0	5.3	1.2	8.7	2.5	11.2
Private truck	7.5	1.8	7.7	2.2	9.1	0.8	23.8
Rail	9.9	0.4	11.9	0.9	9.6	1.3	10.5
Water	19.2	0.8	17.2	1.5	15.9	2.3	14.6
Shallow draft	15.7	0.6	15.2	1.2	14.9	2.2	5.5
Great Lakes	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Deep draft	(S)	(S)	(S)	(S)	(S)	(S)	33.9
Air (includes truck and air)	47.4	0.2	(S)	(S)	(S)	(S)	25.4
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**14.2**	**0.9**	**25.8**	**1.9**	**19.1**	**2.7**	**8.4**
Parcel, U.S. Postal Service or courier	18.1	0.4	26.8	–	26.2	–	8.2
Truck and rail	16.6	0.5	27.5	1.3	21.4	2.2	18.7
Truck and water	37.1	0.3	43.5	0.8	50.0	1.7	22.9
Rail and water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Other multiple modes	(S)	(S)	48.3	1.1	30.9	1.5	(S)
Other and unknown modes	**25.7**	**0.6**	**38.4**	**1.0**	**39.6**	**0.2**	**(S)**

See footnotes at end of table.

Table B-7.

Estimated Measures of Reliability for Shipment Characteristics by Two-Digit Commodity and Mode of Transportation for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code, description, and mode of transportation	Value		Tons		Ton-miles[1]		Average miles per shipment—coefficient of variation
	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	
SCTG 04, Animal Feed and Products of Animal Origin, n.e.c.							
Total[2]	**6.5**	**–**	**6.4**	**–**	**9.2**	**–**	**13.2**
Single modes	**5.8**	**2.4**	**6.7**	**1.4**	**8.5**	**3.8**	**5.9**
Truck[3]	6.1	2.3	6.9	1.4	9.1	3.0	6.2
For-hire truck	7.6	1.9	11.2	1.9	12.3	2.5	7.4
Private truck	6.4	1.9	6.0	1.9	10.2	1.7	9.5
Rail	10.8	0.7	10.7	0.9	11.8	2.6	5.9
Water	(S)	(S)	(S)	(S)	42.8	0.6	30.6
Shallow draft	29.5	0.1	23.6	0.7	23.7	2.4	–
Great Lakes	–	–	–	–	–	–	–
Deep draft	(S)	(S)	(S)	(S)	(S)	(S)	35.3
Air (includes truck and air)	47.4	–	24.1	–	(S)	(S)	(S)
Pipeline[4]	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Multiple modes	**34.6**	**2.4**	**22.2**	**1.3**	**29.9**	**3.8**	**8.8**
Parcel, U.S. Postal Service or courier	41.0	0.4	37.4	–	45.7	–	10.9
Truck and rail	40.2	2.2	18.7	1.1	32.4	3.6	7.3
Truck and water	(S)	(S)	(S)	(S)	(S)	(S)	13.7
Rail and water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Other multiple modes	48.5	0.1	(S)	(S)	(S)	(S)	(S)
Other and unknown modes	**41.4**	**0.5**	**19.7**	**0.4**	**16.9**	**0.2**	**29.0**
SCTG 05, Meat, Fish, Seafood, and Their Preparations							
Total[2]	**3.7**	**–**	**4.0**	**–**	**8.3**	**–**	**12.9**
Single modes	**3.9**	**0.4**	**4.1**	**0.6**	**3.7**	**3.4**	**4.6**
Truck[3]	4.0	0.4	4.2	0.7	3.8	3.7	4.3
For-hire truck	4.5	1.0	5.0	1.5	4.3	3.4	4.8
Private truck	4.5	1.0	5.0	1.2	7.2	1.2	5.8
Rail	23.2	0.1	37.0	0.4	34.0	1.1	22.6
Water	32.3	0.1	28.7	0.1	44.7	0.4	18.6
Shallow draft	6.3	–	5.5	–	(S)	(S)	22.1
Great Lakes	–	–	–	–	–	–	–
Deep draft	32.2	0.1	27.5	0.1	43.5	0.5	19.0
Air (includes truck and air)	21.4	0.1	20.0	–	27.2	0.1	10.3
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**17.9**	**0.3**	**34.0**	**0.6**	**(S)**	**(S)**	**6.8**
Parcel, U.S. Postal Service or courier	27.4	0.1	28.1	–	31.4	0.1	7.8
Truck and rail	19.6	0.1	17.5	0.1	20.8	0.4	(S)
Truck and water	32.8	0.2	48.4	0.6	(S)	(S)	25.6
Rail and water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Other multiple modes	45.6	–	(S)	(S)	(S)	(S)	30.9
Other and unknown modes	**19.7**	**0.2**	**20.9**	**0.2**	**17.9**	**0.1**	**(S)**

See footnotes at end of table.

Table B-7.

Estimated Measures of Reliability for Shipment Characteristics by Two-Digit Commodity and Mode of Transportation for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code, description, and mode of transportation	Value		Tons		Ton-miles[1]		Average miles per shipment—coefficient of variation
	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	
SCTG 06, Milled Grain Products and Preparations and Bakery Products							
Total[2]	**4.9**	**–**	**4.6**	**–**	**5.6**	**–**	**16.0**
Single modes	**4.6**	**1.0**	**4.6**	**0.8**	**6.0**	**1.2**	**8.8**
Truck[3]	4.8	1.2	5.0	1.5	6.0	2.5	8.8
For-hire truck	6.8	2.0	6.8	2.2	7.0	2.3	7.6
Private truck	5.6	1.7	6.1	1.8	7.5	1.1	10.2
Rail	13.2	0.3	12.5	1.1	17.0	2.2	4.9
Water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Shallow draft	49.1	1.4	(S)	(S)	47.4	0.1	39.0
Great Lakes	–	–	–	–	–	–	–
Deep draft	49.8	–	(S)	(S)	(S)	(S)	(S)
Air (includes truck and air)	(S)	(S)	(S)	(S)	(S)	(S)	26.3
Pipeline[4]	27.4	0.1	44.8	0.5	(S)	(S)	(S)
Multiple modes	**26.4**	**1.0**	**11.2**	**0.6**	**9.9**	**1.2**	**7.0**
Parcel, U.S. Postal Service or courier	35.2	0.7	30.7	0.1	33.9	0.2	7.3
Truck and rail	20.1	0.4	10.9	0.5	10.6	1.0	6.4
Truck and water	26.4	–	31.2	0.1	38.6	0.4	38.3
Rail and water	33.3	–	41.7	–	35.0	0.2	0.8
Other multiple modes	38.8	0.1	36.4	0.2	14.5	0.1	(S)
Other and unknown modes	**21.1**	**0.3**	**28.7**	**0.5**	**24.8**	**0.3**	**(S)**
SCTG 07, Other Prepared Foodstuffs and Fats and Oils							
Total[2]	**2.4**	**–**	**3.1**	**–**	**4.7**	**–**	**13.0**
Single modes	**2.4**	**0.2**	**3.1**	**0.4**	**4.5**	**0.6**	**5.7**
Truck[3]	2.4	0.2	3.3	0.6	4.2	1.1	4.9
For-hire truck	3.2	0.8	4.3	1.1	4.8	0.9	5.7
Private truck	3.0	0.9	4.2	1.2	4.2	0.6	2.8
Rail	6.9	0.1	6.9	0.4	8.2	1.0	4.2
Water	38.2	0.1	46.1	0.3	(S)	(S)	(S)
Shallow draft	39.3	0.1	43.0	0.6	(S)	(S)	(S)
Great Lakes	–	–	–	–	–	–	–
Deep draft	37.0	–	21.2	–	29.3	–	(S)
Air (includes truck and air)	42.8	0.1	20.5	–	46.8	–	11.8
Pipeline[4]	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Multiple modes	**6.7**	**0.2**	**7.5**	**0.2**	**9.7**	**0.6**	**6.3**
Parcel, U.S. Postal Service or courier	14.0	0.2	11.5	–	13.4	–	6.4
Truck and rail	8.3	0.1	9.0	0.2	11.6	0.6	4.7
Truck and water	15.5	–	22.3	0.1	23.0	0.3	13.2
Rail and water	45.6	–	(S)	(S)	(S)	(S)	29.7
Other multiple modes	29.0	–	21.6	–	31.0	0.1	32.1
Other and unknown modes	**11.5**	**0.1**	**22.7**	**0.3**	**18.6**	**0.2**	**36.7**

See footnotes at end of table.

Table B-7.

Estimated Measures of Reliability for Shipment Characteristics by Two-Digit Commodity and Mode of Transportation for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code, description, and mode of transportation	Value		Tons		Ton-miles[1]		Average miles per shipment—coefficient of variation
	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	
SCTG 08, Alcoholic Beverages							
Total[2]	**3.8**	**–**	**3.5**	**–**	**6.2**	**–**	**14.9**
Single modes	**3.6**	**0.5**	**3.6**	**0.4**	**6.9**	**2.4**	**5.3**
Truck[3]	3.9	0.8	3.9	1.1	6.8	3.1	5.4
For-hire truck	6.1	1.1	6.1	1.3	6.5	2.3	15.6
Private truck	4.5	1.1	4.6	1.6	14.1	1.5	3.4
Rail	11.6	0.4	13.4	0.8	14.6	2.7	7.7
Water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Shallow draft	(S)	(S)	(S)	(S)	(S)	(S)	45.4
Great Lakes	–	–	–	–	–	–	–
Deep draft	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Air (includes truck and air)	(S)	(S)	(S)	(S)	(S)	(S)	18.1
Pipeline[4]	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Multiple modes	**15.7**	**0.5**	**11.9**	**0.4**	**13.5**	**2.5**	**9.3**
Parcel, U.S. Postal Service or courier	32.9	0.1	29.3	–	35.9	0.1	10.5
Truck and rail	17.4	0.5	12.4	0.4	14.3	2.5	8.8
Truck and water	26.2	–	25.0	–	36.8	0.6	23.1
Rail and water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Other multiple modes	37.7	–	(S)	(S)	(S)	(S)	(S)
Other and unknown modes	**37.4**	**0.3**	**28.8**	**0.2**	**39.5**	**0.5**	**(S)**
SCTG 09, Tobacco Products							
Total[2]	**9.5**	**–**	**26.9**	**–**	**10.4**	**–**	**13.8**
Single modes	**10.1**	**1.7**	**27.4**	**1.7**	**11.6**	**3.2**	**7.1**
Truck[3]	10.1	1.7	27.5	1.7	11.6	3.2	7.2
For-hire truck	17.6	5.2	48.8	5.3	13.5	4.1	12.5
Private truck	13.6	5.4	24.5	5.5	17.5	3.7	3.8
Rail	–	–	–	–	–	–	–
Water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Shallow draft	–	–	–	–	–	–	–
Great Lakes	–	–	–	–	–	–	–
Deep draft	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Air (includes truck and air)	(S)	(S)	(S)	(S)	(S)	(S)	37.0
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**39.1**	**1.7**	**38.1**	**1.7**	**37.4**	**3.2**	**9.4**
Parcel, U.S. Postal Service or courier	39.5	1.7	38.9	1.7	39.7	3.2	9.2
Truck and rail	–	–	–	–	–	–	–
Truck and water	45.0	0.2	(S)	(S)	(S)	(S)	(S)
Rail and water	–	–	–	–	–	–	–
Other multiple modes	–	–	–	–	–	–	–
Other and unknown modes	**24.9**	**0.1**	**29.6**	**0.2**	**38.9**	**–**	**39.8**

See footnotes at end of table.

Table B-7.

Estimated Measures of Reliability for Shipment Characteristics by Two-Digit Commodity and Mode of Transportation for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code, description, and mode of transportation	Value		Tons		Ton-miles[1]		Average miles per shipment—coefficient of variation
	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	
SCTG 10, Monumental or Building Stone							
Total[2]	**14.5**	**–**	**20.5**	**–**	**13.1**	**–**	**13.3**
Single modes	**13.9**	**1.2**	**21.6**	**2.8**	**13.4**	**1.6**	**9.7**
Truck[3]	14.0	1.2	21.6	2.8	13.4	1.7	9.7
For-hire truck	18.3	3.1	30.3	5.6	17.2	4.7	21.4
Private truck	15.3	3.5	21.2	5.4	18.3	4.8	22.9
Rail	44.8	0.3	(S)	(S)	(S)	(S)	37.6
Water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Shallow draft	–	–	–	–	–	–	–
Great Lakes	–	–	–	–	–	–	–
Deep draft	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Air (includes truck and air)	–	–	–	–	–	–	–
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**31.0**	**0.3**	**45.4**	**0.2**	**40.9**	**1.0**	**22.1**
Parcel, U.S. Postal Service or courier	44.7	0.2	39.0	–	(S)	(S)	20.1
Truck and rail	26.9	0.2	46.0	0.3	35.1	1.9	26.1
Truck and water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Rail and water	–	–	–	–	–	–	–
Other multiple modes	–	–	–	–	–	–	–
Other and unknown modes	**(S)**	**(S)**	**48.7**	**3.5**	**(S)**	**(S)**	**(S)**
SCTG 11, Natural Sands							
Total[2]	**7.4**	**–**	**8.3**	**–**	**15.7**	**–**	**10.7**
Single modes	**8.0**	**2.0**	**9.1**	**2.1**	**10.3**	**5.0**	**9.2**
Truck[3]	8.6	2.4	9.5	2.2	10.8	4.4	8.1
For-hire truck	9.6	2.4	11.5	2.4	16.5	3.2	11.3
Private truck	10.6	2.9	12.0	2.8	9.7	2.5	7.1
Rail	13.4	1.3	19.6	0.5	17.9	2.8	9.4
Water	29.8	0.2	23.2	0.5	45.3	0.8	33.3
Shallow draft	35.4	0.2	23.4	0.5	46.6	0.8	47.7
Great Lakes	–	–	–	–	–	–	–
Deep draft	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Air (includes truck and air)	(S)	(S)	(S)	(S)	(S)	(S)	30.9
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**33.7**	**1.9**	**27.3**	**1.1**	**47.8**	**4.7**	**9.9**
Parcel, U.S. Postal Service or courier	31.0	0.1	35.6	–	37.9	–	29.4
Truck and rail	39.3	1.9	41.7	1.0	(S)	(S)	8.4
Truck and water	43.5	0.2	34.5	0.8	43.4	3.1	40.4
Rail and water	–	–	–	–	–	–	–
Other multiple modes	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Other and unknown modes	**21.2**	**0.5**	**44.3**	**1.8**	**(S)**	**(S)**	**34.9**

See footnotes at end of table.

Table B-7.

Estimated Measures of Reliability for Shipment Characteristics by Two-Digit Commodity and Mode of Transportation for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code, description, and mode of transportation	Value		Tons		Ton-miles[1]		Average miles per shipment—coefficient of variation
	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	
SCTG 12, Gravel and Crushed Stone							
Total[2]	**3.2**	**–**	**2.9**	**–**	**10.5**	**–**	**3.7**
Single modes	**3.3**	**0.6**	**3.2**	**0.8**	**12.4**	**3.5**	**3.6**
Truck[3]	3.5	1.1	3.4	1.3	18.3	4.4	3.7
For-hire truck	5.0	1.5	4.1	1.2	27.0	3.6	6.3
Private truck	5.0	1.7	4.3	1.3	5.9	2.3	3.8
Rail	13.4	0.5	16.3	0.6	19.3	3.3	15.7
Water	25.8	0.3	32.3	0.8	27.6	2.6	21.7
Shallow draft	36.5	0.3	47.2	0.9	42.6	3.0	22.0
Great Lakes	23.1	0.2	18.2	0.5	21.0	3.0	9.1
Deep draft	39.9	0.1	39.3	–	39.1	0.1	4.1
Air (includes truck and air)	–	–	–	–	–	–	–
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**18.2**	**0.6**	**21.2**	**0.8**	**29.2**	**3.6**	**15.7**
Parcel, U.S. Postal Service or courier	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Truck and rail	22.0	0.4	20.3	0.3	24.1	1.3	24.3
Truck and water	35.2	0.4	40.0	0.8	39.3	3.0	21.9
Rail and water	–	–	–	–	–	–	–
Other multiple modes	(S)	(S)	(S)	(S)	40.2	1.4	21.4
Other and unknown modes	**17.4**	**0.3**	**18.2**	**0.3**	**29.5**	**0.3**	**36.7**
SCTG 13, Nonmetallic Minerals, n.e.c.							
Total[2]	**5.6**	**–**	**6.1**	**–**	**8.3**	**–**	**16.6**
Single modes	**6.0**	**2.2**	**5.8**	**1.2**	**8.6**	**1.8**	**10.1**
Truck[3]	6.6	2.6	8.1	3.6	8.5	2.8	9.9
For-hire truck	8.4	2.2	8.3	3.6	9.7	2.5	8.1
Private truck	10.4	3.0	16.4	4.3	15.4	1.6	14.4
Rail	14.8	1.6	19.4	2.5	15.4	3.1	6.5
Water	23.5	0.4	36.6	2.8	39.4	4.4	(S)
Shallow draft	24.8	0.5	41.3	3.1	42.4	4.9	(S)
Great Lakes	(S)	(S)	47.6	5.2	(S)	(S)	7.6
Deep draft	(S)	(S)	(S)	(S)	(S)	(S)	45.5
Air (includes truck and air)	(S)	(S)	(S)	(S)	(S)	(S)	27.4
Pipeline[4]	43.4	2.5	45.2	11.5	(S)	(S)	(S)
Multiple modes	**30.8**	**2.2**	**21.5**	**0.9**	**14.2**	**1.9**	**9.0**
Parcel, U.S. Postal Service or courier	33.7	0.9	26.8	–	31.9	–	9.4
Truck and rail	16.3	0.5	20.6	0.6	14.3	1.5	12.9
Truck and water	(S)	(S)	(S)	(S)	46.1	0.8	21.3
Rail and water	43.3	0.1	(S)	(S)	(S)	(S)	20.8
Other multiple modes	41.1	0.2	46.3	0.7	33.4	1.0	24.4
Other and unknown modes	**44.8**	**0.6**	**(S)**	**(S)**	**40.6**	**0.3**	**(S)**

See footnotes at end of table.

Table B-7.

Estimated Measures of Reliability for Shipment Characteristics by Two-Digit Commodity and Mode of Transportation for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code, description, and mode of transportation	Value		Tons		Ton-miles[1]		Average miles per shipment—coefficient of variation
	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	
SCTG 14, Metallic Ores and Concentrates							
Total[2]	**15.8**	**–**	**17.4**	**–**	**29.4**	**–**	**9.4**
Single modes	**15.2**	**4.0**	**21.1**	**7.2**	**15.8**	**9.2**	**18.0**
Truck[3]	18.7	4.2	14.6	4.6	16.1	2.5	19.3
For-hire truck	15.7	3.8	19.5	3.3	19.1	2.3	9.8
Private truck	44.7	2.3	25.5	2.4	36.3	0.8	34.9
Rail	21.0	3.3	24.3	7.0	24.1	5.2	18.7
Water	44.0	1.3	(S)	(S)	23.5	6.7	21.1
Shallow draft	–	–	–	–	–	–	–
Great Lakes	–	–	–	–	–	–	–
Deep draft	44.0	1.3	(S)	(S)	23.5	6.7	21.1
Air (includes truck and air)	(S)	(S)	45.2	–	(S)	(S)	(S)
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**22.0**	**3.8**	**41.8**	**7.2**	**47.4**	**9.2**	**11.1**
Parcel, U.S. Postal Service or courier	29.7	0.9	(S)	(S)	(S)	(S)	10.0
Truck and rail	30.4	3.6	36.9	6.2	29.3	3.0	16.2
Truck and water	30.8	3.5	42.7	8.9	48.0	10.3	8.8
Rail and water	–	–	–	–	–	–	–
Other multiple modes	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Other and unknown modes	**(S)**	**(S)**	**(S)**	**(S)**	**(S)**	**(S)**	**(S)**
SCTG 15, Coal							
Total[2]	**7.1**	**–**	**7.6**	**–**	**12.2**	**–**	**8.8**
Single modes	**7.7**	**1.8**	**8.0**	**2.0**	**12.8**	**2.6**	**8.4**
Truck[3]	9.2	1.7	11.3	2.1	18.7	0.5	9.8
For-hire truck	13.5	1.6	17.5	1.6	24.1	0.5	10.4
Private truck	15.7	1.2	16.8	1.7	18.3	0.1	18.4
Rail	9.1	2.6	9.9	2.8	13.1	2.8	11.0
Water	35.8	2.2	34.7	1.8	36.8	0.7	44.5
Shallow draft	35.8	2.2	34.7	1.8	36.8	0.7	44.5
Great Lakes	–	–	–	–	–	–	–
Deep draft	–	–	–	–	–	–	–
Air (includes truck and air)	–	–	–	–	–	–	–
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**25.5**	**1.3**	**20.8**	**0.8**	**23.5**	**2.8**	**36.3**
Parcel, U.S. Postal Service or courier	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Truck and rail	29.8	0.4	43.2	0.5	29.0	0.2	(S)
Truck and water	32.0	1.0	32.6	0.5	33.1	0.3	5.9
Rail and water	45.2	1.0	33.1	0.7	32.4	2.7	(S)
Other multiple modes	33.8	0.9	32.8	0.7	31.2	2.3	23.2
Other and unknown modes	**37.8**	**2.1**	**32.5**	**2.5**	**(S)**	**(S)**	**36.7**

See footnotes at end of table.

Table B-7.

Estimated Measures of Reliability for Shipment Characteristics by Two-Digit Commodity and Mode of Transportation for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code, description, and mode of transportation	Value		Tons		Ton-miles[1]		Average miles per shipment—coefficient of variation
	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	
SCTG 17, Gasoline and Aviation Turbine Fuel							
Total[2]	**4.5**	**–**	**4.3**	**–**	**9.7**	**–**	**6.5**
Single modes	**4.5**	**0.5**	**4.4**	**0.6**	**9.0**	**2.7**	**5.0**
Truck[3]	6.1	1.9	6.2	2.2	6.6	4.1	4.3
For-hire truck	9.2	2.2	9.0	2.3	9.2	2.8	6.1
Private truck	8.5	1.6	9.0	1.7	9.6	2.1	6.1
Rail	39.8	0.3	41.1	0.3	(S)	(S)	18.4
Water	26.5	0.8	27.9	0.9	36.6	2.6	18.0
Shallow draft	27.4	0.6	28.3	0.7	35.9	0.7	(S)
Great Lakes	–	–	–	–	–	–	–
Deep draft	26.2	0.4	28.2	0.4	37.5	2.8	17.4
Air (includes truck and air)	(S)	(S)	(S)	(S)	(S)	(S)	6.3
Pipeline[4]	7.2	2.0	7.3	2.2	(S)	(S)	(S)
Multiple modes	**19.1**	**0.5**	**20.7**	**0.6**	**24.8**	**2.7**	**25.0**
Parcel, U.S. Postal Service or courier	–	–	–	–	–	–	–
Truck and rail	48.6	0.1	43.8	0.1	46.2	0.2	35.0
Truck and water	23.5	0.4	24.6	0.4	37.2	3.2	(S)
Rail and water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Other multiple modes	21.9	0.5	24.3	0.6	29.9	2.4	(S)
Other and unknown modes	**30.8**	**–**	**31.7**	**–**	**32.9**	**–**	**26.2**
SCTG 18, Fuel Oils							
Total[2]	**3.5**	**–**	**4.1**	**–**	**7.4**	**–**	**9.2**
Single modes	**3.9**	**1.6**	**4.6**	**1.6**	**9.5**	**4.1**	**8.7**
Truck[3]	4.4	2.6	5.9	2.8	8.9	4.4	5.9
For-hire truck	8.6	1.8	8.5	2.0	13.8	2.9	11.8
Private truck	5.5	1.8	8.2	2.0	12.8	3.2	5.1
Rail	23.6	0.2	25.4	0.2	29.4	1.3	(S)
Water	20.6	2.0	19.5	2.3	33.4	4.2	18.7
Shallow draft	23.1	1.9	22.1	2.2	27.6	1.6	(S)
Great Lakes	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Deep draft	28.4	0.5	27.4	0.6	44.9	4.1	15.3
Air (includes truck and air)	(S)	(S)	(S)	(S)	(S)	(S)	35.4
Pipeline[4]	11.7	2.6	12.2	2.8	(S)	(S)	(S)
Multiple modes	**28.3**	**1.7**	**25.3**	**1.7**	**24.1**	**4.0**	**18.3**
Parcel, U.S. Postal Service or courier	(S)	(S)	48.9	–	(S)	(S)	(S)
Truck and rail	(S)	(S)	(S)	(S)	(S)	(S)	23.1
Truck and water	33.3	1.3	28.0	1.1	29.9	2.7	32.7
Rail and water	22.0	0.1	44.7	0.1	19.4	0.3	27.3
Other multiple modes	26.5	0.8	25.8	0.9	25.0	2.2	19.8
Other and unknown modes	**17.0**	**0.1**	**19.7**	**0.1**	**31.3**	**0.2**	**24.1**

See footnotes at end of table.

Table B-7.

Estimated Measures of Reliability for Shipment Characteristics by Two-Digit Commodity and Mode of Transportation for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code, description, and mode of transportation	Value		Tons		Ton-miles[1]		Average miles per shipment—coefficient of variation
	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	
SCTG 19, Coal and Petroleum Products, n.e.c.							
Total[2]	**4.1**	**–**	**4.0**	**–**	**7.6**	**–**	**12.9**
Single modes	**4.7**	**1.6**	**4.2**	**1.7**	**8.6**	**2.3**	**7.1**
Truck[3]	3.5	2.1	5.0	1.8	5.5	1.8	7.5
For-hire truck	7.6	1.7	7.9	2.0	7.1	1.7	10.2
Private truck	4.8	1.6	6.5	1.2	14.0	0.9	7.4
Rail	18.3	2.0	9.9	1.6	12.1	3.4	6.9
Water	33.9	1.4	29.4	1.9	37.7	3.6	25.0
Shallow draft	31.3	1.1	29.4	1.9	(S)	(S)	35.6
Great Lakes	–	–	–	–	–	–	–
Deep draft	(S)	(S)	43.4	0.2	(S)	(S)	23.0
Air (includes truck and air)	(S)	(S)	(S)	(S)	(S)	(S)	11.5
Pipeline[4]	15.2	1.9	15.3	1.8	(S)	(S)	(S)
Multiple modes	**14.6**	**1.2**	**17.6**	**0.9**	**22.6**	**2.4**	**10.0**
Parcel, U.S. Postal Service or courier	48.9	0.3	(S)	(S)	(S)	(S)	9.8
Truck and rail	28.2	0.4	28.7	0.2	33.5	0.8	19.7
Truck and water	(S)	(S)	(S)	(S)	(S)	(S)	39.7
Rail and water	34.3	0.8	37.5	0.8	47.0	2.4	33.8
Other multiple modes	21.5	0.8	21.3	0.6	24.4	1.2	36.2
Other and unknown modes	**41.1**	**0.6**	**44.2**	**1.2**	**27.7**	**0.1**	**22.4**
SCTG 20, Basic Chemicals							
Total[2]	**6.2**	**–**	**7.0**	**–**	**10.7**	**–**	**10.9**
Single modes	**5.9**	**1.2**	**7.4**	**1.6**	**12.0**	**2.0**	**9.5**
Truck[3]	4.0	2.1	9.9	3.3	10.2	2.5	10.2
For-hire truck	4.8	1.9	8.5	1.2	11.7	1.7	4.6
Private truck	7.7	1.3	14.9	3.4	18.5	1.6	8.4
Rail	9.5	1.8	13.1	2.9	16.5	3.4	4.5
Water	32.0	1.4	24.7	1.7	(S)	(S)	(S)
Shallow draft	34.0	1.2	28.6	1.4	25.0	0.7	33.8
Great Lakes	–	–	–	–	–	–	–
Deep draft	(S)	(S)	42.8	0.9	(S)	(S)	25.0
Air (includes truck and air)	17.2	0.1	42.9	–	(S)	(S)	15.5
Pipeline[4]	31.0	2.1	31.3	2.4	(S)	(S)	(S)
Multiple modes	**18.3**	**1.2**	**24.3**	**1.6**	**17.9**	**2.0**	**9.3**
Parcel, U.S. Postal Service or courier	12.2	0.3	18.6	–	36.4	–	9.3
Truck and rail	18.0	0.2	29.4	0.2	28.3	0.8	15.2
Truck and water	45.7	0.3	(S)	(S)	27.6	0.1	17.3
Rail and water	23.1	0.5	24.0	0.4	33.0	0.8	22.5
Other multiple modes	40.0	1.1	30.5	1.3	28.7	1.4	46.5
Other and unknown modes	**21.9**	**0.2**	**25.1**	**0.2**	**33.7**	**0.4**	**(S)**

See footnotes at end of table.

Table B-7.

Estimated Measures of Reliability for Shipment Characteristics by Two-Digit Commodity and Mode of Transportation for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code, description, and mode of transportation	Value		Tons		Ton-miles[1]		Average miles per shipment—coefficient of variation
	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	
SCTG 21, Pharmaceutical Products							
Total[2]	**6.2**	**–**	**11.0**	**–**	**8.6**	**–**	**6.6**
Single modes	**10.3**	**3.3**	**10.2**	**2.8**	**6.7**	**3.0**	**11.4**
Truck[3]	10.7	3.4	10.3	2.9	7.2	2.9	12.9
For-hire truck	11.6	3.4	7.2	4.1	9.1	3.7	10.3
Private truck	14.1	1.1	20.9	4.0	19.9	2.3	11.0
Rail	(S)	(S)	40.8	–	43.8	0.1	4.2
Water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Shallow draft	–	–	–	–	–	–	–
Great Lakes	–	–	–	–	–	–	–
Deep draft	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Air (includes truck and air)	29.2	0.7	26.4	0.2	37.3	1.4	5.7
Pipeline[4]	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Multiple modes	**8.4**	**3.2**	**11.6**	**1.1**	**9.9**	**1.3**	**6.2**
Parcel, U.S. Postal Service or courier	8.5	3.2	12.7	1.2	8.5	1.1	6.2
Truck and rail	20.9	–	36.6	0.2	42.6	1.3	(S)
Truck and water	(S)	(S)	37.9	–	37.4	0.2	(S)
Rail and water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Other multiple modes	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Other and unknown modes	**41.9**	**0.5**	**43.8**	**3.1**	**(S)**	**(S)**	**21.6**
SCTG 22, Fertilizers							
Total[2]	**9.2**	**–**	**10.3**	**–**	**14.9**	**–**	**9.5**
Single modes	**9.4**	**1.5**	**11.0**	**2.0**	**18.8**	**4.0**	**9.4**
Truck[3]	7.9	2.1	9.8	2.5	20.9	3.4	10.0
For-hire truck	13.7	3.0	13.8	2.8	24.4	3.0	12.1
Private truck	8.9	2.7	10.4	2.6	11.3	1.2	7.0
Rail	23.0	2.6	22.6	2.8	24.7	4.5	3.9
Water	31.5	0.9	30.9	1.0	43.3	2.6	(S)
Shallow draft	28.8	1.0	28.1	1.2	41.5	3.1	26.0
Great Lakes	–	–	–	–	–	–	–
Deep draft	40.9	–	37.2	–	43.8	–	20.5
Air (includes truck and air)	(S)	(S)	(S)	(S)	(S)	(S)	37.4
Pipeline[4]	32.7	1.8	28.2	1.8	(S)	(S)	(S)
Multiple modes	**16.2**	**1.4**	**18.3**	**1.9**	**19.0**	**4.0**	**11.0**
Parcel, U.S. Postal Service or courier	34.0	–	26.7	–	22.7	–	12.9
Truck and rail	20.5	1.2	18.7	1.3	24.0	3.7	12.1
Truck and water	27.2	0.3	40.8	0.8	31.6	1.6	11.7
Rail and water	–	–	–	–	–	–	–
Other multiple modes	20.5	1.4	23.5	2.1	27.0	3.8	17.9
Other and unknown modes	**32.0**	**0.3**	**39.4**	**0.3**	**(S)**	**(S)**	**(S)**

See footnotes at end of table.

Table B-7.

Estimated Measures of Reliability for Shipment Characteristics by Two-Digit Commodity and Mode of Transportation for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code, description, and mode of transportation	Value		Tons		Ton-miles[1]		Average miles per shipment—coefficient of variation
	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	
SCTG 23, Chemical Products and Preparations, n.e.c.							
Total[2]	**5.9**	**–**	**4.9**	**–**	**5.8**	**–**	**7.2**
Single modes	**6.2**	**0.8**	**4.9**	**0.7**	**5.5**	**1.5**	**9.6**
Truck[3]	6.1	0.9	5.0	0.9	5.7	1.6	9.9
For-hire truck	7.6	1.3	6.4	1.7	6.1	1.6	8.2
Private truck	4.0	1.0	8.2	1.7	7.9	0.6	5.9
Rail	14.3	0.2	13.3	0.7	15.3	1.3	7.3
Water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Shallow draft	37.2	–	39.8	–	(S)	(S)	(S)
Great Lakes	–	–	–	–	–	–	–
Deep draft	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Air (includes truck and air)	15.9	0.1	(S)	(S)	(S)	(S)	6.6
Pipeline[4]	31.7	–	44.4	0.2	(S)	(S)	(S)
Multiple modes	**7.2**	**0.8**	**12.9**	**0.7**	**15.0**	**1.5**	**7.2**
Parcel, U.S. Postal Service or courier	8.7	0.7	11.3	0.1	16.1	0.2	7.2
Truck and rail	14.4	0.3	16.7	0.4	21.0	1.4	5.2
Truck and water	35.8	0.1	26.1	–	28.3	0.3	18.3
Rail and water	(S)	(S)	(S)	(S)	(S)	(S)	19.7
Other multiple modes	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Other and unknown modes	**16.9**	**0.2**	**19.5**	**0.2**	**19.8**	**0.2**	**26.9**
SCTG 24, Plastics and Rubber							
Total[2]	2.4	–	4.0	–	4.9	–	8.5
Single modes	2.7	0.4	4.2	0.7	4.6	1.0	7.6
Truck[3]	2.6	1.0	3.4	1.9	3.3	2.2	7.9
For-hire truck	2.3	1.2	3.2	1.6	3.5	2.0	6.2
Private truck	5.7	1.0	7.1	1.1	14.1	0.8	4.3
Rail	13.1	1.0	14.4	1.9	14.9	2.2	7.9
Water	(S)	(S)	(S)	(S)	33.1	–	26.9
Shallow draft	(S)	(S)	(S)	(S)	32.9	–	(S)
Great Lakes	–	–	–	–	–	–	–
Deep draft	41.0	–	45.6	–	(S)	(S)	30.2
Air (includes truck and air)	16.3	0.1	18.5	–	26.1	–	4.8
Pipeline[4]	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Multiple modes	**3.5**	**0.4**	**7.3**	**0.5**	**9.1**	**1.0**	**6.1**
Parcel, U.S. Postal Service or courier	5.5	0.5	6.9	0.1	8.5	0.2	6.1
Truck and rail	8.7	0.3	9.7	0.6	10.8	1.2	4.9
Truck and water	21.8	0.1	30.7	0.1	38.1	0.4	14.2
Rail and water	32.7	–	28.5	–	28.4	0.1	20.1
Other multiple modes	32.7	–	29.9	0.1	(S)	(S)	27.2
Other and unknown modes	**10.6**	**0.1**	**26.9**	**0.6**	**37.6**	**0.5**	**8.5**

See footnotes at end of table.

Table B-7.

Estimated Measures of Reliability for Shipment Characteristics by Two-Digit Commodity and Mode of Transportation for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code, description, and mode of transportation	Value		Tons		Ton-miles[1]		Average miles per shipment—coefficient of variation
	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	
SCTG 25, Logs and Other Wood in the Rough							
Total[2]	**13.1**	**–**	**21.0**	**–**	**13.9**	**–**	**44.2**
Single modes	**13.0**	**2.5**	**21.4**	**2.4**	**15.1**	**5.5**	**28.5**
Truck[3]	15.4	4.3	22.3	3.9	18.8	6.7	30.1
For-hire truck	18.3	4.6	27.9	6.2	21.8	5.7	27.5
Private truck	19.9	4.3	34.5	6.6	30.9	5.5	22.5
Rail	34.3	5.5	36.7	4.2	45.5	7.7	21.3
Water	–	–	–	–	–	–	–
Shallow draft	–	–	–	–	–	–	–
Great Lakes	–	–	–	–	–	–	–
Deep draft	–	–	–	–	–	–	–
Air (includes truck and air)	–	–	–	–	–	–	–
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**33.5**	**2.6**	**36.4**	**2.4**	**37.6**	**5.7**	**17.5**
Parcel, U.S. Postal Service or courier	(S)	(S)	(S)	(S)	36.4	–	(S)
Truck and rail	37.3	2.5	39.4	1.9	38.6	4.0	18.9
Truck and water	34.6	1.6	37.3	2.7	(S)	(S)	35.3
Rail and water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Other multiple modes							
Other and unknown modes	**49.8**	**0.6**	**29.6**	**0.5**	**23.6**	**0.3**	**(S)**
SCTG 26, Wood Products							
Total[2]	**2.9**	**–**	**2.7**	**–**	**4.2**	**–**	**10.9**
Single modes	**2.9**	**0.3**	**2.6**	**0.5**	**3.7**	**1.2**	**16.1**
Truck[3]	3.0	0.4	2.6	0.7	3.8	2.0	6.7
For-hire truck	4.3	1.0	3.8	1.3	4.6	1.8	5.2
Private truck	3.3	1.0	4.1	1.2	4.0	0.6	3.6
Rail	8.5	0.3	9.6	0.4	9.9	1.4	4.3
Water	39.2	–	(S)	(S)	(S)	(S)	(S)
Shallow draft	(S)	(S)	(S)	(S)	(S)	(S)	23.6
Great Lakes	–	–	–	–	–	–	–
Deep draft	39.6	–	(S)	(S)	(S)	(S)	(S)
Air (includes truck and air)	39.9	–	40.0	–	37.9	–	13.2
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**7.9**	**0.2**	**15.7**	**0.4**	**11.0**	**1.2**	**5.2**
Parcel, U.S. Postal Service or courier	16.1	0.2	18.4	–	18.4	–	5.3
Truck and rail	11.1	0.2	10.1	0.2	13.0	1.3	6.1
Truck and water	14.9	–	(S)	(S)	31.2	0.6	11.2
Rail and water	34.7	–	13.0	–	38.1	0.1	34.2
Other multiple modes	39.8	–	45.3	–	(S)	(S)	29.5
Other and unknown modes	**9.9**	**0.2**	**12.1**	**0.2**	**19.5**	**0.2**	**23.0**

See footnotes at end of table.

Table B-7.

Estimated Measures of Reliability for Shipment Characteristics by Two-Digit Commodity and Mode of Transportation for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code, description, and mode of transportation	Value		Tons		Ton-miles[1]		Average miles per shipment—coefficient of variation
	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	
SCTG 27, Pulp, Newsprint, Paper, and Paperboard							
Total[2]	**3.8**	**–**	**3.6**	**–**	**5.8**	**–**	**14.6**
Single modes	**3.7**	**1.5**	**3.6**	**1.6**	**4.4**	**2.2**	**8.0**
Truck[3]	3.9	1.4	3.9	1.5	4.5	1.9	8.6
For-hire truck	4.6	1.4	4.3	1.3	4.9	1.7	7.3
Private truck	5.6	1.1	5.7	0.9	11.2	0.5	5.1
Rail	5.5	0.6	5.0	0.7	6.8	1.2	3.0
Water	39.7	0.1	42.8	0.1	(S)	(S)	(S)
Shallow draft	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Great Lakes	–	–	–	–	–	–	–
Deep draft	43.3	0.1	46.5	0.2	(S)	(S)	(S)
Air (includes truck and air)	29.3	–	38.7	–	41.3	–	15.8
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**22.5**	**1.5**	**22.3**	**1.6**	**21.6**	**2.2**	**10.8**
Parcel, U.S. Postal Service or courier	15.3	0.2	31.8	0.1	18.8	–	11.2
Truck and rail	28.3	1.5	24.1	1.7	22.6	2.2	9.6
Truck and water	33.7	0.1	35.0	0.1	38.5	0.2	35.1
Rail and water	36.4	0.1	(S)	(S)	32.9	0.1	(S)
Other multiple modes	46.1	0.1	(S)	(S)	30.2	0.1	25.6
Other and unknown modes	**23.6**	**0.2**	**20.4**	**0.1**	**29.3**	**0.2**	**19.4**
SCTG 28, Paper or Paperboard Articles							
Total[2]	**3.0**	**–**	**5.7**	**–**	**7.8**	**–**	**13.5**
Single modes	**3.3**	**0.7**	**5.7**	**0.3**	**7.8**	**0.7**	**6.8**
Truck[3]	3.3	0.7	5.5	0.8	6.5	1.2	6.8
For-hire truck	3.5	1.3	4.2	2.2	6.8	1.8	4.2
Private truck	5.4	1.2	10.6	2.1	15.6	1.4	3.1
Rail	22.4	0.1	36.8	0.6	35.7	1.3	9.0
Water	36.3	0.2	38.8	0.4	(S)	(S)	(S)
Shallow draft	15.4	0.7	14.6	1.2	13.6	0.3	1.4
Great Lakes	–	–	–	–	–	–	–
Deep draft	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Air (includes truck and air)	38.0	–	38.0	–	32.3	–	25.8
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**10.6**	**0.7**	**15.4**	**0.3**	**12.2**	**0.8**	**10.3**
Parcel, U.S. Postal Service or courier	13.4	0.7	18.1	0.2	22.1	0.5	10.3
Truck and rail	16.9	0.2	22.7	0.3	16.1	0.7	7.1
Truck and water	29.1	0.1	29.5	–	28.2	0.2	20.7
Rail and water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Other multiple modes	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Other and unknown modes	**16.7**	**0.2**	**16.0**	**0.1**	**31.1**	**0.3**	**(S)**

See footnotes at end of table.

Table B-7.

Estimated Measures of Reliability for Shipment Characteristics by Two-Digit Commodity and Mode of Transportation for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code, description, and mode of transportation	Value		Tons		Ton-miles[1]		Average miles per shipment—coefficient of variation
	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	
SCTG 29, Printed Products							
Total[2]	**4.4**	**–**	**5.0**	**–**	**6.8**	**–**	**8.7**
Single modes	**5.1**	**1.9**	**5.3**	**1.3**	**7.3**	**2.3**	**22.9**
Truck[3]	5.1	1.8	5.4	1.3	7.6	2.5	23.7
For-hire truck	6.5	1.5	7.0	2.0	7.9	2.3	17.7
Private truck	6.9	1.4	7.6	2.1	15.5	1.1	19.8
Rail	25.4	0.1	29.2	0.3	34.3	1.1	21.7
Water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Shallow draft	–	–	–	–	–	–	–
Great Lakes	–	–	–	–	–	–	–
Deep draft	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Air (includes truck and air)	24.4	0.1	21.6	0.1	16.4	0.1	7.8
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**8.1**	**1.7**	**3.7**	**0.5**	**5.3**	**1.0**	**6.1**
Parcel, U.S. Postal Service or courier	8.2	1.7	4.2	0.5	5.8	0.9	6.1
Truck and rail	24.3	0.1	15.3	0.1	15.5	0.4	29.4
Truck and water	34.5	–	32.9	–	(S)	(S)	15.4
Rail and water	–	–	–	–	–	–	–
Other multiple modes	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Other and unknown modes	**27.3**	**0.8**	**33.4**	**1.3**	**(S)**	**(S)**	**19.4**
SCTG 30, Textiles, Leather, and Articles of Textiles or Leather							
Total[2]	**5.9**	**–**	**5.5**	**–**	**13.7**	**–**	**3.2**
Single modes	**7.5**	**1.4**	**6.1**	**0.8**	**15.9**	**1.5**	**4.5**
Truck[3]	6.4	1.3	5.3	0.9	12.5	1.8	4.8
For-hire truck	8.0	1.5	8.9	1.9	13.7	1.8	4.5
Private truck	7.2	1.1	6.0	2.2	8.8	0.9	13.3
Rail	(S)	(S)	(S)	(S)	(S)	(S)	13.8
Water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Shallow draft	(S)	(S)	(S)	(S)	(S)	(S)	41.8
Great Lakes	–	–	–	–	–	–	–
Deep draft	(S)	(S)	45.6	–	(S)	(S)	(S)
Air (includes truck and air)	21.2	0.2	23.0	–	29.9	0.2	7.0
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**5.5**	**1.3**	**4.5**	**0.5**	**6.2**	**1.4**	**3.0**
Parcel, U.S. Postal Service or courier	5.6	1.3	4.3	0.5	5.8	1.4	3.0
Truck and rail	41.1	0.1	26.1	0.2	25.5	0.6	15.4
Truck and water	35.9	0.1	20.2	0.1	29.8	0.5	15.7
Rail and water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Other multiple modes	(S)	(S)	(S)	(S)	30.1	–	(S)
Other and unknown modes	**18.7**	**0.5**	**20.6**	**0.7**	**17.5**	**0.3**	**26.0**

See footnotes at end of table.

Table B-7.

Estimated Measures of Reliability for Shipment Characteristics by Two-Digit Commodity and Mode of Transportation for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code, description, and mode of transportation	Value		Tons		Ton-miles[1]		Average miles per shipment—coefficient of variation
	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	
SCTG 31, Nonmetallic Mineral Products							
Total[2]	**3.0**	**–**	**4.1**	**–**	**6.8**	**–**	**10.1**
Single modes	**3.0**	**0.5**	**4.0**	**0.3**	**5.6**	**1.1**	**7.8**
Truck[3]	3.0	0.6	4.0	0.4	5.4	1.7	8.3
For-hire truck	2.6	0.9	6.8	1.1	7.4	1.6	6.9
Private truck	5.3	1.0	4.2	1.2	4.5	1.3	6.0
Rail	8.3	0.1	9.9	0.2	13.2	0.9	19.1
Water	20.8	0.1	23.5	0.1	25.6	0.8	15.1
Shallow draft	28.4	0.1	28.8	0.2	31.8	1.1	18.1
Great Lakes	36.8	0.3	36.7	0.6	27.1	2.1	7.8
Deep draft	23.4	–	21.3	–	24.5	0.1	17.6
Air (includes truck and air)	26.7	0.2	(S)	(S)	44.6	0.1	5.9
Pipeline[4]	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Multiple modes	**7.7**	**0.4**	**21.9**	**0.3**	**23.5**	**1.1**	**5.2**
Parcel, U.S. Postal Service or courier	9.4	0.4	12.7	–	17.4	0.1	5.2
Truck and rail	13.5	0.1	27.1	0.2	31.7	1.2	11.6
Truck and water	(S)	(S)	34.1	–	33.4	0.3	20.4
Rail and water	18.8	–	(S)	(S)	(S)	(S)	(S)
Other multiple modes	25.9	0.1	26.0	0.1	30.4	0.6	43.0
Other and unknown modes	**11.5**	**0.3**	**14.9**	**0.2**	**25.3**	**0.3**	**20.1**
SCTG 32, Base Metal in Primary or Semifinished Forms and in Finished Basic Shapes							
Total[2]	**3.3**	**–**	**3.8**	**–**	**6.2**	**–**	**10.7**
Single modes	**3.2**	**0.5**	**4.0**	**0.8**	**5.8**	**2.0**	**4.1**
Truck[3]	2.4	1.5	3.7	1.2	4.3	2.1	4.4
For-hire truck	3.4	1.3	4.5	1.5	4.7	1.9	2.7
Private truck	3.2	1.0	4.8	1.0	6.3	0.6	3.5
Rail	20.1	1.3	9.0	0.8	13.1	1.6	7.9
Water	26.1	0.1	26.8	0.2	27.9	0.4	16.5
Shallow draft	23.8	0.1	24.4	0.2	25.1	0.5	11.8
Great Lakes	–	–	–	–	–	–	–
Deep draft	46.7	–	(S)	(S)	(S)	(S)	32.1
Air (includes truck and air)	18.0	0.1	(S)	(S)	(S)	(S)	7.4
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**10.0**	**0.6**	**13.5**	**0.8**	**18.5**	**2.0**	**7.1**
Parcel, U.S. Postal Service or courier	7.5	0.2	11.7	–	11.5	–	7.2
Truck and rail	20.1	0.5	15.1	0.7	20.9	1.6	10.3
Truck and water	41.4	0.2	47.3	0.5	(S)	(S)	13.7
Rail and water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Other multiple modes	25.2	–	31.2	0.1	30.9	0.2	17.9
Other and unknown modes	**12.4**	**0.2**	**14.1**	**0.2**	**20.8**	**0.2**	**25.4**

See footnotes at end of table.

Table B-7.

Estimated Measures of Reliability for Shipment Characteristics by Two-Digit Commodity and Mode of Transportation for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code, description, and mode of transportation	Value		Tons		Ton-miles[1]		Average miles per shipment—coefficient of variation
	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	
SCTG 33, Articles of Base Metal							
Total[2]	**2.7**	**–**	**5.2**	**–**	**4.1**	**–**	**8.5**
Single modes	**2.9**	**0.7**	**5.6**	**0.8**	**3.5**	**1.7**	**7.7**
Truck[3]	2.9	0.7	5.8	1.1	3.2	2.2	8.2
For-hire truck	2.9	1.1	5.3	2.2	2.9	2.2	7.7
Private truck	5.8	1.2	11.0	2.1	12.5	1.1	4.8
Rail	16.7	0.2	21.5	0.8	23.5	1.7	27.9
Water	(S)	(S)	(S)	(S)	(S)	(S)	23.1
Shallow draft	(S)	(S)	40.9	0.2	(S)	(S)	(S)
Great Lakes	–	–	–	–	–	–	–
Deep draft	(S)	(S)	(S)	(S)	(S)	(S)	24.0
Air (includes truck and air)	8.5	–	23.7	–	28.8	0.1	4.6
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**4.4**	**0.6**	**19.4**	**0.7**	**21.0**	**1.7**	**7.3**
Parcel, U.S. Postal Service or courier	4.8	0.6	6.4	0.1	7.6	0.3	7.3
Truck and rail	17.5	0.1	29.0	0.5	32.6	1.6	19.5
Truck and water	30.9	0.1	48.0	0.4	40.6	0.7	15.9
Rail and water	35.2	0.1	(S)	(S)	(S)	(S)	38.7
Other multiple modes	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Other and unknown modes	**9.6**	**0.2**	**12.4**	**0.2**	**14.5**	**0.2**	**9.8**
SCTG 34, Machinery							
Total[2]	**3.6**	**–**	**3.0**	**–**	**5.9**	**–**	**5.4**
Single modes	**3.7**	**0.7**	**3.3**	**0.7**	**6.5**	**1.3**	**7.5**
Truck[3]	3.4	0.7	3.4	0.8	6.7	1.4	7.2
For-hire truck	3.4	0.7	4.9	1.8	7.5	1.7	6.5
Private truck	4.2	0.5	6.3	1.7	9.3	0.9	8.5
Rail	27.8	0.2	26.9	0.3	22.1	0.3	(S)
Water	(S)	(S)	(S)	(S)	(S)	(S)	28.3
Shallow draft	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Great Lakes	–	–	–	–	–	–	–
Deep draft	37.1	–	39.2	–	40.8	–	31.2
Air (includes truck and air)	15.7	0.3	11.2	–	15.2	0.2	3.9
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**5.2**	**0.6**	**9.4**	**0.6**	**10.0**	**1.1**	**4.5**
Parcel, U.S. Postal Service or courier	4.8	0.5	4.3	0.2	7.7	0.4	4.5
Truck and rail	16.0	0.3	19.1	0.5	18.5	1.0	14.7
Truck and water	25.3	0.1	24.3	0.1	24.6	0.6	14.7
Rail and water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Other multiple modes	(S)	(S)	47.7	–	(S)	(S)	28.8
Other and unknown modes	**8.7**	**0.3**	**13.2**	**0.5**	**27.9**	**0.5**	**15.0**

See footnotes at end of table.

Table B-7.

Estimated Measures of Reliability for Shipment Characteristics by Two-Digit Commodity and Mode of Transportation for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code, description, and mode of transportation	Value		Tons		Ton-miles[1]		Average miles per shipment—coefficient of variation
	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	
SCTG 35, Electronic and Other Electrical Equipment and Components and Office Equipment							
Total[2]	**2.7**	**–**	**4.6**	**–**	**5.7**	**–**	**3.5**
Single modes	**3.7**	**1.4**	**5.0**	**1.7**	**6.6**	**1.6**	**6.5**
Truck[3]	4.7	1.7	5.0	1.8	6.0	2.0	8.6
For-hire truck	6.0	1.8	5.5	2.2	6.2	2.0	6.3
Private truck	6.0	0.7	7.8	1.3	12.5	0.5	4.2
Rail	(S)	(S)	45.3	0.7	45.1	1.7	24.9
Water	(S)	(S)	44.2	–	(S)	(S)	(S)
Shallow draft	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Great Lakes	–	–	–	–	–	–	–
Deep draft	(S)	(S)	(S)	(S)	(S)	(S)	45.8
Air (includes truck and air)	11.1	1.0	22.2	0.2	21.6	0.4	3.1
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**4.6**	**1.4**	**5.8**	**0.6**	**7.7**	**1.3**	**2.1**
Parcel, U.S. Postal Service or courier	4.7	1.5	5.9	0.6	6.0	1.2	2.1
Truck and rail	30.0	0.1	25.7	0.2	30.3	0.5	9.3
Truck and water	40.0	0.1	29.5	0.1	38.1	0.7	47.2
Rail and water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Other multiple modes	(S)	(S)	46.4	–	(S)	(S)	(S)
Other and unknown modes	**10.4**	**0.3**	**25.1**	**1.6**	**33.5**	**1.2**	**15.7**
SCTG 36, Motorized and Other Vehicles (Including Parts)							
Total[2]	**5.6**	**–**	**5.2**	**–**	**5.0**	**–**	**6.9**
Single modes	**6.4**	**1.9**	**6.3**	**1.7**	**6.2**	**1.7**	**8.5**
Truck[3]	5.7	2.2	6.6	2.1	7.2	2.8	9.3
For-hire truck	5.6	2.0	5.5	2.4	8.1	3.0	12.3
Private truck	9.3	1.3	13.8	2.2	11.9	0.9	9.3
Rail	29.1	1.4	23.3	1.0	26.3	2.5	8.6
Water	(S)	(S)	(S)	(S)	(S)	(S)	33.5
Shallow draft	(S)	(S)	(S)	(S)	(S)	(S)	35.4
Great Lakes	–	–	–	–	–	–	–
Deep draft	(S)	(S)	(S)	(S)	(S)	(S)	34.7
Air (includes truck and air)	24.5	0.2	17.5	–	16.7	0.1	3.5
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**5.4**	**0.4**	**5.9**	**0.4**	**8.6**	**1.0**	**6.2**
Parcel, U.S. Postal Service or courier	6.9	0.4	15.2	0.2	15.4	0.3	6.4
Truck and rail	9.3	0.4	7.2	0.3	10.5	1.0	7.2
Truck and water	24.6	–	22.5	–	21.9	0.1	13.3
Rail and water	41.3	–	35.1	–	49.6	0.3	27.7
Other multiple modes	38.9	0.1	(S)	(S)	36.4	0.3	31.9
Other and unknown modes	**24.2**	**2.0**	**21.2**	**1.8**	**24.5**	**1.6**	**26.9**

See footnotes at end of table.

Table B-7.

Estimated Measures of Reliability for Shipment Characteristics by Two-Digit Commodity and Mode of Transportation for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code, description, and mode of transportation	Value		Tons		Ton-miles[1]		Average miles per shipment—coefficient of variation
	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	
SCTG 37, Transportation Equipment, n.e.c.							
Total[2]	**10.6**	**–**	**18.1**	**–**	**12.1**	**–**	**3.9**
Single modes	**14.8**	**2.9**	**20.3**	**2.2**	**14.0**	**2.6**	**7.1**
Truck[3]	6.7	2.4	20.9	4.0	18.6	4.3	8.6
For-hire truck	8.4	2.0	25.8	4.6	20.0	4.4	5.9
Private truck	9.2	1.3	26.4	3.5	18.6	0.7	17.8
Rail	27.1	0.3	34.8	4.2	41.5	5.1	12.4
Water	11.9	0.3	40.7	1.9	3.0	1.1	(S)
Shallow draft	14.9	0.3	40.9	1.9	3.0	1.1	(S)
Great Lakes	–	–	–	–	–	–	–
Deep draft	7.9	–	(S)	(S)	(S)	(S)	12.7
Air (includes truck and air)	27.9	3.9	32.3	0.9	29.8	1.2	3.8
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**12.2**	**3.0**	**22.7**	**1.7**	**20.0**	**2.2**	**2.9**
Parcel, U.S. Postal Service or courier	12.2	2.7	16.7	0.6	15.4	0.7	2.9
Truck and rail	(S)	(S)	34.1	2.1	30.4	2.6	25.0
Truck and water	28.0	0.1	48.6	0.4	(S)	(S)	20.8
Rail and water	–	–	–	–	–	–	–
Other multiple modes	15.1	–	9.7	0.1	(S)	(S)	45.1
Other and unknown modes	**24.2**	**0.3**	**39.9**	**1.2**	**45.3**	**1.2**	**12.1**
SCTG 38, Precision Instruments and Apparatus							
Total[2]	**4.6**	**–**	**31.1**	**–**	**20.0**	**–**	**4.3**
Single modes	**6.3**	**1.7**	**33.0**	**2.7**	**17.7**	**2.5**	**8.0**
Truck[3]	7.3	2.1	34.4	2.6	19.5	2.0	14.2
For-hire truck	5.8	1.4	20.8	3.2	15.9	2.2	9.2
Private truck	13.3	1.1	(S)	(S)	(S)	(S)	8.1
Rail	–	–	–	–	–	–	–
Water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Shallow draft	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Great Lakes	–	–	–	–	–	–	–
Deep draft	–	–	–	–	–	–	–
Air (includes truck and air)	16.6	1.4	11.9	0.6	18.4	1.3	5.5
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**5.0**	**1.7**	**12.8**	**3.1**	**13.8**	**2.5**	**4.4**
Parcel, U.S. Postal Service or courier	4.9	1.7	12.6	3.1	12.4	2.5	4.4
Truck and rail	48.9	0.1	34.3	0.1	47.0	0.2	20.6
Truck and water	49.4	0.2	34.0	0.2	45.1	0.6	40.8
Rail and water	–	–	–	–	–	–	–
Other multiple modes	–	–	–	–	–	–	–
Other and unknown modes	**16.3**	**0.3**	**(S)**	**(S)**	**(S)**	**(S)**	**18.9**

See footnotes at end of table.

Table B-7.

Estimated Measures of Reliability for Shipment Characteristics by Two-Digit Commodity and Mode of Transportation for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code, description, and mode of transportation	Value		Tons		Ton-miles[1]		Average miles per shipment—coefficient of variation
	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	
SCTG 39, Furniture, Mattresses and Mattress Supports, Lamps, Lighting Fittings, and Illuminated Signs							
Total[2]	**4.5**	**–**	**6.2**	**–**	**7.4**	**–**	**5.3**
Single modes	**4.7**	**0.8**	**6.2**	**1.2**	**6.2**	**2.4**	**5.3**
Truck[3]	4.7	0.8	6.2	1.2	6.4	2.4	5.3
For-hire truck	5.9	1.5	8.4	2.1	7.2	2.5	4.5
Private truck	5.2	1.3	6.9	1.8	8.4	0.9	8.6
Rail	29.0	0.1	31.6	0.2	40.7	0.9	20.7
Water	(S)	(S)	(S)	(S)	(S)	(S)	42.9
Shallow draft	–	–	–	–	–	–	–
Great Lakes	–	–	–	–	–	–	–
Deep draft	(S)	(S)	(S)	(S)	(S)	(S)	42.9
Air (includes truck and air)	34.6	0.1	20.1	–	20.8	–	6.8
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**9.0**	**0.8**	**16.8**	**0.7**	**15.8**	**1.2**	**3.8**
Parcel, U.S. Postal Service or courier	9.1	0.7	19.5	0.6	21.0	0.9	3.7
Truck and rail	40.0	0.4	27.5	0.3	28.4	0.6	(S)
Truck and water	23.7	–	40.2	0.1	43.4	0.4	16.0
Rail and water	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Other multiple modes	–	–	–	–	–	–	–
Other and unknown modes	**18.4**	**0.3**	**41.8**	**0.8**	**(S)**	**(S)**	**25.4**
SCTG 40, Miscellaneous Manufactured Products							
Total[2]	**1.9**	**–**	**6.3**	**–**	**5.0**	**–**	**2.4**
Single modes	**2.3**	**1.2**	**6.8**	**0.7**	**5.4**	**1.1**	**9.8**
Truck[3]	2.2	1.0	5.9	1.3	5.3	1.1	11.0
For-hire truck	3.3	1.1	7.4	2.2	5.8	1.3	6.9
Private truck	3.4	0.6	7.3	1.7	6.9	0.6	6.2
Rail	35.8	0.1	44.7	0.4	40.6	0.7	11.5
Water	48.8	–	(S)	(S)	(S)	(S)	(S)
Shallow draft	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Great Lakes	–	–	–	–	–	–	–
Deep draft	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Air (includes truck and air)	11.7	0.3	27.7	0.1	29.5	0.3	4.1
Pipeline[4]	36.0	0.2	5.5	17.2	(S)	(S)	(S)
Multiple modes	**4.3**	**1.2**	**8.5**	**0.5**	**9.2**	**1.1**	**2.2**
Parcel, U.S. Postal Service or courier	4.3	1.1	8.4	0.3	8.8	0.6	2.2
Truck and rail	23.7	0.1	26.6	0.2	26.5	0.6	12.6
Truck and water	27.5	0.1	(S)	(S)	38.5	0.6	26.3
Rail and water	41.7	0.1	37.6	–	41.6	0.3	11.4
Other multiple modes	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Other and unknown modes	**13.3**	**0.3**	**14.3**	**0.5**	**16.2**	**0.7**	**16.3**

See footnotes at end of table.

Table B-7.

Estimated Measures of Reliability for Shipment Characteristics by Two-Digit Commodity and Mode of Transportation for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code, description, and mode of transportation	Value		Tons		Ton-miles[1]		Average miles per shipment—coefficient of variation
	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	
SCTG 41, Waste and Scrap							
Total[2]	**8.3**	**–**	**23.1**	**–**	**18.3**	**–**	**23.2**
Single modes	**9.0**	**1.7**	**24.5**	**2.0**	**17.7**	**3.5**	**26.3**
Truck[3]	10.1	2.3	28.1	3.2	20.3	3.7	27.7
For-hire truck	11.2	2.7	15.0	3.6	24.8	4.0	17.4
Private truck	15.8	2.5	41.7	5.3	33.5	1.7	18.1
Rail	18.4	1.6	21.1	2.1	34.6	2.2	11.9
Water	21.3	0.9	18.6	0.9	25.2	2.9	18.4
Shallow draft	17.5	0.6	17.3	1.0	25.4	2.6	7.6
Great Lakes	–	–	–	–	–	–	–
Deep draft	(S)	(S)	(S)	(S)	(S)	(S)	40.1
Air (includes truck and air)	(S)	(S)	(S)	(S)	(S)	(S)	22.3
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**15.2**	**1.3**	**17.4**	**1.2**	**33.6**	**3.4**	**8.3**
Parcel, U.S. Postal Service or courier	(S)	(S)	(S)	(S)	(S)	(S)	23.7
Truck and rail	11.5	0.7	19.7	1.1	29.1	2.1	9.3
Truck and water	42.1	1.4	(S)	(S)	(S)	(S)	27.5
Rail and water	49.1	0.3	(S)	(S)	(S)	(S)	(S)
Other multiple modes	38.4	0.3	(S)	(S)	22.7	0.3	40.3
Other and unknown modes	**26.4**	**0.5**	**38.9**	**1.2**	**(S)**	**(S)**	**21.1**
SCTG 43, Mixed Freight							
Total[2]	**2.2**	**–**	**2.9**	**–**	**3.0**	**–**	**4.7**
Single modes	**2.4**	**0.4**	**2.9**	**0.2**	**2.9**	**0.9**	**4.4**
Truck[3]	2.4	0.4	2.9	0.2	3.0	1.1	4.8
For-hire truck	5.6	1.1	8.1	1.7	4.6	1.2	9.1
Private truck	2.7	1.2	3.3	1.6	3.0	1.2	3.8
Rail	27.3	0.1	24.7	0.1	24.0	0.5	6.3
Water	47.7	–	35.5	–	(S)	(S)	41.8
Shallow draft	34.6	–	39.4	–	36.0	–	17.5
Great Lakes	–	–	–	–	–	–	–
Deep draft	(S)	(S)	38.6	–	(S)	(S)	30.1
Air (includes truck and air)	23.9	–	36.0	–	32.8	0.1	7.6
Pipeline[4]	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Multiple modes	**7.8**	**0.5**	**12.4**	**0.2**	**14.1**	**0.9**	**3.8**
Parcel, U.S. Postal Service or courier	6.9	0.4	9.1	0.1	8.1	0.2	3.8
Truck and rail	38.7	0.2	28.3	0.1	27.1	0.8	11.2
Truck and water	19.5	–	17.1	–	18.7	0.2	11.0
Rail and water	39.0	0.1	24.9	–	27.8	0.4	12.9
Other multiple modes	39.5	0.1	45.1	–	45.7	0.5	2.9
Other and unknown modes	**12.3**	**0.1**	**18.8**	**0.2**	**36.0**	**0.3**	**35.4**

See footnotes at end of table.

Table B-7.

Estimated Measures of Reliability for Shipment Characteristics by Two-Digit Commodity and Mode of Transportation for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code, description, and mode of transportation	Value		Tons		Ton-miles[1]		Average miles per shipment—coefficient of variation
	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	Coefficient of variation of number	Standard error of percentage	
Commodity Unknown							
Total[2]	**16.2**	**–**	**(S)**	**–**	**26.0**	**–**	**18.7**
Single modes	**21.9**	**5.3**	**23.7**	**4.5**	**29.9**	**6.9**	**26.2**
Truck[3]	20.3	5.0	22.8	5.4	32.8	7.3	6.7
For-hire truck	25.7	3.6	31.5	6.2	40.1	9.0	(S)
Private truck	21.5	4.9	30.9	6.5	37.1	6.1	9.4
Rail	(S)	(S)	(S)	(S)	(S)	(S)	32.3
Water	–	–	–	–	–	–	–
Shallow draft	–	–	–	–	–	–	–
Great Lakes	–	–	–	–	–	–	–
Deep draft	–	–	–	–	–	–	–
Air (includes truck and air)	(S)	(S)	(S)	(S)	(S)	(S)	29.8
Pipeline[4]	–	–	–	–	–	–	–
Multiple modes	**24.1**	**5.1**	**(S)**	**(S)**	**(S)**	**(S)**	**13.5**
Parcel, U.S. Postal Service or courier	24.1	5.0	30.8	1.1	39.9	6.5	13.5
Truck and rail	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Truck and water	–	–	–	–	–	–	–
Rail and water	–	–	–	–	–	–	–
Other multiple modes	–	–	–	–	–	–	–
Other and unknown modes	**(S)**	**(S)**	**47.7**	**2.6**	**(S)**	**(S)**	**(S)**

– Estimate equal to zero.

(S) Estimate does not meet publication standards because of high sampling variability or poor response quality.

[1] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See "Mileage Calculations" section for additional information.

[2] Estimates exclude shipments of crude petroleum (SCTG 16).

[3] "Truck" as a single mode includes shipments that were made by only private truck, only for-hire truck, or a combination of private truck and for-hire truck.

[4] Estimates for pipeline exclude shipments of crude petroleum (SCTG 16).`

Note: The Introduction and appendixes give information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions. Links to the information on the Internet may be found at <www.census.gov/cfs>.

Table B-8.

Estimated Coefficients of Variation for Shipment Characteristics by Two-Digit Commodity and Distance Shipped for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code, description, and distance shipped[1] (based on Great Circle Distance)	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[2]—coefficient of variation of number
Total	**0.8**	**1.6**	**3.6**
Less than 50 miles	1.4	2.1	2.6
50 to 99 miles	1.6	3.2	3.5
100 to 249 miles	1.3	3.2	4.3
250 to 499 miles	1.8	3.4	3.3
500 to 749 miles	1.6	3.5	3.6
750 to 999 miles	2.4	9.7	9.7
1,000 to 1,499 miles	2.3	7.6	7.4
1,500 to 1,999 miles	4.5	5.1	4.4
2,000 miles or more	4.7	5.6	6.8
SCTG 01, Live animals and live fish	**25.3**	**20.4**	**39.1**
Less than 50 miles	24.3	23.9	25.4
50 to 99 miles	26.7	26.7	29.1
100 to 249 miles	29.8	25.2	27.4
250 to 499 miles	44.2	39.4	42.5
500 to 749 miles	37.5	35.0	35.0
750 to 999 miles	34.3	31.2	30.3
1,000 to 1,499 miles	(S)	(S)	(S)
1,500 to 1,999 miles	41.1	(S)	(S)
2,000 miles or more	(S)	(S)	(S)
SCTG 02, Cereal grains	**6.7**	**6.3**	**11.3**
Less than 50 miles	9.8	9.5	11.6
50 to 99 miles	23.0	18.8	17.1
100 to 249 miles	18.7	16.8	19.5
250 to 499 miles	13.9	12.1	11.8
500 to 749 miles	15.5	14.4	14.2
750 to 999 miles	23.2	24.1	24.1
1,000 to 1,499 miles	15.7	14.7	14.8
1,500 to 1,999 miles	(S)	(S)	(S)
2,000 miles or more	44.1	47.9	45.1
SCTG 03, Other agricultural products	**5.7**	**4.0**	**6.0**
Less than 50 miles	7.8	8.2	10.1
50 to 99 miles	8.4	14.8	13.9
100 to 249 miles	10.4	7.6	9.4
250 to 499 miles	8.3	9.9	11.6
500 to 749 miles	12.2	11.0	12.3
750 to 999 miles	11.9	21.0	22.6
1,000 to 1,499 miles	7.8	13.6	14.1
1,500 to 1,999 miles	15.6	16.6	16.0
2,000 miles or more	14.5	15.4	15.4
SCTG 04, Animal feed and products of animal origin, n.e.c.	**6.5**	**6.4**	**9.2**
Less than 50 miles	5.9	9.4	10.0
50 to 99 miles	7.4	8.1	8.3
100 to 249 miles	13.0	10.2	10.0
250 to 499 miles	9.2	7.4	8.1
500 to 749 miles	14.0	23.5	27.9
750 to 999 miles	9.9	15.2	14.2
1,000 to 1,499 miles	10.9	12.0	12.5
1,500 to 1,999 miles	12.8	28.4	27.9
2,000 miles or more	(S)	(S)	(S)

See footnotes at end of table.

Table B-8.

Estimated Coefficients of Variation for Shipment Characteristics by Two-Digit Commodity and Distance Shipped for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code, description, and distance shipped[1] (based on Great Circle Distance)	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[2]—coefficient of variation of number
SCTG 05, Meat, fish, seafood, and their preparations	**3.7**	**4.0**	**8.3**
Less than 50 miles	5.4	6.8	12.0
50 to 99 miles	6.0	6.6	6.5
100 to 249 miles	5.1	6.8	6.5
250 to 499 miles	6.1	5.9	5.8
500 to 749 miles	5.9	5.9	5.6
750 to 999 miles	4.8	6.5	7.4
1,000 to 1,499 miles	5.7	7.6	9.8
1,500 to 1,999 miles	7.7	6.5	6.8
2,000 miles or more	15.8	38.9	(S)
SCTG 06, Milled grain products and preparations and bakery products	**4.9**	**4.6**	**5.6**
Less than 50 miles	5.1	6.6	7.4
50 to 99 miles	7.3	8.4	8.6
100 to 249 miles	6.7	6.8	6.7
250 to 499 miles	7.3	7.1	7.1
500 to 749 miles	7.9	7.7	8.0
750 to 999 miles	11.8	12.5	13.2
1,000 to 1,499 miles	8.8	6.9	7.1
1,500 to 1,999 miles	13.9	18.1	19.3
2,000 miles or more	15.2	9.5	9.5
SCTG 07, Other prepared foodstuffs and fats and oils	**2.4**	**3.1**	**4.7**
Less than 50 miles	3.1	4.6	11.5
50 to 99 miles	3.5	6.1	6.0
100 to 249 miles	3.4	4.8	4.7
250 to 499 miles	4.1	4.6	4.5
500 to 749 miles	4.5	4.4	4.4
750 to 999 miles	5.4	6.6	7.0
1,000 to 1,499 miles	5.8	8.2	7.8
1,500 to 1,999 miles	5.6	7.8	8.0
2,000 miles or more	8.5	14.4	14.9
SCTG 08, Alcoholic beverages	**3.8**	**3.5**	**6.2**
Less than 50 miles	4.3	3.7	3.3
50 to 99 miles	7.4	7.8	9.4
100 to 249 miles	6.1	10.1	9.7
250 to 499 miles	9.9	9.6	9.1
500 to 749 miles	10.7	9.9	10.6
750 to 999 miles	14.5	23.5	25.2
1,000 to 1,499 miles	8.6	10.8	10.8
1,500 to 1,999 miles	14.9	20.3	20.4
2,000 miles or more	13.8	15.9	15.7
SCTG 09, Tobacco products	**9.5**	**26.9**	**10.4**
Less than 50 miles	13.8	34.2	22.0
50 to 99 miles	8.3	23.2	27.7
100 to 249 miles	9.5	16.7	17.7
250 to 499 miles	20.0	13.4	13.1
500 to 749 miles	21.0	20.8	21.5
750 to 999 miles	19.1	19.5	20.3
1,000 to 1,499 miles	20.2	24.4	25.1
1,500 to 1,999 miles	25.6	23.7	23.5
2,000 miles or more	24.7	22.2	21.7

See footnotes at end of table.

Table B-8.

Estimated Coefficients of Variation for Shipment Characteristics by Two-Digit Commodity and Distance Shipped for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code, description, and distance shipped[1] (based on Great Circle Distance)	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[2]—coefficient of variation of number
SCTG 10, Monumental or building stone	**14.5**	**20.5**	**13.1**
Less than 50 miles	19.2	25.3	25.9
50 to 99 miles	17.1	18.3	17.8
100 to 249 miles	24.0	22.4	23.7
250 to 499 miles	12.2	16.2	15.0
500 to 749 miles	26.0	27.5	27.3
750 to 999 miles	35.3	29.4	29.6
1,000 to 1,499 miles	34.3	28.8	28.4
1,500 to 1,999 miles	31.3	27.0	27.8
2,000 miles or more	34.6	44.8	45.3
SCTG 11, Natural sands	**7.4**	**8.3**	**15.7**
Less than 50 miles	9.8	10.3	9.9
50 to 99 miles	12.2	14.6	14.1
100 to 249 miles	10.3	23.2	24.3
250 to 499 miles	12.3	14.7	15.3
500 to 749 miles	16.9	21.6	23.7
750 to 999 miles	31.2	45.5	46.7
1,000 to 1,499 miles	24.8	21.9	23.2
1,500 to 1,999 miles	37.7	(S)	(S)
2,000 miles or more	40.7	(S)	(S)
SCTG 12, Gravel and crushed stone	**3.2**	**2.9**	**10.5**
Less than 50 miles	4.1	2.9	3.7
50 to 99 miles	8.2	10.9	11.9
100 to 249 miles	10.7	15.2	16.5
250 to 499 miles	13.0	28.8	25.5
500 to 749 miles	19.0	24.2	25.8
750 to 999 miles	26.6	30.3	30.3
1,000 to 1,499 miles	40.1	29.4	29.7
1,500 to 1,999 miles	28.7	45.7	45.1
2,000 miles or more	34.0	28.4	28.3
SCTG 13, Nonmetallic minerals, n.e.c.	**5.6**	**6.1**	**8.3**
Less than 50 miles	7.4	9.6	9.4
50 to 99 miles	12.7	11.6	11.9
100 to 249 miles	11.9	18.5	17.6
250 to 499 miles	15.4	13.0	13.1
500 to 749 miles	12.6	16.0	16.2
750 to 999 miles	18.5	25.4	26.0
1,000 to 1,499 miles	19.1	19.0	19.2
1,500 to 1,999 miles	12.9	(S)	(S)
2,000 miles or more	44.0	25.0	23.9
SCTG 14, Metallic ores and concentrates	**15.8**	**17.4**	**29.4**
Less than 50 miles	17.2	21.3	17.6
50 to 99 miles	21.6	45.2	44.4
100 to 249 miles	44.9	25.5	24.1
250 to 499 miles	13.4	(S)	(S)
500 to 749 miles	45.1	43.6	43.1
750 to 999 miles	31.0	(S)	(S)
1,000 to 1,499 miles	36.2	(S)	(S)
1,500 to 1,999 miles	(S)	35.7	28.0
2,000 miles or more	27.5	37.8	22.4

See footnotes at end of table.

Table B-8.

Estimated Coefficients of Variation for Shipment Characteristics by Two-Digit Commodity and Distance Shipped for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code, description, and distance shipped[1] (based on Great Circle Distance)	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[2]—coefficient of variation of number
SCTG 15, Coal	**7.1**	**7.6**	**12.2**
Less than 50 miles	10.8	12.7	10.3
50 to 99 miles	15.8	19.0	15.2
100 to 249 miles	14.8	13.7	16.3
250 to 499 miles	21.4	16.7	15.6
500 to 749 miles	15.5	12.5	11.0
750 to 999 miles	22.8	22.1	21.8
1,000 to 1,499 miles	15.6	19.2	18.4
1,500 to 1,999 miles	(S)	(S)	(S)
2,000 miles or more	(S)	(S)	(S)
SCTG 17, Gasoline and aviation turbine fuel	**4.5**	**4.3**	**9.7**
Less than 50 miles	5.2	4.9	6.2
50 to 99 miles	9.7	11.7	14.4
100 to 249 miles	8.9	9.7	9.0
250 to 499 miles	20.1	20.1	21.4
500 to 749 miles	35.7	35.2	34.3
750 to 999 miles	38.1	39.5	37.8
1,000 to 1,499 miles	(S)	(S)	(S)
1,500 to 1,999 miles	40.2	42.5	43.2
2,000 miles or more	2.6	16.8	13.1
SCTG 18, Fuel oils	**3.5**	**4.1**	**7.4**
Less than 50 miles	4.7	5.3	9.5
50 to 99 miles	9.2	11.0	11.7
100 to 249 miles	10.2	13.7	11.0
250 to 499 miles	23.1	24.0	20.8
500 to 749 miles	21.2	32.5	32.0
750 to 999 miles	38.7	37.7	39.0
1,000 to 1,499 miles	49.2	(S)	(S)
1,500 to 1,999 miles	25.4	35.5	34.8
2,000 miles or more	(S)	(S)	(S)
SCTG 19, Coal and petroleum products, n.e.c.	**4.1**	**4.0**	**7.6**
Less than 50 miles	7.8	7.2	7.5
50 to 99 miles	11.9	15.7	14.2
100 to 249 miles	10.8	7.3	9.4
250 to 499 miles	13.3	13.4	11.0
500 to 749 miles	11.6	14.9	17.9
750 to 999 miles	15.1	25.8	27.1
1,000 to 1,499 miles	17.6	14.1	14.4
1,500 to 1,999 miles	31.9	35.3	36.8
2,000 miles or more	48.9	48.6	49.1
SCTG 20, Basic chemicals	**6.2**	**7.0**	**10.7**
Less than 50 miles	12.8	11.0	14.1
50 to 99 miles	16.7	12.3	14.4
100 to 249 miles	8.6	12.2	12.3
250 to 499 miles	7.3	10.9	10.3
500 to 749 miles	7.7	23.3	26.5
750 to 999 miles	8.7	16.1	16.3
1,000 to 1,499 miles	17.8	18.5	20.7
1,500 to 1,999 miles	17.3	20.9	19.8
2,000 miles or more	16.9	22.9	22.4

See footnotes at end of table.

Table B-8.

Estimated Coefficients of Variation for Shipment Characteristics by Two-Digit Commodity and Distance Shipped for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code, description, and distance shipped[1] (based on Great Circle Distance)	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[2]—coefficient of variation of number
SCTG 21, Pharmaceutical products	**6.2**	**11.0**	**8.6**
Less than 50 miles	8.7	22.7	14.5
50 to 99 miles	9.5	23.6	24.1
100 to 249 miles	8.5	9.6	9.0
250 to 499 miles	12.1	10.5	11.1
500 to 749 miles	13.0	32.3	33.5
750 to 999 miles	19.5	12.0	13.3
1,000 to 1,499 miles	13.5	10.0	9.9
1,500 to 1,999 miles	19.5	16.9	17.7
2,000 miles or more	12.6	14.8	14.8
SCTG 22, Fertilizers	**9.2**	**10.3**	**14.9**
Less than 50 miles	8.0	11.4	8.9
50 to 99 miles	13.3	13.2	12.6
100 to 249 miles	11.9	11.9	12.8
250 to 499 miles	16.4	17.8	17.9
500 to 749 miles	19.3	17.8	17.5
750 to 999 miles	19.9	21.5	20.5
1,000 to 1,499 miles	22.3	26.2	25.1
1,500 to 1,999 miles	20.3	21.0	20.3
2,000 miles or more	(S)	(S)	(S)
SCTG 23, Chemical products and preparations, n.e.c.	**5.9**	**4.9**	**5.8**
Less than 50 miles	8.7	8.0	9.7
50 to 99 miles	4.2	7.9	8.1
100 to 249 miles	4.7	4.9	6.0
250 to 499 miles	8.4	7.0	7.2
500 to 749 miles	9.1	5.7	5.6
750 to 999 miles	8.0	8.2	8.1
1,000 to 1,499 miles	9.6	6.7	6.9
1,500 to 1,999 miles	8.7	9.0	9.9
2,000 miles or more	12.9	17.7	17.5
SCTG 24, Plastics and rubber	**2.4**	**4.0**	**4.9**
Less than 50 miles	4.2	7.1	6.8
50 to 99 miles	5.8	7.8	8.4
100 to 249 miles	5.6	5.0	4.6
250 to 499 miles	2.9	3.7	3.8
500 to 749 miles	2.9	5.8	6.1
750 to 999 miles	5.9	11.7	12.1
1,000 to 1,499 miles	4.5	6.0	6.3
1,500 to 1,999 miles	4.9	9.0	11.0
2,000 miles or more	7.9	8.6	8.4
SCTG 25, Logs and other wood in the rough	**13.1**	**21.0**	**13.9**
Less than 50 miles	20.3	25.0	25.9
50 to 99 miles	16.3	31.4	30.0
100 to 249 miles	15.1	29.0	27.2
250 to 499 miles	24.2	33.8	34.3
500 to 749 miles	42.2	48.2	(S)
750 to 999 miles	(S)	(S)	(S)
1,000 to 1,499 miles	(S)	(S)	(S)
1,500 to 1,999 miles	21.9	28.1	27.5
2,000 miles or more	30.7	(S)	(S)

See footnotes at end of table.

Table B-8.

Estimated Coefficients of Variation for Shipment Characteristics by Two-Digit Commodity and Distance Shipped for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code, description, and distance shipped[1] (based on Great Circle Distance)	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[2]—coefficient of variation of number
SCTG 26, Wood products	**2.9**	**2.7**	**4.2**
Less than 50 miles	3.1	4.6	5.2
50 to 99 miles	3.1	5.0	5.3
100 to 249 miles	4.4	3.5	3.8
250 to 499 miles	4.2	4.3	4.4
500 to 749 miles	6.0	4.7	5.1
750 to 999 miles	12.6	11.6	11.2
1,000 to 1,499 miles	9.8	4.8	5.1
1,500 to 1,999 miles	9.1	10.4	10.7
2,000 miles or more	11.2	14.1	13.7
SCTG 27, Pulp, newsprint, paper, and paperboard	**3.8**	**3.6**	**5.8**
Less than 50 miles	4.5	5.5	5.5
50 to 99 miles	7.0	9.4	8.8
100 to 249 miles	5.3	5.3	5.5
250 to 499 miles	4.5	5.2	5.3
500 to 749 miles	6.3	6.3	6.6
750 to 999 miles	7.4	6.8	6.5
1,000 to 1,499 miles	10.3	12.5	12.3
1,500 to 1,999 miles	8.1	11.2	11.6
2,000 miles or more	12.6	16.5	18.3
SCTG 28, Paper or paperboard articles	**3.0**	**5.7**	**7.8**
Less than 50 miles	4.6	9.2	6.7
50 to 99 miles	6.7	14.5	13.2
100 to 249 miles	4.3	7.9	7.2
250 to 499 miles	5.1	7.5	8.5
500 to 749 miles	4.7	9.0	9.5
750 to 999 miles	7.3	10.1	10.4
1,000 to 1,499 miles	10.2	9.1	9.3
1,500 to 1,999 miles	9.5	13.8	14.3
2,000 miles or more	10.1	23.6	23.3
SCTG 29, Printed products	**4.4**	**5.0**	**6.8**
Less than 50 miles	4.4	6.0	6.0
50 to 99 miles	7.3	11.8	15.8
100 to 249 miles	11.0	11.8	12.7
250 to 499 miles	8.8	8.3	9.0
500 to 749 miles	6.3	6.5	6.6
750 to 999 miles	6.4	12.3	12.6
1,000 to 1,499 miles	9.9	16.4	15.5
1,500 to 1,999 miles	16.9	17.8	17.6
2,000 miles or more	15.3	11.6	10.9
SCTG 30, Textiles, leather, and articles of textiles or leather	**5.9**	**5.5**	**13.7**
Less than 50 miles	5.6	6.9	8.0
50 to 99 miles	11.1	8.1	8.9
100 to 249 miles	7.2	5.5	5.1
250 to 499 miles	7.5	7.5	8.5
500 to 749 miles	5.5	6.3	6.2
750 to 999 miles	9.7	10.0	9.8
1,000 to 1,499 miles	12.4	13.8	14.4
1,500 to 1,999 miles	10.8	30.9	30.6
2,000 miles or more	13.7	26.5	27.2

See footnotes at end of table.

Table B-8.

Estimated Coefficients of Variation for Shipment Characteristics by Two-Digit Commodity and Distance Shipped for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code, description, and distance shipped[1] (based on Great Circle Distance)	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[2]—coefficient of variation of number
SCTG 31, Nonmetallic mineral products	**3.0**	**4.1**	**6.8**
Less than 50 miles	2.7	4.4	4.1
50 to 99 miles	5.6	4.5	4.5
100 to 249 miles	6.5	6.8	6.8
250 to 499 miles	6.8	5.3	5.4
500 to 749 miles	6.3	13.0	14.4
750 to 999 miles	10.3	10.7	11.4
1,000 to 1,499 miles	10.4	25.3	23.8
1,500 to 1,999 miles	12.6	30.8	30.6
2,000 miles or more	15.9	12.5	12.2
SCTG 32, Base metal in primary or semifinished forms and in finished basic shapes	**3.3**	**3.8**	**6.2**
Less than 50 miles	3.7	5.5	6.0
50 to 99 miles	4.2	5.7	5.6
100 to 249 miles	4.3	5.5	5.6
250 to 499 miles	4.8	5.8	6.1
500 to 749 miles	4.8	8.3	8.7
750 to 999 miles	8.7	13.1	16.1
1,000 to 1,499 miles	25.6	14.0	13.6
1,500 to 1,999 miles	24.1	16.9	16.7
2,000 miles or more	10.3	20.1	21.2
SCTG 33, Articles of base metal	**2.7**	**5.2**	**4.1**
Less than 50 miles	4.8	8.4	13.2
50 to 99 miles	6.7	15.2	14.0
100 to 249 miles	3.7	7.1	6.6
250 to 499 miles	3.8	4.1	3.9
500 to 749 miles	4.6	5.8	5.7
750 to 999 miles	4.2	5.2	5.4
1,000 to 1,499 miles	4.8	13.3	14.4
1,500 to 1,999 miles	8.9	8.7	8.7
2,000 miles or more	18.0	14.0	14.0
SCTG 34, Machinery	**3.6**	**3.0**	**5.9**
Less than 50 miles	4.5	6.6	7.7
50 to 99 miles	5.2	4.7	4.4
100 to 249 miles	4.0	6.5	6.9
250 to 499 miles	6.3	6.9	6.8
500 to 749 miles	6.1	6.9	7.2
750 to 999 miles	6.1	9.8	9.6
1,000 to 1,499 miles	5.0	11.6	11.4
1,500 to 1,999 miles	5.9	6.1	6.9
2,000 miles or more	11.2	24.8	26.2
SCTG 35, Electronic and other electrical equipment and components and office equipment	**2.7**	**4.6**	**5.7**
Less than 50 miles	5.1	8.9	9.9
50 to 99 miles	4.8	10.4	10.5
100 to 249 miles	7.0	10.7	11.5
250 to 499 miles	5.3	7.1	7.3
500 to 749 miles	7.0	4.7	4.9
750 to 999 miles	5.7	9.4	9.9
1,000 to 1,499 miles	8.7	9.7	9.7
1,500 to 1,999 miles	6.2	10.3	11.4
2,000 miles or more	8.8	10.8	11.0

See footnotes at end of table.

Table B-8.

Estimated Coefficients of Variation for Shipment Characteristics by Two-Digit Commodity and Distance Shipped for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code, description, and distance shipped[1] (based on Great Circle Distance)	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[2]—coefficient of variation of number
SCTG 36, Motorized and other vehicles (including parts)	**5.6**	**5.2**	**5.0**
Less than 50 miles	10.9	10.8	10.7
50 to 99 miles	4.7	6.6	6.1
100 to 249 miles	8.4	6.7	6.7
250 to 499 miles	5.2	5.7	6.0
500 to 749 miles	12.0	7.4	7.8
750 to 999 miles	6.9	6.6	6.8
1,000 to 1,499 miles	7.0	7.2	7.4
1,500 to 1,999 miles	10.9	14.8	14.1
2,000 miles or more	28.5	14.3	14.3
SCTG 37, Transportation equipment, n.e.c.	**10.6**	**18.1**	**12.1**
Less than 50 miles	10.8	42.6	40.6
50 to 99 miles	18.3	20.6	19.9
100 to 249 miles	17.1	20.9	21.2
250 to 499 miles	12.3	24.4	22.3
500 to 749 miles	14.2	12.9	13.8
750 to 999 miles	13.9	28.8	31.1
1,000 to 1,499 miles	21.3	24.4	24.6
1,500 to 1,999 miles	37.6	10.8	10.5
2,000 miles or more	12.8	19.0	18.3
SCTG 38, Precision instruments and apparatus	**4.6**	**31.1**	**20.0**
Less than 50 miles	8.8	39.5	35.4
50 to 99 miles	17.5	44.7	37.3
100 to 249 miles	6.0	23.6	23.5
250 to 499 miles	8.4	42.2	37.0
500 to 749 miles	9.2	31.6	28.7
750 to 999 miles	9.1	18.7	19.5
1,000 to 1,499 miles	5.9	26.8	27.4
1,500 to 1,999 miles	8.3	8.5	8.8
2,000 miles or more	6.5	11.3	11.7
SCTG 39, Furniture, mattresses and mattress supports, lamps, lighting fittings, and illuminated signs	**4.5**	**6.2**	**7.4**
Less than 50 miles	4.6	7.1	8.1
50 to 99 miles	10.6	11.9	11.3
100 to 249 miles	7.7	9.0	8.5
250 to 499 miles	5.7	10.8	9.8
500 to 749 miles	5.6	5.7	5.4
750 to 999 miles	7.9	8.1	8.4
1,000 to 1,499 miles	9.6	22.9	25.5
1,500 to 1,999 miles	8.3	8.6	8.8
2,000 miles or more	15.8	11.0	10.8
SCTG 40, Miscellaneous manufactured products	**1.9**	**6.3**	**5.0**
Less than 50 miles	4.3	11.1	8.3
50 to 99 miles	5.9	10.0	10.4
100 to 249 miles	6.0	12.6	10.5
250 to 499 miles	5.4	6.9	6.8
500 to 749 miles	4.4	6.4	6.2
750 to 999 miles	5.8	8.9	8.8
1,000 to 1,499 miles	5.3	12.3	12.6
1,500 to 1,999 miles	4.1	7.0	6.9
2,000 miles or more	5.6	7.2	7.2

See footnotes at end of table.

Table B-8.

Estimated Coefficients of Variation for Shipment Characteristics by Two-Digit Commodity and Distance Shipped for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code, description, and distance shipped[1] (based on Great Circle Distance)	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[2]—coefficient of variation of number
SCTG 41, Waste and scrap	**8.3**	**23.1**	**18.3**
Less than 50 miles	15.1	35.0	37.0
50 to 99 miles	16.2	38.8	38.6
100 to 249 miles	9.5	9.7	9.6
250 to 499 miles	9.3	16.0	16.6
500 to 749 miles	14.7	24.2	23.7
750 to 999 miles	21.6	29.8	28.3
1,000 to 1,499 miles	20.2	37.6	32.0
1,500 to 1,999 miles	19.9	25.3	24.1
2,000 miles or more	25.3	36.7	42.1
SCTG, 43, Mixed freight	**2.2**	**2.9**	**3.0**
Less than 50 miles	2.5	4.5	3.6
50 to 99 miles	3.7	4.2	4.3
100 to 249 miles	2.9	3.1	3.3
250 to 499 miles	6.5	6.5	6.2
500 to 749 miles	10.7	9.6	10.6
750 to 999 miles	8.7	9.2	9.7
1,000 to 1,499 miles	11.2	10.3	11.5
1,500 to 1,999 miles	11.3	12.8	12.9
2,000 miles or more	8.4	8.2	8.2
Commodity unknown	**16.2**	**(S)**	**26.0**
Less than 50 miles	17.8	32.0	33.5
50 to 99 miles	42.9	(S)	(S)
100 to 249 miles	33.4	48.4	48.3
250 to 499 miles	45.6	(S)	48.4
500 to 749 miles	49.5	(S)	(S)
750 to 999 miles	48.9	(S)	(S)
1,000 to 1,499 miles	30.1	(S)	(S)
1,500 to 1,999 miles	35.6	(S)	(S)
2,000 miles or more	27.3	47.6	48.1

(S) Estimate did not meet publication standards.

[1] Shipments are grouped into distance categories based on Great Circle Distance (GCD). GCD is the shortest distance between two points on the surface of a sphere over the surface of that sphere.
[2] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See "Mileage Calculations" section for additional information.

Note: The Introduction and appendixes give information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions. Links to the information on the Internet may be found at <www.census.gov/cfs>.

Table B-9.

Estimated Coefficients of Variation for Shipment Characteristics by Two-Digit Commodity and Shipment Weight for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code, description, and distance shipped[1] (based on Great Circle Distance)	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[2]—coefficient of variation of number
Total	**0.8**	**1.6**	**3.6**
Less than 50 miles	1.9	2.1	3.4
50 to 99 miles	2.6	2.0	3.9
100 to 249 miles	1.9	1.4	3.4
250 to 499 miles	1.9	1.3	2.4
500 to 749 miles	3.1	1.7	5.5
750 to 999 miles	1.8	1.1	1.7
1,000 to 1,499 miles	1.8	1.8	1.2
1,500 to 1,999 miles	3.3	2.2	3.1
2,000 miles or more	4.4	3.3	5.9
SCTG 01, Live animals and live fish	**25.3**	**20.4**	**39.1**
Less than 50 miles	32.3	41.8	(S)
50 to 99 miles	19.1	30.0	32.6
100 to 249 miles	27.5	34.8	40.3
250 to 499 miles	(S)	(S)	(S)
500 to 749 miles	49.6	43.0	(S)
750 to 999 miles	37.5	35.6	(S)
1,000 to 1,499 miles	33.0	22.6	44.5
1,500 to 1,999 miles	25.9	22.2	47.1
2,000 miles or more	44.5	44.5	(S)
SCTG 02, Cereal grains	**6.7**	**6.3**	**11.3**
Less than 50 miles	(S)	(S)	49.7
50 to 99 miles	(S)	41.6	(S)
100 to 249 miles	22.0	29.3	(S)
250 to 499 miles	36.8	28.2	27.7
500 to 749 miles	27.0	20.1	33.5
750 to 999 miles	18.7	23.5	25.2
1,000 to 1,499 miles	14.9	14.2	31.6
1,500 to 1,999 miles	9.7	10.7	12.9
2,000 miles or more	10.1	9.1	11.7
SCTG 03, Other agricultural products	**5.7**	**4.0**	**6.0**
Less than 50 miles	14.3	13.8	30.6
50 to 99 miles	16.7	13.2	11.8
100 to 249 miles	11.0	9.0	8.8
250 to 499 miles	9.1	9.6	8.2
500 to 749 miles	11.3	11.5	10.8
750 to 999 miles	7.1	12.1	11.6
1,000 to 1,499 miles	9.3	6.8	8.4
1,500 to 1,999 miles	8.6	8.3	7.4
2,000 miles or more	8.1	8.3	10.8
SCTG 04, Animal feed and products of animal origin, n.e.c.	**6.5**	**6.4**	**9.2**
Less than 50 miles	43.4	43.2	(S)
50 to 99 miles	33.9	23.6	43.5
100 to 249 miles	14.3	13.4	18.9
250 to 499 miles	16.4	14.3	18.8
500 to 749 miles	11.9	13.9	13.9
750 to 999 miles	15.0	12.0	23.1
1,000 to 1,499 miles	6.9	6.4	5.8
1,500 to 1,999 miles	8.5	9.4	14.3
2,000 miles or more	23.5	10.8	15.2

See footnotes at end of table.

Table B-9.

Estimated Coefficients of Variation for Shipment Characteristics by Two-Digit Commodity and Shipment Weight for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code, description, and distance shipped[1] (based on Great Circle Distance)	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[2]—coefficient of variation of number
SCTG 05, Meat, fish, seafood, and their preparations	**3.7**	**4.0**	**8.3**
Less than 50 miles	12.1	9.7	28.4
50 to 99 miles	10.2	9.4	14.3
100 to 249 miles	6.6	6.4	9.9
250 to 499 miles	7.7	7.9	11.0
500 to 749 miles	8.7	9.6	13.1
750 to 999 miles	5.2	8.3	5.2
1,000 to 1,499 miles	4.4	4.5	4.0
1,500 to 1,999 miles	14.7	16.8	28.6
2,000 miles or more	16.2	19.4	(S)
SCTG 06, Milled grain products and preparations and bakery products	**4.9**	**4.6**	**5.6**
Less than 50 miles	24.8	17.1	35.7
50 to 99 miles	9.6	12.4	15.0
100 to 249 miles	8.0	8.5	16.4
250 to 499 miles	9.8	13.2	12.6
500 to 749 miles	14.4	17.3	16.2
750 to 999 miles	6.8	6.9	8.1
1,000 to 1,499 miles	6.5	5.1	6.5
1,500 to 1,999 miles	11.9	14.9	14.2
2,000 miles or more	14.1	8.0	12.7
SCTG 07, Other prepared foodstuffs and fats and oils	**2.4**	**3.1**	**4.7**
Less than 50 miles	12.9	11.4	11.6
50 to 99 miles	5.5	6.4	14.8
100 to 249 miles	5.4	5.9	11.8
250 to 499 miles	6.0	5.2	12.5
500 to 749 miles	8.5	8.0	12.4
750 to 999 miles	4.0	4.3	5.1
1,000 to 1,499 miles	2.9	3.7	4.2
1,500 to 1,999 miles	7.4	11.3	14.5
2,000 miles or more	7.7	5.9	8.9
SCTG 08, Alcoholic beverages	**3.8**	**3.5**	**6.2**
Less than 50 miles	43.4	11.3	27.7
50 to 99 miles	8.6	6.4	9.1
100 to 249 miles	6.1	4.4	7.1
250 to 499 miles	3.0	3.6	7.9
500 to 749 miles	5.4	4.2	9.3
750 to 999 miles	4.1	4.1	10.8
1,000 to 1,499 miles	4.7	5.5	7.2
1,500 to 1,999 miles	15.9	13.8	19.6
2,000 miles or more	14.4	14.8	15.1
SCTG 09, Tobacco products	**9.5**	**26.9**	**10.4**
Less than 50 miles	12.3	16.6	45.2
50 to 99 miles	11.0	8.9	19.9
100 to 249 miles	6.6	7.2	11.4
250 to 499 miles	12.6	14.7	18.5
500 to 749 miles	16.2	14.6	26.1
750 to 999 miles	11.0	15.3	19.2
1,000 to 1,499 miles	15.1	37.2	15.3
1,500 to 1,999 miles	(S)	(S)	45.5
2,000 miles or more	(S)	(S)	(S)

See footnotes at end of table.

Table B-9.

Estimated Coefficients of Variation for Shipment Characteristics by Two-Digit Commodity and Shipment Weight for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code, description, and distance shipped[1] (based on Great Circle Distance)	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[2]—coefficient of variation of number
SCTG 10, Monumental or building stone	**14.5**	**20.5**	**13.1**
Less than 50 miles	32.3	29.1	48.3
50 to 99 miles	21.3	16.3	35.1
100 to 249 miles	20.1	20.6	21.6
250 to 499 miles	29.0	20.2	41.9
500 to 749 miles	21.9	23.6	36.7
750 to 999 miles	22.7	21.4	21.3
1,000 to 1,499 miles	15.5	25.3	15.8
1,500 to 1,999 miles	27.3	25.7	19.0
2,000 miles or more	34.2	32.9	36.9
SCTG 11, Natural sands	**7.4**	**8.3**	**15.7**
Less than 50 miles	35.6	27.9	39.1
50 to 99 miles	34.5	33.5	(S)
100 to 249 miles	31.3	27.6	25.2
250 to 499 miles	35.0	20.0	35.2
500 to 749 miles	30.5	29.7	23.5
750 to 999 miles	33.7	13.5	26.7
1,000 to 1,499 miles	10.2	12.3	10.7
1,500 to 1,999 miles	7.3	8.8	9.7
2,000 miles or more	14.6	14.5	27.4
SCTG 12, Gravel and crushed stone	**3.2**	**2.9**	**10.5**
Less than 50 miles	(S)	(S)	17.6
50 to 99 miles	(S)	(S)	(S)
100 to 249 miles	(S)	24.7	(S)
250 to 499 miles	37.9	24.6	36.0
500 to 749 miles	37.7	20.8	36.6
750 to 999 miles	11.5	7.2	12.8
1,000 to 1,499 miles	3.9	3.0	3.6
1,500 to 1,999 miles	4.2	4.2	4.9
2,000 miles or more	9.0	11.8	17.7
SCTG 13, Nonmetallic minerals, n.e.c.	**5.6**	**6.1**	**8.3**
Less than 50 miles	34.3	20.4	25.3
50 to 99 miles	23.9	27.4	43.3
100 to 249 miles	26.0	21.1	33.0
250 to 499 miles	36.4	45.4	(S)
500 to 749 miles	(S)	(S)	28.0
750 to 999 miles	15.0	12.0	12.8
1,000 to 1,499 miles	8.2	11.3	10.7
1,500 to 1,999 miles	11.5	9.4	13.5
2,000 miles or more	12.2	14.7	12.1
SCTG 14, Metallic ores and concentrates	**15.8**	**17.4**	**29.4**
Less than 50 miles	25.6	33.9	41.5
50 to 99 miles	25.2	33.1	29.7
100 to 249 miles	21.1	45.1	(S)
250 to 499 miles	41.0	(S)	(S)
500 to 749 miles	(S)	(S)	(S)
750 to 999 miles	(S)	45.7	34.4
1,000 to 1,499 miles	23.9	20.2	21.6
1,500 to 1,999 miles	28.7	32.4	32.2
2,000 miles or more	15.4	19.0	31.0

See footnotes at end of table.

Table B-9.

Estimated Coefficients of Variation for Shipment Characteristics by Two-Digit Commodity and Shipment Weight for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code, description, and distance shipped[1] (based on Great Circle Distance)	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[2]—coefficient of variation of number
SCTG 15, Coal	**7.1**	**7.6**	**12.2**
Less than 50 miles	(S)	(S)	(S)
50 to 99 miles	(S)	(S)	(S)
100 to 249 miles	(S)	(S)	(S)
250 to 499 miles	45.3	28.5	31.5
500 to 749 miles	(S)	31.4	38.7
750 to 999 miles	34.9	34.9	38.0
1,000 to 1,499 miles	20.5	21.3	21.3
1,500 to 1,999 miles	10.1	9.5	18.7
2,000 miles or more	7.9	8.5	12.3
SCTG 17, Gasoline and aviation turbine fuel	**4.5**	**4.3**	**9.7**
Less than 50 miles	35.6	38.1	33.2
50 to 99 miles	28.6	26.6	29.7
100 to 249 miles	16.3	15.3	26.5
250 to 499 miles	17.5	17.5	29.3
500 to 749 miles	16.1	15.7	35.9
750 to 999 miles	11.7	11.4	14.4
1,000 to 1,499 miles	6.1	6.0	7.5
1,500 to 1,999 miles	6.8	6.6	7.9
2,000 miles or more	6.0	6.1	14.5
SCTG 18, Fuel oils	**3.5**	**4.1**	**7.4**
Less than 50 miles	28.5	17.2	19.4
50 to 99 miles	37.5	12.5	16.1
100 to 249 miles	11.5	10.1	18.2
250 to 499 miles	9.6	9.1	23.7
500 to 749 miles	8.6	8.5	13.5
750 to 999 miles	5.8	5.9	6.1
1,000 to 1,499 miles	5.4	6.2	17.9
1,500 to 1,999 miles	7.3	8.9	9.7
2,000 miles or more	7.9	7.9	12.3
SCTG 19, Coal and petroleum products, n.e.c.	**4.1**	**4.0**	**7.6**
Less than 50 miles	32.3	23.6	47.4
50 to 99 miles	18.3	12.0	29.1
100 to 249 miles	8.4	6.7	13.3
250 to 499 miles	6.4	7.1	13.8
500 to 749 miles	7.8	8.2	10.2
750 to 999 miles	7.7	5.9	10.2
1,000 to 1,499 miles	8.0	6.7	7.0
1,500 to 1,999 miles	5.4	7.1	12.5
2,000 miles or more	8.0	7.0	9.9
SCTG 20, Basic chemicals	**6.2**	**7.0**	**10.7**
Less than 50 miles	9.5	12.1	24.1
50 to 99 miles	16.9	18.1	(S)
100 to 249 miles	11.2	13.0	13.8
250 to 499 miles	8.3	10.8	7.5
500 to 749 miles	11.8	14.0	7.7
750 to 999 miles	7.0	7.5	5.9
1,000 to 1,499 miles	5.9	13.2	10.2
1,500 to 1,999 miles	48.2	23.9	22.7
2,000 miles or more	12.9	10.9	13.2

See footnotes at end of table.

Table B-9.

Estimated Coefficients of Variation for Shipment Characteristics by Two-Digit Commodity and Shipment Weight for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code, description, and distance shipped[1] (based on Great Circle Distance)	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[2]—coefficient of variation of number
SCTG 21, Pharmaceutical products	**6.2**	**11.0**	**8.6**
Less than 50 miles	6.0	8.1	8.6
50 to 99 miles	13.3	13.9	10.9
100 to 249 miles	10.8	12.7	11.2
250 to 499 miles	13.5	14.0	10.0
500 to 749 miles	21.7	13.3	11.8
750 to 999 miles	13.8	17.3	10.2
1,000 to 1,499 miles	23.2	7.9	11.2
1,500 to 1,999 miles	(S)	48.1	(S)
2,000 miles or more	49.1	(S)	(S)
SCTG 22, Fertilizers	**9.2**	**10.3**	**14.9**
Less than 50 miles	22.6	13.7	28.2
50 to 99 miles	23.1	18.7	20.6
100 to 249 miles	13.9	12.0	13.5
250 to 499 miles	15.7	11.8	29.0
500 to 749 miles	16.9	19.3	22.4
750 to 999 miles	9.5	12.2	22.9
1,000 to 1,499 miles	11.7	15.0	18.2
1,500 to 1,999 miles	11.0	9.8	16.2
2,000 miles or more	14.5	14.9	16.2
SCTG 23, Chemical products and preparations, n.e.c.	**5.9**	**4.9**	**5.8**
Less than 50 miles	7.5	8.7	12.6
50 to 99 miles	9.5	9.0	16.1
100 to 249 miles	7.9	7.0	14.8
250 to 499 miles	10.5	6.2	15.2
500 to 749 miles	14.5	6.9	12.0
750 to 999 miles	4.9	5.8	6.8
1,000 to 1,499 miles	7.8	5.8	6.7
1,500 to 1,999 miles	14.1	15.6	20.0
2,000 miles or more	13.3	11.8	15.5
SCTG 24, Plastics and rubber	**2.4**	**4.0**	**4.9**
Less than 50 miles	5.3	6.1	8.2
50 to 99 miles	6.7	9.3	9.7
100 to 249 miles	4.3	6.2	8.2
250 to 499 miles	3.7	4.5	5.1
500 to 749 miles	3.8	6.3	6.3
750 to 999 miles	2.7	3.0	3.1
1,000 to 1,499 miles	4.4	4.2	4.9
1,500 to 1,999 miles	24.5	16.4	18.2
2,000 miles or more	11.8	12.2	13.0
SCTG 25, Logs and other wood in the rough	**13.1**	**21.0**	**13.9**
Less than 50 miles	(S)	38.1	(S)
50 to 99 miles	(S)	(S)	34.3
100 to 249 miles	29.9	30.1	43.5
250 to 499 miles	31.1	27.2	(S)
500 to 749 miles	32.0	26.4	(S)
750 to 999 miles	18.4	25.0	29.3
1,000 to 1,499 miles	17.0	24.9	22.1
1,500 to 1,999 miles	17.5	23.6	24.1
2,000 miles or more	25.1	(S)	34.3

See footnotes at end of table.

Table B-9.

Estimated Coefficients of Variation for Shipment Characteristics by Two-Digit Commodity and Shipment Weight for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code, description, and distance shipped[1] (based on Great Circle Distance)	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[2]—coefficient of variation of number
SCTG 26, Wood products	**2.9**	**2.7**	**4.2**
Less than 50 miles	12.8	17.2	24.2
50 to 99 miles	12.2	11.5	21.2
100 to 249 miles	6.5	5.0	13.2
250 to 499 miles	6.4	6.0	17.9
500 to 749 miles	7.9	5.6	17.5
750 to 999 miles	4.6	4.2	6.1
1,000 to 1,499 miles	3.5	2.7	3.7
1,500 to 1,999 miles	5.4	7.4	9.4
2,000 miles or more	7.9	8.5	8.9
SCTG 27, Pulp, newsprint, paper, and paperboard	**3.8**	**3.6**	**5.8**
Less than 50 miles	16.1	8.2	18.7
50 to 99 miles	8.2	11.1	31.2
100 to 249 miles	7.1	6.7	10.3
250 to 499 miles	7.5	7.8	11.1
500 to 749 miles	8.1	8.1	12.2
750 to 999 miles	4.0	3.9	5.0
1,000 to 1,499 miles	4.5	4.0	4.3
1,500 to 1,999 miles	13.7	13.2	11.8
2,000 miles or more	9.9	8.1	11.0
SCTG 28, Paper or paperboard articles	**3.0**	**5.7**	**7.8**
Less than 50 miles	11.1	15.7	28.7
50 to 99 miles	14.2	14.3	28.1
100 to 249 miles	7.1	5.8	10.7
250 to 499 miles	6.9	7.1	18.0
500 to 749 miles	8.3	7.7	14.9
750 to 999 miles	5.1	6.0	6.2
1,000 to 1,499 miles	3.4	5.8	6.8
1,500 to 1,999 miles	22.5	35.1	31.8
2,000 miles or more	23.6	24.1	38.7
SCTG 29, Printed products	**4.4**	**5.0**	**6.8**
Less than 50 miles	9.3	6.5	7.5
50 to 99 miles	7.8	7.1	9.0
100 to 249 miles	5.2	6.9	5.4
250 to 499 miles	15.3	7.8	10.9
500 to 749 miles	17.8	5.9	11.5
750 to 999 miles	6.3	4.1	10.1
1,000 to 1,499 miles	5.6	7.8	9.3
1,500 to 1,999 miles	(S)	26.2	30.2
2,000 miles or more	(S)	45.9	(S)
SCTG 30, Textiles, leather, and articles of textiles or leather	**5.9**	**5.5**	**13.7**
Less than 50 miles	5.5	3.7	4.7
50 to 99 miles	6.1	6.8	7.7
100 to 249 miles	5.1	5.1	6.7
250 to 499 miles	7.1	8.7	9.0
500 to 749 miles	7.4	9.7	8.3
750 to 999 miles	9.3	6.4	8.9
1,000 to 1,499 miles	15.6	10.1	23.4
1,500 to 1,999 miles	21.1	30.8	28.6
2,000 miles or more	39.4	33.4	(S)

See footnotes at end of table.

Table B-9.

Estimated Coefficients of Variation for Shipment Characteristics by Two-Digit Commodity and Shipment Weight for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code, description, and distance shipped[1] (based on Great Circle Distance)	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[2]—coefficient of variation of number
SCTG 31, Nonmetallic mineral products	**3.0**	**4.1**	**6.8**
Less than 50 miles	8.2	10.7	20.0
50 to 99 miles	8.9	7.1	16.4
100 to 249 miles	11.2	8.3	14.5
250 to 499 miles	14.1	7.3	12.2
500 to 749 miles	11.8	9.1	15.7
750 to 999 miles	8.1	4.4	9.2
1,000 to 1,499 miles	2.2	4.4	3.5
1,500 to 1,999 miles	8.2	9.6	9.3
2,000 miles or more	9.6	11.1	20.3
SCTG 32, Base metal in primary or semifinished forms and in finished basic shapes	**3.3**	**3.8**	**6.2**
Less than 50 miles	5.4	7.6	9.5
50 to 99 miles	5.2	6.9	14.2
100 to 249 miles	5.6	5.0	6.9
250 to 499 miles	8.6	4.3	8.4
500 to 749 miles	5.0	4.0	9.0
750 to 999 miles	4.3	3.9	3.4
1,000 to 1,499 miles	2.8	3.4	4.5
1,500 to 1,999 miles	5.9	8.3	9.4
2,000 miles or more	17.6	9.1	12.8
SCTG 33, Articles of base metal	**2.7**	**5.2**	**4.1**
Less than 50 miles	3.9	4.1	9.7
50 to 99 miles	4.5	4.5	8.3
100 to 249 miles	4.9	3.4	10.0
250 to 499 miles	4.9	4.4	6.2
500 to 749 miles	6.2	4.8	7.7
750 to 999 miles	3.9	5.6	5.0
1,000 to 1,499 miles	4.1	6.2	3.7
1,500 to 1,999 miles	15.0	27.5	17.8
2,000 miles or more	14.4	16.3	18.9
SCTG 34, Machinery	**3.6**	**3.0**	**5.9**
Less than 50 miles	7.1	3.8	8.6
50 to 99 miles	5.6	5.7	7.6
100 to 249 miles	3.5	4.2	6.1
250 to 499 miles	7.3	6.0	6.0
500 to 749 miles	5.5	3.8	4.9
750 to 999 miles	4.4	3.3	5.4
1,000 to 1,499 miles	5.4	5.5	10.2
1,500 to 1,999 miles	11.5	17.4	17.0
2,000 miles or more	19.0	17.0	22.7
SCTG 35, Electronic and other electrical equipment and components and office equipment	**2.7**	**4.6**	**5.7**
Less than 50 miles	4.6	5.1	7.5
50 to 99 miles	5.6	6.8	10.5
100 to 249 miles	4.1	4.3	5.3
250 to 499 miles	6.1	5.3	6.1
500 to 749 miles	8.6	13.6	42.1
750 to 999 miles	6.5	4.8	6.1
1,000 to 1,499 miles	14.1	8.1	9.4
1,500 to 1,999 miles	13.8	25.3	21.6
2,000 miles or more	38.7	32.3	43.0

See footnotes at end of table.

Table B-9.

Estimated Coefficients of Variation for Shipment Characteristics by Two-Digit Commodity and Shipment Weight for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code, description, and distance shipped[1] (based on Great Circle Distance)	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[2]—coefficient of variation of number
SCTG 36, Motorized and other vehicles (including parts)	**5.6**	**5.2**	**5.0**
Less than 50 miles	4.6	6.9	11.7
50 to 99 miles	10.6	11.5	24.2
100 to 249 miles	8.4	9.0	23.2
250 to 499 miles	8.5	5.6	10.4
500 to 749 miles	9.1	7.2	8.3
750 to 999 miles	10.6	10.7	12.0
1,000 to 1,499 miles	9.8	8.6	8.2
1,500 to 1,999 miles	10.6	11.9	15.8
2,000 miles or more	29.8	25.8	29.0
SCTG 37, Transportation equipment, n.e.c.	**10.6**	**18.1**	**12.1**
Less than 50 miles	9.9	12.0	10.0
50 to 99 miles	8.1	6.8	7.4
100 to 249 miles	13.1	10.9	14.7
250 to 499 miles	28.9	16.3	19.8
500 to 749 miles	45.8	22.1	27.4
750 to 999 miles	17.5	11.8	14.4
1,000 to 1,499 miles	15.0	31.1	23.9
1,500 to 1,999 miles	36.7	29.2	29.8
2,000 miles or more	(S)	25.8	24.3
SCTG 38, Precision instruments and apparatus	**4.6**	**31.1**	**20.0**
Less than 50 miles	5.6	8.8	14.2
50 to 99 miles	10.9	15.9	8.0
100 to 249 miles	8.1	18.4	9.6
250 to 499 miles	7.7	28.1	14.2
500 to 749 miles	13.2	36.7	21.0
750 to 999 miles	8.7	45.4	22.6
1,000 to 1,499 miles	18.3	33.3	27.6
1,500 to 1,999 miles	44.8	(S)	(S)
2,000 miles or more	(S)	(S)	(S)
SCTG 39, Furniture, mattresses and mattress supports, lamps, lighting fittings, and illuminated signs	**4.5**	**6.2**	**7.4**
Less than 50 miles	8.9	23.4	30.1
50 to 99 miles	8.2	12.4	16.0
100 to 249 miles	7.9	6.9	8.3
250 to 499 miles	7.0	9.6	10.0
500 to 749 miles	7.5	9.3	12.7
750 to 999 miles	4.5	4.9	6.0
1,000 to 1,499 miles	8.2	12.5	12.6
1,500 to 1,999 miles	25.8	29.7	24.8
2,000 miles or more	29.0	31.2	44.6
SCTG 40, Miscellaneous manufactured products	**1.9**	**6.3**	**5.0**
Less than 50 miles	4.8	12.2	11.8
50 to 99 miles	6.8	9.5	15.0
100 to 249 miles	5.3	8.7	5.9
250 to 499 miles	3.9	4.7	8.8
500 to 749 miles	6.9	5.3	9.2
750 to 999 miles	3.5	2.8	4.9
1,000 to 1,499 miles	6.7	8.8	7.1
1,500 to 1,999 miles	29.8	13.5	27.0
2,000 miles or more	22.5	27.3	29.7

See footnotes at end of table.

Table B-9.

Estimated Coefficients of Variation for Shipment Characteristics by Two-Digit Commodity and Shipment Weight for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

SCTG code, description, and distance shipped[1] (based on Great Circle Distance)	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[2]—coefficient of variation of number
SCTG 41, Waste and scrap	**8.3**	**23.1**	**18.3**
Less than 50 miles	(S)	37.9	(S)
50 to 99 miles	(S)	(S)	(S)
100 to 249 miles	39.2	(S)	(S)
250 to 499 miles	27.3	(S)	38.9
500 to 749 miles	44.4	49.2	49.9
750 to 999 miles	17.5	17.9	25.4
1,000 to 1,499 miles	10.5	28.6	20.9
1,500 to 1,999 miles	19.0	40.1	29.6
2,000 miles or more	14.6	13.2	26.9
SCTG, 43, Mixed freight	**2.2**	**2.9**	**3.0**
Less than 50 miles	5.2	5.2	7.5
50 to 99 miles	4.6	5.5	7.2
100 to 249 miles	4.5	4.4	6.0
250 to 499 miles	3.4	4.5	5.2
500 to 749 miles	4.6	4.9	6.5
750 to 999 miles	3.7	5.1	4.9
1,000 to 1,499 miles	3.2	3.8	3.8
1,500 to 1,999 miles	13.3	24.0	17.7
2,000 miles or more	28.6	18.4	30.3
Commodity unknown	**16.2**	**(S)**	**26.0**
Less than 50 miles	12.2	17.7	(S)
50 to 99 miles	47.3	30.8	(S)
100 to 249 miles	33.6	26.9	26.8
250 to 499 miles	28.9	31.4	39.4
500 to 749 miles	30.4	21.7	33.2
750 to 999 miles	25.4	24.4	37.0
1,000 to 1,499 miles	26.3	22.9	33.4
1,500 to 1,999 miles	(S)	(S)	(S)
2,000 miles or more	(S)	(S)	(S)

(S) Estimate did not meet publication standards.

[1] Shipments are grouped into distance categories based on Great Circle Distance (GCD). GCD is the shortest distance between two points on the surface of a sphere over the surface of that sphere.

[2] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See "Mileage Calculations" section for additional information.

Note: The Introduction and appendixes give information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions. Links to the information on the Internet may be found at <www.census.gov/cfs>.

Table B-10.

Estimated Coefficients of Variation for Shipment Characteristics by Industry for the United States: 2007

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number	Average miles per shipment—coefficient of variation of number
212	Mining (except oil and gas)	4.8	4.0	9.1	4.4
311	Food manufacturing	1.9	3.6	3.6	10.0
312	Beverage and tobacco product manufacturing	4.9	4.8	6.4	18.2
313	Textile mills	5.4	4.7	6.7	6.4
314	Textile product mills	5.3	9.6	9.9	5.2
315	Apparel manufacturing	10.6	20.6	31.1	4.8
316	Leather and allied product manufacturing	10.0	21.7	23.8	4.4
321	Wood product manufacturing	4.8	4.6	5.4	6.8
322	Paper manufacturing	1.9	2.3	3.2	3.7
323	Printing and related support activities	2.9	6.0	5.6	5.9
324	Petroleum and coal products manufacturing	4.3	5.4	7.5	12.4
325	Chemical manufacturing	2.7	5.2	5.5	3.8
326	Plastics and rubber products manufacturing	1.6	2.7	3.8	3.6
327	Nonmetallic mineral product manufacturing	5.1	4.1	4.0	6.7
331	Primary metal manufacturing	2.3	4.1	5.7	3.7
332	Fabricated metal product manufacturing	1.8	4.4	4.7	2.6
333	Machinery manufacturing	2.9	5.1	6.7	3.1
334	Computer and electronic product manufacturing	5.6	8.8	7.7	2.8
335	Electrical equipment, appliance, and component manufacturing	4.1	4.9	6.3	3.5
336	Transportation equipment manufacturing	4.1	4.4	3.3	2.4
337	Furniture manufacturing	3.1	6.6	5.8	3.2
339	Miscellaneous manufacturing	2.9	11.7	15.9	4.3
4231	Motor vehicle and motor vehicle parts and supplies	7.3	17.4	11.1	13.1
4232	Furniture and home furnishing	5.6	8.0	20.7	7.5
4233	Lumber and other construction materials	3.4	7.4	13.8	10.8
4234	Professional and commercial equipment and supplies	3.5	9.2	14.3	5.8
4235	Metal and mineral (except petroleum)	3.5	10.7	13.8	8.3
4236	Electrical and electronic goods	3.9	8.4	14.1	6.0
4237	Hardware, and plumbing and heating equipment and supplies	2.4	11.1	12.9	6.8
4238	Machinery, equipment, and supplies	2.5	13.1	7.0	4.9
4239	Miscellaneous durable goods	3.6	14.6	11.0	3.9
4241	Paper and paper products	4.5	11.5	23.7	7.5
4242	Drugs and druggists' sundries	6.3	17.2	11.8	6.9
4243	Apparel, piece goods, and notions	6.6	12.9	20.6	4.0
4244	Grocery and related product wholesalers	1.5	2.8	7.4	7.4
4245	Farm product raw material	5.6	5.2	10.2	14.5
4246	Chemical and allied products	5.3	16.1	17.5	8.9
4247	Petroleum and petroleum products	4.2	4.3	8.6	12.4
4248	Beer, wine, and distilled alcoholic beverage	3.8	4.1	14.8	6.0
4249	Miscellaneous nondurable goods	4.1	8.6	18.7	7.7
4541	Electronic shopping and mail order houses	6.8	7.2	8.1	2.4
45431	Fuel dealers	5.4	5.8	33.2	7.3
4931	Warehousing and storage	6.5	5.9	6.0	4.4
5111	Newspaper, periodical, book, and directory publishers	6.2	7.8	14.4	25.8
551114	Corporate, subsidiary, and regional managing offices	7.6	8.3	11.9	4.8

[1] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See "Mileage Calculations" section for additional information.

Note: The Introduction and appendixes give information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions. Links to the information on the Internet may be found at <www.census.gov/cfs>.

Table B-11.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number	Average miles per shipment—coefficient of variation of number
212	**Mining (Except Oil and Gas)**				
	Total	**4.8**	**4.0**	**9.1**	**4.4**
	Single modes	**5.5**	**4.3**	**10.9**	**4.6**
	Truck[2]	8.3	2.9	4.6	3.3
	For-hire truck	8.4	5.0	6.1	4.4
	Private truck	10.4	3.8	5.8	4.4
	Rail	8.0	9.3	12.5	9.1
	Water	33.9	32.0	20.2	(S)
	Shallow draft	(S)	44.5	34.3	22.8
	Great Lakes	25.7	22.2	24.1	9.5
	Deep draft	43.8	48.9	23.2	(S)
	Air (includes truck and air)	(S)	33.5	6.9	(S)
	Pipeline[3]	(S)	(S)	(S)	(S)
	Multiple modes	**15.8**	**15.9**	**19.4**	**9.1**
	Parcel, U.S. Postal Service or courier	(S)	41.4	48.6	11.8
	Truck and rail	19.3	16.9	22.4	13.6
	Truck and water	28.0	31.0	36.2	9.5
	Rail and water	48.1	32.5	31.1	(S)
	Other multiple modes	41.5	32.6	39.3	37.7
	Other and unknown modes	**32.0**	**24.8**	**38.3**	**33.9**
311	**Food Manufacturing**				
	Total	**1.9**	**3.6**	**3.6**	**10.0**
	Single modes	**2.0**	**3.5**	**3.3**	**6.4**
	Truck[2]	2.0	3.2	2.8	6.2
	For-hire truck	2.2	3.6	3.0	3.8
	Private truck	2.6	6.1	3.9	6.3
	Rail	4.4	5.1	6.2	3.1
	Water	21.6	(S)	35.2	25.3
	Shallow draft	36.6	(S)	(S)	(S)
	Great Lakes	–	–	–	–
	Deep draft	34.3	26.3	28.8	26.8
	Air (includes truck and air)	30.0	23.5	39.6	8.6
	Pipeline[3]	38.6	36.4	(S)	(S)
	Multiple modes	**7.0**	**12.0**	**12.9**	**8.1**
	Parcel, U.S. Postal Service or courier	13.5	12.5	13.9	8.7
	Truck and rail	7.5	6.9	7.9	7.9
	Truck and water	31.0	(S)	(S)	13.0
	Rail and water	(S)	(S)	(S)	(S)
	Other multiple modes	34.4	(S)	(S)	(S)
	Other and unknown modes	**8.2**	**16.2**	**14.1**	**35.0**

See footnotes at end of table.

Table B-11.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number	Average miles per shipment—coefficient of variation of number
312	**Beverage and Tobacco Product Manufacturing**				
	Total	**4.9**	**4.8**	**6.4**	**18.2**
	Single modes	**5.0**	**5.0**	**5.8**	**12.6**
	Truck[2]	5.1	5.2	6.4	12.9
	For-hire truck	5.5	6.5	8.1	5.8
	Private truck	10.5	6.3	10.0	12.6
	Rail	20.8	25.6	36.0	10.6
	Water	32.9	30.7	(S)	(S)
	Shallow draft	(S)	(S)	(S)	(S)
	Great Lakes	–	–	–	–
	Deep draft	37.0	37.5	(S)	(S)
	Air (includes truck and air)	(S)	(S)	(S)	17.6
	Pipeline[3]	–	–	–	–
	Multiple modes	**20.7**	**16.4**	**19.2**	**10.8**
	Parcel, U.S. Postal Service or courier	32.7	27.8	32.2	8.7
	Truck and rail	21.7	16.4	18.9	8.8
	Truck and water	24.7	25.8	32.7	22.2
	Rail and water	(S)	(S)	(S)	(S)
	Other multiple modes	28.8	(S)	(S)	(S)
	Other and unknown modes	**30.7**	**33.6**	**42.4**	**(S)**
313	**Textile Mills**				
	Total	**5.4**	**4.7**	**6.7**	**6.4**
	Single modes	**5.8**	**4.7**	**5.3**	**5.1**
	Truck[2]	5.8	4.5	5.3	5.3
	For-hire truck	4.3	5.5	7.0	3.4
	Private truck	14.4	10.1	13.9	15.1
	Rail	14.1	19.5	28.8	19.0
	Water	–	–	–	–
	Shallow draft	–	–	–	–
	Great Lakes	–	–	–	–
	Deep draft	–	–	–	–
	Air (includes truck and air)	42.5	29.7	26.3	12.0
	Pipeline[3]	25.0	(S)	(S)	(S)
	Multiple modes	**14.2**	**20.6**	**27.4**	**6.5**
	Parcel, U.S. Postal Service or courier	16.4	11.0	15.2	6.6
	Truck and rail	30.8	36.7	42.8	12.6
	Truck and water	21.0	26.4	30.0	11.0
	Rail and water	–	–	–	–
	Other multiple modes	(S)	(S)	(S)	(S)
	Other and unknown modes	**48.2**	**29.5**	**45.2**	**20.1**

See footnotes at end of table.

Table B-11.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number	Average miles per shipment—coefficient of variation of number
314	**Textile Product Mills**				
	Total	**5.3**	**9.6**	**9.9**	**5.2**
	Single modes	**6.3**	**10.3**	**8.7**	**7.8**
	Truck[2]	6.3	10.3	8.6	8.5
	For-hire truck	5.8	7.7	9.0	2.7
	Private truck	11.2	16.6	19.5	41.5
	Rail	(S)	(S)	(S)	(S)
	Water	(S)	(S)	(S)	(S)
	Shallow draft	(S)	(S)	(S)	(S)
	Great Lakes	–	–	–	–
	Deep draft	–	–	–	–
	Air (includes truck and air)	42.4	42.7	(S)	11.1
	Pipeline[3]	–	–	–	–
	Multiple modes	**8.5**	**13.3**	**12.3**	**5.0**
	Parcel, U.S. Postal Service or courier	8.6	14.3	13.7	5.0
	Truck and rail	27.1	40.7	(S)	(S)
	Truck and water	34.0	31.1	37.9	46.2
	Rail and water	–	–	–	–
	Other multiple modes	–	–	–	–
	Other and unknown modes	**29.3**	**36.6**	**(S)**	**(S)**
315	**Apparel Manufacturing**				
	Total	**10.6**	**20.6**	**31.1**	**4.8**
	Single modes	**9.3**	**23.8**	**37.4**	**7.5**
	Truck[2]	9.5	23.0	35.2	8.1
	For-hire truck	12.2	27.1	35.7	5.5
	Private truck	24.2	21.7	17.6	27.2
	Rail	–	–	–	–
	Water	–	–	–	–
	Shallow draft	–	–	–	–
	Great Lakes	–	–	–	–
	Deep draft	–	–	–	–
	Air (includes truck and air)	32.8	(S)	(S)	7.5
	Pipeline[3]	–	–	–	–
	Multiple modes	**14.0**	**27.5**	**35.7**	**5.1**
	Parcel, U.S. Postal Service or courier	13.9	29.6	37.3	5.1
	Truck and rail	(S)	22.5	43.9	(S)
	Truck and water	34.8	26.0	34.2	19.4
	Rail and water	–	–	–	–
	Other multiple modes	(S)	(S)	(S)	(S)
	Other and unknown modes	**(S)**	**(S)**	**(S)**	**(S)**

See footnotes at end of table.

Table B-11.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number	Average miles per shipment—coefficient of variation of number
316	**Leather and Allied Product Manufacturing**				
	Total	**10.0**	**21.7**	**23.8**	**4.4**
	Single modes	**9.9**	**25.7**	**32.3**	**9.0**
	Truck[2]	9.8	24.9	34.5	7.2
	For-hire truck	12.0	27.2	34.9	6.9
	Private truck	17.7	32.0	36.0	17.9
	Rail	39.7	(S)	(S)	20.7
	Water	–	–	–	–
	Shallow draft	–	–	–	–
	Great Lakes	–	–	–	–
	Deep draft	–	–	–	–
	Air (includes truck and air)	42.1	37.5	39.8	15.1
	Pipeline[3]	–	–	–	–
	Multiple modes	**20.1**	**18.9**	**21.2**	**3.7**
	Parcel, U.S. Postal Service or courier	24.0	19.1	20.6	3.7
	Truck and rail	18.6	18.2	18.7	7.6
	Truck and water	48.7	32.4	(S)	(S)
	Rail and water	(S)	(S)	(S)	(S)
	Other multiple modes	0.4	(S)	(S)	(S)
	Other and unknown modes	**(S)**	**(S)**	**(S)**	**19.7**
321	**Wood Product Manufacturing**				
	Total	**4.8**	**4.6**	**5.4**	**6.8**
	Single modes	**5.0**	**4.7**	**5.0**	**5.6**
	Truck[2]	5.2	5.0	5.1	5.8
	For-hire truck	7.3	5.8	5.7	5.0
	Private truck	3.6	5.7	5.2	4.3
	Rail	7.9	9.0	10.1	4.5
	Water	47.6	(S)	(S)	(S)
	Shallow draft	(S)	(S)	(S)	27.7
	Great Lakes	–	–	–	–
	Deep draft	46.9	(S)	(S)	(S)
	Air (includes truck and air)	28.7	(S)	(S)	20.5
	Pipeline[3]	–	–	–	–
	Multiple modes	**7.7**	**18.7**	**13.4**	**4.4**
	Parcel, U.S. Postal Service or courier	19.7	15.1	16.2	5.0
	Truck and rail	7.7	9.7	13.8	4.7
	Truck and water	25.1	(S)	35.9	25.3
	Rail and water	37.7	48.0	(S)	28.4
	Other multiple modes	37.6	43.2	(S)	29.7
	Other and unknown modes	**14.7**	**15.8**	**18.1**	**42.6**

See footnotes at end of table.

Table B-11.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number	Average miles per shipment—coefficient of variation of number
322	**Paper Manufacturing**				
	Total	**1.9**	**2.3**	**3.2**	**3.7**
	Single modes	**1.9**	**2.3**	**3.1**	**3.0**
	Truck[2]	1.7	2.0	1.9	3.0
	For-hire truck	1.8	2.2	2.2	3.1
	Private truck	5.3	4.7	6.9	4.2
	Rail	4.8	5.1	7.0	2.6
	Water	34.4	33.1	(S)	(S)
	Shallow draft	24.5	22.7	11.0	(S)
	Great Lakes	–	–	–	–
	Deep draft	(S)	(S)	(S)	44.7
	Air (includes truck and air)	20.7	32.0	32.7	7.6
	Pipeline[3]	–	–	–	–
	Multiple modes	**5.8**	**8.9**	**7.6**	**3.0**
	Parcel, U.S. Postal Service or courier	16.5	14.0	13.4	2.9
	Truck and rail	6.7	9.7	8.3	3.3
	Truck and water	24.5	34.3	35.6	39.1
	Rail and water	41.5	(S)	16.7	(S)
	Other multiple modes	45.4	49.3	26.1	25.2
	Other and unknown modes	**12.6**	**13.1**	**21.2**	**12.2**
323	**Printing and Related Support Activities**				
	Total	**2.9**	**6.0**	**5.6**	**5.9**
	Single modes	**2.4**	**6.2**	**6.3**	**11.2**
	Truck[2]	2.4	6.3	6.5	11.9
	For-hire truck	3.9	7.2	6.8	6.5
	Private truck	4.8	10.4	14.4	11.0
	Rail	21.6	28.9	29.3	28.2
	Water	14.2	47.9	(S)	(S)
	Shallow draft	–	–	–	–
	Great Lakes	–	–	–	–
	Deep draft	14.2	47.9	(S)	(S)
	Air (includes truck and air)	12.0	18.0	18.2	8.4
	Pipeline[3]	–	–	–	–
	Multiple modes	**11.1**	**4.6**	**7.3**	**6.2**
	Parcel, U.S. Postal Service or courier	11.3	5.6	7.2	6.2
	Truck and rail	31.4	17.1	16.4	23.2
	Truck and water	41.5	(S)	(S)	19.2
	Rail and water	–	–	–	–
	Other multiple modes	(S)	(S)	(S)	(S)
	Other and unknown modes	**8.1**	**19.9**	**18.4**	**15.5**

See footnotes at end of table.

Table B-11.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number	Average miles per shipment—coefficient of variation of number
324	**Petroleum and Coal Products Manufacturing**				
	Total	**4.3**	**5.4**	**7.5**	**12.4**
	Single modes	**4.5**	**5.7**	**8.4**	**5.7**
	Truck[2]	8.1	9.6	25.6	6.7
	For-hire truck	9.2	11.9	31.8	9.5
	Private truck	18.7	13.9	15.3	11.1
	Rail	17.2	9.7	10.9	8.1
	Water	16.1	14.1	19.0	12.4
	Shallow draft	17.6	15.9	37.6	14.2
	Great Lakes	–	–	–	–
	Deep draft	15.5	14.2	21.3	29.9
	Air (includes truck and air)	(S)	(S)	(S)	13.7
	Pipeline[3]	6.6	6.6	(S)	(S)
	Multiple modes	**16.9**	**15.8**	**17.4**	**6.8**
	Parcel, U.S. Postal Service or courier	(S)	(S)	(S)	5.0
	Truck and rail	27.2	28.7	26.4	27.7
	Truck and water	31.3	28.7	27.3	(S)
	Rail and water	35.5	35.3	45.9	24.2
	Other multiple modes	21.9	19.5	22.5	26.9
	Other and unknown modes	**(S)**	**38.9**	**27.6**	**(S)**
325	**Chemical Manufacturing**				
	Total	**2.7**	**5.2**	**5.5**	**3.8**
	Single modes	**3.4**	**5.5**	**6.2**	**3.6**
	Truck[2]	3.7	5.2	3.5	3.2
	For-hire truck	4.7	3.5	3.6	2.1
	Private truck	6.8	12.7	9.7	4.1
	Rail	8.5	6.3	6.7	1.9
	Water	29.5	23.0	47.5	37.3
	Shallow draft	32.4	23.0	22.0	21.4
	Great Lakes	–	–	–	–
	Deep draft	(S)	48.8	(S)	37.5
	Air (includes truck and air)	21.5	23.3	33.5	5.5
	Pipeline[3]	34.4	31.6	(S)	(S)
	Multiple modes	**8.9**	**9.8**	**8.4**	**4.2**
	Parcel, U.S. Postal Service or courier	14.4	8.9	10.9	4.2
	Truck and rail	9.0	9.2	11.1	2.9
	Truck and water	25.8	37.7	24.5	10.3
	Rail and water	26.9	25.3	25.2	23.8
	Other multiple modes	23.3	21.4	29.5	17.9
	Other and unknown modes	**12.2**	**18.2**	**27.2**	**16.6**

See footnotes at end of table.

Table B-11.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number	Average miles per shipment—coefficient of variation of number
326	**Plastics and Rubber Products Manufacturing**				
	Total	**1.6**	**2.7**	**3.8**	**3.6**
	Single modes	**1.8**	**2.5**	**2.7**	**3.4**
	Truck[2]	1.7	2.5	2.7	3.4
	For-hire truck	1.9	2.5	3.0	2.3
	Private truck	4.2	6.5	6.0	4.5
	Rail	21.5	21.3	19.7	9.0
	Water	34.4	19.3	(S)	(S)
	Shallow draft	–	–	–	–
	Great Lakes	–	–	–	–
	Deep draft	34.4	19.3	(S)	(S)
	Air (includes truck and air)	16.9	22.4	23.1	4.8
	Pipeline[3]	–	–	–	–
	Multiple modes	**5.8**	**7.0**	**8.2**	**3.0**
	Parcel, U.S. Postal Service or courier	7.7	13.1	15.4	3.0
	Truck and rail	10.7	11.1	11.1	6.4
	Truck and water	26.1	27.0	20.2	14.0
	Rail and water	37.8	(S)	23.2	(S)
	Other multiple modes	26.4	29.2	30.9	8.8
	Other and unknown modes	**17.3**	**45.9**	**(S)**	**12.4**
327	**Nonmetallic Mineral Product Manufacturing**				
	Total	**5.1**	**4.1**	**4.0**	**6.7**
	Single modes	**5.2**	**4.0**	**4.2**	**5.7**
	Truck[2]	5.3	4.1	2.6	5.3
	For-hire truck	2.6	3.2	3.1	4.5
	Private truck	10.3	5.2	5.3	10.2
	Rail	7.3	34.5	22.2	16.5
	Water	20.0	23.2	25.4	15.9
	Shallow draft	24.0	23.2	30.4	19.9
	Great Lakes	36.8	36.7	27.1	7.8
	Deep draft	19.7	16.6	23.5	16.2
	Air (includes truck and air)	26.0	39.7	(S)	6.9
	Pipeline[3]	–	–	–	–
	Multiple modes	**7.5**	**10.2**	**12.4**	**2.8**
	Parcel, U.S. Postal Service or courier	12.3	16.3	16.1	2.9
	Truck and rail	11.0	14.4	17.0	10.0
	Truck and water	24.0	36.1	23.9	22.7
	Rail and water	23.5	(S)	30.3	(S)
	Other multiple modes	26.1	22.1	28.1	29.9
	Other and unknown modes	**11.9**	**15.2**	**17.0**	**44.7**

See footnotes at end of table.

Table B-11.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number	Average miles per shipment—coefficient of variation of number
331	**Primary Metal Manufacturing**				
	Total	**2.3**	**4.1**	**5.7**	**3.7**
	Single modes	**2.9**	**5.2**	**7.7**	**3.5**
	Truck[2]	2.8	4.8	5.2	3.6
	For-hire truck	3.1	5.6	5.7	2.2
	Private truck	6.1	14.5	14.0	9.0
	Rail	9.1	9.7	14.3	7.2
	Water	23.7	24.8	24.9	9.6
	Shallow draft	23.6	24.7	24.3	9.8
	Great Lakes	–	–	–	–
	Deep draft	(S)	(S)	(S)	(S)
	Air (includes truck and air)	19.0	18.7	20.6	5.9
	Pipeline[3]	–	–	–	–
	Multiple modes	**10.2**	**14.1**	**18.8**	**3.0**
	Parcel, U.S. Postal Service or courier	13.1	17.4	20.4	3.4
	Truck and rail	12.7	14.1	17.4	11.0
	Truck and water	48.7	(S)	(S)	26.3
	Rail and water	39.9	35.1	41.6	13.9
	Other multiple modes	25.8	31.2	30.2	34.9
	Other and unknown modes	**15.6**	**27.1**	**27.3**	**13.6**
332	**Fabricated Metal Product Manufacturing**				
	Total	**1.8**	**4.4**	**4.7**	**2.6**
	Single modes	**2.0**	**4.3**	**4.9**	**3.3**
	Truck[2]	2.0	4.2	3.9	3.4
	For-hire truck	2.0	3.5	4.1	2.2
	Private truck	5.6	12.9	11.6	5.0
	Rail	22.3	23.3	32.5	14.4
	Water	(S)	(S)	(S)	(S)
	Shallow draft	(S)	(S)	(S)	0.8
	Great Lakes	–	–	–	–
	Deep draft	(S)	(S)	(S)	(S)
	Air (includes truck and air)	9.8	(S)	37.6	4.2
	Pipeline[3]	–	–	–	–
	Multiple modes	**4.3**	**10.3**	**9.3**	**2.4**
	Parcel, U.S. Postal Service or courier	4.6	4.6	6.0	2.4
	Truck and rail	14.1	20.3	19.2	8.0
	Truck and water	16.4	23.2	22.4	12.0
	Rail and water	(S)	37.0	45.4	(S)
	Other multiple modes	(S)	(S)	(S)	49.9
	Other and unknown modes	**8.3**	**20.9**	**20.8**	**22.7**

See footnotes at end of table.

Table B-11.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number	Average miles per shipment—coefficient of variation of number
333	**Machinery Manufacturing**				
	Total	**2.9**	**5.1**	**6.7**	**3.1**
	Single modes	**3.2**	**5.2**	**7.1**	**3.6**
	Truck[2]	3.5	5.4	7.4	4.0
	For-hire truck	3.5	5.7	8.0	3.0
	Private truck	7.5	12.5	18.9	10.8
	Rail	28.6	20.8	19.8	10.2
	Water	(S)	(S)	(S)	(S)
	Shallow draft	–	–	–	–
	Great Lakes	–	–	–	–
	Deep draft	(S)	(S)	(S)	(S)
	Air (includes truck and air)	11.4	15.5	13.7	4.9
	Pipeline[3]	–	–	–	–
	Multiple modes	**4.4**	**12.8**	**13.0**	**3.0**
	Parcel, U.S. Postal Service or courier	4.3	4.7	4.8	3.0
	Truck and rail	21.0	24.5	22.4	6.9
	Truck and water	28.9	24.0	29.8	9.1
	Rail and water	42.9	(S)	(S)	33.0
	Other multiple modes	(S)	(S)	(S)	28.1
	Other and unknown modes	**11.9**	**20.5**	**23.2**	**8.6**
334	**Computer and Electronic Product Manufacturing**				
	Total	**5.6**	**8.8**	**7.7**	**2.8**
	Single modes	**8.4**	**7.0**	**8.3**	**4.0**
	Truck[2]	11.2	7.4	9.5	4.7
	For-hire truck	13.4	9.0	10.1	3.4
	Private truck	14.0	15.1	18.1	12.2
	Rail	30.0	(S)	(S)	(S)
	Water	–	–	–	–
	Shallow draft	–	–	–	–
	Great Lakes	–	–	–	–
	Deep draft	–	–	–	–
	Air (includes truck and air)	7.0	15.8	14.2	4.4
	Pipeline[3]	–	–	–	–
	Multiple modes	**3.8**	**5.3**	**6.0**	**3.0**
	Parcel, U.S. Postal Service or courier	3.9	5.7	6.1	3.0
	Truck and rail	39.2	27.5	28.3	14.0
	Truck and water	43.4	38.9	49.0	(S)
	Rail and water	(S)	(S)	(S)	(S)
	Other multiple modes	(S)	(S)	(S)	(S)
	Other and unknown modes	**20.7**	**42.7**	**34.9**	**13.6**

See footnotes at end of table.

Table B-11.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number	Average miles per shipment—coefficient of variation of number
335	**Electrical Equipment, Appliance, and Component Manufacturing**				
	Total	**4.1**	**4.9**	**6.3**	**3.5**
	Single modes	**3.7**	**4.1**	**4.5**	**2.3**
	Truck[2]	3.5	4.0	4.3	2.0
	For-hire truck	3.4	4.5	4.8	2.1
	Private truck	9.4	10.8	20.2	10.5
	Rail	(S)	(S)	(S)	15.2
	Water	(S)	(S)	(S)	29.4
	Shallow draft	(S)	(S)	(S)	(S)
	Great Lakes	–	–	–	–
	Deep draft	(S)	(S)	(S)	(S)
	Air (includes truck and air)	11.7	(S)	(S)	4.6
	Pipeline[3]	–	–	–	–
	Multiple modes	**9.1**	**26.1**	**25.1**	**2.5**
	Parcel, U.S. Postal Service or courier	8.9	12.7	12.6	2.5
	Truck and rail	21.6	37.1	33.6	7.4
	Truck and water	20.9	38.1	35.5	16.6
	Rail and water	(S)	(S)	(S)	(S)
	Other multiple modes	–	–	–	–
	Other and unknown modes	**26.7**	**37.9**	**45.2**	**(S)**
336	**Transportation Equipment Manufacturing**				
	Total	**4.1**	**4.4**	**3.3**	**2.4**
	Single modes	**4.3**	**5.2**	**4.1**	**4.0**
	Truck[2]	2.9	5.6	4.2	4.5
	For-hire truck	4.2	5.3	4.4	4.6
	Private truck	7.4	12.3	11.0	9.9
	Rail	19.5	16.8	19.2	8.1
	Water	5.8	31.4	2.7	(S)
	Shallow draft	7.5	31.5	2.7	(S)
	Great Lakes	–	–	–	–
	Deep draft	7.9	(S)	(S)	12.7
	Air (includes truck and air)	26.2	24.2	21.3	3.2
	Pipeline[3]	–	–	–	–
	Multiple modes	**8.6**	**7.2**	**9.1**	**2.9**
	Parcel, U.S. Postal Service or courier	13.3	9.0	7.7	2.6
	Truck and rail	13.3	7.6	9.9	6.6
	Truck and water	20.3	22.4	20.7	16.3
	Rail and water	(S)	(S)	(S)	50.0
	Other multiple modes	(S)	(S)	(S)	27.7
	Other and unknown modes	**33.8**	**34.0**	**32.6**	**20.2**

See footnotes at end of table.

Table B-11.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number	Average miles per shipment—coefficient of variation of number
337	**Furniture Manufacturing**				
	Total	**3.1**	**6.6**	**5.8**	**3.2**
	Single modes	**3.4**	**6.8**	**6.1**	**2.8**
	Truck[2]	3.4	6.9	6.1	2.9
	For-hire truck	5.2	9.0	6.8	2.0
	Private truck	5.7	7.0	9.5	12.9
	Rail	35.7	33.1	36.3	13.3
	Water	(S)	(S)	47.6	(S)
	Shallow draft	–	–	–	–
	Great Lakes	–	–	–	–
	Deep draft	(S)	(S)	47.6	(S)
	Air (includes truck and air)	35.0	33.6	(S)	11.6
	Pipeline[3]	–	–	–	–
	Multiple modes	**10.3**	**10.5**	**15.0**	**3.8**
	Parcel, U.S. Postal Service or courier	11.5	10.8	12.7	3.7
	Truck and rail	26.4	27.2	33.1	17.7
	Truck and water	18.3	29.1	40.4	14.6
	Rail and water	(S)	(S)	(S)	(S)
	Other multiple modes	45.8	40.8	(S)	41.3
	Other and unknown modes	**19.0**	**18.6**	**24.3**	**13.1**
339	**Miscellaneous Manufacturing**				
	Total	**2.9**	**11.7**	**15.9**	**4.3**
	Single modes	**4.5**	**10.7**	**15.5**	**7.4**
	Truck[2]	4.7	10.8	15.8	10.0
	For-hire truck	5.3	13.9	16.8	6.1
	Private truck	6.3	17.1	21.7	27.2
	Rail	48.0	(S)	(S)	15.5
	Water	(S)	(S)	(S)	(S)
	Shallow draft	(S)	(S)	(S)	(S)
	Great Lakes	–	–	–	–
	Deep draft	–	–	–	–
	Air (includes truck and air)	9.9	17.9	18.8	4.1
	Pipeline[3]	–	–	–	–
	Multiple modes	**4.1**	**26.0**	**27.7**	**4.2**
	Parcel, U.S. Postal Service or courier	4.1	7.9	6.5	4.2
	Truck and rail	30.9	(S)	(S)	14.1
	Truck and water	19.8	35.3	45.3	16.5
	Rail and water	–	–	–	–
	Other multiple modes	(S)	45.1	(S)	(S)
	Other and unknown modes	**12.9**	**18.7**	**18.6**	**38.5**

See footnotes at end of table.

Table B-11.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number	Average miles per shipment—coefficient of variation of number
4231	**Motor Vehicle and Motor Vehicle Parts and Supplies**				
	Total	**7.3**	**17.4**	**11.1**	**13.1**
	Single modes	**8.9**	**19.1**	**12.3**	**12.1**
	Truck[2]	8.0	20.1	12.4	13.4
	For-hire truck	10.4	10.6	14.4	18.0
	Private truck	8.5	30.9	12.7	7.3
	Rail	(S)	44.5	(S)	21.1
	Water	(S)	(S)	(S)	(S)
	Shallow draft	–	–	–	–
	Great Lakes	–	–	–	–
	Deep draft	(S)	(S)	(S)	(S)
	Air (includes truck and air)	30.0	22.1	23.2	5.0
	Pipeline[3]	–	–	–	–
	Multiple modes	**6.4**	**11.7**	**19.2**	**9.1**
	Parcel, U.S. Postal Service or courier	8.6	15.2	20.5	9.1
	Truck and rail	24.2	31.0	37.6	20.0
	Truck and water	43.8	42.9	46.8	18.1
	Rail and water	–	–	–	–
	Other multiple modes	(S)	(S)	(S)	(S)
	Other and unknown modes	**13.5**	**24.4**	**38.1**	**38.2**
4232	**Furniture and Home Furnishings**				
	Total	**5.6**	**8.0**	**20.7**	**7.5**
	Single modes	**5.9**	**8.2**	**23.2**	**8.2**
	Truck[2]	6.0	8.3	23.6	8.2
	For-hire truck	10.6	17.9	27.5	3.9
	Private truck	6.3	7.2	14.2	10.9
	Rail	32.6	40.0	39.9	40.1
	Water	43.3	(S)	(S)	33.5
	Shallow draft	–	–	–	–
	Great Lakes	–	–	–	–
	Deep draft	43.3	(S)	(S)	33.5
	Air (includes truck and air)	(S)	(S)	(S)	11.2
	Pipeline[3]	–	–	–	–
	Multiple modes	**13.5**	**17.1**	**16.9**	**4.4**
	Parcel, U.S. Postal Service or courier	13.8	20.0	21.4	4.4
	Truck and rail	25.5	30.9	31.5	28.7
	Truck and water	36.8	40.6	(S)	40.9
	Rail and water	(S)	(S)	(S)	(S)
	Other multiple modes	(S)	(S)	(S)	(S)
	Other and unknown modes	**15.5**	**23.8**	**(S)**	**28.7**

See footnotes at end of table.

Table B-11.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number	Average miles per shipment—coefficient of variation of number
4233	**Lumber and Other Construction Materials**				
	Total	**3.4**	**7.4**	**13.8**	**10.8**
	Single modes	**3.3**	**7.3**	**10.1**	**10.0**
	Truck[2]	3.3	7.3	10.0	10.1
	For-hire truck	8.7	11.1	15.5	12.3
	Private truck	2.5	8.6	5.1	4.1
	Rail	43.7	40.3	42.3	(S)
	Water	31.9	31.3	44.5	39.3
	Shallow draft	–	–	–	–
	Great Lakes	–	–	–	–
	Deep draft	31.9	31.3	44.5	39.3
	Air (includes truck and air)	41.9	44.2	47.6	14.9
	Pipeline[3]	–	–	–	–
	Multiple modes	**13.8**	**(S)**	**37.7**	**9.7**
	Parcel, U.S. Postal Service or courier	15.4	12.7	17.5	10.2
	Truck and rail	34.3	(S)	(S)	(S)
	Truck and water	39.1	33.4	36.3	12.7
	Rail and water	–	–	–	–
	Other multiple modes	23.2	9.1	(S)	(S)
	Other and unknown modes	**11.4**	**31.0**	**33.2**	**12.3**
4234	**Professional and Commercial Equipment And Supplies**				
	Total	**3.5**	**9.2**	**14.3**	**5.8**
	Single modes	**4.2**	**11.0**	**18.2**	**9.8**
	Truck[2]	4.3	11.1	19.2	11.6
	For-hire truck	5.8	11.5	20.7	7.2
	Private truck	5.9	13.4	15.8	6.4
	Rail	(S)	(S)	(S)	(S)
	Water	25.3	25.4	22.3	9.3
	Shallow draft	–	–	–	–
	Great Lakes	–	–	–	–
	Deep draft	25.3	25.4	22.3	9.3
	Air (includes truck and air)	21.0	27.6	33.9	5.8
	Pipeline[3]	–	–	–	–
	Multiple modes	**4.4**	**7.3**	**8.7**	**5.2**
	Parcel, U.S. Postal Service or courier	4.4	7.3	8.1	5.2
	Truck and rail	38.9	(S)	43.7	18.3
	Truck and water	(S)	(S)	(S)	(S)
	Rail and water	–	–	–	–
	Other multiple modes	(S)	(S)	(S)	(S)
	Other and unknown modes	**24.7**	**49.6**	**27.2**	**42.7**

See footnotes at end of table.

Table B-11.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number	Average miles per shipment—coefficient of variation of number
4235	**Metal and Mineral (Except Petroleum)**				
	Total	**3.5**	**10.7**	**13.8**	**8.3**
	Single modes	**3.7**	**10.2**	**9.3**	**6.5**
	Truck[2]	3.9	5.7	4.6	6.5
	For-hire truck	6.1	8.1	6.0	8.5
	Private truck	3.9	5.4	7.3	4.5
	Rail	38.8	40.0	(S)	42.1
	Water	44.6	43.9	40.7	(S)
	Shallow draft	39.9	38.5	34.6	17.3
	Great Lakes	–	–	–	–
	Deep draft	40.1	43.7	(S)	36.4
	Air (includes truck and air)	(S)	(S)	(S)	25.4
	Pipeline[3]	–	–	–	–
	Multiple modes	**11.2**	**35.2**	**47.5**	**9.9**
	Parcel, U.S. Postal Service or courier	11.0	22.5	19.1	10.0
	Truck and rail	33.9	31.1	(S)	14.8
	Truck and water	(S)	(S)	(S)	28.5
	Rail and water	40.8	(S)	(S)	35.8
	Other multiple modes	26.2	45.2	46.2	5.8
	Other and unknown modes	**21.5**	**15.1**	**27.0**	**29.9**
4236	**Electrical and Electronic Goods**				
	Total	**3.9**	**8.4**	**14.1**	**6.0**
	Single modes	**5.4**	**9.3**	**16.7**	**12.5**
	Truck[2]	5.3	9.0	14.9	15.9
	For-hire truck	9.7	12.1	15.8	5.6
	Private truck	6.9	9.7	13.2	4.3
	Rail	(S)	40.1	43.9	(S)
	Water	(S)	44.2	(S)	(S)
	Shallow draft	–	–	–	–
	Great Lakes	–	–	–	–
	Deep draft	(S)	44.2	(S)	(S)
	Air (includes truck and air)	33.0	41.7	48.5	5.7
	Pipeline[3]	–	–	–	–
	Multiple modes	**4.3**	**10.8**	**16.7**	**4.7**
	Parcel, U.S. Postal Service or courier	4.4	10.9	11.9	4.7
	Truck and rail	(S)	45.6	(S)	16.5
	Truck and water	(S)	38.8	(S)	(S)
	Rail and water	–	–	–	–
	Other multiple modes	(S)	(S)	(S)	(S)
	Other and unknown modes	**8.9**	**32.7**	**21.5**	**12.1**

See footnotes at end of table.

Table B-11.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number	Average miles per shipment—coefficient of variation of number
4237	**Hardware and Plumbing and Heating Equipment and Supplies**				
	Total	**2.4**	**11.1**	**12.9**	**6.8**
	Single modes	**2.8**	**11.7**	**10.3**	**10.0**
	Truck	2.8	11.7	10.7	10.2
	For-hire truck	7.6	21.9	15.0	9.9
	Private truck	4.6	13.4	9.0	8.8
	Rail	27.5	26.4	38.8	(S)
	Water	40.1	44.1	(S)	33.7
	Shallow draft	–	–	–	–
	Great Lakes	–	–	–	–
	Deep draft	40.1	44.1	(S)	33.7
	Air (includes truck and air)	33.5	(S)	(S)	11.0
	Pipeline[3]	–	–	–	–
	Multiple modes	**6.6**	**9.1**	**11.4**	**6.2**
	Parcel, U.S. Postal Service or courier	7.1	10.4	12.5	6.3
	Truck and rail	31.8	38.7	42.4	(S)
	Truck and water	37.9	32.7	31.2	31.6
	Rail and water	–	–	–	–
	Other multiple modes	(S)	(S)	(S)	36.3
	Other and unknown modes	**11.4**	**25.0**	**(S)**	**8.1**
4238	**Machinery, Equipment, and Supplies**				
	Total	**2.5**	**13.1**	**7.0**	**4.9**
	Single modes	**3.1**	**14.5**	**7.2**	**4.7**
	Truck	3.3	14.6	7.4	5.1
	For-hire truck	5.6	26.3	9.0	5.3
	Private truck	4.5	9.8	13.6	4.4
	Rail	(S)	42.9	36.0	(S)
	Water	(S)	(S)	(S)	21.7
	Shallow draft	(S)	(S)	(S)	25.5
	Great Lakes	–	–	–	–
	Deep draft	(S)	(S)	(S)	22.3
	Air (includes truck and air)	17.5	18.7	33.9	4.4
	Pipeline[3]	–	–	–	–
	Multiple modes	**4.8**	**12.5**	**11.6**	**5.0**
	Parcel, U.S. Postal Service or courier	4.7	5.0	8.0	5.0
	Truck and rail	36.2	(S)	29.9	13.3
	Truck and water	37.2	(S)	37.7	20.3
	Rail and water	(S)	(S)	(S)	17.2
	Other multiple modes	(S)	(S)	(S)	(S)
	Other and unknown modes	**9.8**	**17.9**	**23.8**	**22.4**

See footnotes at end of table.

Table B-11.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number	Average miles per shipment—coefficient of variation of number
4239	**Miscellaneous Durable Goods**				
	Total	**3.6**	**14.6**	**11.0**	**3.9**
	Single modes	**4.4**	**15.4**	**9.9**	**9.2**
	Truck	4.9	17.4	12.0	10.3
	For-hire truck	6.7	11.8	15.4	8.4
	Private truck	5.7	26.1	22.0	8.7
	Rail	12.1	12.2	14.3	15.2
	Water	23.1	27.9	26.6	20.5
	Shallow draft	16.7	16.8	24.8	18.3
	Great Lakes	–	–	–	–
	Deep draft	(S)	(S)	(S)	(S)
	Air (includes truck and air)	17.1	36.3	32.8	6.9
	Pipeline[3]	–	–	–	–
	Multiple modes	**5.4**	**15.2**	**30.0**	**2.7**
	Parcel, U.S. Postal Service or courier	6.0	9.7	9.8	2.8
	Truck and rail	12.3	17.0	25.4	10.7
	Truck and water	38.3	46.2	(S)	30.7
	Rail and water	(S)	(S)	(S)	(S)
	Other multiple modes	38.6	(S)	29.1	(S)
	Other and unknown modes	**18.3**	**35.4**	**32.3**	**49.6**
4241	**Paper and Paper Products**				
	Total	**4.5**	**11.5**	**23.7**	**7.5**
	Single modes	**4.2**	**11.8**	**28.1**	**8.1**
	Truck	4.2	6.5	15.3	8.1
	For-hire truck	9.6	13.4	17.1	10.5
	Private truck	4.4	6.5	12.2	8.0
	Rail	(S)	(S)	(S)	18.7
	Water	28.2	36.0	42.1	18.1
	Shallow draft	–	–	–	–
	Great Lakes	–	–	–	–
	Deep draft	28.2	36.0	42.1	18.1
	Air (includes truck and air)	37.0	36.5	(S)	11.4
	Pipeline[3]	–	–	–	–
	Multiple modes	**19.9**	**(S)**	**(S)**	**7.0**
	Parcel, U.S. Postal Service or courier	7.6	12.9	14.4	7.0
	Truck and rail	(S)	(S)	(S)	44.2
	Truck and water	31.6	26.5	29.1	14.9
	Rail and water	–	–	–	–
	Other multiple modes	–	–	–	–
	Other and unknown modes	**22.3**	**29.8**	**(S)**	**37.6**

See footnotes at end of table.

Table B-11.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number	Average miles per shipment—coefficient of variation of number
4242	**Drugs and Druggists' Sundries**				
	Total	**6.3**	**17.2**	**11.8**	**6.9**
	Single modes	**7.6**	**18.5**	**13.5**	**19.1**
	Truck[2]	7.9	18.6	13.6	19.1
	For-hire truck	9.4	15.1	17.7	10.9
	Private truck	19.6	33.0	24.5	12.6
	Rail	(S)	(S)	(S)	40.8
	Water	(S)	(S)	(S)	17.8
	Shallow draft	–	–	–	–
	Great Lakes	–	–	–	–
	Deep draft	(S)	(S)	(S)	17.8
	Air (includes truck and air)	48.6	(S)	(S)	10.8
	Pipeline[3]	(S)	(S)	(S)	(S)
	Multiple modes	**13.1**	**13.9**	**11.0**	**6.5**
	Parcel, U.S. Postal Service or courier	13.1	14.7	12.2	6.5
	Truck and rail	(S)	(S)	(S)	(S)
	Truck and water	(S)	43.2	(S)	49.5
	Rail and water	–	–	–	–
	Other multiple modes	(S)	(S)	(S)	(S)
	Other and unknown modes	**22.5**	**31.6**	**38.8**	**(S)**
4243	**Apparel, Piece Goods, and Notions**				
	Total	**6.6**	**12.9**	**20.6**	**4.0**
	Single modes	**7.3**	**16.4**	**26.2**	**4.8**
	Truck[2]	7.3	16.5	26.5	4.6
	For-hire truck	8.7	18.6	27.2	3.4
	Private truck	12.5	36.1	15.7	18.7
	Rail	(S)	(S)	(S)	(S)
	Water	(S)	(S)	(S)	(S)
	Shallow draft	(S)	(S)	(S)	(S)
	Great Lakes	–	–	–	–
	Deep draft	41.3	(S)	(S)	(S)
	Air (includes truck and air)	26.0	30.1	40.4	22.5
	Pipeline[3]	–	–	–	–
	Multiple modes	**8.5**	**7.5**	**11.3**	**4.0**
	Parcel, U.S. Postal Service or courier	9.1	8.5	12.2	4.0
	Truck and rail	36.5	42.6	47.4	14.3
	Truck and water	(S)	(S)	(S)	24.8
	Rail and water	–	–	–	–
	Other multiple modes	–	–	–	–
	Other and unknown modes	**17.3**	**26.0**	**40.7**	**32.4**

See footnotes at end of table.

Table B-11.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number	Average miles per shipment—coefficient of variation of number
4244	**Grocery and Related Product Wholesalers**				
	Total	**1.5**	**2.8**	**7.4**	**7.4**
	Single modes	**1.4**	**2.7**	**6.1**	**4.5**
	Truck[2]	1.4	2.8	6.4	4.4
	For-hire truck	5.6	9.4	9.5	7.3
	Private truck	1.7	2.7	3.9	3.9
	Rail	42.4	32.0	31.5	31.0
	Water	34.6	36.9	36.9	(S)
	Shallow draft	(S)	(S)	(S)	(S)
	Great Lakes	–	–	–	–
	Deep draft	38.2	34.6	36.1	44.4
	Air (includes truck and air)	22.5	36.3	(S)	11.3
	Pipeline[3]	–	–	–	–
	Multiple modes	**16.8**	**30.5**	**(S)**	**8.3**
	Parcel, U.S. Postal Service or courier	20.9	18.6	24.0	9.6
	Truck and rail	27.4	27.2	27.9	19.4
	Truck and water	31.1	42.3	(S)	11.9
	Rail and water	46.0	32.8	44.4	45.2
	Other multiple modes	(S)	(S)	(S)	(S)
	Other and unknown modes	**14.8**	**22.2**	**31.1**	**28.7**
4245	**Farm Product Raw Materials**				
	Total	**5.6**	**5.2**	**10.2**	**14.5**
	Single modes	**6.0**	**5.6**	**10.9**	**15.3**
	Truck[2]	8.4	7.2	11.1	15.6
	For-hire truck	11.2	11.9	11.8	14.4
	Private truck	8.3	9.7	22.4	26.7
	Rail	12.9	12.3	14.0	6.9
	Water	11.3	11.6	17.2	4.8
	Shallow draft	12.2	12.8	17.2	4.9
	Great Lakes	(S)	(S)	(S)	(S)
	Deep draft	29.2	27.3	(S)	(S)
	Air (includes truck and air)	(S)	(S)	(S)	20.2
	Pipeline[3]	(S)	(S)	(S)	(S)
	Multiple modes	**26.2**	**19.8**	**19.6**	**19.6**
	Parcel, U.S. Postal Service or courier	47.9	41.4	(S)	20.3
	Truck and rail	41.8	28.8	29.8	16.9
	Truck and water	36.5	44.5	(S)	(S)
	Rail and water	48.9	45.6	47.3	16.0
	Other multiple modes	28.9	23.5	26.2	12.8
	Other and unknown modes	**47.7**	**(S)**	**45.9**	**(S)**

See footnotes at end of table.

Table B-11.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number	Average miles per shipment—coefficient of variation of number
4246	**Chemical and Allied Products**				
	Total	**5.3**	**16.1**	**17.5**	**8.9**
	Single modes	**5.8**	**16.5**	**18.9**	**12.6**
	Truck[2]	5.9	16.6	14.9	12.0
	For-hire truck	6.8	12.4	11.9	6.3
	Private truck	9.1	22.1	30.7	11.3
	Rail	21.0	(S)	(S)	17.1
	Water	38.7	49.5	(S)	(S)
	Shallow draft	(S)	(S)	(S)	44.5
	Great Lakes	–	–	–	–
	Deep draft	(S)	34.0	(S)	49.1
	Air (includes truck and air)	33.5	36.9	(S)	13.1
	Pipeline[3]	–	–	–	–
	Multiple modes	**10.8**	**20.3**	**21.5**	**8.8**
	Parcel, U.S. Postal Service or courier	12.9	13.4	13.0	8.9
	Truck and rail	24.7	22.6	18.3	9.1
	Truck and water	(S)	37.6	(S)	22.7
	Rail and water	47.6	36.3	36.8	34.0
	Other multiple modes	(S)	45.5	(S)	23.0
	Other and unknown modes	**16.4**	**28.6**	**38.5**	**41.7**
4247	**Petroleum and Petroleum Products**				
	Total	**4.2**	**4.3**	**8.6**	**12.4**
	Single modes	**4.2**	**4.2**	**7.6**	**6.6**
	Truck[2]	4.7	4.7	6.6	5.5
	For-hire truck	8.1	7.7	9.8	10.8
	Private truck	5.9	6.4	9.1	6.9
	Rail	40.7	37.3	42.1	16.1
	Water	34.6	33.6	47.1	39.6
	Shallow draft	36.7	35.5	49.5	(S)
	Great Lakes	(S)	(S)	(S)	(S)
	Deep draft	(S)	(S)	(S)	17.4
	Air (includes truck and air)	(S)	(S)	(S)	28.3
	Pipeline[3]	28.0	27.8	(S)	(S)
	Multiple modes	**31.0**	**33.7**	**46.5**	**21.0**
	Parcel, U.S. Postal Service or courier	(S)	(S)	(S)	21.7
	Truck and rail	(S)	(S)	(S)	38.1
	Truck and water	44.1	47.2	(S)	(S)
	Rail and water	(S)	(S)	(S)	21.4
	Other multiple modes	15.5	12.8	15.7	4.1
	Other and unknown modes	**14.9**	**17.7**	**20.2**	**(S)**

See footnotes at end of table.

Table B-11.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number	Average miles per shipment—coefficient of variation of number
4248	**Beer, Wine, and Distilled Alcoholic Beverages**				
	Total	**3.8**	**4.1**	**14.8**	**6.0**
	Single modes	**3.9**	**4.2**	**11.5**	**5.1**
	Truck[2]	3.9	4.2	11.0	5.2
	For-hire truck	14.0	13.9	22.7	31.6
	Private truck	4.5	4.4	4.8	3.8
	Rail	26.7	32.3	37.1	(S)
	Water	(S)	(S)	(S)	42.3
	Shallow draft	–	–	–	–
	Great Lakes	–	–	–	–
	Deep draft	(S)	(S)	(S)	42.3
	Air (includes truck and air)	(S)	(S)	49.5	30.4
	Pipeline[3]	–	–	–	–
	Multiple modes	**49.5**	**48.8**	**(S)**	**27.1**
	Parcel, U.S. Postal Service or courier	37.6	(S)	46.8	30.8
	Truck and rail	(S)	(S)	(S)	(S)
	Truck and water	33.0	(S)	(S)	25.4
	Rail and water	–	–	–	–
	Other multiple modes	–	–	–	–
	Other and unknown modes	**(S)**	**(S)**	**42.4**	**(S)**
4249	**Miscellaneous Nondurable Goods**				
	Total	**4.1**	**8.6**	**18.7**	**7.7**
	Single modes	**4.1**	**8.4**	**18.6**	**12.6**
	Truck[2]	3.9	7.7	14.8	13.1
	For-hire truck	9.5	16.8	20.7	9.5
	Private truck	4.9	7.1	10.6	6.1
	Rail	37.9	34.7	39.5	30.7
	Water	(S)	27.3	33.7	9.0
	Shallow draft	–	–	–	–
	Great Lakes	–	–	–	–
	Deep draft	(S)	27.3	33.7	9.0
	Air (includes truck and air)	29.3	(S)	37.9	8.7
	Pipeline[3]	16.2	13.7	(S)	(S)
	Multiple modes	**11.1**	**33.6**	**42.5**	**3.5**
	Parcel, U.S. Postal Service or courier	11.3	17.6	15.7	3.5
	Truck and rail	35.9	30.6	43.8	19.7
	Truck and water	47.2	(S)	(S)	11.3
	Rail and water	(S)	(S)	(S)	(S)
	Other multiple modes	–	–	–	–
	Other and unknown modes	**25.3**	**26.7**	**25.3**	**27.2**

See footnotes at end of table.

Table B-11.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number	Average miles per shipment—coefficient of variation of number
4541	**Electronic Shopping and Mail Order Houses**				
	Total	**6.8**	**7.2**	**8.1**	**2.4**
	Single modes	**14.2**	**11.4**	**22.6**	**10.6**
	Truck[2]	16.2	11.7	23.9	13.1
	For-hire truck	23.7	17.1	26.3	10.5
	Private truck	16.0	22.3	28.8	20.0
	Rail	40.7	(S)	(S)	(S)
	Water	–	–	–	–
	Shallow draft	–	–	–	–
	Great Lakes	–	–	–	–
	Deep draft	–	–	–	–
	Air (includes truck and air)	23.1	24.3	27.6	7.7
	Pipeline[3]	–	–	–	–
	Multiple modes	**7.3**	**8.4**	**8.6**	**2.3**
	Parcel, U.S. Postal Service or courier	7.3	8.4	8.6	2.3
	Truck and rail	(S)	(S)	(S)	(S)
	Truck and water	(S)	(S)	(S)	4.7
	Rail and water	–	–	–	–
	Other multiple modes	–	–	–	–
	Other and unknown modes	**(S)**	**28.6**	**29.4**	**15.6**
45431	**Fuel Dealers**				
	Total	**5.4**	**5.8**	**33.2**	**7.3**
	Single modes	**5.5**	**5.9**	**33.3**	**7.2**
	Truck[2]	5.5	5.9	33.3	7.4
	For-hire truck	(S)	(S)	(S)	(S)
	Private truck	5.0	5.3	11.9	7.6
	Rail	(S)	(S)	41.7	(S)
	Water	(S)	(S)	(S)	7.8
	Shallow draft	(S)	(S)	(S)	(S)
	Great Lakes	–	–	–	–
	Deep draft	(S)	(S)	(S)	(S)
	Air (includes truck and air)	(S)	(S)	(S)	(S)
	Pipeline[3]	–	–	–	–
	Multiple modes	**(S)**	**23.4**	**42.0**	**35.8**
	Parcel, U.S. Postal Service or courier	(S)	27.5	42.7	38.4
	Truck and rail	(S)	(S)	(S)	(S)
	Truck and water	–	–	–	–
	Rail and water	–	–	–	–
	Other multiple modes	–	–	–	–
	Other and unknown modes	**35.8**	**36.1**	**33.6**	**33.2**

See footnotes at end of table.

Table B-11.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number	Average miles per shipment—coefficient of variation of number
4931	**Warehousing and Storage**				
	Total	**6.5**	**5.9**	**6.0**	**4.4**
	Single modes	**7.2**	**5.9**	**6.2**	**8.1**
	Truck[2]	7.2	5.8	5.7	9.1
	For-hire truck	11.6	10.2	6.9	7.2
	Private truck	6.5	7.0	7.2	8.0
	Rail	36.3	39.1	37.1	24.1
	Water	(S)	(S)	(S)	(S)
	Shallow draft	(S)	(S)	(S)	0.1
	Great Lakes	–	–	–	–
	Deep draft	(S)	(S)	38.6	(S)
	Air (includes truck and air)	22.3	38.3	32.4	5.7
	Pipeline[3]	(S)	(S)	(S)	(S)
	Multiple modes	**12.7**	**15.7**	**15.3**	**3.3**
	Parcel, U.S. Postal Service or courier	13.5	10.2	11.8	3.3
	Truck and rail	22.5	34.3	29.5	38.9
	Truck and water	31.6	(S)	22.8	36.3
	Rail and water	26.1	20.7	18.4	10.1
	Other multiple modes	42.6	22.3	43.6	29.5
	Other and unknown modes	**45.1**	**45.3**	**(S)**	**14.5**
5111	**Newspaper, Periodical, Book, and Directory Publishers**				
	Total	**6.2**	**7.8**	**14.4**	**25.8**
	Single modes	**7.8**	**8.6**	**18.1**	**44.3**
	Truck[2]	8.0	8.6	18.5	43.9
	For-hire truck	11.4	16.0	20.8	(S)
	Private truck	8.7	8.9	12.5	24.4
	Rail	(S)	(S)	(S)	40.8
	Water	(S)	(S)	(S)	(S)
	Shallow draft	–	–	–	–
	Great Lakes	–	–	–	–
	Deep draft	(S)	(S)	(S)	(S)
	Air (includes truck and air)	(S)	(S)	43.2	12.9
	Pipeline[3]	–	–	–	–
	Multiple modes	**12.8**	**14.2**	**12.9**	**22.2**
	Parcel, U.S. Postal Service or courier	13.6	14.9	14.0	22.2
	Truck and rail	31.3	38.1	30.5	29.8
	Truck and water	(S)	(S)	(S)	24.6
	Rail and water	–	–	–	–
	Other multiple modes	–	–	–	–
	Other and unknown modes	**29.7**	**34.7**	**31.1**	**22.2**

See footnotes at end of table.

Table B-11.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Mode of Transportation for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number	Average miles per shipment—coefficient of variation of number
551114	**Corporate, Subsidiary, and Regional Managing Offices**				
	Total	**7.6**	**8.3**	**11.9**	**4.8**
	Single modes	**9.0**	**7.3**	**14.0**	**8.2**
	Truck[2]	8.3	8.7	13.5	8.6
	For-hire truck	10.8	13.3	15.1	5.8
	Private truck	10.4	9.7	7.1	11.9
	Rail	44.6	30.6	29.9	9.0
	Water	35.8	48.6	(S)	31.6
	Shallow draft	33.9	46.6	(S)	46.8
	Great Lakes	–	–	–	–
	Deep draft	(S)	(S)	38.8	31.7
	Air (includes truck and air)	28.4	(S)	29.7	11.9
	Pipeline[3]	23.7	23.7	(S)	(S)
	Multiple modes	**13.1**	**31.4**	**23.2**	**3.1**
	Parcel, U.S. Postal Service or courier	16.1	12.2	13.1	3.0
	Truck and rail	24.9	31.3	22.8	11.8
	Truck and water	38.8	45.1	45.0	(S)
	Rail and water	(S)	(S)	(S)	(S)
	Other multiple modes	31.2	29.1	33.9	(S)
	Other and unknown modes	**28.1**	**43.6**	**35.7**	**(S)**

– Estimate equal to zero.

(S) Estimate did not meet publication standards.

[1] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See "Mileage Calculations" section for additional information.

[2] "Truck" as a single mode includes shipments that were made by private truck, only for-hire truck, or a combination of private truck and for-hire truck.

[3] Estimates for pipeline exclude shipments of crude petroleum (SCTG 16).

Note: The Introduction and appendixes give information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions. Links to the information on the Internet may be found at <www.census.gov/cfs>.

Table B-12.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Distance Shipped for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number
212	**Mining (Except Oil and Gas)**			
	Total	**4.8**	**4.0**	**9.1**
	Less than 50 miles	4.7	4.0	4.4
	50 to 99 miles	12.8	8.8	9.5
	100 to 249 miles	20.9	9.4	12.3
	250 to 499 miles	18.8	12.9	12.4
	500 to 749 miles	11.9	10.4	9.3
	750 to 999 miles	17.0	19.9	19.4
	1,000 to 1,499 miles	14.6	17.7	17.1
	1,500 to 1,999 miles	17.5	31.1	29.9
	2,000 miles or more	29.0	22.1	17.5
311	**Food Manufacturing**			
	Total	**1.9**	**3.6**	**3.6**
	Less than 50 miles	3.4	5.8	11.3
	50 to 99 miles	3.5	4.9	5.3
	100 to 249 miles	2.3	4.4	4.0
	250 to 499 miles	3.0	3.0	3.0
	500 to 749 miles	2.3	6.5	8.4
	750 to 999 miles	3.5	4.9	5.2
	1,000 to 1,499 miles	3.2	4.2	4.4
	1,500 to 1,999 miles	3.7	5.4	5.8
	2,000 miles or more	5.5	10.8	10.9
312	**Beverage and Tobacco Product Manufacturing**			
	Total	**4.9**	**4.8**	**6.4**
	Less than 50 miles	10.5	7.6	7.0
	50 to 99 miles	6.3	9.1	9.8
	100 to 249 miles	5.8	6.5	6.9
	250 to 499 miles	7.4	7.9	7.5
	500 to 749 miles	10.1	10.4	10.7
	750 to 999 miles	11.8	14.7	15.6
	1,000 to 1,499 miles	12.0	26.4	24.5
	1,500 to 1,999 miles	16.4	21.6	21.8
	2,000 miles or more	13.7	16.4	16.4
313	**Textile Mills**			
	Total	**5.4**	**4.7**	**6.7**
	Less than 50 miles	16.7	11.3	14.2
	50 to 99 miles	17.3	17.7	21.6
	100 to 249 miles	7.9	7.8	7.6
	250 to 499 miles	8.7	12.5	11.5
	500 to 749 miles	7.1	10.1	10.3
	750 to 999 miles	9.4	11.5	13.1
	1,000 to 1,499 miles	11.1	9.7	10.0
	1,500 to 1,999 miles	12.7	14.7	15.6
	2,000 miles or more	12.4	30.1	29.5

See footnotes at end of table.

Table B-12.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Distance Shipped for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number
314	**Textile Product Mills**			
	Total	**5.3**	**9.6**	**9.9**
	Less than 50 miles	10.5	17.1	19.2
	50 to 99 miles	15.0	19.0	17.8
	100 to 249 miles	13.1	8.5	10.0
	250 to 499 miles	7.3	9.2	9.6
	500 to 749 miles	6.0	8.5	8.5
	750 to 999 miles	11.2	12.8	12.6
	1,000 to 1,499 miles	12.3	22.2	21.7
	1,500 to 1,999 miles	14.6	15.0	15.0
	2,000 miles or more	12.0	20.1	20.1
315	**Apparel Manufacturing**			
	Total	**10.6**	**20.6**	**31.1**
	Less than 50 miles	27.1	24.2	31.4
	50 to 99 miles	44.1	21.5	21.2
	100 to 249 miles	18.7	26.9	26.0
	250 to 499 miles	10.5	36.0	33.5
	500 to 749 miles	14.0	20.0	20.7
	750 to 999 miles	32.5	31.5	31.3
	1,000 to 1,499 miles	16.2	40.2	43.6
	1,500 to 1,999 miles	23.3	27.5	26.8
	2,000 miles or more	13.1	(S)	(S)
316	**Leather and Allied Product Manufacturing**			
	Total	**10.0**	**21.7**	**23.8**
	Less than 50 miles	22.9	35.1	23.1
	50 to 99 miles	32.4	22.5	22.7
	100 to 249 miles	17.2	44.3	48.5
	250 to 499 miles	11.0	19.9	18.5
	500 to 749 miles	21.4	37.9	38.4
	750 to 999 miles	17.5	18.0	17.4
	1,000 to 1,499 miles	17.3	28.3	26.5
	1,500 to 1,999 miles	22.7	18.0	18.0
	2,000 miles or more	25.5	(S)	(S)
321	**Wood Product Manufacturing**			
	Total	**4.8**	**4.6**	**5.4**
	Less than 50 miles	3.8	7.5	9.0
	50 to 99 miles	4.9	8.5	8.5
	100 to 249 miles	4.1	4.6	4.6
	250 to 499 miles	5.8	5.1	5.3
	500 to 749 miles	5.5	6.4	6.6
	750 to 999 miles	16.2	8.4	8.5
	1,000 to 1,499 miles	12.3	6.6	6.4
	1,500 to 1,999 miles	10.8	13.3	13.8
	2,000 miles or more	10.1	11.9	12.4

See footnotes at end of table.

Table B-12.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Distance Shipped for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number
322	**Paper Manufacturing**			
	Total	**1.9**	**2.3**	**3.2**
	Less than 50 miles	3.9	4.5	4.2
	50 to 99 miles	5.7	5.9	5.9
	100 to 249 miles	2.8	3.4	3.5
	250 to 499 miles	3.0	3.5	3.6
	500 to 749 miles	3.2	4.5	4.9
	750 to 999 miles	4.5	4.3	4.4
	1,000 to 1,499 miles	3.7	4.5	4.6
	1,500 to 1,999 miles	6.8	8.8	9.1
	2,000 miles or more	5.8	7.5	7.7
323	**Printing and Related Support Activities**			
	Total	**2.9**	**6.0**	**5.6**
	Less than 50 miles	4.4	11.5	8.6
	50 to 99 miles	4.6	15.2	20.2
	100 to 249 miles	5.0	10.7	10.9
	250 to 499 miles	4.3	10.0	10.6
	500 to 749 miles	4.7	7.2	7.4
	750 to 999 miles	6.4	7.8	7.7
	1,000 to 1,499 miles	6.9	19.7	18.9
	1,500 to 1,999 miles	13.9	12.4	12.4
	2,000 miles or more	32.5	14.6	14.1
324	**Petroleum and Coal Products Manufacturing**			
	Total	**4.3**	**5.4**	**7.5**
	Less than 50 miles	7.0	7.0	8.2
	50 to 99 miles	10.0	10.8	12.3
	100 to 249 miles	8.6	11.4	11.9
	250 to 499 miles	12.5	24.5	23.2
	500 to 749 miles	15.9	17.5	17.9
	750 to 999 miles	21.7	23.4	25.1
	1,000 to 1,499 miles	22.2	21.8	20.4
	1,500 to 1,999 miles	30.3	30.0	45.2
	2,000 miles or more	20.3	40.4	(S)
325	**Chemical Manufacturing**			
	Total	**2.7**	**5.2**	**5.5**
	Less than 50 miles	10.9	10.1	9.7
	50 to 99 miles	9.0	9.7	11.7
	100 to 249 miles	5.1	6.8	6.6
	250 to 499 miles	5.4	4.6	4.5
	500 to 749 miles	4.6	4.6	4.8
	750 to 999 miles	7.5	7.6	8.2
	1,000 to 1,499 miles	9.2	12.6	14.3
	1,500 to 1,999 miles	15.4	11.4	11.6
	2,000 miles or more	7.2	11.8	12.1

See footnotes at end of table.

Table B-12.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Distance Shipped for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number
326	**Plastics and Rubber Products Manufacturing**			
	Total	**1.6**	**2.7**	**3.8**
	Less than 50 miles	5.2	6.9	7.9
	50 to 99 miles	5.2	6.8	6.6
	100 to 249 miles	2.8	4.4	5.1
	250 to 499 miles	2.4	4.2	4.3
	500 to 749 miles	2.9	7.3	7.2
	750 to 999 miles	3.9	5.0	4.9
	1,000 to 1,499 miles	3.5	4.7	4.6
	1,500 to 1,999 miles	6.2	6.9	7.0
	2,000 miles or more	8.6	8.6	8.6
327	**Nonmetallic Mineral Product Manufacturing**			
	Total	**5.1**	**4.1**	**4.0**
	Less than 50 miles	3.5	5.1	4.3
	50 to 99 miles	5.7	5.2	4.9
	100 to 249 miles	10.9	11.1	12.3
	250 to 499 miles	9.4	5.4	5.4
	500 to 749 miles	6.6	10.4	10.7
	750 to 999 miles	13.7	7.7	8.4
	1,000 to 1,499 miles	7.1	11.3	11.4
	1,500 to 1,999 miles	9.5	7.5	7.5
	2,000 miles or more	32.6	16.4	16.6
331	**Primary Metal Manufacturing**			
	Total	**2.3**	**4.1**	**5.7**
	Less than 50 miles	6.0	6.4	5.4
	50 to 99 miles	8.9	15.6	13.9
	100 to 249 miles	4.3	6.7	6.8
	250 to 499 miles	5.2	6.9	7.5
	500 to 749 miles	5.1	9.2	9.5
	750 to 999 miles	8.6	14.4	17.7
	1,000 to 1,499 miles	7.2	10.8	11.3
	1,500 to 1,999 miles	8.8	16.9	17.8
	2,000 miles or more	11.2	24.8	25.3
332	**Fabricated Metal Product Manufacturing**			
	Total	**1.8**	**4.4**	**4.7**
	Less than 50 miles	3.6	9.3	7.7
	50 to 99 miles	6.6	10.1	9.8
	100 to 249 miles	2.9	6.1	5.7
	250 to 499 miles	2.5	6.4	7.6
	500 to 749 miles	3.6	5.3	5.0
	750 to 999 miles	3.8	7.4	7.6
	1,000 to 1,499 miles	3.7	12.6	13.2
	1,500 to 1,999 miles	4.4	11.7	12.9
	2,000 miles or more	5.5	10.2	10.6

See footnotes at end of table.

Table B-12.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Distance Shipped for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number
333	**Machinery Manufacturing**			
	Total	**2.9**	**5.1**	**6.7**
	Less than 50 miles	5.2	9.1	10.0
	50 to 99 miles	6.0	11.8	11.4
	100 to 249 miles	5.0	7.1	7.5
	250 to 499 miles	5.8	6.1	6.3
	500 to 749 miles	4.6	6.8	6.8
	750 to 999 miles	5.4	9.6	9.4
	1,000 to 1,499 miles	4.0	11.4	11.1
	1,500 to 1,999 miles	6.1	7.3	8.2
	2,000 miles or more	12.6	29.9	30.6
334	**Computer and Electronic Product Manufacturing**			
	Total	**5.6**	**8.8**	**7.7**
	Less than 50 miles	7.7	16.7	14.6
	50 to 99 miles	13.8	29.9	23.7
	100 to 249 miles	9.1	10.2	10.4
	250 to 499 miles	8.4	17.1	14.3
	500 to 749 miles	15.4	13.6	13.2
	750 to 999 miles	8.4	15.1	15.2
	1,000 to 1,499 miles	19.8	19.0	18.4
	1,500 to 1,999 miles	7.1	9.9	9.9
	2,000 miles or more	9.3	7.7	7.3
335	**Electrical Equipment, Appliance, and Component Manufacturing**			
	Total	**4.1**	**4.9**	**6.3**
	Less than 50 miles	9.2	14.1	8.5
	50 to 99 miles	13.8	13.3	14.2
	100 to 249 miles	5.7	10.6	9.4
	250 to 499 miles	6.3	7.1	6.9
	500 to 749 miles	3.9	4.2	4.4
	750 to 999 miles	4.7	4.3	4.4
	1,000 to 1,499 miles	7.9	12.3	12.7
	1,500 to 1,999 miles	8.4	9.7	9.4
	2,000 miles or more	8.8	22.3	21.6
336	**Transportation Equipment Manufacturing**			
	Total	**4.1**	**4.4**	**3.3**
	Less than 50 miles	13.3	12.4	11.5
	50 to 99 miles	7.0	9.4	8.0
	100 to 249 miles	6.2	7.4	7.4
	250 to 499 miles	4.7	5.3	5.1
	500 to 749 miles	6.3	5.6	5.8
	750 to 999 miles	7.8	7.8	7.9
	1,000 to 1,499 miles	10.0	7.9	7.9
	1,500 to 1,999 miles	19.0	7.5	8.0
	2,000 miles or more	7.9	10.9	11.4

See footnotes at end of table.

Table B-12.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Distance Shipped for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number
337	**Furniture Manufacturing**			
	Total	**3.1**	**6.6**	**5.8**
	Less than 50 miles	5.5	8.5	8.3
	50 to 99 miles	9.2	14.3	13.6
	100 to 249 miles	6.5	10.4	11.3
	250 to 499 miles	5.6	11.9	11.2
	500 to 749 miles	5.2	6.2	6.1
	750 to 999 miles	6.3	12.4	12.9
	1,000 to 1,499 miles	4.6	18.4	17.5
	1,500 to 1,999 miles	10.0	7.8	8.1
	2,000 miles or more	14.1	9.8	9.5
339	**Miscellaneous Manufacturing**			
	Total	**2.9**	**11.7**	**15.9**
	Less than 50 miles	5.9	17.6	10.7
	50 to 99 miles	10.6	17.8	16.8
	100 to 249 miles	5.8	9.8	11.0
	250 to 499 miles	4.6	8.0	7.6
	500 to 749 miles	5.4	21.6	22.8
	750 to 999 miles	7.4	40.4	42.0
	1,000 to 1,499 miles	8.0	31.1	32.5
	1,500 to 1,999 miles	8.9	9.6	9.7
	2,000 miles or more	7.6	15.4	15.9
4231	**Motor Vehicle and Motor Vehicle Parts and Supplies**			
	Total	**7.3**	**17.4**	**11.1**
	Less than 50 miles	8.2	34.0	32.9
	50 to 99 miles	5.9	8.0	8.4
	100 to 249 miles	12.3	10.8	11.3
	250 to 499 miles	11.5	11.6	10.9
	500 to 749 miles	31.6	20.4	21.2
	750 to 999 miles	13.4	14.6	14.5
	1,000 to 1,499 miles	8.9	17.8	18.1
	1,500 to 1,999 miles	21.8	28.7	28.5
	2,000 miles or more	47.3	26.0	25.6
4232	**Furniture and Home Furnishings**			
	Total	**5.6**	**8.0**	**20.7**
	Less than 50 miles	7.1	8.6	12.1
	50 to 99 miles	10.6	12.2	11.9
	100 to 249 miles	10.0	11.4	11.5
	250 to 499 miles	12.8	19.7	18.3
	500 to 749 miles	11.0	16.1	16.1
	750 to 999 miles	13.0	15.0	15.1
	1,000 to 1,499 miles	16.8	35.3	39.3
	1,500 to 1,999 miles	15.9	47.5	46.9
	2,000 miles or more	19.8	41.4	40.4

See footnotes at end of table.

Table B-12.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Distance Shipped for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number
4233	**Lumber and Other Construction Materials**			
	Total	**3.4**	**7.4**	**13.8**
	Less than 50 miles	3.1	8.8	6.3
	50 to 99 miles	4.4	7.4	6.8
	100 to 249 miles	4.7	12.0	12.0
	250 to 499 miles	4.6	8.6	8.8
	500 to 749 miles	17.1	40.7	44.0
	750 to 999 miles	26.2	26.3	26.8
	1,000 to 1,499 miles	18.3	45.3	42.8
	1,500 to 1,999 miles	20.0	27.3	27.4
	2,000 miles or more	24.0	36.1	34.4
4234	**Professional and Commercial Equipment And Supplies**			
	Total	**3.5**	**9.2**	**14.3**
	Less than 50 miles	5.6	11.8	14.0
	50 to 99 miles	6.7	20.9	21.6
	100 to 249 miles	6.8	15.1	14.3
	250 to 499 miles	9.6	12.7	11.9
	500 to 749 miles	6.6	13.5	13.0
	750 to 999 miles	10.2	12.1	13.0
	1,000 to 1,499 miles	7.2	12.7	12.6
	1,500 to 1,999 miles	12.0	28.0	28.9
	2,000 miles or more	15.6	24.8	25.7
4235	**Metal and Mineral (Except Petroleum)**			
	Total	**3.5**	**10.7**	**13.8**
	Less than 50 miles	5.1	9.3	11.9
	50 to 99 miles	3.9	18.4	19.1
	100 to 249 miles	6.0	16.8	17.5
	250 to 499 miles	7.2	9.0	11.4
	500 to 749 miles	11.5	7.1	7.6
	750 to 999 miles	10.0	34.8	42.4
	1,000 to 1,499 miles	15.0	24.2	27.4
	1,500 to 1,999 miles	15.7	13.6	13.4
	2,000 miles or more	25.5	41.6	44.1
4236	**Electrical and Electronic Goods**			
	Total	**3.9**	**8.4**	**14.1**
	Less than 50 miles	6.1	12.1	11.5
	50 to 99 miles	9.1	19.8	21.8
	100 to 249 miles	18.0	21.1	22.7
	250 to 499 miles	8.8	10.8	12.4
	500 to 749 miles	8.7	17.3	18.1
	750 to 999 miles	11.0	26.0	26.5
	1,000 to 1,499 miles	12.0	23.6	22.7
	1,500 to 1,999 miles	15.1	23.5	25.5
	2,000 miles or more	12.5	18.2	18.8

See footnotes at end of table.

Table B-12.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Distance Shipped for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number
4237	**Hardware and Plumbing and Heating Equipment and Supplies**			
	Total	**2.4**	**11.1**	**12.9**
	Less than 50 miles	3.9	15.7	21.3
	50 to 99 miles	6.4	23.6	26.3
	100 to 249 miles	4.5	8.8	8.1
	250 to 499 miles	5.5	35.9	35.8
	500 to 749 miles	10.9	11.8	11.7
	750 to 999 miles	8.7	26.2	24.2
	1,000 to 1,499 miles	12.5	11.3	11.1
	1,500 to 1,999 miles	10.1	14.7	15.3
	2,000 miles or more	17.7	19.9	19.7
4238	**Machinery, Equipment, and Supplies**			
	Total	**2.5**	**13.1**	**7.0**
	Less than 50 miles	3.2	18.8	23.1
	50 to 99 miles	4.0	12.3	12.8
	100 to 249 miles	6.5	14.0	14.1
	250 to 499 miles	6.2	13.8	13.9
	500 to 749 miles	6.0	11.4	11.4
	750 to 999 miles	8.0	12.2	12.8
	1,000 to 1,499 miles	8.9	14.2	14.5
	1,500 to 1,999 miles	11.6	32.2	31.8
	2,000 miles or more	12.4	24.5	25.5
4239	**Miscellaneous Durable Goods**			
	Total	**3.6**	**14.6**	**11.0**
	Less than 50 miles	6.4	22.8	20.8
	50 to 99 miles	10.8	25.9	25.6
	100 to 249 miles	5.5	8.3	8.2
	250 to 499 miles	6.1	10.2	10.3
	500 to 749 miles	7.9	17.7	19.4
	750 to 999 miles	8.4	20.7	20.6
	1,000 to 1,499 miles	9.5	24.1	20.5
	1,500 to 1,999 miles	7.4	17.0	16.5
	2,000 miles or more	8.4	28.0	34.7
4241	**Paper and Paper Products**			
	Total	**4.5**	**11.5**	**23.7**
	Less than 50 miles	4.1	5.6	7.8
	50 to 99 miles	6.7	10.5	12.3
	100 to 249 miles	9.3	17.0	19.3
	250 to 499 miles	10.5	32.7	38.4
	500 to 749 miles	18.3	38.4	36.2
	750 to 999 miles	16.1	38.0	38.3
	1,000 to 1,499 miles	26.2	25.1	24.5
	1,500 to 1,999 miles	28.6	23.2	23.8
	2,000 miles or more	15.1	23.1	23.0

See footnotes at end of table.

Table B-12.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Distance Shipped for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number
4242	**Drugs and Druggists' Sundries**			
	Total	**6.3**	**17.2**	**11.8**
	Less than 50 miles	8.6	32.8	37.1
	50 to 99 miles	12.0	34.6	32.2
	100 to 249 miles	8.9	18.7	18.9
	250 to 499 miles	11.6	12.5	13.7
	500 to 749 miles	13.4	28.8	31.3
	750 to 999 miles	18.7	22.3	22.6
	1,000 to 1,499 miles	15.0	26.7	26.9
	1,500 to 1,999 miles	26.9	25.8	25.5
	2,000 miles or more	17.7	23.7	24.1
4243	**Apparel, Piece Goods, and Notions**			
	Total	**6.6**	**12.9**	**20.6**
	Less than 50 miles	12.5	33.9	39.7
	50 to 99 miles	22.9	17.9	20.0
	100 to 249 miles	10.2	13.0	14.2
	250 to 499 miles	12.1	11.1	10.7
	500 to 749 miles	13.3	15.1	14.4
	750 to 999 miles	9.1	11.4	11.0
	1,000 to 1,499 miles	13.4	14.9	14.4
	1,500 to 1,999 miles	9.7	(S)	(S)
	2,000 miles or more	11.6	24.2	23.7
4244	**Grocery and Related Product Wholesalers**			
	Total	**1.5**	**2.8**	**7.4**
	Less than 50 miles	2.0	3.8	3.8
	50 to 99 miles	3.6	5.5	5.2
	100 to 249 miles	3.9	3.8	3.7
	250 to 499 miles	6.2	8.4	8.7
	500 to 749 miles	6.2	8.2	8.3
	750 to 999 miles	10.4	15.2	14.5
	1,000 to 1,499 miles	11.0	12.4	13.3
	1,500 to 1,999 miles	8.5	15.5	15.1
	2,000 miles or more	11.7	18.9	30.1
4245	**Farm Product Raw Materials**			
	Total	**5.6**	**5.2**	**10.2**
	Less than 50 miles	7.2	8.1	10.2
	50 to 99 miles	16.6	17.1	15.1
	100 to 249 miles	13.3	15.3	18.4
	250 to 499 miles	9.9	10.0	9.9
	500 to 749 miles	14.2	14.3	14.2
	750 to 999 miles	20.7	25.4	25.5
	1,000 to 1,499 miles	23.0	14.4	14.5
	1,500 to 1,999 miles	29.7	42.2	42.4
	2,000 miles or more	(S)	48.0	(S)

See footnotes at end of table.

Table B-12.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Distance Shipped for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number
4246	**Chemical and Allied Products**			
	Total	**5.3**	**16.1**	**17.5**
	Less than 50 miles	8.1	15.5	21.5
	50 to 99 miles	9.5	15.7	16.4
	100 to 249 miles	7.7	31.4	33.8
	250 to 499 miles	9.3	28.7	29.4
	500 to 749 miles	9.1	17.0	17.6
	750 to 999 miles	9.5	39.4	40.0
	1,000 to 1,499 miles	16.7	18.2	18.4
	1,500 to 1,999 miles	13.7	23.5	27.4
	2,000 miles or more	16.1	17.9	18.1
4247	**Petroleum and Petroleum Products**			
	Total	**4.2**	**4.3**	**8.6**
	Less than 50 miles	4.3	4.5	5.9
	50 to 99 miles	6.1	6.0	6.0
	100 to 249 miles	8.2	7.9	9.6
	250 to 499 miles	18.4	16.9	17.6
	500 to 749 miles	15.7	17.9	18.8
	750 to 999 miles	25.4	33.5	34.2
	1,000 to 1,499 miles	26.7	28.8	29.4
	1,500 to 1,999 miles	34.3	35.1	37.2
	2,000 miles or more	39.4	(S)	(S)
4248	**Beer, Wine, and Distilled Alcoholic Beverages**			
	Total	**3.8**	**4.1**	**14.8**
	Less than 50 miles	4.3	4.2	3.9
	50 to 99 miles	7.6	6.9	6.7
	100 to 249 miles	10.6	10.3	11.9
	250 to 499 miles	16.2	18.0	18.1
	500 to 749 miles	18.6	26.0	32.5
	750 to 999 miles	24.1	30.0	30.7
	1,000 to 1,499 miles	35.7	30.9	32.7
	1,500 to 1,999 miles	29.7	28.3	28.9
	2,000 miles or more	32.9	47.1	47.7
4249	**Miscellaneous Nondurable Goods**			
	Total	**4.1**	**8.6**	**18.7**
	Less than 50 miles	4.4	10.3	12.1
	50 to 99 miles	4.3	10.8	10.7
	100 to 249 miles	7.1	9.6	9.4
	250 to 499 miles	10.0	22.3	23.5
	500 to 749 miles	12.1	30.0	30.4
	750 to 999 miles	14.2	33.3	35.9
	1,000 to 1,499 miles	13.9	43.7	44.1
	1,500 to 1,999 miles	11.3	24.0	22.3
	2,000 miles or more	14.4	33.2	32.8

See footnotes at end of table.

Table B-12.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Distance Shipped for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number
4541	**Electronic Shopping and Mail-Order Houses**			
	Total	**6.8**	**7.2**	**8.1**
	Less than 50 miles	21.4	16.8	23.3
	50 to 99 miles	11.0	22.7	21.2
	100 to 249 miles	12.7	13.9	14.3
	250 to 499 miles	8.7	9.9	11.8
	500 to 749 miles	5.0	11.8	12.0
	750 to 999 miles	10.6	14.9	14.5
	1,000 to 1,499 miles	10.4	14.8	14.7
	1,500 to 1,999 miles	13.1	12.4	12.8
	2,000 miles or more	7.3	10.4	10.9
45431	**Fuel Dealers**			
	Total	**5.4**	**5.8**	**33.2**
	Less than 50 miles	4.8	5.0	5.0
	50 to 99 miles	15.9	16.0	16.1
	100 to 249 miles	41.6	41.7	44.6
	250 to 499 miles	(S)	(S)	(S)
	500 to 749 miles	(S)	(S)	(S)
	750 to 999 miles	(S)	(S)	(S)
	1,000 to 1,499 miles	(S)	(S)	(S)
	1,500 to 1,999 miles	–	–	–
	2,000 miles or more	(S)	(S)	(S)
4931	**Warehousing and Storage**			
	Total	**6.5**	**5.9**	**6.0**
	Less than 50 miles	5.6	9.3	8.2
	50 to 99 miles	6.9	8.9	9.7
	100 to 249 miles	4.8	8.1	7.9
	250 to 499 miles	12.0	9.4	9.3
	500 to 749 miles	14.4	16.7	20.5
	750 to 999 miles	23.5	15.7	15.0
	1,000 to 1,499 miles	19.5	12.4	11.9
	1,500 to 1,999 miles	21.3	11.4	11.2
	2,000 miles or more	9.5	12.1	11.9
5111	**Newspaper, Periodical, Book, and Directory Publishers**			
	Total	**6.2**	**7.8**	**14.4**
	Less than 50 miles	7.0	8.3	9.3
	50 to 99 miles	12.9	22.6	24.1
	100 to 249 miles	17.3	32.6	36.4
	250 to 499 miles	23.1	39.0	38.2
	500 to 749 miles	12.7	23.1	21.8
	750 to 999 miles	23.4	28.5	28.8
	1,000 to 1,499 miles	25.9	31.5	29.7
	1,500 to 1,999 miles	15.9	28.1	28.9
	2,000 miles or more	24.9	24.5	23.6

See footnotes at end of table.

Table B-12.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Distance Shipped for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number
551114	**Corporate, Subsidiary, and Regional Managing Offices**			
	Total	**7.6**	**8.3**	**11.9**
	Less than 50 miles	8.4	12.0	12.5
	50 to 99 miles	9.0	21.3	22.2
	100 to 249 miles	6.5	19.0	23.3
	250 to 499 miles	11.3	16.6	16.1
	500 to 749 miles	8.9	12.9	13.7
	750 to 999 miles	10.9	25.6	25.0
	1,000 to 1,499 miles	24.1	29.9	31.5
	1,500 to 1,999 miles	23.1	20.7	19.9
	2,000 miles or more	28.6	27.3	28.2

– Estimate equal to zero.

(S) Estimate did not meet publication standards.

[1] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See “Mileage Calculations” section for additional information.

Note: The Introduction and appendixes give information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions. Links to the information on the Internet may be found at <www.census.gov/cfs>.

Table B-13.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Shipment Weight for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number	Average miles per shipment—coefficient of variation of number
212	**Mining (Except Oil and Gas)**				
	Total	**4.8**	**4.0**	**9.1**	**4.4**
	Less than 50 lb	39.3	31.8	47.3	43.1
	50 to 99 lb	(S)	36.5	(S)	33.2
	100 to 499 lb	28.7	33.3	31.1	43.2
	500 to 749 lb	(S)	37.4	30.9	(S)
	750 to 999 lb	(S)	49.7	(S)	27.4
	1,000 to 9,999 lb	(S)	6.5	16.4	14.6
	10,000 to 49,999 lb	6.4	3.8	5.0	5.1
	50,000 to 99,999 lb	6.4	3.7	5.8	4.8
	100,000 lb or more	5.1	6.7	9.8	8.7
311	**Food Manufacturing**				
	Total	**1.9**	**3.6**	**3.6**	**10.0**
	Less than 50 lb	10.2	11.6	20.9	15.6
	50 to 99 lb	7.3	9.7	9.1	10.2
	100 to 499 lb	5.5	6.4	9.4	7.9
	500 to 749 lb	5.2	9.1	7.1	7.5
	750 to 999 lb	7.6	10.6	6.1	6.3
	1,000 to 9,999 lb	2.3	4.0	2.7	5.5
	10,000 to 49,999 lb	2.1	2.9	2.5	1.2
	50,000 to 99,999 lb	5.4	7.1	8.3	6.4
	100,000 lb or more	5.3	7.8	7.7	2.7
312	**Beverage and Tobacco Product Manufacturing**				
	Total	**4.9**	**4.8**	**6.4**	**18.2**
	Less than 50 lb	32.4	20.4	39.5	17.8
	50 to 99 lb	19.4	27.4	21.4	46.3
	100 to 499 lb	15.2	15.6	14.1	27.9
	500 to 749 lb	14.1	15.0	16.4	(S)
	750 to 999 lb	28.1	18.0	18.4	47.0
	1,000 to 9,999 lb	9.0	12.1	15.0	34.6
	10,000 to 49,999 lb	5.6	5.5	7.0	4.8
	50,000 to 99,999 lb	12.1	11.5	18.5	14.1
	100,000 lb or more	24.7	24.2	30.8	18.6
313	**Textile Mills**				
	Total	**5.4**	**4.7**	**6.7**	**6.4**
	Less than 50 lb	15.3	13.3	21.1	8.2
	50 to 99 lb	12.7	10.9	12.0	7.5
	100 to 499 lb	10.0	10.4	12.3	5.0
	500 to 749 lb	8.6	8.3	10.0	5.8
	750 to 999 lb	7.5	9.1	10.4	7.9
	1,000 to 9,999 lb	6.6	6.7	7.8	4.0
	10,000 to 49,999 lb	8.3	4.6	9.2	7.3
	50,000 to 99,999 lb	26.3	23.7	41.3	41.4
	100,000 lb or more	42.2	31.5	39.5	(S)
314	**Textile Product Mills**				
	Total	**5.3**	**9.6**	**9.9**	**5.2**
	Less than 50 lb	9.2	18.8	19.9	5.3
	50 to 99 lb	9.8	12.6	14.1	5.5
	100 to 499 lb	6.7	10.7	11.6	6.3
	500 to 749 lb	17.1	32.5	10.8	(S)
	750 to 999 lb	17.2	27.8	11.3	35.7
	1,000 to 9,999 lb	6.3	8.2	9.4	11.6
	10,000 to 49,999 lb	10.3	11.3	13.1	7.7
	50,000 to 99,999 lb	39.5	43.5	44.5	40.5
	100,000 lb or more	(S)	(S)	27.1	(S)

See footnotes at end of table.

Table B-13.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Shipment Weight for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number	Average miles per shipment—coefficient of variation of number
315	**Apparel Manufacturing**				
	Total	**10.6**	**20.6**	**31.1**	**4.8**
	Less than 50 lb	14.1	16.6	23.7	5.3
	50 to 99 lb	23.4	48.4	(S)	9.4
	100 to 499 lb	18.2	22.5	24.9	7.1
	500 to 749 lb	25.3	20.6	19.9	14.3
	750 to 999 lb	17.8	30.4	30.2	15.5
	1,000 to 9,999 lb	18.7	21.8	29.5	9.9
	10,000 to 49,999 lb	17.5	17.0	26.8	14.7
	50,000 to 99,999 lb	37.0	(S)	(S)	39.5
	100,000 lb or more	(S)	(S)	(S)	(S)
316	**Leather and Allied Product Manufacturing**				
	Total	**10.0**	**21.7**	**23.8**	**4.4**
	Less than 50 lb	29.8	29.3	29.7	3.9
	50 to 99 lb	27.6	21.5	23.4	5.8
	100 to 499 lb	15.6	18.4	32.3	7.7
	500 to 749 lb	31.3	41.1	47.4	14.6
	750 to 999 lb	27.4	(S)	(S)	13.8
	1,000 to 9,999 lb	15.9	48.4	(S)	9.7
	10,000 to 49,999 lb	18.7	22.7	24.3	10.2
	50,000 to 99,999 lb	44.1	38.4	48.7	22.5
	100,000 lb or more	(S)	(S)	(S)	18.0
321	**Wood Product Manufacturing**				
	Total	**4.8**	**4.6**	**5.4**	**6.8**
	Less than 50 lb	16.9	13.8	19.1	8.3
	50 to 99 lb	22.8	15.1	20.4	11.7
	100 to 499 lb	7.7	8.0	11.2	9.6
	500 to 749 lb	7.8	5.4	9.6	9.3
	750 to 999 lb	13.4	8.6	28.1	18.8
	1,000 to 9,999 lb	4.2	5.6	8.9	10.3
	10,000 to 49,999 lb	7.0	4.0	5.9	4.1
	50,000 to 99,999 lb	6.6	11.9	6.6	6.6
	100,000 lb or more	7.2	9.1	10.7	4.1
322	**Paper Manufacturing**				
	Total	**1.9**	**2.3**	**3.2**	**3.7**
	Less than 50 lb	20.0	13.4	14.7	3.6
	50 to 99 lb	15.4	10.9	12.0	6.6
	100 to 499 lb	7.1	6.4	6.9	5.3
	500 to 749 lb	6.8	6.4	10.1	5.5
	750 to 999 lb	8.6	7.5	9.8	7.8
	1,000 to 9,999 lb	3.9	4.5	6.5	4.4
	10,000 to 49,999 lb	1.8	2.0	2.2	1.8
	50,000 to 99,999 lb	10.6	9.7	10.3	10.2
	100,000 lb or more	4.6	5.3	7.0	3.0
323	**Printing and Related Support Activities**				
	Total	**2.9**	**6.0**	**5.6**	**5.9**
	Less than 50 lb	6.3	7.6	11.9	6.0
	50 to 99 lb	4.2	5.9	7.1	4.6
	100 to 499 lb	10.1	5.6	9.1	4.0
	500 to 749 lb	5.4	7.1	11.9	6.7
	750 to 999 lb	5.3	6.2	11.3	7.4
	1,000 to 9,999 lb	4.3	4.0	4.3	4.5
	10,000 to 49,999 lb	5.3	7.1	5.7	4.3
	50,000 to 99,999 lb	17.3	28.5	27.4	21.5
	100,000 lb or more	26.1	(S)	(S)	16.7

See footnotes at end of table.

Table B-13.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Shipment Weight for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number	Average miles per shipment—coefficient of variation of number
324	**Petroleum and Coal Products Manufacturing**				
	Total	**4.3**	**5.4**	**7.5**	**12.4**
	Less than 50 lb	(S)	(S)	(S)	5.4
	50 to 99 lb	(S)	36.5	42.1	9.6
	100 to 499 lb	(S)	29.0	39.9	8.6
	500 to 749 lb	29.1	33.9	36.2	12.1
	750 to 999 lb	26.2	30.9	38.3	10.2
	1,000 to 9,999 lb	11.7	11.0	15.8	9.8
	10,000 to 49,999 lb	8.2	8.3	5.6	8.3
	50,000 to 99,999 lb	12.9	10.8	9.9	6.7
	100,000 lb or more	4.9	5.9	9.7	9.6
325	**Chemical Manufacturing**				
	Total	**2.7**	**5.2**	**5.5**	**3.8**
	Less than 50 lb	15.7	8.6	7.4	4.3
	50 to 99 lb	19.4	10.4	13.4	4.1
	100 to 499 lb	12.2	6.2	8.2	3.6
	500 to 749 lb	15.7	7.5	6.6	6.3
	750 to 999 lb	12.2	7.4	9.4	6.2
	1,000 to 9,999 lb	12.9	6.1	5.3	4.7
	10,000 to 49,999 lb	3.7	5.6	3.8	5.1
	50,000 to 99,999 lb	30.9	12.8	13.8	9.1
	100,000 lb or more	9.2	8.5	8.8	1.8
326	**Plastics and Rubber Products Manufacturing**				
	Total	**1.6**	**2.7**	**3.8**	**3.6**
	Less than 50 lb	7.0	6.2	8.7	3.6
	50 to 99 lb	5.8	6.6	12.8	5.8
	100 to 499 lb	4.9	5.5	9.0	4.9
	500 to 749 lb	5.8	4.8	6.7	4.6
	750 to 999 lb	4.6	4.8	7.3	3.8
	1,000 to 9,999 lb	2.6	4.9	4.2	3.5
	10,000 to 49,999 lb	3.2	3.1	3.3	1.9
	50,000 to 99,999 lb	26.5	23.1	32.5	15.7
	100,000 lb or more	24.6	24.0	25.3	18.6
327	**Nonmetallic Mineral Product Manufacturing**				
	Total	**5.1**	**4.1**	**4.0**	**6.7**
	Less than 50 lb	10.3	11.7	13.1	5.6
	50 to 99 lb	11.1	11.9	14.8	7.5
	100 to 499 lb	20.1	14.6	19.3	8.2
	500 to 749 lb	26.9	13.4	18.0	9.3
	750 to 999 lb	31.6	17.0	41.1	9.3
	1,000 to 9,999 lb	24.5	4.6	19.4	9.9
	10,000 to 49,999 lb	2.6	5.2	2.6	4.4
	50,000 to 99,999 lb	4.6	6.3	7.0	4.4
	100,000 lb or more	6.9	14.0	13.0	11.0
331	**Primary Metal Manufacturing**				
	Total	**2.3**	**4.1**	**5.7**	**3.7**
	Less than 50 lb	11.7	12.7	13.7	6.8
	50 to 99 lb	12.4	19.9	20.7	6.1
	100 to 499 lb	6.9	9.8	10.7	6.5
	500 to 749 lb	10.1	7.9	9.1	6.2
	750 to 999 lb	10.4	10.1	9.1	6.7
	1,000 to 9,999 lb	6.2	5.9	6.8	3.8
	10,000 to 49,999 lb	3.3	5.2	5.6	2.2
	50,000 to 99,999 lb	10.2	13.4	12.6	9.8
	100,000 lb or more	5.2	6.8	9.9	5.6

See footnotes at end of table.

Table B-13.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Shipment Weight for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number	Average miles per shipment—coefficient of variation of number
332	**Fabricated Metal Product Manufacturing**				
	Total	**1.8**	**4.4**	**4.7**	**2.6**
	Less than 50 lb	5.0	4.4	5.6	3.5
	50 to 99 lb	5.2	5.4	6.5	3.8
	100 to 499 lb	3.5	3.9	3.5	3.0
	500 to 749 lb	4.1	5.1	4.7	4.4
	750 to 999 lb	5.2	4.7	8.6	5.2
	1,000 to 9,999 lb	2.8	5.6	3.5	3.7
	10,000 to 49,999 lb	3.6	5.5	3.7	4.0
	50,000 to 99,999 lb	8.9	17.1	12.0	17.8
	100,000 lb or more	15.5	23.5	29.8	11.0
333	**Machinery Manufacturing**				
	Total	**2.9**	**5.1**	**6.7**	**3.1**
	Less than 50 lb	3.4	2.8	4.6	3.3
	50 to 99 lb	4.9	5.2	5.5	3.1
	100 to 499 lb	4.7	3.9	3.4	2.7
	500 to 749 lb	7.6	7.6	6.5	3.3
	750 to 999 lb	5.2	6.8	7.0	4.1
	1,000 to 9,999 lb	5.0	5.2	5.2	2.8
	10,000 to 49,999 lb	5.4	7.7	10.8	5.7
	50,000 to 99,999 lb	16.2	16.3	19.5	5.9
	100,000 lb or more	20.1	26.2	41.8	9.0
334	**Computer and Electronic Product Manufacturing**				
	Total	**5.6**	**8.8**	**7.7**	**2.8**
	Less than 50 lb	4.1	6.9	6.4	3.0
	50 to 99 lb	7.2	8.3	8.4	3.1
	100 to 499 lb	5.4	5.0	6.1	3.7
	500 to 749 lb	8.6	8.3	11.2	5.5
	750 to 999 lb	9.5	9.0	15.3	7.1
	1,000 to 9,999 lb	10.9	8.4	8.9	4.7
	10,000 to 49,999 lb	36.4	14.2	15.6	8.3
	50,000 to 99,999 lb	34.7	(S)	42.0	18.8
	100,000 lb or more	(S)	36.6	37.2	22.0
335	**Electrical Equipment, Appliance, and Component Manufacturing**				
	Total	**4.1**	**4.9**	**6.3**	**3.5**
	Less than 50 lb	8.2	7.3	8.5	2.7
	50 to 99 lb	5.2	6.9	7.4	2.7
	100 to 499 lb	6.3	8.0	6.2	7.4
	500 to 749 lb	9.5	10.0	9.6	3.3
	750 to 999 lb	9.8	5.5	7.8	6.1
	1,000 to 9,999 lb	5.4	5.9	6.4	2.4
	10,000 to 49,999 lb	5.3	5.3	8.5	4.1
	50,000 to 99,999 lb	21.4	20.8	20.9	10.8
	100,000 lb or more	42.9	37.3	38.9	11.6
336	**Transportation Equipment Manufacturing**				
	Total	**4.1**	**4.4**	**3.3**	**2.4**
	Less than 50 lb	10.7	10.6	10.2	3.2
	50 to 99 lb	6.9	8.4	7.7	3.4
	100 to 499 lb	8.1	4.6	6.6	4.1
	500 to 749 lb	14.5	10.8	12.1	7.7
	750 to 999 lb	18.9	8.3	10.2	5.0
	1,000 to 9,999 lb	10.7	10.5	11.2	7.3
	10,000 to 49,999 lb	4.9	5.0	5.7	2.4
	50,000 to 99,999 lb	13.6	25.9	13.3	16.0
	100,000 lb or more	43.0	19.8	24.7	9.7

See footnotes at end of table.

Table B-13.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Shipment Weight for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number	Average miles per shipment—coefficient of variation of number
337	**Furniture Manufacturing**				
	Total	**3.1**	**6.6**	**5.8**	**3.2**
	Less than 50 lb	13.7	15.7	19.7	4.6
	50 to 99 lb	6.3	8.3	11.1	4.2
	100 to 499 lb	5.8	7.3	6.8	3.5
	500 to 749 lb	4.5	7.6	7.0	4.3
	750 to 999 lb	6.3	7.4	6.8	5.4
	1,000 to 9,999 lb	3.0	4.2	4.1	3.3
	10,000 to 49,999 lb	10.9	14.8	11.4	3.8
	50,000 to 99,999 lb	20.8	26.1	44.6	11.4
	100,000 lb or more	34.8	(S)	(S)	23.5
339	**Miscellaneous Manufacturing**				
	Total	**2.9**	**11.7**	**15.9**	**4.3**
	Less than 50 lb	3.9	6.3	6.7	4.7
	50 to 99 lb	8.7	6.6	5.6	3.5
	100 to 499 lb	5.3	5.1	5.4	2.2
	500 to 749 lb	9.1	11.3	16.1	5.6
	750 to 999 lb	8.9	7.9	8.6	6.8
	1,000 to 9,999 lb	6.8	8.5	8.0	4.3
	10,000 to 49,999 lb	7.0	21.7	27.0	5.4
	50,000 to 99,999 lb	30.7	(S)	(S)	17.1
	100,000 lb or more	37.5	40.7	42.3	26.3
4231	**Motor Vehicle and Motor Vehicle Parts and Supplies**				
	Total	**7.3**	**17.4**	**11.1**	**13.1**
	Less than 50 lb	5.5	6.7	16.0	13.2
	50 to 99 lb	9.1	9.7	26.6	14.3
	100 to 499 lb	8.7	7.0	26.5	14.7
	500 to 749 lb	12.0	6.8	13.5	10.6
	750 to 999 lb	8.2	8.2	10.1	10.1
	1,000 to 9,999 lb	6.8	12.6	22.9	7.8
	10,000 to 49,999 lb	21.3	33.7	17.2	16.7
	50,000 to 99,999 lb	25.8	33.5	36.5	(S)
	100,000 lb or more	41.7	23.2	32.4	30.9
4232	**Furniture and Home Furnishings**				
	Total	**5.6**	**8.0**	**20.7**	**7.5**
	Less than 50 lb	11.6	22.0	30.2	8.4
	50 to 99 lb	12.7	14.7	18.0	7.1
	100 to 499 lb	7.0	7.3	11.9	7.3
	500 to 749 lb	8.9	8.6	18.2	9.0
	750 to 999 lb	9.8	9.6	17.3	9.2
	1,000 to 9,999 lb	7.0	7.7	11.5	7.0
	10,000 to 49,999 lb	9.1	10.9	22.8	11.7
	50,000 to 99,999 lb	24.3	35.0	(S)	24.7
	100,000 lb or more	(S)	(S)	(S)	20.9
4233	**Lumber and Other Construction Materials**				
	Total	**3.4**	**7.4**	**13.8**	**10.8**
	Less than 50 lb	7.8	5.9	16.9	13.6
	50 to 99 lb	5.5	5.8	19.6	14.4
	100 to 499 lb	3.8	4.0	15.9	13.6
	500 to 749 lb	4.7	3.8	14.9	11.6
	750 to 999 lb	5.4	4.6	10.3	8.7
	1,000 to 9,999 lb	4.3	4.3	7.1	8.2
	10,000 to 49,999 lb	3.8	9.6	5.6	7.8
	50,000 to 99,999 lb	12.2	12.8	19.1	13.6
	100,000 lb or more	23.9	27.5	47.3	24.7

See footnotes at end of table.

Table B-13.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Shipment Weight for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number	Average miles per shipment—coefficient of variation of number
4234	**Professional and Commercial Equipment and Supplies**				
	Total	**3.5**	**9.2**	**14.3**	**5.8**
	Less than 50 lb	5.0	4.4	10.1	5.8
	50 to 99 lb	6.3	8.1	8.1	7.2
	100 to 499 lb	7.4	6.5	7.4	7.4
	500 to 749 lb	8.1	8.5	9.0	9.8
	750 to 999 lb	19.1	24.1	(S)	15.5
	1,000 to 9,999 lb	8.4	12.7	18.7	14.2
	10,000 to 49,999 lb	18.3	22.1	22.4	20.6
	50,000 to 99,999 lb	(S)	32.1	(S)	27.7
	100,000 lb or more	38.5	(S)	40.2	(S)
4235	**Metal and Mineral (Except Petroleum)**				
	Total	**3.5**	**10.7**	**13.8**	**8.3**
	Less than 50 lb	9.6	8.8	18.0	11.9
	50 to 99 lb	7.8	8.1	18.0	10.3
	100 to 499 lb	6.2	5.2	9.5	10.1
	500 to 749 lb	4.7	5.7	12.9	15.5
	750 to 999 lb	7.1	5.8	11.4	8.7
	1,000 to 9,999 lb	5.1	5.4	5.2	5.7
	10,000 to 49,999 lb	5.1	5.3	4.7	4.3
	50,000 to 99,999 lb	13.2	19.8	19.6	18.6
	100,000 lb or more	17.5	35.9	35.2	13.9
4236	**Electrical and Electronic Goods**				
	Total	**3.9**	**8.4**	**14.1**	**6.0**
	Less than 50 lb	4.7	6.6	8.7	6.3
	50 to 99 lb	8.8	7.6	12.4	8.3
	100 to 499 lb	7.7	6.4	10.5	8.0
	500 to 749 lb	6.8	7.5	13.2	10.0
	750 to 999 lb	17.0	14.5	42.4	16.9
	1,000 to 9,999 lb	6.9	8.3	13.2	9.0
	10,000 to 49,999 lb	23.1	18.5	23.7	13.3
	50,000 to 99,999 lb	45.1	36.8	28.0	(S)
	100,000 lb or more	(S)	37.2	(S)	(S)
4237	**Hardware and Plumbing and Heating Equipment and Supplies**				
	Total	**2.4**	**11.1**	**12.9**	**6.8**
	Less than 50 lb	6.0	5.5	9.7	7.8
	50 to 99 lb	7.7	6.0	11.6	9.8
	100 to 499 lb	5.7	4.2	7.2	7.7
	500 to 749 lb	7.5	5.7	9.6	9.7
	750 to 999 lb	9.9	6.4	14.3	11.2
	1,000 to 9,999 lb	4.6	4.9	6.9	6.3
	10,000 to 49,999 lb	12.2	12.8	15.4	13.6
	50,000 to 99,999 lb	32.0	34.3	(S)	40.8
	100,000 lb or more	(S)	34.6	(S)	27.2
4238	**Machinery, Equipment, and Supplies**				
	Total	**2.5**	**13.1**	**7.0**	**4.9**
	Less than 50 lb	4.2	3.9	7.1	5.4
	50 to 99 lb	5.6	4.6	8.4	4.9
	100 to 499 lb	3.8	4.3	7.1	5.2
	500 to 749 lb	5.2	5.8	8.6	9.0
	750 to 999 lb	10.6	8.1	10.2	11.8
	1,000 to 9,999 lb	4.7	6.6	10.2	5.1
	10,000 to 49,999 lb	5.6	26.8	9.4	10.7
	50,000 to 99,999 lb	12.7	16.2	29.1	30.6
	100,000 lb or more	17.7	23.2	(S)	19.5

See footnotes at end of table.

Table B-13.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Shipment Weight for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number	Average miles per shipment—coefficient of variation of number
4239	**Miscellaneous Durable Goods**				
	Total	**3.6**	**14.6**	**11.0**	**3.9**
	Less than 50 lb	7.4	9.6	12.3	3.5
	50 to 99 lb	10.8	12.2	13.3	6.0
	100 to 499 lb	9.7	12.2	18.3	6.5
	500 to 749 lb	9.7	13.4	18.3	10.2
	750 to 999 lb	16.1	21.7	14.6	16.4
	1,000 to 9,999 lb	9.9	10.9	15.2	12.5
	10,000 to 49,999 lb	5.9	18.6	14.5	18.1
	50,000 to 99,999 lb	13.2	22.0	14.6	27.2
	100,000 lb or more	10.9	12.9	20.9	12.2
4241	**Paper and Paper Products**				
	Total	**4.5**	**11.5**	**23.7**	**7.5**
	Less than 50 lb	7.0	4.9	15.2	8.1
	50 to 99 lb	7.6	4.8	7.1	7.7
	100 to 499 lb	3.8	4.1	8.8	9.2
	500 to 749 lb	7.6	5.9	9.7	9.8
	750 to 999 lb	9.8	7.9	17.2	20.3
	1,000 to 9,999 lb	6.1	6.0	17.0	11.9
	10,000 to 49,999 lb	7.6	9.9	16.3	10.8
	50,000 to 99,999 lb	32.2	(S)	(S)	17.6
	100,000 lb or more	48.4	40.6	42.9	11.4
4242	**Drugs and Druggists' Sundries**				
	Total	**6.3**	**17.2**	**11.8**	**6.9**
	Less than 50 lb	10.4	7.9	8.4	7.2
	50 to 99 lb	14.7	12.8	16.6	12.3
	100 to 499 lb	14.5	14.8	22.4	9.8
	500 to 749 lb	19.3	19.6	35.2	10.8
	750 to 999 lb	28.5	21.4	30.5	12.2
	1,000 to 9,999 lb	14.4	36.3	13.6	11.4
	10,000 to 49,999 lb	20.0	28.3	14.9	25.3
	50,000 to 99,999 lb	28.1	40.4	(S)	38.0
	100,000 lb or more	(S)	(S)	(S)	39.6
4243	**Apparel, Piece Goods, and Notions**				
	Total	**6.6**	**12.9**	**20.6**	**4.0**
	Less than 50 lb	8.7	7.8	9.7	3.8
	50 to 99 lb	10.1	7.8	10.8	6.1
	100 to 499 lb	11.8	9.1	13.2	6.9
	500 to 749 lb	11.8	10.4	12.6	9.0
	750 to 999 lb	17.8	12.7	15.3	11.1
	1,000 to 9,999 lb	10.5	9.9	18.5	6.9
	10,000 to 49,999 lb	12.1	31.0	(S)	13.3
	50,000 to 99,999 lb	45.0	43.1	(S)	35.9
	100,000 lb or more	23.9	27.5	(S)	38.9
4244	**Grocery and Related Product Wholesalers**				
	Total	**1.5**	**2.8**	**7.4**	**7.4**
	Less than 50 lb	7.7	8.3	20.1	17.7
	50 to 99 lb	5.0	4.7	9.8	6.5
	100 to 499 lb	3.5	4.2	6.8	5.0
	500 to 749 lb	3.4	4.5	6.8	4.8
	750 to 999 lb	4.5	6.1	7.9	5.2
	1,000 to 9,999 lb	3.0	3.4	4.2	4.1
	10,000 to 49,999 lb	3.9	5.0	6.4	4.1
	50,000 to 99,999 lb	12.8	27.8	39.8	20.3
	100,000 lb or more	26.0	26.2	43.7	11.8

See footnotes at end of table.

Table B-13.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Shipment Weight for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number	Average miles per shipment—coefficient of variation of number
4245	**Farm Product Raw Materials**				
	Total	**5.6**	**5.2**	**10.2**	**14.5**
	Less than 50 lb	(S)	28.6	44.0	28.1
	50 to 99 lb	28.7	28.5	35.0	34.3
	100 to 499 lb	30.7	26.1	39.7	41.0
	500 to 749 lb	30.2	28.2	45.7	22.0
	750 to 999 lb	25.8	22.8	34.4	34.8
	1,000 to 9,999 lb	16.7	18.3	22.2	26.2
	10,000 to 49,999 lb	12.1	8.6	16.8	14.0
	50,000 to 99,999 lb	8.4	9.6	10.6	8.0
	100,000 lb or more	8.0	8.1	11.3	10.1
4246	**Chemical and Allied Products**				
	Total	**5.3**	**16.1**	**17.5**	**8.9**
	Less than 50 lb	11.4	16.1	10.7	13.9
	50 to 99 lb	15.5	12.8	13.8	13.9
	100 to 499 lb	11.1	14.6	15.2	14.8
	500 to 749 lb	9.8	13.0	13.9	18.1
	750 to 999 lb	10.8	14.6	12.2	19.1
	1,000 to 9,999 lb	6.5	9.8	10.7	10.4
	10,000 to 49,999 lb	7.6	25.1	18.3	7.7
	50,000 to 99,999 lb	18.3	25.9	23.9	21.4
	100,000 lb or more	21.0	33.5	41.3	13.7
4247	**Petroleum and Petroleum Products**				
	Total	**4.2**	**4.3**	**8.6**	**12.4**
	Less than 50 lb	48.0	36.2	(S)	17.2
	50 to 99 lb	27.5	17.5	47.7	15.8
	100 to 499 lb	13.0	10.6	17.5	12.8
	500 to 749 lb	10.8	11.3	18.9	22.8
	750 to 999 lb	10.8	12.2	13.2	12.5
	1,000 to 9,999 lb	7.2	6.9	8.8	8.1
	10,000 to 49,999 lb	5.8	5.2	11.6	9.7
	50,000 to 99,999 lb	6.0	5.8	7.9	4.7
	100,000 lb or more	17.7	19.3	28.4	22.0
4248	**Beer, Wine, and Distilled Alcoholic Beverages**				
	Total	**3.8**	**4.1**	**14.8**	**6.0**
	Less than 50 lb	(S)	11.9	11.7	18.6
	50 to 99 lb	8.8	5.8	8.6	5.9
	100 to 499 lb	6.3	4.3	5.8	5.3
	500 to 749 lb	3.0	3.5	7.6	9.3
	750 to 999 lb	5.4	4.3	8.1	5.6
	1,000 to 9,999 lb	4.2	4.1	6.1	7.0
	10,000 to 49,999 lb	9.9	8.9	31.3	29.7
	50,000 to 99,999 lb	25.3	25.0	31.8	32.3
	100,000 lb or more	36.5	40.1	(S)	10.9
4249	**Miscellaneous Nondurable Goods**				
	Total	**4.1**	**8.6**	**18.7**	**7.7**
	Less than 50 lb	5.4	9.6	12.3	7.8
	50 to 99 lb	6.1	7.7	13.8	13.2
	100 to 499 lb	4.6	5.9	13.8	9.2
	500 to 749 lb	5.3	7.5	8.3	9.9
	750 to 999 lb	5.4	7.2	7.1	7.7
	1,000 to 9,999 lb	5.5	6.6	11.6	10.2
	10,000 to 49,999 lb	9.6	10.1	13.1	10.5
	50,000 to 99,999 lb	15.5	14.7	20.8	13.0
	100,000 lb or more	21.6	18.6	30.9	15.5

See footnotes at end of table.

Table B-13.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Shipment Weight for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number	Average miles per shipment—coefficient of variation of number
4541	**Electronic Shopping and Mail Order Houses**				
	Total	**6.8**	**7.2**	**8.1**	**2.4**
	Less than 50 lb	7.3	9.4	8.3	2.4
	50 to 99 lb	11.2	17.2	19.6	6.7
	100 to 499 lb	15.4	20.6	17.1	14.6
	500 to 749 lb	22.9	23.8	27.5	20.5
	750 to 999 lb	33.7	34.2	(S)	17.1
	1,000 to 9,999 lb	37.5	17.9	30.2	13.2
	10,000 to 49,999 lb	43.5	26.6	33.5	15.8
	50,000 to 99,999 lb	44.9	36.0	2.5	(S)
	100,000 lb or more	(S)	(S)	(S)	(S)
45431	**Fuel Dealers**				
	Total	**5.4**	**5.8**	**33.2**	**7.3**
	Less than 50 lb	18.8	18.0	13.7	22.3
	50 to 99 lb	8.9	6.8	9.0	8.7
	100 to 499 lb	8.3	8.1	11.9	5.4
	500 to 749 lb	5.1	6.1	17.7	15.2
	750 to 999 lb	7.3	7.3	11.3	10.0
	1,000 to 9,999 lb	5.2	5.5	15.5	9.1
	10,000 to 49,999 lb	16.6	15.2	(S)	23.5
	50,000 to 99,999 lb	31.1	31.8	(S)	18.6
	100,000 lb or more	49.2	44.9	27.6	32.8
4931	**Warehousing and Storage**				
	Total	**6.5**	**5.9**	**6.0**	**4.4**
	Less than 50 lb	14.2	11.7	15.3	3.5
	50 to 99 lb	17.6	8.9	13.4	7.9
	100 to 499 lb	14.9	12.9	4.9	8.8
	500 to 749 lb	9.4	7.2	8.9	10.3
	750 to 999 lb	17.6	8.9	10.9	9.7
	1,000 to 9,999 lb	10.3	4.0	5.1	5.5
	10,000 to 49,999 lb	7.9	4.9	6.0	3.6
	50,000 to 99,999 lb	22.6	28.3	36.9	13.6
	100,000 lb or more	23.7	23.3	34.0	12.0
5111	**Newspaper, Periodical, Book, and Directory Publishers**				
	Total	**6.2**	**7.8**	**14.4**	**25.8**
	Less than 50 lb	14.2	14.1	12.0	27.5
	50 to 99 lb	14.2	15.2	13.7	19.7
	100 to 499 lb	10.1	15.2	11.8	20.0
	500 to 749 lb	34.7	15.8	26.6	14.2
	750 to 999 lb	21.3	14.6	23.4	26.3
	1,000 to 9,999 lb	11.7	11.2	27.3	18.0
	10,000 to 49,999 lb	14.6	10.5	23.6	18.0
	50,000 to 99,999 lb	44.5	(S)	(S)	35.5
	100,000 lb or more	(S)	(S)	(S)	(S)

See footnotes at end of table.

Table B-13.

Estimated Coefficients of Variation for Shipment Characteristics by Industry and Shipment Weight for the United States: 2007—Con.

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

NAICS code	NAICS title	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number	Average miles per shipment—coefficient of variation of number
551114	**Corporate, Subsidiary, and Regional Managing Offices**				
	Total	**7.6**	**8.3**	**11.9**	**4.8**
	Less than 50 lb	16.1	11.9	12.1	3.5
	50 to 99 lb	26.0	14.0	16.4	9.2
	100 to 499 lb	19.1	13.5	11.8	9.7
	500 to 749 lb	17.1	21.9	14.3	14.2
	750 to 999 lb	12.9	30.6	12.0	16.4
	1,000 to 9,999 lb	12.1	9.6	14.0	10.3
	10,000 to 49,999 lb	15.5	8.8	13.1	10.6
	50,000 to 99,999 lb	26.4	14.4	26.4	15.8
	100,000 lb or more	28.4	17.4	24.8	11.7

(S) Estimate did not meet publication standards.

[1] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See “Mileage Calculations” section for additional information.

Note: The Introduction and appendixes give information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions. Links to the information on the Internet may be found at <www.census.gov/cfs>.

Table B-14.

Estimated Coefficients of Variation for Shipment Characteristics by Origin State for the United States: 2007

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

Origin state	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number
Alabama	9.1	9.8	11.2
Alaska	15.9	16.4	15.9
Arizona	7.0	7.1	12.7
Arkansas	5.3	10.7	4.0
California	1.3	6.8	3.6
Colorado	4.8	14.4	19.6
Connecticut	7.7	7.0	9.9
Delaware	15.2	18.3	18.9
District of Columbia	20.4	26.3	18.4
Florida	3.7	7.9	5.7
Georgia	4.9	11.1	4.4
Hawaii	16.6	23.6	20.0
Idaho	8.5	6.6	10.6
Illinois	3.9	3.6	8.8
Indiana	4.8	7.0	4.5
Iowa	5.7	9.0	11.2
Kansas	10.5	10.4	12.0
Kentucky	16.3	10.5	12.8
Louisiana	4.0	5.7	7.8
Maine	3.3	18.0	12.6
Maryland	6.2	6.6	10.5
Massachusetts	4.7	12.4	2.8
Michigan	5.5	6.0	7.2
Minnesota	4.1	4.3	13.2
Mississippi	9.3	13.1	15.9
Missouri	6.4	5.5	12.2
Montana	10.3	28.0	27.1
Nebraska	6.2	28.2	13.0
Nevada	8.0	15.2	16.4
New Hampshire	5.1	9.7	10.9
New Jersey	5.9	5.8	9.4
New Mexico	5.0	22.3	15.9
New York	2.5	5.3	17.0
North Carolina	3.8	5.1	2.6
North Dakota	10.3	21.7	22.5
Ohio	4.7	3.7	7.1
Oklahoma	7.7	8.0	6.0
Oregon	5.8	13.0	12.7
Pennsylvania	6.5	9.4	6.0
Rhode Island	12.5	17.8	15.9
South Carolina	4.7	8.2	7.2
South Dakota	3.3	14.8	14.3
Tennessee	11.4	14.0	20.3
Texas	5.3	4.7	5.1
Utah	14.5	12.4	19.2
Vermont	12.4	14.9	24.7
Virginia	4.0	10.1	18.9
Washington	9.6	7.7	16.4
West Virginia	3.9	17.6	20.0
Wisconsin	2.2	10.5	14.0
Wyoming	11.6	15.5	13.9

[1] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See "Mileage Calculations" section for additional information.

Note: The Introduction and appendixes give information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions. Links to the information on the Internet may be found at <www.census.gov/cfs>.

Table B-15.

Estimated Coefficients of Variation for Shipment Characteristics by Destination State for the United States: 2007

[Estimates are shown as percentages and are based on data from the 2007 Commodity Flow Survey]

Destination state	Value—coefficient of variation of number	Tons—coefficient of variation of number	Ton-miles[1]—coefficient of variation of number
Alabama	5.1	7.3	9.2
Alaska	9.4	15.6	14.2
Arizona	5.6	7.4	6.8
Arkansas	4.5	9.8	19.5
California	2.8	7.0	5.0
Colorado	4.5	10.3	10.0
Connecticut	4.6	7.5	8.5
Delaware	10.9	18.9	23.3
District of Columbia	14.3	24.9	36.5
Florida	3.3	6.7	9.5
Georgia	4.2	8.2	10.2
Hawaii	10.3	20.0	10.2
Idaho	4.5	8.7	10.6
Illinois	2.2	5.9	14.3
Indiana	2.7	7.8	12.3
Iowa	4.9	7.2	11.2
Kansas	5.1	7.8	13.1
Kentucky	5.0	8.5	16.7
Louisiana	5.3	7.6	11.8
Maine	4.1	16.3	11.2
Maryland	6.2	9.0	7.9
Massachusetts	4.7	12.3	5.1
Michigan	3.2	6.6	10.2
Minnesota	4.6	6.2	8.3
Mississippi	5.7	8.8	19.8
Missouri	4.3	6.9	18.0
Montana	4.7	24.3	11.7
Nebraska	4.9	30.3	10.8
Nevada	4.3	13.5	8.6
New Hampshire	4.8	10.2	9.8
New Jersey	5.5	8.1	14.6
New Mexico	6.6	25.4	8.2
New York	2.3	5.4	4.3
North Carolina	3.1	5.5	8.3
North Dakota	4.2	25.5	21.1
Ohio	3.6	5.8	7.2
Oklahoma	6.6	8.1	13.1
Oregon	5.1	12.0	13.9
Pennsylvania	3.0	6.5	7.0
Rhode Island	6.1	13.7	15.4
South Carolina	3.9	6.2	7.1
South Dakota	5.6	11.0	14.8
Tennessee	5.1	8.6	6.9
Texas	3.3	4.7	8.6
Utah	6.3	9.6	7.6
Vermont	9.9	12.3	8.7
Virginia	3.1	9.2	13.5
Washington	3.6	8.0	10.6
West Virginia	6.8	11.7	13.0
Wisconsin	3.4	7.5	9.9
Wyoming	10.0	23.9	17.8

[1] Ton-miles estimates are based on estimated distances traveled along a modeled transportation network. See "Mileage Calculations" section for additional information.

Note: The Introduction and appendixes give information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions. Links to the information on the Internet may be found at <www.census.gov/cfs>.

Appendix C.
Sample Design, Data Collection, and Estimation

INTRODUCTION

The primary goal for the 2007 Commodity Flow Survey (CFS) was to estimate *shipping volumes* (value, tons, and ton-miles) by *commodity and mode of transportation* at varying levels of geographic detail. A secondary objective was to estimate the volume of shipments moving from one geographic area to another (i.e., flows of commodities between states, regions, etc.) by mode and commodity. A detailed description of the sample design for the 2007 CFS is provided below.

SAMPLE DESIGN

The sample for the 2007 CFS was selected using a stratified three-stage design in which the first-stage sampling units were establishments, the second-stage sampling units were groups of four 1-week periods (reporting weeks) within the survey year, and the third-stage sampling units were shipments.

First Stage—Establishment Selection

Sampling frame

To create the first-stage sampling frame, a subset of establishment records (as of August 2006) was extracted from the U.S. Census Bureau's Business Register. The Business Register is a database of all known establishments located in the United States or its territories. An establishment is a single physical location where business transactions take place or services are performed. Most establishments located in the United States, having nonzero payroll in 2005, and classified in mining (except oil and gas extraction), manufacturing, wholesale, electronic shopping and mail order, fuel dealers, and publishing industries, as defined by the 2002 North American Industry Classification System (NAICS), were included on the sampling frame. Certain manufacturers (pre-press services) and wholesalers (manufacturers' sales offices, agents and brokers, and certain importers) were excluded from the frame.

Auxiliary establishments (e.g., warehouses and central administrative offices) with shipping activity were also included on the sampling frame. Auxiliary establishments are establishments that are primarily involved in rendering support services for other establishments within the same company instead of for the public, government, or other business firms. Establishments classified in forestry, fishing, utilities, construction, transportation, and all other retail and services industries were not included on the sampling frame. Farms and government-owned entities (except government-owned wholesale liquor stores) were also excluded from the sampling frame.

The resulting frame comprised approximately 754,000 establishments as listed in the table below.

Trade area	Establishments
Mining	6,789
Manufacturing	327,826
Wholesale	356,477
Retail	25,190
Services	22,539
Auxiliaries	14,878
Total	**753,699**

For each establishment, sales, payroll, number of employees, a six-digit NAICS code, name and address, and a primary identifier were extracted, and a measure of size was computed. The measure of size was designed to approximate an establishment's annual total value of shipments for the year 2004.

All of the establishments included on the sampling frame had state, county, and place geographic codes, which were used to assign each establishment to one of the 73 metropolitan areas (MAs) defined as a combination of the metropolitan statistical areas (MSAs), combined statistical areas (CSAs), and states. Establishments not located in an MA were assigned to the balance of the state.

Stratification

The sampling frame was stratified by geography and industry. A particular geographic-by-industry combination defined a "primary stratum." Geographic strata were defined by a combination of the 50 states, the District of Columbia, and 65 MAs based on their population and importance as transportation gateways. All other MAs were collapsed with the non-MAs within the state into rest of state (ROS) strata. When an MA crossed state boundaries, the size of each part of the MA was considered relative to the MAs total measure of size when determining whether or not to create strata in each state in which the MA was defined. Six MAs had strata in two or more states.

The industry strata were determined as follows. Within each of the geographic strata, 48 industry groups were defined based on the 2002 NAICS: 3 mining (four-digit NAICS); 21 manufacturing (three-digit NAICS); 18 wholesale (four-digit NAICS); 2 retail (NAICS 4541 and 45431); 1 ser-

vices (NAICS 5111 and 51223 combined); and 3 auxiliary (combinations of NAICS 4931 and 551114).

If a three- or four-digit NAICS industry contributed at least 4 percent of the total value (based on sampling measure of size) or tonnage (based on 2002 CFS data) for the geographic stratum or the nation, it was designated as a *do not collapse* industry stratum within the geographic stratum. Industries not meeting this level of activity within a geographic stratum were grouped with other similar industries. The remaining industry strata were collapsed to form at most 10 *collapsed* industry strata within each geographic stratum.

The method used to collapse the remaining strata used 2002 CFS data as input to a Classification and Regression Tree (CART) procedure that related industries with commodities. The terminal nodes from the CART procedure were then grouped using a hierarchical clustering algorithm. Using the results from the hierarchical clustering algorithm, some of the clusters were manually regrouped to arrive at the final industry clusters.

To produce better estimates of the shipment of hazardous materials (hazmat) for 2007, a total of 160 strata targeting hazmat shippers were created. Using 2002 CFS data, the six-digit NAICS industries that accounted for a large proportion of the estimated total value and/or total tonnage for six groups of hazmat were identified. These included ammonium nitrate, ethanol, explosives, hydrogen, toxic by inhalation, and all other miscellaneous hazmat.

The treatment of auxiliary establishments was modified for 2007 to take advantage of the data collected through the advance survey. For auxiliaries that responded to the advance survey and were considered to be shippers, 123 strata were created—one in each geographic stratum, combining both NAICS 4931 and 551114. Two national strata for auxiliary establishments were also created for those that did not respond to the advance survey—one stratum for nonresponding warehouses (those classified in NAICS 4931) and one stratum for nonresponding management offices (NAICS 551114).

The table below summarizes the primary stratification of the CFS sampling frame. Of the 2,745 primary strata, 232 were designated as *take-all* strata because of the small number of establishments in the stratum and/or their importance.

Primary strata	Number
Do not collapse	1,306
Collapsed	1,154
Auxiliaries (advance survey responders)	123
Auxiliaries (advance survey nonresponders)	2
Hazmat	160
Total	**2,745**

Sample size and allocation

Sample sizes were computed to meet coefficient of variation (CV) constraints on estimated value of shipments totals for each primary stratum. A CV of 1.5 percent on the estimated total value of shipments was used for each primary stratum because it produced total sample sizes of approximately 100,000 establishments.

The primary constraints were budget related, which are translated into an approximate fixed sample size for the survey. The goal of the design was to allocate this fixed total sample size in a statistically efficient manner. The CV constraints were primarily used as a tool to allocate more of the sample to more important strata. It was assumed that the cost of data collection would not vary by stratum. Maximum sampling weight and minimum sample size constraints were also imposed. For the CFS designs, the maximum first stage sample weight was set to 100 and the minimum sample size to 2 establishments per stratum.

The procedure for determining sampling parameters was an iterative computerized process. The sample design programs used in the process are part of a group of generalized programs that have been modified to accommodate the needs of the survey but use common methods, such as the Dalenius & Hodges cumulative sqrt(f) procedure, Neyman allocation, and similar rules for determining acceptable designs.

For each (non-take-all) primary sampling stratum, the survey designer specified as input to a Generalized Univariate Stratification (GUS) program:

- The desired number of bins (for a frequency distribution used in the Dalenius & Hodges' cumulative sqrt[f] procedure).
- The desired number of size strata.
- The desired number of certainty companies.
- The desired coefficient of variation for total value of shipments.
- The maximum sampling weight.
- The minimum sample size.

Once designs were determined for each of the primary strata, the information from these designs was used as input to a program that attempted to more efficiently allocate the sample to meet the desired CV on each primary stratum and also determine the sample sizes needed to meet a national level constraint. Designs with a national level constraint tend to allocate more samples to the larger states so there is a trade off between better national estimates and the quality of the more detailed geographic estimates. For the 2007 CFS, a design with a primary strata CV of 1.7 percent and a national CV of 0.036 percent was chosen. The final first stage sample size was 102,369 establishments.

Second Stage—Reporting Week Selection

The frame for the second stage of sampling consisted of 52 weeks from January 6, 2007, to January 4, 2008. Each establishment selected into the 2007 CFS sample was systematically assigned to report for four reporting weeks—one in each quarter of the reference year. Each of the four weeks was in the same relative position of the quarter. For example, an establishment might have been requested to report data for the 5th, 18th, 31st, and 44th weeks of the reference year. In this instance, each reporting week corresponds to the 5th week of each quarter. Prior to assignment of weeks to establishments, the selected sample was sorted by primary stratum (state by metropolitan area by industry) and measure-of-size.

Third Stage—Shipment Selection

For each of the four reporting weeks in which an establishment was asked to report, the respondent was requested to construct a sampling frame consisting of all shipments made by the establishment in the reporting week. Each respondent was asked to count or estimate the total number of shipments comprising the sampling frame and to record this number on the questionnaire. For each assigned reporting week, if an establishment made *more than 40* shipments during that week, the respondent was asked to select a systematic sample of the establishment's shipments and to provide information only about the selected shipments. If an establishment made *40 or fewer* shipments during that week, the respondent was asked to provide information about *all* of the establishment's shipments made during that week (i.e., no sampling was required).

DATA COLLECTION

Each establishment selected into the CFS sample was mailed a questionnaire for each of its four reporting weeks, that is, an establishment was sent a questionnaire once every quarter of 2007. For a given establishment, the respondent was asked to provide the following information about each of the establishment's reported shipments:

- Shipment ID number
- Shipment date (mm/dd)
- Shipment value
- Shipment weight in pounds
- Commodity code from Standard Classification of Transported Goods (SCTG) list
- Commodity description
- United Nations or North America (UN/NA) number for hazardous material shipments
- U.S. destination (city, state, Zip Code)—or gateway for export shipment
- Modes of transport
- An indication of whether the shipment was an export
- City and country of destination for exports
- Export mode

For a shipment that included more than one commodity, the respondent was instructed to report the commodity that made up the greatest percentage of the shipment's weight.

IMPUTATION OF SHIPMENT VALUE OR WEIGHT

To correct for nonresponse to *either* the value *or* weight for a given shipment reported in the CFS, the missing value for the item (or value that failed edit) was replaced by a predicted value obtained from an appropriate model. Such a shipment was considered a "recipient" if it had a valid commodity code and the other item reported was greater than zero and had passed edit. The recipient's item that was missing or failed edit was imputed as follows. First, a "donor" shipment was randomly selected from shipments that were reported in the CFS with:

- The same commodity code as the recipient.
- Both value and weight items reported greater than zero and had passed edit.
- Similar origin and value for the item reported by the recipient.

Then, the donor's value and weight data were used to calculate a ratio, which was then applied to the recipient's reported item to impute the item that was missing or failed edit. If no donor was found, the median ratio for all shipments reported in the survey with the same commodity code as the recipient—and with both value and weight items reported greater than zero—was applied to the recipient's reported item. For either the value or weight item, about 3 percent of the shipment records used for the calculation of estimates had imputed data for the item.

ESTIMATION

Estimated totals (e.g., value of shipments, tons, ton-miles) were produced as the sum of weighted shipment data (reported or imputed). Percentage change and percentage-of-total estimates were derived using the appropriate estimated totals. Estimates of average miles per shipment were computed by dividing a weighted estimate of the total miles traveled by the estimated weighted number of shipments.

Each shipment had associated with it a single tabulation weight, which was used in computing all estimates to which the shipment contributes. The tabulation weight was a product of seven different component weights and a noise factor. A description of each component weight follows.

CFS respondents provided data for a sample of shipments made by their respective establishments in the survey year. For each establishment, an estimate of that establishment's total value of shipments was produced for the entire survey year. To do this, four different weights were used—the shipment weight, the shipment nonresponse weight, the quarter weight, and the quarter nonresponse weight. Three additional weights were then applied to produce estimates representative of the entire universe—the establishment-level adjustment weight, the establishment (or sample) weight, and the industry-level adjustment weight.

Like establishments, shipments were identified as either certainty or noncertainty (see the "Nonsampling Error" section). For noncertainty shipments, the "shipment weight" was defined as the ratio of the reported total number of shipments made by an establishment in a reporting week to the number of sampled shipments for the same week. This weight used data from the sampled shipments to represent all the establishment's shipments made in the reporting week. However, a respondent may have failed to provide sufficient information about a particular sampled shipment. For example, a respondent may not have been able to provide value, weight, or a destination for one of the sampled shipments. If this data item could not be imputed, then this shipment did not contribute to tabulations and was deemed unusable (a "usable shipment" is one that has valid entries for value, weight, and origin and destination ZIP Codes). To account for these unusable shipments, a "shipment nonresponse weight" was applied. For noncertainty shipments from a particular establishment's reporting week, the weight was equal to the ratio of the number of sampled shipments for the reporting week to the number of usable shipments for the same week. The shipment weight for certainty shipments from a particular establishment's reporting week was equal to 1.

The *quarter weight* inflated an establishment's estimate for a particular reporting week to an estimate for the corresponding quarter. For noncertainty shipments, the quarter weight was equal to 13. The quarter weight for most certainty shipments is also equal to 13. However, if a respondent was able to provide information about all large (or certainty) shipments made in the quarter containing the reporting week, then the quarter weight for each of these shipments was one. For each establishment, the quarterly estimates were added to produce an estimate of the establishment's value of shipments for the entire survey year. Whenever an establishment did not provide the Census Bureau with a response for each of its four reporting weeks, a quarter nonresponse weight was computed. The "quarter nonresponse weight" for a particular establishment was defined as the ratio of the number of quarters for which the establishment was in business in the survey year to the total number of quarters (reporting weeks) for which usable shipment data was received from the establishment.

Using these four component weights, an estimate of each establishment's value of shipments was computed for the entire survey year. This estimate was then multiplied by a factor that adjusts the estimate using value of shipments and sales data obtained from other surveys and censuses conducted by the Census Bureau. This weight, the *establishment-level adjustment weight*, attempted to correct for any sampling or nonsampling errors that occurred during the sampling of shipments by the respondent.

The adjusted value of shipments estimate for an establishment was then weighted by the *establishment (or sample) weight*. This weight was equal to the reciprocal of the establishment's probability of being selected into the first stage sample.

A final adjustment weight, the *industry-level adjustment weight*, used information from other surveys and censuses conducted by the Census Bureau to account for establishment nonresponse or nonuseable response and changes in the universe of establishments from 2006 when the first-stage sampling frame was constructed and from 2007 when the data were collected. Separate industry-level adjustment weights were determined for nonauxiliary and auxiliary establishments. For the final CFS estimates, these industry-level adjustments were made by state at the three-digit (Manufacturing) or four-digit (all other industries) NAICS levels. There were approximately 2,150 separate industry adjustment weights computed.

A noise factor was then applied to provide additional disclosure protection (see Appendix B, "Reliability of the Estimates").

Appendix D.
Standard Classification of Transported Goods Code Information

The commodities shown in this report are classified using the Standard Classification of Transported Goods (SCTG) coding system. The SCTG coding system was created jointly by U.S. agencies and Canadian governments based on the Harmonized System of product classification that is used worldwide. The purpose of the SCTG coding system was to specifically address statistical needs in regard to products transported.

In 1997, 2002, and 2007, the Commodity Flow Survey provided respondents with a listing of SCTG codes and descriptions at the five-digit level to use in assigning a commodity code for each shipment. For shipments of more than one commodity, respondents were instructed to use the five-digit code for the major commodity, defined as the commodity of greatest total weight in the shipment. For the data presented on this report, the SCTG codes were aggregated to the two-digit level.

Appendix E.
Sample Questionnaire Instructions and Form

The sample questionnaire instructions and form for the fourth quarter are shown on the following pages.

Note: The questionnaires for each calendar quarter were the same, except for the addition of Item H—"Third Party Logistics" to the fourth quarter questionnaire.

2007 Commodity Flow Survey

INSTRUCTION GUIDE

Instructions for Completing the Commodity Flow Survey
Please read all instructions.

Contents:

- **Part I** — Instructions for Completing your Questionnaire . . . . . Pages 2–6
- **Part II** — Mode of Transportation Definitions . . . . . Page 7
- **Part III** — State Postal Abbreviation List . . . . . Page 8

Instructions for completing the Commodity Flow Survey also are available on our website at **http://www.census.gov/CFS**. If you need to contact us by telephone, a representative will be glad to assist you. Call us at **1–800–772–7851** between 8:30 a.m. and 5:00 p.m. Eastern time.

Part I — Instructions for Completing Your Questionnaire

Item A: Establishment Name:
Enter ***only*** if different from mailing address in label area.

Item B: Physical Location:
Enter ***only*** if different from mailing address in label area.

Item C: Operating Status:
Check the box that best describes this establishment's operating status during the designated reporting week.

If this establishment was inactive and made no outbound shipments during the designated reporting week: skip to the end of the questionnaire and complete the Contact information, and then return the form to the Census Bureau in the envelope provided.

Item D(1): Total Number of Outbound Shipments

Enter in the space provided your total number of outbound shipments **for the one week reporting period** printed in Item D(1).

What we mean by a "shipment":

For the purposes of this survey, a shipment is a single consignment of commodities or products from your establishment to a single customer or to another specific location of your company transported in commerce, often with a shipping document such as a manifest, bill of lading, or waybill.

"Commodities" refer to items that the establishment at this location produces, sells, or distributes, *not* to items that are considered waste-products (without value) of your location's operation.

A special note about "shipments":

A full, or partial, truckload should be counted as a single shipment only if all the commodities on the truck are destined for one location. If a truck makes multiple deliveries on a route, **please count each delivery as one shipment.**

Include:

Include in this count any materials picked up by the customer ("customer pick-up").

Include only those shipments from the location specified in Item B, or label address if not changed.

Include shipments of commodities of all sizes, by any mode of transportation (e.g., parcels).

Include any shipment of products from this establishment to another location of the company if intended for sale (e.g., products moved from this establishment to a company warehouse).

Do not include:

Do *not* include as shipments internal administrative items, such as inter-office memos, payroll checks, business correspondence, etc.

Do *not* include as shipments such as refuse, scrap paper, waste, and recyclable materials **unless** this establishment is in the business of selling or providing these materials to others.

Do *not* include as shipments items moved from the establishment at this location to another location of the company if not intended for commercial activity (e.g., the transfer of office furniture from one location of this company to another location of this company for use at the new location).

Item D(2): Total Number of Outbound Shipments

Check the appropriate box in Item D(2) to indicate whether this establishment reported 40 or fewer shipments in Item D(1). If "Yes" is marked, skip to Item F beginning on page 4 and report the information requested for all shipments made during the assigned week.

If "No", continue with Item E on page 3 to determine the sample of shipments that this establishment should report in Item F.

Item E: Sampling Instructions

If you have more than 40 outbound shipments for the one-week reporting period you are asked to report only a sample of them in Item F.

Item E provides instructions for selecting shipments for which to report in Item F.

Example

For example, if in Item D(1) you reported 150 outbound shipments for the one-week period:

Using the table provided in Item E: Go to the line with the range in column 1 that includes your total number of shipments for the week. In this example, row 4 (101-200), includes 150 so you would follow the instructions in column 2 which reads, “Report every 5th outbound shipment”. You would then report the following 30 shipments in Item F, beginning on Page 4 of the report form:

Line 1: your 5th outbound shipment
Line 2: your 10th outbound shipment
Line 3: your 15th outbound shipment
• • • (continue with every 5th shipment)
• • •
• • •
Line 30: your 150th outbound shipment

When sampling your shipments, please use the files, or combination of files that reflect the full range of your location’s shipping activities in terms of modes of transportation used, commodities or products shipped, and destinations.

We’re here to answer your questions! If you have questions about the sampling process (or any part of the questionnaire) please visit our website at www.census.gov/cfs or call us at 1-800-772-7851, from 8:30 am to 5:00 pm, Eastern time.

Item F: Shipment Characteristics

Shipment ID Number, Column (B) – Enter the invoice number, shipment number, or some other unique identification number that your establishment could use to find this particular shipping document if questions arise regarding your report.

Shipment Date, Column (C) – Enter the month and day of the shipment. If shipment date is not available, use the invoice/shipping document date. Use numbers only.

Shipment Value, Column (D) – Enter the dollar value, in whole dollars, of the entire shipment. The value should not include freight charges or excise taxes (i.e., report the net selling value, f.o.b. plant). If the value is not readily available from your records, please estimate.

Net Shipment Weight, Column (E) – Enter the net weight of the total shipment in whole pounds. If net weight is not readily available from your records, please estimate.

SCTG Commodity Code, Column (F) – Please use the list of commodity codes provided in the SCTG Commodity Codes booklet to select the proper code. For shipments with more than one commodity, enter only the code for the commodity with the greatest weight. For assistance in locating the appropriate commodity code, refer to the alphabetized listing of selected commodities at the end of the SCTG Commodity Codes booklet. Additional assistance is available at our website at www.census.gov/cfs, or you may call us at 1–800–772–7851 to speak with a Census Bureau representative.

Commodity Description, Column (G) – Enter a brief description of the commodity shipped. For shipments with more than one commodity, describe only the commodity with the greatest weight. Do not use trade names, catalog numbers, or other codes not familiar to persons outside your business.

Item F SHIPMENT CHARACTERISTICS

Line No. (A)	Your Shipment ID Number (B)	Shipment date (C) Month	Shipment date (C) Day	Shipment value (excluding shipping costs) in whole dollars *Estimates acceptable.* (D)	Net Shipment weight **in pounds** (E)	SCTG commodity code from accompanying booklet (F)	Commodity description (G)	*Continue with column (H) on page 5*
0	123-5	4	26	244,235	4840	34520	Mechanical machinery	➜
00	402H	4	26	1,375	50,125	20222	Sulfuric acid	➜
1								
2								
3								
4								

Item F: Shipment Characteristics – Continued

- **For Hazardous Materials, Column (H) –** If shipment is a hazardous material, enter the 4-digit United Nations (UN) or North American (NA) number.

- **U.S. Destination or U.S. Exit Port, Column (I) –** For domestic shipments, enter the city, state, and 5-digit ZIP Code of the buyer/receiver as it appears on the shipping document. Use the **"ship to"** address. Use the two letter state postal abbreviation shown in part III.

  Important – For export shipments, report the U.S. **port of exit** as the destination city. The port of exit is the port or airport from which the shipment left the country. In case of land shipments into Mexico or Canada, it is the border crossing.

- **Mode(s) of Transport to U.S. Destination, Column (J) –** Enter the code(s) for **all** modes of transport used for the shipment to its U.S. destination (i.e., the destination reported in **Column (I)**). Codes are located on the bottom of pages 5 and 7 of the questionnaire. Enter in the sequence used, all that apply. See part II for definitions of each mode.

  For Customer Pick-up: Report the mode(s) of transportation used, if known. Otherwise, report mode as "0" (unknown).

  For Export Shipments: List only the mode(s) of transport used to reach the U.S. port, airport, or border crossing of exit.

If a hazardous material, enter the "UN" or "NA" number (H)	U.S. destination or U.S. Exit Port *(Complete for all shipments.)* (I)			Mode(s) of transport to U.S. destination ***Enter all that apply in order used. Use codes at bottom.*** (J)
	City	State	ZIP Code	
	Los Angeles	C A	90040	2, 4
1 8 3 0	Newark	N J	07105	4

Item F: Shipment Characteristics – Continued

- **Intermodal Shipment, Column (K) –** An intermodal shipment is defined as a shipment of a commodity that has been placed within a piece of transportation equipment that is designed to be interchanged (transferred) between different modes of transportation under a single rate (e.g., a single bill of lading). Examples of intermodal transportation include the shipment of commodities in truck trailers designed to be placed on railroad flat cars (TOFC); shipping containers designed to be placed on railroad flat cars (COFC); or shipping containers for marine transportation. Intermodal (IM or ISO) tanks designed for interchange between the truck, rail and marine modes are also examples of intermodal transportation reportable in the CFS.
- **Export Shipment, Column (L) –** Indicate whether or not the shipment is intended for export outside of the United States, by entering a "Y" or "N" (yes or no). For purposes of this survey, shipments to Puerto Rico and U.S. territories and possessions **are** considered exports.
- **Foreign Destination: City and Country, Column (M) –** If the shipment is an export, enter the foreign city and country of destination. For **U.S. Destination, Column (I),** enter the U.S. port, airport, or border crossing of exit. In **Column (J),** enter the mode of transport used to the U.S. destination.
- **Export Mode, Column (N) –** If the shipment is an export, enter the code for the mode of transport by which the shipment left the country. Codes are located at the bottom of pages 5 and 7 of the questionnaire.

Intermodal Shipment? (Y/N)* (K)	Export? (Y/N) (L)	Foreign Destination (for export shipments only) **Note:** In column (I) enter the U.S. port, airport, or border crossing of exit. (M)		Export mode (N)	Line No. (O)
		City	Country		
Y	Y	Beijing	China	6	0
N	N				00
					1
					2
					3
					4

Item G: Monthly Value of Outbound Shipments

Please check the box that corresponds to the total value of all outbound shipments from this location for the most recently completed calendar month.

Contact

Please enter name and telephone number of the person to contact in the event that we have a question about your report.

Part II — Mode of Transportation Definitions

Parcel delivery/Courier/U.S. Parcel Post – Includes ground and air shipments of packages and parcels that each weigh less than 100 pounds, and are transported by a for-hire carrier.

Private truck – Trucks operated by employees of this establishment or the buyer/receiver of the shipment. Includes trucks providing dedicated services to this establishment.

For-hire truck – Shipments by common or contract carriers made under a negotiated rate.

Railroad – Any common carrier or private railroad.

Shallow draft vessel – Barges, ships, or ferries operating on rivers and canals; in harbors, the Great Lakes, the Saint Lawrence Seaway, the Intracoastal Waterway, the Inside Passage to Alaska, major bays and inlets, or in the ocean close to the U.S. shoreline.

Deep draft vessel – Barges, ships, or ferries operating primarily in the open ocean. (Shipping on the Great Lakes and the Saint Lawrence Seaway is classified with shallow draft vessels.)

Pipeline – Movements of oil, petroleum, gas, slurry, etc. through pipelines that extend to other establishments or locations beyond the shipper's establishment. (Aqueducts for the movement of water are not included.)

Air – Any individual package shipped by air that weighs 100 pounds or more.

Other mode – Any mode not listed above.

Unknown – A shipment where you are unable to determine the mode of transportation.

Note: Transportation equipment that is "shipped" under its own power, such as boats, barges, ferries, ships, aircraft, trucks, and trains **should be classified with the appropriate mode above.** Transportation equipment shipped under its own power for which an appropriate mode is not listed (e.g., buses, recreational vehicles) should be listed as **"other" mode.**

Part III — State Postal Abbreviation List

State	Abbrev.	State	Abbrev.
Alabama	AL	Montana	MT
Alaska	AK	Nebraska	NE
Arizona	AZ	Nevada	NV
Arkansas	AR	New Hampshire	NH
California	CA	New Jersey	NJ
Colorado	CO	New Mexico	NM
Connecticut	CT	New York	NY
Delaware	DE	North Carolina	NC
Dist. of Col.	DC	North Dakota	ND
Florida	FL	Ohio	OH
Georgia	GA	Oklahoma	OK
Hawaii	HI	Oregon	OR
Idaho	ID	Pennsylvania	PA
Illinois	IL	Rhode Island	RI
Indiana	IN	South Carolina	SC
Iowa	IA	South Dakota	SD
Kansas	KS	Tennessee	TN
Kentucky	KY	Texas	TX
Louisiana	LA	Utah	UT
Maine	ME	Vermont	VT
Maryland	MD	Virginia	VA
Massachusetts	MA	Washington	WA
Michigan	MI	West Virginia	WV
Minnesota	MN	Wisconsin	WI
Mississippi	MS	Wyoming	WY
Missouri	MO		

NOTICE :
Public reporting burden for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to: Paperwork Project 0607-0932, U.S. Census Bureau, 4700 Silver Hill Road, Stop 1500, Washington, DC 20233-1500. You may e-mail comments to Paperwork@census.gov; use "Paperwork Project 0607-0932" as the subject. Respondents are not required to respond to any information collection unless it displays a valid approval number in the top right corner on the front of the questionnaire.

U.S. DEPARTMENT OF COMMERCE
Economics and Statistics Administration
U.S. CENSUS BUREAU

FORM
CFS(07)-2000
(10-02-2006)

2007 Commodity Flow Survey

07200017

DUE DATE:

YOUR RESPONSE IS REQUIRED BY LAW. Title 13, United States Code, requires businesses and other organizations that receive this questionnaire to answer the questions and return the report to the U.S.Census Bureau. By the same law, **YOUR REPORT IS CONFIDENTIAL.** It may be seen only by persons sworn to uphold the confidentiality of Census Bureau information and may be used only for statistical purposes. Further, copies retained in respondents' files are immune from legal process.

Please make corrections to name, address, and ZIP code if necessary.

INSTRUCTIONS:

- **Please refer to the accompanying Instruction Guide for help in answering specific questions.**
- **More information is available at www.census.gov/cfs or at 1-800-772-7851.**

PURPOSE OF THIS SURVEY: To develop information on the characteristics of freight flows in the United States. The information you provide is critical to understanding transportation markets, investment needs and the economic, energy, safety, and security consequences of transportation.

Item A ESTABLISHMENT NAME

Is the establishment name shown above in the mailing address correct?

1 ☐ Yes

2 ☐ No - *Enter establishment name* →

Item B PHYSICAL LOCATION

Is the establishment's physical location the same as shown in the mailing label above? *PO Box or rural routes are not physical locations.*

1 ☐ Yes

2 ☐ No - *Print physical location below*

Number and street

City, town, village, etc. | State | ZIP Code + 4 -

If you entered a different location above, please complete the form for that location.

Item C OPERATING STATUS

Which of the following best describes this establishment's operating status during the week of

?

1 ☐ In operation

2 ☐ Temporarily or seasonally inactive

3 ☐ Ceased operation - *Enter date ceased operation* → Date (MM-DD-YYYY) ___ - ___ - ___

Item D TOTAL NUMBER OF OUTBOUND SHIPMENTS

For this survey, it is important to obtain information about a sample of the outbound shipments made from this establishment.

An outbound shipment in this survey is defined as a movement of commodities from your establishment to another ***single*** *location. If a truck makes multiple stops on a delivery route, please* ***count each stop as one shipment.***

- Remember to include only outbound shipments from your physical location (label address or physical location in Item B).
- Also include customer pick-ups, parcels, and all other outbound shipments.

1. What was the total number of all outbound shipments for this establishment the week of

? . . . . . Total number of outbound shipments

Estimates are acceptable.

For further information, refer to the Instruction Guide, page 2.

2. Did you enter 40 or fewer shipments above?

1 ☐ Yes - *Skip Item E and report all outbound shipments in Item F, pages 4-7.*

2 ☐ No - *Continue with Item E, on page 3.*

Item E SAMPLING INSTRUCTIONS

In order to avoid asking you for information regarding all of your shipments, we will only ask about a sample of them. This section will help you **identify your sample of shipments.**

1. Using the table below, mark the row that includes the total number of outbound shipments reported in Item D, and the corresponding "report every" number.

Number of outbound shipments reported in Line 1	Report every...	Mark (X) one
1-40	Report every outbound shipment	
41-80	Report every **2nd** outbound shipment	
81-100	Report every **3rd** outbound shipment	
101-200	Report every **5th** outbound shipment	
201-400	Report every **10th** outbound shipment	
401-800	Report every **20th** outbound shipment	
801-1600	Report every **40th** outbound shipment	
1601-3200	Report every **80th** outbound shipment	
3201-6400	Report every **160th** outbound shipment	
6401-12800	Report every **320th** outbound shipment	
More than 12800	Call Census at 1-800-772-7851 or go to www.census.gov/cfs	

2. Using your full set of shipments records for the week named in Item D, follow the steps below.

Step 1. Count until you reach the "report every" number marked above.
Step 2. Select that record.
Step 3. Report that record in Line 1 of Item F, pages 4-5.
Step 4. Continuing with the next shipment record, count until you reach the "report every" number again.
Step 5. Select that record.
Step 6. Report in Line 2 of Item F, pages 4-5.
Step 7. Repeat this process until you have gone through your full set of shipment records.

3. Report these selected shipments in Item F.

Example: If an establishment reported 150 shipments in Item D, it would correspond to the range of 101-200 in the table above, and every 5th outbound shipment record would be selected. This means the establishment would count 5 shipment records, select that record, and report it in Item F. Continuing with the next shipment record, the establishment would count 5 shipment records again, select that record, and report it in Item F. The establishment would repeat this until it had gone through the full set of shipment records for the week named in Item D.

For further information, refer to the Instruction Guide, page 3.

Item F SHIPMENT CHARACTERISTICS

NOTE: Each line runs across pages 4 and 5. After entering column H data on page 4 for any line, continue with column (I) on page 5 for the same line.

Line No. (A)	Your Shipment ID Number (B)	Shipment Date (C) Month	Shipment Date (C) Day	Shipment value (excluding shipping costs) in whole dollars. *Estimates acceptable.* (D)	Net Shipment Weight **in pounds** (E)	SCTG commodity code from accompanying booklet (F)	Commodity Description (G)	If a hazardous material, enter the "UN" or "NA" number (H)	*Continue with column (I) on page 5*
0	**123-5**	**4**	**26**	**224,235**	**4840**	**34520**	**Mechanical machinery**		→
00	**402H**	**4**	**26**	**1,375**	**50,125**	**20222**	**Sulfuric acid**	**1830**	→
1									→
2									→
3									→
4									→
5									→
6									→
7									→
8									→
9									→
10									→
11									→
12									→
13									→
14									→
15									→
16									→
17									→
18									→
19									→
20									→

U.S. Destination or U.S. Exit Port *(Complete for all shipments.)* (I)			Mode(s) of transport to U.S. destination. ***Enter all that apply in order used. Use codes at bottom.*** (J)	Intermodal shipment? (Y/N) * (K)	Export? (Y/N) (L)	Foreign Destination (for export shipments only) **Note:** In column (I) enter the U.S. port, airport, or border crossing of exit. (M)		Export mode (N)	Line No. (O)
City	State	ZIP Code				City	Country		
Los Angeles	**CA**	**90040**	**2, 4**	**Y**	**Y**	**Beijing**	**China**	**6**	0
Newark	**NJ**	**07105**	**4**	**N**	**N**				00
									1
									2
									3
									4
									5
									6
									7
									8
									9
									10
									11
									12
									13
									14
									15
									16
									17
									18
									19
									20

Mode of transport codes for columns (J) and (N):

1 - Parcel delivery, courier, or U.S. Parcel Post
2 - Private truck
3 - For-hire truck
4 - Railroad
5 - Shallow draft vessel
6 - Deep draft vessel
7 - Pipeline
8 - Air
9 - Other mode
0 - Unknown

* **Intermodal shipments (column K):** include Trailer on Flat Car (TOFC), Container on Flat Car (COFC), and Intermodal (IM or ISO) tank.

Item F SHIPMENT CHARACTERISTICS - Continued

NOTE: Each line runs across pages 6 and 7. After entering column H data on page 6 for any line, continue with column (I) on page 7 for the same line.

Line No. (A)	Your Shipment ID Number (B)	Shipment Date (C) Month	Shipment Date (C) Day	Shipment value (excluding shipping costs) in whole dollars. *Estimates acceptable.* (D)	Net Shipment Weight **in pounds** (E)	SCTG Commodity Code from accompanying booklet (F)	Commodity Description (G)	If a hazardous material, enter the "UN" or "NA" (H)	*Continue with column (I) on page 7*
21									→
22									→
23									→
24									→
25									→
26									→
27									→
28									→
29									→
30									→
31									→
32									→
33									→
34									→
35									→
36									→
37									→
38									→
39									→
40									→

U.S.Destination or U.S. Exit Port *(Complete for all shipments.)* (I)			Mode(s) of transport to U.S. destination. ***Enter all that apply in order used. Use codes at bottom.***	Intermodal shipment? (Y/N) *	Export? (Y/N)	Foreign Destination (for export shipments only) **Note:** In column (I) enter the U.S. port, airport, or border crossing of exit. (M)		Export mode	Line No.
City	State	ZIP Code	(J)	(K)	(L)	City	Country	(N)	(O)
									21
									22
									23
									24
									25
									26
									27
									28
									29
									30
									31
									32
									33
									34
									35
									36
									37
									38
									39
									40

Mode of transport codes for columns (J) and (N):

1 - Parcel delivery, courier, or U.S. Parcel Post
2 - Private truck
3 - For-hire truck
4 - Railroad
5 - Shallow draft vessel
6 - Deep draft vessel
7 - Pipeline
8 - Air
9 - Other mode
0 - Unknown

* **Intermodal shipments (column K):** include Trailer on Flat Car (TOFC), Container on Flat Car (COFC), and Intermodal (IM or ISO) tank.

Item G MONTHLY VALUE OF OUTBOUND SHIPMENTS

Which of the following represents your best estimate of the total value of all outbound shipments originating from this establishment for the most recently completed month?

1 ☐ Less than $1 Million
2 ☐ $1 Million or more but less than $10 Million
3 ☐ $10 Million or more but less than $40 Million
4 ☐ $40 Million or more but less than $100 Million
5 ☐ $100 Million or more but less than $400 Million
6 ☐ $400 Million or more

Item H THIRD-PARTY LOGISTICS

The next series of questions relates to your use of third-party logistics providers (3PLs).

*A 3PL is **not** a contractor who provides only basic logistics services, such as common carrier trucking and/or public warehousing.*

Rather, a 3PL is a contractor that manages and arranges for the provision of multiple logistics services, including freight forwarding, customs brokerage, contract warehousing, transportation, etc.

1. Does this establishment contract out all or a portion of its logistics activities to a 3PL(s)?

1 ☐ Yes 2 ☐ No - *Go to Contact below.*

2. Which of the following services does the 3PL(s) provide, manage and arrange for this establishment? *Mark (X) all that apply.*

1 ☐ Transportation
2 ☐ Contract warehousing
3 ☐ Cross-docking
4 ☐ Re-packing/consolidation
5 ☐ Reverse Logistics
6 ☐ Management of overall transportation and logistics functions (including dedicated trucking services)
7 ☐ Customs brokerage
8 ☐ Freight forwarding
9 ☐ Inventory control and/or management
10 ☐ Information systems

3. Which of the following best represents the percentage of this establishment's outbound shipments (by weight) which was shipped with the involvement of a 3PL(s) during the last 12 months?

1 ☐ 1 to 25% 2 ☐ 26 to 50% 3 ☐ 51 to 75% 4 ☐ 76 to 100%

Contact Please provide the information below for the contact person regarding this report.

Name - *Please print*

Title - *Please print*

Signature

Area Code - Phone Number - Extension

Please return this survey in the enclosed envelope or send it to:
U.S. CENSUS BUREAU
1201 East 10th Street
Jeffersonville IN 47132-0001

THANK YOU FOR COMPLETING THIS REPORT.