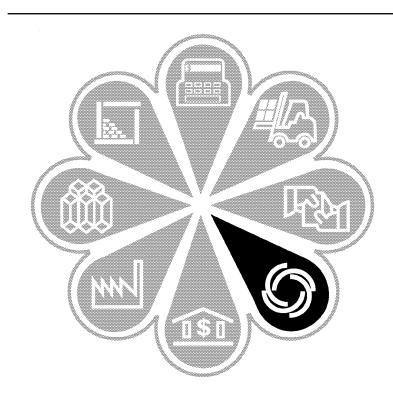
1992

Census of Transportation, Communications, and Utilities

TC92-CF-28

1993 COMMODITY FLOW SURVEY

Nebraska



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Inquiries concerning this report should be addressed to the Commodity Flow Survey Branch, Services Division, Washington, DC 20233, telephone 301-457-2788 or 301-457-2114.

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U.S. Department of Transportation Federico Peña, Secretary Mortimer L. Downey, Deputy Secretary

BUREAU OF TRANSPORTATION STATISTICS
T. R. Lakshmanan, Director
Rolf R. Schmitt, Associate Director for
Analysis and Data Development



U.S. Department of Commerce Michael Kantor, Secretary

Economics and Statistics Administration
Everett M. Ehrlich, Under Secretary
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Economics and Statistics
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for Economic Affairs



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John P. Govoni, Chief

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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.

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

Policymaking agencies of the Federal Government use the data, especially in monitoring economic activity and providing assistance to business.

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 and 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.

AUTHORITY AND SCOPE

Title 13 of the United States Code (sections 131, 191, and 224) directs the Census Bureau to take the economic census every 5 years, covering years ending in 2 and 7. The 1992 Economic Census consists of the following eight censuses:

- · Census of Retail Trade
- · Census of Wholesale Trade
- Census of Service Industries
- · Census of Financial, Insurance, and Real Estate Industries
- · Census of Transportation, Communications, and Utilities
- · Census of Manufactures
- · Census of Mineral Industries
- Census of Construction Industries

Special programs also cover enterprise statistics and minority-owned and women-owned businesses. (The 1992 Census of Agriculture and 1992 Census of Governments are conducted separately.) The next economic census is scheduled to be taken in 1998 covering the year 1997.

AVAILABILITY OF THE DATA

The results of the economic census are available in printed reports for sale by the U.S. Government Printing Office and on compact discs for sale by the Census Bureau (this report excluded). Order forms for all types of products are available on request from Customer Services, Bureau of the Census, Washington, DC 20233-8300. A more complete description of publications being issued from this census is on the inside back cover of this document.

Census facts are also widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. Finally, State data centers in every State as well as business and industry data centers in many States also supply economic census statistics.

WHAT'S NEW IN 1992

The 1992 Economic Census covers more of the economy than any previous census. New for 1992 are data on communications, utilities, financial, insurance, and real estate, as well as coverage of more transportation industries. The economic, agriculture, and governments censuses now collectively cover nearly 98 percent of all economic activity.

Among other changes, new 1992 definitions affect the boundaries of about a third of all metropolitan areas. Also, the Survey of Women-Owned Businesses has now been expanded to include all corporations.

HISTORICAL INFORMATION

The economic census has been taken as an integrated program at 5-year intervals since 1967 and before that for 1963, 1958, and 1954. Prior to that time, the individual subcomponents 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 1840 and subsequent censuses to include mining and some commercial activities. In 1902, Congress established a permanent Census Bureau and directed that a census of manufactures be taken every 5 years. The 1905 Manufactures Census was the first time a census was taken apart from the regular every-10-year population census.

The first census of business was taken in 1930, covering 1929. Initially it covered retail and wholesale trade and construction industries, but it was broadened in 1933 to include some of the service trades.

The 1954 Economic Census was the first census to be fully integrated—providing comparable census data across economic sectors, 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 also have been used to provide basic statistics for very small firms, reducing or eliminating the need to send them census questionnaires. The Enterprise Statistics Program, which publishes combined data from the economic census, was made possible with the implementation of the integrated census program in 1954.

The range of industries covered in the economic censuses has continued to expand. The census of construction industries began on a regular basis in 1967, and the scope of service industries was broadened in 1967, 1977, and 1987. The census of transportation began in 1963 as a set of surveys covering travel, transportation of commodities, and trucks, but expanded in 1987 to cover business establishments in several transportation industries. For 1992, these statistics are incorporated into a broadened census of transportation, communications, and utilities. Also new for 1992 is the census of financial, insurance, and real estate industries. This is part of a gradual expansion in coverage of industries previously subjected to government regulation.

The Survey of Minority-Owned Business Enterprises was first conducted as a special project in 1969 and was incorporated into the economic census in 1972 along with the Survey of Women-Owned Businesses.

An economic census has also been taken in Puerto Rico since 1909, in the Virgin Islands of the United States and Guam since 1958, and in the Commonwealth of the Northern Mariana Islands since 1982.

Statistical reports from the 1987 and earlier censuses provide historical figures for the study of long-term time series and are available in some large libraries. All of the census data published since 1967 are still available for sale on microfiche from the Census Bureau.

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

While the census provides complete enumerations every 5 years, there are many needs for more frequent data as well. The Census Bureau conducts a number of monthly, quarterly, and annual surveys, with the results appearing in publication series such as Current Business Reports (retail and wholesale trade and service industries), the Annual Survey of Manufactures, Current Industrial Reports, and the Quarterly Financial Report. Most of these surveys, while providing more frequent observations, yield less kind-of-business and geographic detail than the census. The County Business Patterns program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county.

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the *Guide to the 1992 Economic Census and Related Statistics*. More information on the methodology, procedures, and history of the census will be published in the *History of the 1992 Economic Census*. Contact Customer Services for information on availability.

1993 Commodity Flow Survey

GENERAL

The 1993 Commodity Flow Survey (CFS) provides data on the movement of goods by mode of transportation. These are the first data of this type published by the Census Bureau since the 1977 Commodity Transportation Survey (see appendix A for a comparison to previous surveys). The data from the CFS are in great demand by transportation analysts and decision makers as they work towards improving the transportation infrastructure.

This report presents data at the State level. There are reports for each of the 50 States and the District of Columbia. The next series of reports to be released will be at the National Transportation Analysis Region (NTAR). There are 89 NTAR's representing one or more Bureau of Economic Analysis economic areas. A final United States Summary report, reflecting all revisions based on the geographic level analyses, will follow these reports.

COVERAGE

This sample survey produced measures of the movement of goods by major type of commodity shipped and mode(s) of transportation used.

The 1993 CFS covered establishments in mining, manufacturing and wholesale trade, and selected retail and service industries. The survey also covered selected auxiliary establishments (e.g., warehouses) of in-scope multiunit and retail companies. The survey coverage excluded establishments classified as farms, forestry, fisheries, oil and gas extraction, governments, construction, transportation, households, foreign establishments, and most establishments in retail and services.

The industries covered, as defined in the Standard Industrial Classification Manual: 19871 (SIC), are listed in the following table:

Title

SIC code

^{10,} ex. 108 Metal mining (excluding metal mining services) 12, ex. 124 Coal mining (excluding coal mining services) 14, ex. 148 Mining and quarrying of nonmetallic minerals, except fuels (excluding nonmetallic minerals services) 20 Food and kindred products 21 Tobacco products 22 Textile mill products 23 Apparel and other finished products made from fabrics and similar materials 24 Lumber and wood products, except furniture 25 Furniture and fixtures 26 Paper and allied products 27, ex. 279 Printing, publishing, and allied industries (excluding service industries for the printing trade) 28 Chemicals and allied products 29 Petroleum refining and related industries 30 Rubber and miscellaneous plastics products 31 Leather and leather products 32 Stone, clay, glass, and concrete products 33 Primary metal industries 34 Fabricated metal products, except machinery and transportation equipment 35 Industrial and commercial machinery and computer equipment 36 Electronic and other electrical equipment and components, except computer equipment 37 Transportation equipment 38 Measuring, analyzing, and controlling instruments; photographic, medical and optical goods; watches and clocks 39 Miscellaneous manufacturing industries 50 Wholesale trade—durable goods 51 Wholesale trade—nondurable goods 596 Catalog and mail-order houses 782 Motion picture and video tape distribution

¹Standard Industrial Classification Manual: 1987. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

The source of the frame used for sampling in 1992 was the Standard Statistical Establishment List (SSEL) of separate business locations with paid employees, maintained by the Census Bureau. Establishments in these trade areas that had non-zero payroll in at least one quarter of 1991 were included in the sampling frame of approximately 800.000 establishments.

MILEAGE CALCULATIONS

The Center for Transportation Analysis (CTA) at Oak Ridge National Laboratory (ORNL) developed an integrated transportation network modeling system to compute shipment mileages for the 1993 CFS. To enable ORNL to compute mileages, the Census Bureau provided files containing ZIP Code origin and destination pairs for all reported shipments. To maintain confidentiality of reported data, no information other than ZIP Codes was provided. A ZIP Code pair was provided only once, regardless of the number of shipments that moved between ZIP Codes. To further protect confidentiality, the Census Bureau also included dummy pairs of ZIP Code origin and destination in the file sent to ORNL. The ORNL system used these five-digit ZIP Codes of the shipment's origin and destination, as input, and assumed the actual origin and destination points to be geographically located at the ZIP Code centroids. The system computed mileages, by mode, for all single modes and selected mode combinations for those ZIP Code pairs we sent to ORNL. The mileages between the origin-destination ZIP Code centroids were computed by finding the minimum impedance path over mathematical representations of the highway, rail, waterway, air, and pipeline networks and summing the lengths of individual links on these paths. Impedance is computed as a weighted combination of distance, time, and cost factors.

The ORNL mileage network is composed of individual modal-specific networks representing each of the major transportation modes - highway, rail, waterway, air, and pipeline. The links on these specific modal networks are the representation of line-haul transportation facilities. The nodes represent intersections and interchanges, and the access points to the transportation network. For each five-digit ZIP Code, dummy links are created from the ZIP Code centroid to the nodes on the network to simulate local access to the network with the objective being to locate the nodes on the network that are the closest to the given centroid. For the truck network, local access is assumed to exist everywhere; however, for the other modes this is not true. Before any dummy links are created for these modes, a decision is made about whether the mode is accessible from the ZIP Code region. For shipments involving more than one mode, such as truck-rail or rail-water, links connecting the individual modal networks are created to represent the transfer of freight between modes. A measure of link impedance is calculated for each link in each modal network based on various link characteristics for the specific mode. For example, the set of link characteristics for the highway network included divided or

undivided roadway, degree of access control, rural or urban setting, type of pavement, number of lanes, degree of urban congestion, and length of the link. Link impedance measures are also assigned to the local access links. A minimum path algorithm is used to find the minimum impedance path between the origin ZIP Code centroid and the destination ZIP Code centroid. The cumulative length of the links on this path is the shipment distance.

DISCLOSURE RULES

In accordance with Federal law governing census reports, no data are published that would disclose the operations of an individual firm or establishment.

ABOUT THE DATA

This section summarizes key points about the data that will aid the user in analyzing and interpreting the tables contained in this report.

Coverage Considerations

The CFS captured data on shipments originating from selected types of business establishments located in the 50 States and the District of Columbia. The data do not cover shipments originating from business establishments located in Puerto Rico and other U.S. possessions and territories. Shipments traversing the U.S. 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. Imported products were included in the CFS at the point that they left the importer's domestic location for shipment to another location. Shipments that were shipped through a foreign territory with both the origin and destination in the U.S. were 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 mileages for Canada). Export shipments were included, with the domestic destination defined as the port of exit from the U.S.

The "Coverage" section of this report lists the SIC groups covered by the CFS. Other industry areas that were not covered, but may have significant shipping activity, include agriculture, government, and retail (other than warehouses and SIC 5961, Catalog and Mail-Order Houses). For agriculture specifically, this means that the CFS did not cover shipments of agricultural products from the farm site to the processing centers or terminal elevators (most likely short-distance local movements), but did cover the shipments of these products from the initial processing centers or terminal elevators onward.

Within mining, the CFS did not cover shipments from establishments in SIC 13, Oil and Gas Extraction. The majority of these establishments had undeliverable mailing addresses, and due to the mailout/ mailback approach for CFS, could not be included. Therefore, the CFS data do not represent complete, or even primary, coverage of crude petroleum, or natural gas shipments. The CFS data most affected by this, other than data for these specific commodities, are data for the pipeline and water modes, given that a significant percentage of the total tonnage moving by these modes are from crude petroleum and/ or natural gas.

Mileage Data for Pipeline Shipments

In the tables, we do not show ton-miles or average miles per shipment for pipeline shipments. 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 totals for ton-miles and average miles per shipment.

Average Miles Per Shipment

For our calculation of average miles per shipment (tables 1, 2, 4, 5, and 6) we excluded shipments of STCC 27, Printed Matter.

When transporting newspapers, magazines, catalogs, etc., there is great variation in the meaning of "shipment". A truckload of magazines traveling to a distribution point may be viewed as one shipment or, as each magazine will eventually be delivered to individual subscribers, thousands of shipments. To avoid overstating the impact of short distance shipments of products in STCC 27, we excluded shipments of STCC 27 from our calculation of average miles.

All other variables in the tables (value, tons, and tonmiles) include shipments of STCC 27.

EXPLANATION OF TERMS

Commodity. Item that an establishment produces, sells, or distributes. This does not include items that are considered as excess or byproducts of the establishment's operation. Respondents reported the description and the five-digit STCC code for the **major** commodity contained in the shipment, defined as the commodity with the greatest weight in the total shipment.

Distance shipped. In table 3, shipment data are presented for various "distance shipped" intervals. Shipments were categorized into these "distance shipped" intervals based on the great circle distance between their

origin and destination ZIP Code centroids. All other distancerelated data in the tables (i.e., ton-miles and average miles per shipment) are based on the mileage calculations produced by Oak Ridge National Laboratories (see the "Mileage Calculations" section for more details).

Great circle distance. The shortest distance between two points on the earth's surface.

Mode of transportation. The type of transportation used for moving the shipment to its domestic destination. For exports, the domestic destination was the port of exit. On the questionnaire, we defined the possible modes as follows:

- Parcel, U.S. Postal Service, or courier. Delivery services that carry letters, parcels, packages, and other small shipments that typically weigh less than 100 pounds. Includes bus parcel delivery service.
- Private truck. Trucks operated by a temporary or permanent employee of an establishment or the buyer/ receiver of the shipment.
- 3. **For-hire truck.** Trucks that carry freight for a fee collected from the shipper, recipient of the shipment, or an arranger of the transportation.
- 4. Railroad. Any common carrier or private railroad.
- 5. Inland water and/ or Great Lakes. Barges, ships, or ferries operating primarily on rivers and canals; on harbors, the Great Lakes, the Saint Lawrence Seaway; the Intracoastal Waterway, the Inside Passage to Alaska, major bays and inlets; or on the ocean close to the shoreline.
- 6. **Deep sea water.** Barges, ships, or ferries operating primarily on the open ocean. Shipping on the Great Lakes and the Saint Lawrence Seaway is classified with inland water. [**Note:** As part of the mileage calculation operations, deep sea water shipments were reclassified to more accurately reflect a shipment's route rather than vessel type. Therefore, in the tables, "deep sea water" as a single mode describes shipments moving **only** on the open waters of the oceans or the Gulf of Mexico. Using this definition, deep sea as a single mode (i.e., without an inland water component) is nearly impossible. Most shipments moving primarily on the open ocean are tabulated under "inland water and deep sea."]
- 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.

- 8. **Air.** Movements using commercial or private aircraft, and all air service for shipments that typically weigh more than 100 pounds. Includes air freight and air express.
- 9. Other mode. Any mode not listed above.
- Mode unknown. The shipment was not carried by a parcel delivery/ courier/ U.S. Postal Service, and the respondent could not determine what mode of transportation was used.

In the tables, the above modes appear, as well as the following additional mode descriptions:

- 1. **Single modes.** Shipments using only one of the above-listed modes, except other and unknown.
- 2. **Multiple modes.** Shipments for which two or more of the following modes of transportation were used:
 - a. Private truck.
 - b. For-hire truck.
 - c. Air.
 - d. Rail.
 - e. Inland water.
 - f. Great Lakes.
 - g. Deep sea water.
 - h. Pipeline.

We did not allow for multiple modes in combination with "parcel delivery, U.S. Postal Service, or courier", "unknown", or "other", which, by their nature, may already include various kinds of multiple-mode activity. For example, if the respondent reported a shipment's mode of transportation as parcel and air, we treated the shipment as parcel only.

- Other modes. Shipments for which mode was not reported, or was recorded as "Other" or "Unknown." Also, shipments using any other mode or mode combinations not specifically listed in the table.
- 4. **Truck.** For-hire truck and/ or private truck.
- 5. **Water.** Inland water and/ or Great Lakes and/ or deep sea water.
- 6. Great Lakes. On the questionnaire, "Inland water and/ or Great Lakes" appeared as one mode. In the tables in this publication, "Great Lakes" appears as a separate mode. The transportation network and mileage calculation system that Oak Ridge National Laboratories developed for this survey allowed for separate mileage calculations for inland water and Great Lakes between the origin and destination ZIP Codes (see the "Mileage Calculations" section for more details). Therefore, a shipment reported as using inland water and/ or

Great Lakes can appear in the tables as a single mode inland water shipment, or a single mode Great Lakes shipment, or a multiple mode inland water and Great Lakes shipment.

7. Inland water. On the questionnaire, "Inland water and/ or Great Lakes" appeared as one mode. In the tables in this publication, "Inland water" appears as a separate mode. See the "Great Lakes" section above for the explanation.

Shipment. A shipment (or delivery) is an individual movement of commodities from an establishment to a customer or to another location of the originating company (including a warehouse, distribution center, retail or wholesale outlet). A shipment uses one or more modes of transportation including parcel delivery, U.S. Postal Service, courier, private truck, for-hire truck, rail, water, pipeline, air, and other modes.

Standard Transportation Commodity Classification (STCC).

A commodity coding system that the Association of American Railroads developed and maintains. The 1993 Commodity Flow Survey used this classification system at the five-digit level.

Ton-miles. The weight times the mileage for a shipment. The respondents reported shipment weight in pounds, as described below. Mileage was calculated as the distance between the shipment origin and destination ZIP Codes. For shipments by truck, rail, or inland water/ Great Lakes, the mileage excludes international segments. For example, mileages from Alaska to the continental United States exclude any mileages through Canada (see the "Mileage Calculations" section for more details). Aggregated poundmiles were converted to ton-miles. The tables in this publication show ton-miles in millions.

Tons shipped. The total weight of the entire shipment. Respondents reported the weight in pounds. Aggregated pounds were converted to short-tons (2,000 pounds). The tables in this publication show tons in thousands.

Total modal activity. The overall activity (e.g., ton-miles) of a specific mode of transportation, whether used in a single-mode shipment, or as part of a multiple-mode shipment. For example, the total modal activity for private truck is the total ton-miles carried by private truck in single-mode shipments, combined with the total ton-miles carried by private truck in all multiple-mode shipments that include private truck (private truck and for-hire truck, private truck and rail, private truck and air, etc.). "Total modal activity" appears in table 2 of this publication.

Value of shipments. The dollar value of the entire shipment. This was defined as the net selling value, f.o.b. plant, exclusive of freight charges and excise taxes. The tables in this publication show value in millions of dollars.

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ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

- Represents zero or less than 1 unit of measure.
- (D) Denotes figures withheld to avoid disclosing data for individual companies.
- (S) Data do not meet publication standards due to high sampling variability or other reasons.

CFS Commodity Flow Survey.

CTS Commodity Transportation Survey.

CV Coefficient of Variation.

lb Pounds.

N.E.C. Not Elsewhere Classified.

NTAR National Transportation Analysis Region.

SIC Standard Industrial Classification.

SSEL Standard Statistical Establishment List.

STCC Standard Transportation Commodity Classifi-

Users' Guide for Locating Statistics in This Report by Table Number

	Tables							
Information shown in tables	1	2	3	4	5	6	7	
Value	X X X	X X	X X X	X X X	X X X	X X X	X X X	
Mode of transportation. Distance shipped. Shipment size. Commodity. State of destination.	Х	Х	X X	x x	×	x x	X	

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Table 1. Shipment Characteristics by Mode of Transportation for State of Origin: 1993

[For explanation of terms and meaning of abbreviations and symbols, see introductory text. Detail may not add to total because of rounding]

	Value Tons Ton-miles ¹			miles ¹			
Mode of transportation	Number (million dollars)	Percent	Number (thousands)	Percent	Number (millions)	Percent	Average miles per shipment ¹
All modes	42 534	100.0	97 992	100.0	50 324	100.0	570
SINGLE MODES							
Parcel, U.S. Postal Service, or courier	2 937 11 622 22 546 (S)	6.9 27.3 53.0 –	149 37 683 26 561 –	.2 38.5 27.1 –	100 2 848 7 772 -	.2 5.7 15.4 –	938 48 441 (S)
Rail Inland water Great Lakes Deep sea water Pipeline ²	4 223 (D) - -	9.9 (D) - -	30 213 (D) - - -	30.8 (D) - - -	35 268 (D) - - -	70.1 (D) - - -	984 (D) - - -
MULTIPLE MODES							
Private truck and for-hire truck	(S) 150 216 (D)	- .4 .5 (D)	(S) 5 156 (D)	- - .2 (D)	(S) 6 167 (D)	- - .3 (D)	(S) 1 180 1 194 (D)
Truck and pipeline ²	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -
OTHER MODES							
Other and unknown modes	538	1.3	806	.8	207	.4	102

Note: "Deep sea water" as a single mode describes shipments moving only on the open waters of the oceans or the Gulf of Mexico. Most shipments moving primarily on the open ocean are tabulated under "Inland water and deep sea".

Table 2. Shipment Characteristics by Total Modal Activity for State of Origin: 1993

[For explanation of terms and meaning of abbreviations and symbols, see introductory text. Detail may not add to total because of rounding]

	Ton-r		
Mode of transportation ¹	Number (millions)	Percent	Average miles per shipment ²
Total	50 324	100.0	570
Parcel, U.S. Postal Service, or courier, total Truck, total	100 10 644 6 35 416 (S)	.2 21.2 - 70.4 (S)	938 107 1 089 988 (S)
Great Lakes, total Deep sea water, total Pipeline, total Other and unknown modes, total	(S) 207	- - - .4	(S) 102

Represents zero or less than 1 unit of measure.

⁽D) Denotes figures withheld to avoid disclosing data for individual companies.

(S) Data do not meet publication standards due to high sampling variability or other reasons. Some unpublished estimates can be derived by subtracting published data from their respective totals. However, the figures obtained by such subtraction are subject to these same limitations.

¹Average miles and ton-miles are based on the estimated distance traveled, not on Great Circle Distance. See the "Mileage Calculations" section of this report for further explanation. Calculation of average miles per shipment excludes shipments of STCC 27, Printed Matter. See "About the Data" section of this report for further explanation.

²CFS data for pipelines exclude most shipments of crude oil. See "About the Data" section for details of CFS coverage.

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 Some unpublished estimates can be derived by subtracting published data from their respective totals.
 However, the figures obtained by such subtraction are subject to these same limitations.

¹Data represent activity for a given mode across single and multiple mode shipments. For example, total truck activity includes private truck and/ or for-hire truck single mode combined with private and for-hire truck segments of all multiple mode trips including truck.

²Average miles and ton-miles are based on the estimated distance traveled, not on Great Circle Distance. See the "Mileage Calculations" section of this report for further explanation. Calculation of average miles per shipment excludes shipments of STCC 27, Printed Matter. See "About the Data" section of this report for further explanation.

Table 3. Shipment Characteristics by Mode of Transportation and Distance Shipped for State of Origin: 1993

[For explanation of terms and meaning of abbreviations and symbols, see introductory text. Detail may not add to total because of rounding]

Number N		Value	·	То	ns	Ton-r	miles ¹
Total Less than 50 miles 9 127 20 4 29 300 132 6 56 6 56 6 50 10 10 10 10 10 10 10 10 10 10 10 10 10	Mode of transportation and distance shipped (based on Great Circle Distance)		Percent		Percent		Percent
Less band to livelies	ALL MODES						
\$2 bits of miles	Total	42 534	100.0	97 992	100.0	50 324	100.0
150 to 240 miles							1.9
500 part of the comment 5 and 10 part						2 168	1.1 4.3
750 to 980 miles				10 543			9.9
1,000 to 1,496 miss 9,266							6.9
3,000 to 1,000 miles 90							22.5 53.3
SHOLE MODES Pared. U.S. Postal Service, or counter 2 937 Pared. U.S. Postal Service, or counter 2 29 76 2 1 44 1 100 to 246 mine 4 20 14.3 100 120 14.4 110 100 120 14.4 110 100 120 13.5 15 10 15 15 15 15 15 15 15 15 15 15 15 15 15	1,500 to 1,999 miles				_		.1 (S)
Percent U.S. Potental Services, or countries 2 537 190.0 140 150.0 100				(=)		(-)	(-)
Less than 50 miles		2 027	100.0	140	400.0	400	100.0
25 to 90 miles	·					100	100.0 .5
250 to 499 miles	50 to 99 miles	232		12		1	1.1
1.00 1.00							4.0 10.4
1,000 to 1,495 miles	500 to 749 miles			20			15.0
1,500 to 1,950 miles 1							16.6
2,000 miles or more 1					23.9	51	51.1 .9
Less ban 50 miles		4		<u> </u>	(S)	<u> </u>	(S)
1	Private truck	11 622	100.0	37 683	100.0	2 848	100.0
100 10 249 miles							19.7
Sol to 749 miles Sol to 749 miles Sol to 749 miles 149							8.6 17.0
148							14.5 (S)
1,000 to 1,499 miles					, ,	` '	2.9
Cooperation	1,000 to 1,499 miles	476		296			14.1
For-hie truck		(S)	<u>-</u>	(S)	-	_	-
Less than 50 miles		22 546	100.0	26 561	100.0	7 772	100.0
\$50 to 99 miles							4.7
250 to 498 miles	50 to 99 miles	1 284	5.7	2 973	11.2	276	3.6
750 to 999 miles							13.3 17.7
1,000 to 1,499 miles	500 to 749 miles	3 449	15.3	1 513	5.7	1 119	14.4
1,500 to 1,999 miles							14.5 31.4
Air	1,500 to 1,999 miles						.4
Less than 50 miles		_	_	-	_	-	_
50 to 99 miles		(S)	(S)		(S)	-	(S)
Description		_	_		-	_ [_ _
Total policy Tota		(D)	(D)		(D)	_ _	(D)
1,000 to 1,499 miles (D)		(D)	(S)	(D)	(S)	(D) -	(D) (S)
1,500 to 1,999 miles	750 to 999 miles	_	_	_	-	_	_
A 223 100.0 30 213 100.0 35 268		(D)	(D)	(D)	(D)	(D)	(D)
Less than 50 miles 81		_	_	_	-	_ [_
50 to 99 miles 13 3 3 5 5 6 60	Rail	4 223	100.0	30 213	100.0	35 268	100.0
250 to 499 miles				414	1.4		_
250 to 499 miles				(S) (S)	(S) (S)		(S) 1.7
750 to 999 miles	250 to 499 miles	697	16.5	6 450	21.4	3 110	8.8
1,000 to 1,499 miles 2 043							4.6
1,500 to 1,999 miles		715 2 043					17.4 67.4
Inland water	1,500 to 1,999 miles	-	-	-	-	-	-
Less than 50 miles -<	,	- (D)				-	- (D)
50 to 99 miles		(D)	(D)	(D)	(D)	(0)	(D)
250 to 499 miles		_	_	_	-	_ [_
500 to 749 miles		_	_		_	_	_
1,000 to 1,499 miles		=	=		=	_	=
1.500 to 1,999 miles	750 to 999 miles	(D)	(D)	(D)	(D)	(D)	(D)
2,000 miles or more		\ <u>-</u>	` _	` <u>-</u>	` -	` <u>-</u>	` _
Less than 50 miles		_	Ξ		_		=
50 to 99 miles	Great Lakes	-	-	-	-	-	-
100 to 249 miles		-	_		-		_
250 to 499 miles		_					
750 to 999 miles	250 to 499 miles	-		_		-	_
1,000 to 1,499 miles		_	_		_	-	_
1,500 to 1,999 miles		_	_			_	_ _
Deep sea water -	1,500 to 1,999 miles	-	-	-	-		-
Less than 50 miles		-	_		_	-	-
	•	-	_		_	-	-
50 to 99 miles	50 to 99 miles	_		-	-	-	_
100 to 249 miles		_ [_	-		_

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TRANSPORTATION-COMMODITY FLOW SURVEY

Table 3. Shipment Characteristics by Mode of Transportation and Distance Shipped for State of Origin: 1993—Con.

[For explanation of terms and meaning of abbreviations and symbols, see introductory text. Detail may not add to total because of rounding]

<u> </u>	Value		Tons		Ton-miles ¹	
Mode of transportation and distance shipped (based on Great Circle Distance)	Number (million dollars)	Percent	Number (thousands)	Percent	Number (millions)	Percent
SINGLE MODES—Con.						
Deep sea water—Con.						
500 to 749 miles	_	_	=	=	_	=
1,000 to 1,499 miles		_ _	_	_	_	_
2,000 miles or more	_	_	_	_	_	_
Less than 50 miles	_	_	_	_	_	_
50 to 99 miles	_	_ _	_	_	_	_
250 to 499 miles		_	_		_	
750 to 999 miles	_	_	_	_	_	_
1,000 to 1,499 miles	_	=	=	_	_	=
1,500 to 1,999 miles	_	_	=	_	_	_ _
MULTIPLE MODES						
Private truck and for-hire truck	(S)	(S)	(S)	(S)	_	(S)
Less than 50 miles	_	(S) (S)	- (9)	(S)	_	(9)
100 to 249 miles 250 to 499 miles	(D) (D)	(D) (D)	(S) (D) (D)	(D)	(D) (D)	(S) (D) (D)
500 to 749 miles	(5)	(5)	(5)	(5)	(5)	(<u>b)</u>
750 to 999 miles	-	_	_	_	_	_
1,000 to 1,499 miles	_	_	_ _	_	_	_
2,000 miles or more	150	100.0	- 5	100.0	_ 6	100.0
Less than 50 miles	_	-	_	-	_	-
50 to 99 miles	(S)	(S) .3	_	(S) .5	_	(S)
250 to 499 miles	27 36	18.2 24.1	1	11.0 20.5	_ 1	6.5 15.1
	25	22.5		14.2		
750 to 999 miles	35 48	23.5 32.1	1 3	14.3 52.9	4	13.1 64.2
1,500 to 1,999 miles	(S)	(S)	_	.3	_	.9
Truck and rail	216	100.0	156	100.0	167	100.0
Less than 50 miles	(S)	(S)	_ _	(S)		
100 to 249 miles	(D) (S)	(D) (S)	(D) (S) (D)	(D) (S)	(D) (S)	(D) (S)
500 to 749 miles	(D)	(D)	(D)	(D)	(D)	(D)
750 to 999 miles	_ 156	(S) 72.3	(S) 57	(S) 36.5	_ 92	(S) 55.2
1,500 to 1,999 miles 2,000 miles or more	(S)	(S)	(S)	(S)	-	(S)
Truck and water	(D)	(D)	(D)	(D)	(D)	(D)
Less than 50 miles	_	-	`-	_	'-	-
50 to 99 miles		_	Ξ	_	_	=
250 to 499 miles	_	_	_	_	_	_
750 to 999 miles	_	_	_	_	_	=
1,000 to 1,499 miles 1,500 to 1,999 miles	_	_	_	_	_	_
2,000 miles or more	(D)	(D)	(D)	(D)	(D)	(D)
Truck and pipeline ²	_	_	- -	_	_	_
50 to 99 miles	_	=	=	_	_	_
250 to 499 miles	_	_ _ _	_ _ _	_	_	_ _
500 to 749 miles	-	_		_	-	_
750 to 999 miles		_ _	_ _	_		_ _
1,500 to 1,999 miles	_ _	_ _	_		_	
Rail and water	-	_	-	_	-	-
Less than 50 miles	_	_	_	_	_	
100 to 249 miles 250 to 499 miles	_	_	_	_		_ _
500 to 749 miles	-	_	-	_	-	_
750 to 999 miles	_	-	_	_	_	-
1,500 to 1,999 miles	_	=	- -		-	_ _
2,000 miles or more	_	_	_ _	_	_	_
Less than 50 miles	_	-	_	_	-	_
50 to 99 miles		_	_	_	_	_
100 to 249 miles 250 to 499 miles	_	_	_		_	_

TRANSPORTATION-COMMODITY FLOW SURVEY

Table 3. Shipment Characteristics by Mode of Transportation and Distance Shipped for State of Origin: 1993—Con.

[For explanation of terms and meaning of abbreviations and symbols, see introductory text. Detail may not add to total because of rounding]

Mode of transportation and distance shipped	Value		Tons		Ton-miles ¹	
(based on Great Circle Distance)	Number (million dollars)	Percent	Number (thousands)	Percent	Number (millions)	Percent
MULTIPLE MODES—Con.						
Inland water and Great Lakes—Con. 750 to 999 miles	-	- - - - - -	- - - - - -	- - - - - - -	- - - - - -	- - - -
750 to 999 miles	- - - -	- - - -	- - - - -	- - - -	- - - - -	- - - -
Other and unknown modes Less than 50 miles 50 to 99 miles	538 148 22 58 55 (D)	100.0 27.6 4.2 10.8 10.2 (D)	806 467 37 (S) (S) (D)	100.0 57.9 4.6 (S) (S) (D)	207 12 3 (S) (S) (D)	100.0 5.8 1.6 (S) (S) (D)
750 to 999 miles	(D) (D) (S) (D)	(D) (D) (S) (D)	(D) (D) (D)	(D) (D) (D)	(D) (D) (D)	(D) (D) (S) (D)

Note: "Deep sea water" as a single mode describes shipments moving only on the open waters of the oceans or the Gulf of Mexico. Most shipments moving primarily on the open ocean are tabulated under "Inland water and deep sea".

<sup>Represents zero or less than 1 unit of measure.
(D) Denotes figures withheld to avoid disclosing data for individual companies.
(S) Data do not meet publication standards due to high sampling variability or other reasons. Some unpublished estimates can be derived by subtracting published data from their respective totals. However, the figures obtained by such subtraction are subject to these same limitations.</sup>

¹Ton-miles are based on the estimated distance traveled, not on Great Circle Distance. See the "Mileage Calculations" section of this report for further explanation. ²CFS data for pipelines exclude most shipments of crude oil. See "About the Data" section for details of CFS coverage.

Table 4. Shipment Characteristics by Mode of Transportation and Shipment Size for State of Origin: 1993

[For explanation of terms and meaning of abbreviations and symbols, see introductory text. Detail may not add to total because of rounding]

	Val	ue	To	ons	Ton-r	niles ¹	
Mode of transportation and shipment size	Number (million dollars)	Percent	Number (thousands)	Percent	Number (millions)	Percent	Average miles per shipment ¹
ALL MODES							
Total	42 534 3 185	100.0	97 992	100.0	50 324	100.0	570 730
50 to 99 lb	675	7.5 1.6	171 105	.2	77 18	.2	161
100 to 499 lb	2 327 700	5.5 1.6	604 299	.6	78 43	.2	119 137
750 to 999 lb	562	1.3	273	.3	34	.1	119
1,000 to 9,999 lb	6 730 21 390	15.8 50.3	5 145 26 513	5.3 27.1	963 7 170	1.9 14.2	162 260
50,000 to 99,999 lb 100,000 lb or more	2 685 4 281	6.3 10.1	24 862 40 019	25.4 40.8	2 405 39 535	4.8 78.6	100 686
SINGLE MODES							
Parcel, U.S. Postal Service, or courier	2 937	100.0	149	100.0	100	100.0	938
Less than 50 lb	2 338 312	79.6 10.6	100 18	67.0 12.3	71 12	70.6 12.3	946 661
100 to 499 lb	263	9.0	24	16.2	14	14.5	572
500 to 749 lb	13 10	.5 .3	3 4	2.1 2.4	2	1.7	574 344
1,000 to 9,999 lb	_	-	_	-	-	-	-
10,000 to 49,999 lb		_	_	_	_		_
100,000 lb or more	11 622	100.0	37 683	100.0	2 848	100.0	48
Less than 50 lb	612	5.3	57 003	.2	3	.1	49
50 to 99 lb	268	2.3	78	.2	3	.1	35 40
100 to 499 lb	1 144 349	9.8 3.0	465 233	1.2	20 11	.7 .4	48
750 to 999 lb	283	2.4	210	.6	8	.3	37
1,000 to 9,999 lb	2 668 4 864	23.0 41.9	3 735 15 381	9.9 40.8	226 1 257	7.9 44.1	58 72
50,000 to 99,999 lb	1 118 316	9.6 2.7	12 081 5 442	32.1 14.4	921 (S)	32.3 (S)	81 (S)
For-hire truck	22 546	100.0	26 561	100.0	7 772	100.0	441
Less than 50 lb	73	.3	6	_	2	-	601
50 to 99 lb	61 823	.3 3.6	8 101	.4	2 41	.5	295 404
500 to 749 lb	309 264	1.4 1.2	58 57	.2	28 24	.4	496 436
1,000 to 9,999 lb	3 894	17.3	1 290	4.9	686	8.8	509
10,000 to 49,999 lb	15 498 1 460	68.7 6.5	10 588 12 425	39.9 46.8	5 431 1 347	69.9 17.3	532 111
100,000 lb or more	164	.7	2 029	7.6	210	2.7	168
Air	(S)	(S) 1.5	_	100.0 2.5	_	(S)	(S) (S)
50 to 99 lb	-	-		_	-	` <u>-</u>	· -
100 to 499 lb	(D)	(D)	(D)	(D)	(D)	(D)	(D) -
750 to 999 lb	- (6)	- (D)	-	- (D)	-	- (5)	-
1,000 to 9,999 lb	(D)	(D)	(D)	(D)	(D)	(D)	(D)
50,000 to 99,999 lb		_	_	_			
Rail	4 223	100.0	30 213	100.0	35 268	100.0	984
Less than 50 lb	_	_	_	_	_	_	(S) (S) (S) (S)
100 to 499 lb	_	-	_	_	_	_	(S)
750 to 999 lb	_	=	=	=	=	_	(5)
1,000 to 9,999 lb	(S) 656	(S) 15.5	(S) 240	(S)	(S) 318	_ .9	(S) 1 317
50,000 to 99,999 lb	(S)	(S)	217	.7	125	.4	637
100,000 lb or more	3 463 (D)	82.0 (D)	29 741 (D)	98.4 (D)	34 807 (D)	98.7 (D)	971 (D)
Less than 50 lb	_	-	_	_	-	-	-
50 to 99 lb		_	_	_	_		_
500 to 749 lb		_	_	_	_	_	_ _
1,000 to 9,999 lb	_	_	_	_	_	_	_
10,000 to 49,999 lb 50,000 to 99,999 lb	_	_	_	_	_	_	_
100,000 lb or more	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Great Lakes	_	-	-	_	_	-	_
Less than 50 lb		_	_	_			
100 to 499 lb		Ξ	_	_	_		_
750 to 999 lb	_	_	_	_	_	-	_
1,000 to 9,999 lb	_	_	_	_	_	_	_
50,000 to 99,999 lb 100,000 lb or more	_	_	_	_	_	_	_
Deep sea water	_	_	-	_	_	_	_
Less than 50 lb	_	_	_	_	_	_	_
50 to 99 lb			_ _	_		_ _	_ _
500 to 749 lb	_	_	_	_	_	_ _	

TRANSPORTATION-COMMODITY FLOW SURVEY

Table 4. Shipment Characteristics by Mode of Transportation and Shipment Size for State of Origin: 1993—Con.

[For explanation of terms and meaning of abbreviations and symbols, see introductory text. Detail may not add to total because of rounding]

	Va	ue	То	Tons Ton-miles ¹			
Mode of transportation and shipment size	Number (million dollars)	Percent	Number (thousands)	Percent	Number (millions)	Percent	Average miles per shipment ¹
SINGLE MODES—Con.							
Deep sea water — Con. 1,000 to 9,999 lb. 10,000 to 49,999 lb. 50,000 to 99,999 lb.	- - -	- - -	_ _ _	- - -	- - -	- - -	- - -
100,000 lb or more	_	-	_	_	-	_	_
Less than 50 lb		-	_			-	
100 to 499 lb 500 to 749 lb 750 to 999 lb	- - -	- - -	- - -	- - -	- - -	- - -	- - -
1,000 to 9,999 lb 10,000 to 49,999 lb 50,000 to 99,999 lb 100,000 lb or more	- - - -	- - - -	- - - -	- - - -	- - -	- - - -	- - -
MULTIPLE MODES							
Private truck and for-hire truck	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Less than 50 lb 50 to 99 lb 100 to 499 lb 500 to 749 lb 750 to 999 lb	- - - -	.1 2.2 .1 .1 .2	- - - -	.5 .1 .3 .4	- - -	- - - -	(S) (S) (S) (S) (S)
1,000 to 9,999 lb 10,000 to 49,999 lb 50,000 to 99,999 lb 100,000 lb or more	(D) (D) -	(D) (D) -	(D) (D) -	(D) (D) -	(D) (D)	(D) (D) -	(D) (D) -
Truck and air	150	100.0	5	100.0	6	100.0	1 180
Less than 50 lb 50 to 99 lb 100 to 499 lb 500 to 749 lb 750 to 999 lb	90 15 27 3 (S)	59.7 10.1 18.1 2.3 (S)	1 - 1 - -	21.1 4.7 20.3 8.6 2.9	1 - 1 - -	19.3 4.6 17.3 7.0 (S)	1 178 1 301 1 195 1 043 (S)
1,000 to 9,999 lb 10,000 to 49,999 lb 50,000 to 99,999 lb 100,000 lb or more	(S) (S)	(S) (S)	2 -	33.7 8.6 —	(S) 	35.5 (S)	1 243 (S)
Truck and rail	216	100.0	156	100.0	167	100.0	1 194
Less than 50 lb	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -
1,000 to 9,999 lb 10,000 to 49,999 lb 50,000 to 99,999 lb 100,000 lb or more Truck and water	(S) 178 (S) (S) (D)	(S) 82.5 (S) (S)	(S) 50 (S) (S) (D)	(S) 32.3 (S) (S) (D)	(S) 73 (S) (S) (D)	43.6 (S) (S) (D)	(S) 1 393 (S) (S) (D)
Less than 50 lb	- - - - -	- - - - -	- - - - -	- - - - -	- - - -	- - - - -	- - - -
1,000 to 9,999 lb	(D) (D) -	(D) (D) 	(D) (D) -	(D) (D) -	(D) (D) -	(D) (D) -	(D) (D) -
Truck and pipeline ²	_	-	- _	_	-	-	_ _
50 to 99 lb 100 to 499 lb 500 to 749 lb 750 to 799 lb	- - - -	- - - -	- - - -	- - - -	- - -	- - - -	- - - -
1,000 to 9,999 lb	- - - -	- - - -	- - - - -	- - - -	- - - -	- - - -	- - - -
Rail and water	_	-	-	-	-	-	-
Less than 50 lb	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -
1,000 to 9,999 lb	- - - -	- - -	- - - -	- - - -	- - -	- - - -	- - - -
Inland water and Great Lakes	-	-	-	-	-	-	_
Less than 50 lb 50 to 99 lb 100 to 499 lb 500 to 749 lb 750 to 999 lb	- - - -	- - - -	- - - -	- - - -		- - - -	- - - -
750 to 333 ID	_	_	-	_	_	_	_

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TRANSPORTATION—COMMODITY FLOW SURVEY

Table 4. Shipment Characteristics by Mode of Transportation and Shipment Size for State of Origin: 1993-Con.

[For explanation of terms and meaning of abbreviations and symbols, see introductory text. Detail may not add to total because of rounding]

	Va	lue	Tons		Ton-miles ¹		
Mode of transportation and shipment size	Number (million dollars)	Percent	Number (thousands)	Percent	Number (millions)	Percent	Average miles per shipment ¹
MULTIPLE MODES—Con.							
Inland water and Great Lakes—Con. 1,000 to 9,999 lb. 10,000 to 49,999 lb 50,000 to 99,999 lb 100,000 lb or more.	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -
Inland water and deep sea	_	_	-	-	-	_	-
Less than 50 lb	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - -	- - - -
1,000 to 9,999 lb 10,000 to 49,999 lb 50,000 to 99,999 lb 100,000 lb or more	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - -
OTHER MODES							
Other and unknown modes Less than 50 lb 50 to 99 lb 100 to 499 lb 500 to 749 lb 750 to 999 lb	538 72 20 (D) 25 4	100.0 13.3 3.7 (D) 4.7	806 (S) 2 (D) 4 1	100.0 (S) 2 (D) .5 .1	207 - (D) 1	100.0 .2 .1 (D) .6 .2	102 73 76 (D) (S) 321
1,000 to 9,999 lb 10,000 to 49,999 lb 50,000 to 99,999 lb 100,000 lb or more	129 175 6 (D)	24.0 32.6 1.1 (D)	98 243 (S) (D)	12.2 30.1 (S) (D)	29 72 4 (D)	14.2 34.7 2.1 (D)	325 (S) (S) (D)

Note: "Deep sea water" as a single mode describes shipments moving only on the open waters of the oceans or the Gulf of Mexico. Most shipments moving primarily on the open ocean are tabulated under "Inland water and deep sea".

<sup>Represents zero or less than 1 unit of measure.
(D) Denotes figures withheld to avoid disclosing data for individual companies.
(S) Data do not meet publication standards due to high sampling variability or other reasons. Some unpublished estimates can be derived by subtracting published data from their respective totals. However, the figures obtained by such subtraction are subject to these same limitations.</sup>

¹Average miles and ton-miles are based on the estimated distance traveled, not on Great Circle Distance. See the "Mileage Calculations" section of this report for further explanation. Calculation of average miles per shipment excludes shipments of STCC 27, Printed Matter. See "About the Data" section of this report for further explanation.

²CFS data for pipelines exclude most shipments of crude oil. See "About the Data" section for details of CFS coverage.

Shipment Characteristics by Commodity for State of Origin: 1993

[For explanation of terms and meaning of abbreviations and symbols, see introductory text. Detail may not add to total because of rounding]

STCC	Commodity description	Value (million dollars)	Tons (thousands)	Ton-miles ¹ (millions)	Average miles per shipment ¹
	ALL COMMODITIES				
	Total	42 534	97 992	50 324	570
01	Farm products Forest products	4 927	44 887	38 335	160
08		-	-	-	—
09 10 11	Fresh fish or other marine products Metallic ores Coal	(S) (D) -	(S) (D)	(D)	(S) (D)
13	Crude petroleum, natural gas, or gasoline	(S)	(S)	_	(S)
14		94	13 678	505	30
19 20 21	Ordnance or accessories Food or kindred products Tobacco products, excluding insecticides	31 18 771 (S)	3 17 090 (S)	7 817 7 817	1 056 106 (S)
22	Textile mill products	131	16	4	1 020
23		761	67	18	1 003
24	Lumber or wood products, excluding furniture Furniture or fixtures Pulp, paper, or allied products	392	581	82	689
25		493	(S)	(S)	(S)
26		631	533	163	306
27	Printed matter	(S)	(S)	(S)	_
28		2 412	4 082	603	294
29		884	3 477	133	22
30 31	Rubber or miscellaneous plastics products Leather or leather products	862 90	248 (S)	151	810 (S)
32	Clay, concrete, glass, or stone products	474	9 261	362	332
33		702	1 063	434	208
34	Fabricated metal products	1 737	842	454	889
35		2 499	519	271	275
36		1 641	180	180	760
37	Transportation equipment	1 799	322	232	194
38		1 284	137	119	331
39	Miscellaneous products of manufacturing Waste or scrap materials	748	84	49	974
40		69	343	143	296
41		(D)	(D)	(D)	(D)
42 48	Containers, carriers or devices, shipping, returned empty	(S)	(S)	_ _ _	(S) (S) (S)
	Commodity unknown	(S)	(S)	_	(S)

<sup>Represents zero or less than 1 unit of measure.
(D) Denotes figures withheld to avoid disclosing data for individual companies.
(S) Data do not meet publication standards due to high sampling variability or other reasons.
Some unpublished estimates can be derived by subtracting published data from their respective totals. However, the figures obtained by such subtraction are subject to these same limitations.</sup>

¹Average miles and ton-miles are based on the estimated distance traveled, not on Great Circle Distance. See the "Mileage Calculations" section of this report for further explanation. Calculation of average miles per shipment excludes shipments of STCC 27, Printed Matter. See "About the Data" section of this report for further explanation.

[For explanation of terms and meaning of abbreviations and symbols, see introductory text. Detail may not add to total because of rounding]

	Va	ue	To	ons	Ton-r	miles ¹	
STCC code, description, and mode of transportation	Number (million dollars)	Percent	Number (thousands)	Percent	Number (millions)	Percent	Average miles per shipment ¹
ALL COMMODITIES							
Total	42 534	100.0	97 992	100.0	50 324	100.0	570
Single Modes							
Parcel, U.S. Postal Service, or courier	2 937 11 622	6.9 27.3	149 37 683	.2 38.5	100 2 848	.2 5.7	938 48
For-hire truck	22 546 (S)	53.0	26 561	27.1	7 772	15.4	441 (S)
Rail	4 223	9.9	30 213	30.8	35 268	70.1	984
Inland water	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Deep sea water	_ _		_				_ _
Multiple Modes							
Private truck and for-hire truck	(S) 150	-	(S) 5	_	(S)	-	(S) 1 180
Truck and air Truck and rail	216 (D)	.4 .5 (D)	156 (D)	.2 (D)	6 167 (D)	.3 (D)	1 194 1 194 (D)
Truck and water	(6)	(D)	(D)	(D)	(D)	(D)	(D)
Truck and pipeline ²	_		_		_	_	_ _
Inland water and Great Lakes		Ξ	_	=	=	_	_
Other Modes							
Other and unknown modes	538	1.3	806	.8	207	.4	102
STCC 01, FARM PRODUCTS							
Total	4 927	100.0	44 887	100.0	38 335	100.0	160
Single Modes							
Parcel, U.S. Postal Service, or courier	(S) 730	_ 14.8	5 548	12.4	(S)	_ (S)	(S) (S)
For-hire truck	1 318	26.8	9 674	21.6	1 205	3.1	149
Air	2 587	52.5	27 144	60.5	32 279	84.2	974
Inland waterGreat Lakes	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Deep sea water Pipeline ²	=	_ _ _	=	=			=
Multiple Modes							
Private truck and for-hire truck	_	_	_	_	_	_	_
Truck and rail. Truck and water	(S)	- -	(S)		(S)	_ _	(S)
Truck and pipeline ²	_	_	_	_	_	_	_
Rail and water Inland water and Great Lakes Inland water and deep sea	- - -	_ _ _	_ _ _	_ _ _	_ _ _	_ _ _	- - -
Other Modes							
Other and unknown modes	(D)	(D)	(D)	(D)	(D)	(D)	(D)
STCC 08, FOREST PRODUCTS							
Total	_	_	_	_	_	_	-
Single Modes							
Parcel, U.S. Postal Service, or courier	_	_	_	_	_	_	_
Private truck			_		_	_	_ _
Air Rail	_	_	_	_	_	_	_ _
Inland water	_	_	_	_	_	_	_
Great Lakes Deep sea water Pipeline ²	_	_	_	_	_	_	
Multiple Modes							
Private truck and for-hire truck	_	_	_	_	_	_	_
Truck and air Truck and rail		_ _	_				_
Truck and water	-	=	-	_	_	-	_
Truck and pipeline ² Rail and water	_ _	<u>-</u>					
Inland water and Great Lakes Inland water and deep sea	_ _	_ _					- -
Other Modes							
Other and unknown modes	_	_	_	_	_	_	_

TRANSPORTATION-COMMODITY FLOW SURVEY

[For explanation of terms and meaning of abbreviations and symbols, see introductory text. Detail may not add to total because of rounding]

	Va	lue	To	ons	Ton-r	niles ¹	
STCC code, description, and mode of transportation	Number (million dollars)	Percent	Number (thousands)	Percent	Number (millions)	Percent	Average miles per shipment ¹
STCC 09, FRESH FISH OR OTHER MARINE PRODUCTS							
Total	(S)	(S)	(S)	(S)	-	(S)	(S)
Single Modes							
Parcel, U.S. Postal Service, or courier	(S)	(S)_	(S)	(S)	_ _ _ _	(S)	(S)
Air	_ _	_ _	_ _		_ _	_	
Inland water Great Lakes Deep sea water Pipeline ²	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -
Multiple Modes							
Private truck and for-hire truck. Truck and air Truck and rail Truck and water	- - - -	- - - -	= = =	- - - -	- - - -	- - - -	- - -
Truck and pipeline ² . Rail and water Inland water and Great Lakes Inland water and deep sea	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -
Other Modes							
Other and unknown modes	=	=	=	_	=	_	_
STCC 10, METALLIC ORES Total	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Single Modes	(D)	(D)	(6)	(6)	(D)	(0)	(6)
Parcel, U.S. Postal Service, or courier	_	_	_	_	_	_	_
Private truck For-hire truck Air	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Rail	_ _	_	_	_	_	_	_
Great Lakes Deep sea water Pipeline ²	- - -	_ _ _	_ _ _	_ _ _	_ _ _	_ _ _	_ _ _
Multiple Modes							
Private truck and for-hire truck. Truck and air Truck and rail Truck and rail Truck and water	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -
Truck and pipeline ² . Rail and water Inland water and Great Lakes Inland water and deep sea	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -
Other Modes							
Other and unknown modes	-	-	_	_	-	_	-
STCC 11, COAL							
Total	_	_	_	_	_	_	-
Single Modes Parcel, U.S. Postal Service, or courier							
Parcel, U.S. Postal Service, or courier Private truck For-hire truck	[
Air Rail							_
Inland water Great Lakes Deep sea water	- - -	- - -	- - -	- - -	- - -	= =	_
Pipeline ²	_	_	_	_	_	_	-
Multiple Modes Private truck and for-hire truck	_	_	_	_	_	_	_
Truck and air Truck and rail Truck and rail Truck and water	- - -	- - -	- - -	- - -	- - -	- - -	=
Truck and pipeline ²	- - -	- - -	- - -	- - -	- - -	- - -	- - -
Inland water and deep sea Other Modes	_	_	_	_	_	_	_
Other and unknown modes	_	_	_	_	_	_	_

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TRANSPORTATION-COMMODITY FLOW SURVEY

[For explanation of terms and meaning of abbreviations and symbols, see introductory text. Detail may not add to total because of rounding]

,	Valu	ie ,	To	ons	Ton-r	miles ¹	
STCC code, description, and mode of transportation	Number (million dollars)	Percent	Number (thousands)	Percent	Number (millions)	Percent	Average miles per shipment ¹
STCC 13, CRUDE PETROLEUM, NATURAL GAS, OR GASOLINE							
Total	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Single Modes							
Parcel, U.S. Postal Service, or courier	_ (D)	_ (D)	_ (D)	(D)	_ (D)	_ (D)	_ (D)
For-hire truck Air	(D)	(D)	(D)	(D)	(D)	(D)	(D) (D)
Rail	-	-	_	-	-	_	-
Inland water	_	_	_ _	_	_		_ _
Deep sea water	- -	_ _	_ _		_ _	_ _	_ _
Multiple Modes							
Private truck and for-hire truck	_	-	_	_	-	-	_
Truck and air		_	_	_			
Truck and water	-	_	_	_	_	_	_
Truck and pipeline ²		Ξ	_	_			=
Inland water and Great Lakes			_ _		_ _	_ _	
Other Modes							
Other and unknown modes	(S)	(S)	(S)	(S)	_	_	(S)
STCC 14, NONMETALLIC MINERALS							
Total	94	100.0	13 678	100.0	505	100.0	30
Single Modes							
Parcel, U.S. Postal Service, or courier	_ 54	- 57.0	_ 10 027	73.3	_ 292	- 57.8	(S) 24
For-hire truck Air	(S)	(S)	3 266	23.9	138	27.4	47
Rail	_	(S)	(S)	(S)	(S)	(S)	(S)
Inland water		_	<u> </u>	_			_ _
Deep sea water			_ _			_ _	- -
Multiple Modes							
Private truck and for-hire truck	_	-	_	_	_	_	_
Truck and air Truck and rail Truck and water	- - -	=	_ _ _	_			- - -
Truck and pipeline ² Rail and water Inland water and Great Lakes	- - -	-	_ _ _		-	-	- - -
Inland water and deep sea	-	-	_	-	-	-	-
Other Modes							
Other and unknown modes	2	2.2	323	2.4	13	2.6	(S)
STCC 19, ORDNANCE OR ACCESSORIES Total	31	100.0	3	100.0	3	100.0	1 056
	31	100.0	3	100.0	3	100.0	1 030
Single Modes Parcel, U.S. Postal Service, or courier	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Private truck	(D) _ (D)	(D) (S) (D)	(D) (D)	(S) (D)	(D) (D)	(D) (D)	(D) (S) (D)
Air	(5)	(D) -	(5)	(6)	(5)	(5)	(5)
Inland water	_	_	_	_	_	_	_
Great Lakes Deep sea water	_ _ _	=	_ _ _				_ _ _
Pipeline ²	-	_	_	-	-	_	-
Multiple Modes							
Private truck and for-hire truck		_	_ _	=		_	=
Truck and rail		-	_ _				_ _
Truck and pipeline ²	_	-	_	_	_	_	_
Rail and water Inland water and Great Lakes Inland water and deep sea		_	_	_		_	_ _
Other Modes		_	_				_
Other widdes Other and unknown modes	_	_	_	_	_	_	(S)
	-,						(3)

TRANSPORTATION—COMMODITY FLOW SURVEY

[For explanation of terms and meaning of abbreviations and symbols, see introductory text. Detail may not add to total because of rounding]

	Va	lue	To	ons	Ton-r	miles ¹	
STCC code, description, and mode of transportation	Number (million dollars)	Percent	Number (thousands)	Percent	Number (millions)	Percent	Average miles per shipment ¹
STCC 20, FOOD OR KINDRED PRODUCTS							
Total	18 771	100.0	17 090	100.0	7 817	100.0	106
Single Modes							
Parcel, U.S. Postal Service, or courier	2 4 795	_ 25.5	_ 6 475	37.9	- 858	11.0	587 50
For-hire truck	12 650	67.4	8 172	47.8	4 346	55.6	432
Rail	1 149	6.1	2 150	12.6	2 409	30.8	1 169
Inland water	_		_	_			=
Deep sea waterPipeline ²	_ _	_ _	_ _		_ _	_ _	=
Multiple Modes							
Private truck and for-hire truck	3	_	7	_	2	_	287
Truck and air	(S) (S)	(S)	(S)	(S)	(S) (S)	(S)	(S) (S) (S)
Truck and pipeline ²	_	-	_	_	_	_	-
Rail and water	=		=	_			
Inland water and deep sea	_	_	-	_	_	_	_
Other Modes		-	(0)	(0)	04	4.0	(0)
Other and unknown modes	99	.5	(S)	(S)	91	1.2	(S)
STCC 21, TOBACCO PRODUCTS, EXCLUDING INSECTICIDES	(0)	(0)	(0)	(0)		(0)	(0)
Total	(S)	(S)	(S)	(S)	_	(S)	(S)
Parcel, U.S. Postal Service, or courier							
Private truck	(S)	(S)	(S)	(S)	_	(S)	(S)
Air	_	_	_ _	_	_	_	_ _
Inland water	_	_	_	_	_	_	_
Great Lakes Deep sea water	_	_	_ _	_	_	_	_ _
Pipeline ²	_	_	_	_	_	_	_
Multiple Modes							
Private truck and for-hire truck Truck and air Truck and rail	Ξ.	=		=	=	=	=
Truck and water	=	=	=	=	=	=	Ξ
Truck and pipeline ² Rail and water	_	_	_	_	_	_	_
Inland water and Great Lakes Inland water and deep sea	=	_	=	=	_	_	=
Other Modes							
Other and unknown modes	_	_	_	_	_	_	_
STCC 22, TEXTILE MILL PRODUCTS							
Total	131	100.0	16	100.0	4	100.0	1 020
Single Modes							
Parcel, U.S. Postal Service, or courier	31 (S)	23.7 (S)	(S) 6	(S) 34.9	(S)	(S) 45.9	(S) (S)
For-hire truck	(S) 67	(S) 51.0	8 -	52.2	1 -	13.7	391
Rail	-	-	_	-	_	_	-
Inland water Great Lakes Deep sea water Pipeline ²	- - - -	- - -	- - - -	- - - -	- - -	- - -	- - -
Multiple Modes							
Private truck and for-hire truck	_	_	_	_	_	_	_
Truck and air			_ _				=
Truck and water	_	_	_	_	_	_	_
Truck and pipeline ² . Rail and water Inland water and Great Lakes Inland water and deep sea	- - - -	- - - -	- - - -	_ _ _ _	_ _ _ _	_ _ _ _	- - - -
Other Modes							
Other and unknown modes	(S)	(S)	_	(S)	_	_	(S)
	• ,	. ,		. ,			. ,

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TRANSPORTATION-COMMODITY FLOW SURVEY

[For explanation of terms and meaning of abbreviations and symbols, see introductory text. Detail may not add to total because of rounding]

<u> </u>	Val	ue	To	ons	Ton-r	niles ¹	
STCC code, description, and mode of transportation	Number (million dollars)	Percent	Number (thousands)	Percent	Number (millions)	Percent	Average miles per shipment ¹
STCC 23, APPAREL OR OTHER FINISHED TEXTILE PRODUCTS							
Total	761	100.0	67	100.0	18	100.0	1 003
Single Modes							
Parcel, U.S. Postal Service, or courier	439 121 198 –	57.6 15.9 26.0 –	10 26 31 -	14.5 38.8 46.4 –	8 3 7 -	45.8 14.3 39.1 —	1 011 553 1 072
Inland water	- - -	- - - -	- - - -	- - - -	- - - -	- - -	- - - -
Multiple Modes							
Private truck and for-hire truck. Truck and air Truck and rail. Truck and water	(S) -	(S) 	- - -	(S) 	- - - -	- - -	(S)
Truck and pipeline ²	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - - -
Other Modes							
Other and unknown modes	(S)	(S)	_	(S)	_	-	(S)
STCC 24, LUMBER OR WOOD PRODUCTS, EXCLUDING FURNITURE Total	392	100.0	581	100.0	82	100.0	689
Single Modes							
Parcel, U.S. Postal Service, or courier	3 272 113 - (S)	.8 69.3 28.8 - (S)	417 (S) - -	.1 71.7 (S) - -	28 (S) - -	.4 34.1 (S) - -	1 312 191 (S) (S)
Great Lakes	- - -	_ _ _	- - -	_ _ _	_ _ _	_ _ _	- - -
Multiple Modes							
Private truck and for-hire truck. Truck and air Truck and rail Truck and water	- - -	- - -	= = = =	- - -	- - - -	- - - -	(S) _ _
Truck and pipeline ² . Rail and water Inland water and Great Lakes Inland water and deep sea	- - -	- - -	= = =	- - -	- - -	- - -	- - -
Other Modes							
Other and unknown modes	3	.8	(S)	(S)	_	_	(S)
STCC 25, FURNITURE OR FIXTURES	493	100.0	(6)	(6)	(8)	(6)	(8)
Total	493	100.0	(S)	(S)	(S)	(S)	(S)
Parcel, U.S. Postal Service, or courier	29 (S) 202 -	5.8 (S) 41.0	4 (S) (S)	1.9 (S) (S) -	(S) (S) 69 -	(S) (S) 41.8 -	(S) (S) 826 -
Inland water Great Lakes Deep sea water Pipeline ²	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -
Multiple Modes							
Private truck and for-hire truck. Truck and air Truck and rail Truck and water	- - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - -	_ _ _
Truck and pipeline ²	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	= = =
Other Modes							
Other and unknown modes	(S)	(S)	(S)	(S)	(S)	(S)	(S)

TRANSPORTATION-COMMODITY FLOW SURVEY

Table 6. Shipment Characteristics by Commodity and Mode of Transportation for State of Origin: 1993—Con.

[For explanation of terms and meaning of abbreviations and symbols, see introductory text. Detail may not add to total because of rounding]

	Va	lue	To	ons	Ton-r	miles ¹	
STCC code, description, and mode of transportation	Number (million dollars)	Percent	Number (thousands)	Percent	Number (millions)	Percent	Average miles per shipment ¹
STCC 26, PULP, PAPER, OR ALLIED PRODUCTS							
Total	631	100.0	533	100.0	163	100.0	306
Single Modes							
Parcel, U.S. Postal Service, or courier	45 236	7.1 37.4	6 114	1.1 21.5	3 6	1.7 3.6	766 30
For-hire truck Air	340	53.9	381	71.4	119	73.1	242
Rail	1	.2	24	4.5	33	19.9	1 366
Inland water	_	_	_	_	-	_	_
Deep sea water Pipeline ²	=	_ _ _	=	=	=		=
Multiple Modes							
Private truck and for-hire truck	_	-	_		-	_	
Truck and air Truck and rail Truck and water		_ _ _	_ _ -	(S) -			(S) - -
Truck and pipeline ² Rail and water	_	-	_	_	_	_	_
Inland water and Great Lakes Inland water and deep sea		_ _ _			_ _ _		_ _ _
Other Modes							
Other and unknown modes	(S)	(S)	(S)	(S)	(S)	(S)	(S)
STCC 27, PRINTED MATTER							
Total	(S)	(S)	(S)	(S)	(S)	(S)	-
Single Modes							
Parcel, U.S. Postal Service, or courier Private truck For-hire truck Air	(S) (S) (S)	(S) (S) (S)	(S) (S) (S)	(S) (S) (S)	(S) (S) (S)	(S) (S) (S)	- - -
Rail	=	_	=	=	_	=	=
Inland water Great Lakes Deep sea water Pipeline ²	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -
Multiple Modes							
Private truck and for-hire truck. Truck and air Truck and rail Truck and water	(S) -	(S) -	(S) —	(S) —	(S) -	(S) -	- - -
Truck and pipeline ²	- - - -	- - -	- - - -	- - -	- - - -	- - - -	- - -
Other Modes							
Other and unknown modes	(S)	(S)	(S)	(S)	(S)	(S)	_
STCC 28, CHEMICALS OR ALLIED PRODUCTS							
Total	2 412	100.0	4 082	100.0	603	100.0	294
Single Modes							
Parcel, U.S. Postal Service, or courier Private truck For-hire truck Air Rail	141 1 080 1 056 - 52	5.9 44.8 43.8 – 2.2	7 2 717 1 058 - 267	.2 66.5 25.9 - 6.5	4 223 218 - 133	.7 36.9 36.2 - 22.0	826 (S) 346 - 518
Inland water Great Lakes Deep sea water	- - -	- - -		- - -	- - -	- - -	- - -
Pipeline ² Multiple Modes	_	_	_	_	_	_	_
Private truck and for-hire truck							
Truck and air Truck and rail Truck and water	(D) (D) (D)	(D) (D) (D)	(D) (D) (D)	(D) (D) (D)	(D) (D) (D)	(D) (D) (D)	(D) (D) (D)
Truck and pipeline ² Rail and waterInland water and Great LakesInland water and deep seaInland water and deep sea	_ _ _ _	_ _ _	- - - -	- - -	- - - -	- - -	= =
Other Modes							
Other and unknown modes	(D)	(D)	(D)	(D)	(D)	(D)	(D)

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TRANSPORTATION-COMMODITY FLOW SURVEY

Table 6. Shipment Characteristics by Commodity and Mode of Transportation for State of Origin: 1993—Con.

[For explanation of terms and meaning of abbreviations and symbols, see introductory text. Detail may not add to total because of rounding]

,	Val	ue	То	ons	Ton-r	miles ¹	
STCC code, description, and mode of transportation	Number (million dollars)	Percent	Number (thousands)	Percent	Number (millions)	Percent	Average miles per shipment ¹
STCC 29, PETROLEUM OR COAL PRODUCTS							
Total	884	100.0	3 477	100.0	133	100.0	22
Single Modes							
Parcel, U.S. Postal Service, or courier	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Private truck	(D) (S)	(D) (S)	(D) (S)	(D) (S)	(D) (S)	(D) (S)	(D) (S)
Air	`	` _	`	\	`) <u>^</u>	` <u>-</u>
Inland water	_	_	_	_	_	_	_
Great Lakes	_ _ _	_ _ _	= =	_ _ _	_ _ _	= =	=
Multiple Modes							
Private truck and for-hire truck	_	_	_	_	_	_	_
Truck and air Truck and rail Truck and water	- - -	_ _ _	_ _ _	_ _ _	_ _ _	_ _ _	- - -
Truck and pipeline ²	_	_	_	_	_	_	_
Rail and water		_	_	_			=
Inland water and deep sea	_	_	_	-	-	_	-
Other Modes							
Other and unknown modes	(S)	(S)	(S)	(S)	(S)	(S)	(S)
STCC 30, RUBBER OR MISCELLANEOUS PLASTICS PRODUCTS							
Total	862	100.0	248	100.0	151	100.0	810
Single Modes							
Parcel, U.S. Postal Service, or courier	80 189	9.2 21.9	5 63	1.9 25.3	4 10	2.4 6.5	967 36
For-hire truck Air	571	66.2	175	70.4	133	87.9	541
Rail	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Inland water	_	_	_	_	_	_	_
Deep sea water Pipeline ²		_ _ _					=
Multiple Modes							
Private truck and for-hire truck			_		-	-	(S) (S)
Truck and air	(S) - -	(S) _ _	_ _ _	(S) 	_ _ _	_ _ _	(3)
Truck and pipeline ²	_	_	_	_	_	_	-
Rail and water	- - -	- - -	- - -	_ _ _	- - -	- - -	= =
Other Modes							
Other and unknown modes	15	1.7	4	1.5	1	.7	85
STCC 31, LEATHER OR LEATHER PRODUCTS							
Total	90	100.0	(S)	(S)	(S)	(S)	(S)
Single Modes							
Parcel, U.S. Postal Service, or courier	68 (D)	75.3 (D)	2 (D)	32.7 (D)	2 (D)	30.9 (D)	1 161 (D) (D)
For-hire truck	(D)	(D) (D)	(D)	(D)	(D)	(D)	(D)
Rail	_	_	_	-	-	_	_
Inland water			_	_		_	
Deep sea water	_ _	_ _	_	_			_ _
Multiple Modes							
Private truck and for-hire truck	_ _	_	_			-	_
Truck and rail Truck and water	_ _	_ _ _	=			_ _ _	=
Truck and pipeline ²	_	_	_	_	_	_	_
Rail and water	_ 	_ _	_				_
Inland water and deep sea	_	_	_	_	_	_	-
Other Modes							
Other and unknown modes	-	(S)	-	(S)	-	(S)	(S)

TRANSPORTATION-COMMODITY FLOW SURVEY

[For explanation of terms and meaning of abbreviations and symbols, see introductory text. Detail may not add to total because of rounding]

	Val	lue	То	ons	Ton-r	miles ¹	
STCC code, description, and mode of transportation	Number (million dollars)	Percent	Number (thousands)	Percent	Number (millions)	Percent	Average miles per shipment ¹
STCC 32, CLAY, CONCRETE, GLASS, OR STONE PRODUCTS							
Total	474	100.0	9 261	100.0	362	100.0	332
Single Modes							
Parcel, U.S. Postal Service, or courier	(S) 358 94	(S) 75.6 19.8	1 8 640 571	93.3 6.2	(S) 177 149	49.0 41.2	(S) 31 422
Rail	7	1.4	33	.4	29	8.1	1 002
Inland water Great Lakes Deep sea water Pipeline ²	- - -	- - -	- - - -	- - -	- - -	- - -	- - -
Multiple Modes							
Private truck and for-hire truck. Truck and air Truck and rail Truck and water	(S)	(S)	(S)	(S)	(S)	(S)	(S) (S)
Truck and pipeline ²	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -
Other Modes							
Other and unknown modes	_	_	_	_	-	-	(S)
STCC 33, PRIMARY METAL PRODUCTS							
Total	702	100.0	1 063	100.0	434	100.0	208
Single Modes							
Parcel, U.S. Postal Service, or courier Private truck For-hire truck Air Rail	(S) 154 363 — (D)	(S) 21.9 51.7 – (D)	(S) 204 538 - (D)	(S) 19.2 50.7 - (D)	(S) 36 248 - (D)	8.3 57.1 – (D)	(S) 52 308 - (D)
Inland water Great Lakes Deep sea water Pipeline ²	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -
Multiple Modes							
Private truck and for-hire truck	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	(S) (S) - -
Truck and pipeline ²	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -
Other Modes							
Other and unknown modes	(D)	(D)	(D)	(D)	(D)	(D)	(D)
STCC 34, FABRICATED METAL PRODUCTS	1 737	100.0	842	100.0	454	100.0	889
Total	1 737	100.0	042	100.0	454	100.0	609
Single Modes Parcel, U.S. Postal Service, or courier Private truck For-hire truck Air Rail	159 552 966 — 40	9.2 31.8 55.6 – 2.3	10 252 556 —	1.2 29.9 66.0 – 2.1	7 80 339 - 17	1.5 17.7 74.6 — 3.7	1 103 120 582 - (S)
Inland water Great Lakes Deep sea water Pipeline ²	- - - -		- - - -	- - - -	- - - -	- - - -	- - - -
Multiple Modes							
Private truck and for-hire truck. Truck and air Truck and rail. Truck and water	1 - -	- .1 - -	- - - -	- - -	- - - -	- - -	(S) 1 159 - -
Truck and pipeline ²	=	<u> </u>	_	_			
Inland water and Great Lakes Inland water and deep sea	_	_	_	_		_	
Other Modes							
Other and unknown modes	18	1.0	6	.7	(S)	(S)	(S)

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TRANSPORTATION-COMMODITY FLOW SURVEY

Table 6. Shipment Characteristics by Commodity and Mode of Transportation for State of Origin: 1993—Con.

[For explanation of terms and meaning of abbreviations and symbols, see introductory text. Detail may not add to total because of rounding]

	Val	ue	То	ons	Ton-r	miles ¹	
STCC code, description, and mode of transportation	Number (million dollars)	Percent	Number (thousands)	Percent	Number (millions)	Percent	Average miles per shipment ¹
STCC 35, MACHINERY, EXCLUDING ELECTRICAL	0.400	400.0	540	400.0	074	400.0	075
Total	2 499	100.0	519	100.0	271	100.0	275
Single Modes							
Parcel, U.S. Postal Service, or courier	290 867	11.6 34.7	10 168	2.0 32.3	4 43	1.6 15.8	355 58
For-hire truck	1 175	47.0	295	56.8	189	69.8	643
Rail	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Inland water	-	_	_	_	_	-	-
Great Lakes	- - -	_ _ _	- - -	- - -	_ _ _	_ _ _	_ _ _
Multiple Modes							
Private truck and for-hire truck	_	, <u>-</u>		_	-	_	
Truck and air	(S) (S)	(S) (S)	(S) (S)	(S) (S) -	(S) (S) —	(S)	(S) (S)
Truck and pipeline ²	-	_	_	_	_	_	_
Rail and water Inland water and Great Lakes Inland water and deep sea	- - -	- - -	- - -	- - -	- - -	- - -	_ _ _
Other Modes							
Other and unknown modes	103	4.1	(S)	(S)	(S)	(S)	(S)
STCC 36, ELECTRICAL MACHINERY, EQUIPMENT, OR SUPPLIES							
Total	1 641	100.0	180	100.0	180	100.0	760
Single Modes							
Parcel, U.S. Postal Service, or courier	362 205	22.1 12.5	9	4.9 10.1	4 (S)	2.4 (S)	930 (S)
For-hire truck Air	698	42.5	93	51.6	88	48.9	(S) 610 (S)
Rail	(D)	(D)	(D)	(D)	(D)	(D)	(S) (D)
Inland water	_	=	_	_	_	_	_
Deep sea water Pipeline ²	_ _	_ _ _	_				_ _
Multiple Modes							
Private truck and for-hire truck	-	. .	_	-	-	_	.
Truck and air	39 (D) -	2.4 (D)	(D)	(D)	(D)	.5 (D)	1 279 (D)
Truck and pipeline ²	-	_	_	_	_	_	_
Rail and water Inland water and Great Lakes Inland water and deep sea	- - -	- - -	- - -	_ _ _	_ _ _	- - -	- - -
Other Modes							
Other and unknown modes	24	1.4	2	.9	_	_	(S)
STCC 37, TRANSPORTATION EQUIPMENT							
Total	1 799	100.0	322	100.0	232	100.0	194
Single Modes							
Parcel, U.S. Postal Service, or courier	265 344	14.7 19.1	7 57	2.1 17.7	3 20	1.5 8.7	449 (S)
For-hire truck Air	1 092	60.7	244	76.0	198	85.4	(S) 602
Rail	(S) (S)	(S)	(S)	(S)	(S)	(S)	(S) (S)
Inland water	_ _	_	-	_	-	_	_
Deep sea water Pipeline ²	_ _ _	= =	=			= =	_ _
Multiple Modes							
Private truck and for-hire truck	(S) (S)	(S) (S)	(S)	(S)	(S)	(S)	(S) (S)
Truck and ail Truck and rail Truck and water	(5)	(5)	_	_	_	_	(5)
	_	-	_	_	_	_	_
Truck and pipeline ²	_ _	-		_	_	_	Ξ.
Inland water and Great Lakes Inland water and deep sea	_		_	_			_ _
Other Modes							
Other and unknown modes	48	2.7	5	1.5	4	1.6	(S)

TRANSPORTATION-COMMODITY FLOW SURVEY

[For explanation of terms and meaning of abbreviations and symbols, see introductory text. Detail may not add to total because of rounding]

	Va	lue	To	ons	Ton-r	miles ¹	
STCC code, description, and mode of transportation	Number (million dollars)	Percent	Number (thousands)	Percent	Number (millions)	Percent	Average miles per shipment ¹
STCC 38, INSTRUMENTS, PHOTOGRAPHIC GOODS, OPTICAL GOODS, WATCHES, OR CLOCKS							
Total	1 284	100.0	137	100.0	119	100.0	331
Single Modes							
Parcel, U.S. Postal Service, or courier Private truck For-hire truck Air Rail	191 (S) 877 (S)	14.9 (S) 68.3 (S)	5 (S) 113 –	3.9 (S) 82.2 -	2 (S) 114 - -	1.3 (S) 95.7 –	463 (S) 388 (S)
Inland water Great Lakes Deep sea water Pipeline ²	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -
Multiple Modes							
Private truck and for-hire truck. Truck and air Truck and rail. Truck and water	17 (S)	1.3 (S)	= = =	.2 (S)	(S)_	.3 - -	1 233 (S)
Truck and pipeline ² . Rail and water	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -
Other Modes							
Other and unknown modes STCC 39, MISCELLANEOUS PRODUCTS OF	(S)	(S)	(S)	(S)	_	_	(S)
MANUFACTURING Total	748	100.0	84	100.0	49	100.0	974
Single Modes							
Parcel, U.S. Postal Service, or courier Private truck For-hire truck Air Rail	454 157 86 – –	60.8 21.0 11.5 - -	22 46 11 -	26.4 54.9 12.5 – (S)	(S) 14 8 - (S)	(S) 29.5 16.6 — (S)	(S) (S) 977 - (S)
Inland water Great Lakes Deep sea water Pipeline ²	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -
Multiple Modes							
Private truck and for-hire truck. Truck and air Truck and rail Truck and water	12 - -	1.6 - -	(S) -	(S) -	1 - -	1.7	1 162 - -
Truck and pipeline ² Rail and water Inland water and Great Lakes Inland water and deep sea	- - - -	- - -	- - - -	- - -	- - -	- - - -	- - - -
Other Modes							
Other and unknown modes	(S)	(S)	(S)	(S)	(S)	(S)	(S)
STCC 40, WASTE OR SCRAP MATERIALS Total	69	100.0	343	100.0	143	100.0	296
Single Modes				100.0			
Parcel, U.S. Postal Service, or courier Private truck For-hire truck Air Rail	(S) 18 - 21	(S) 25.3 - 30.2	(S) 85 - 202	(S) 24.9 - 58.9	(S) 31 - 102	(S) 22.1 - 71.7	(S) 253 - 499
Inland water Great Lakes Deep sea water Pipeline ²	- - - -	- - -	- - - -	_ _ _ _	- - -	- - -	- - -
Multiple Modes							
Private truck and for-hire truck. Truck and air Truck and rail Truck and water	- - - -	_ _ _	_ _ _ _	- - - -	_ _ _ _	- - - -	=======================================
Truck and pipeline ² . Rail and water Inland water and Great Lakes Inland water and deep sea	- - - -	- - -	- - - -	- - - -	- - - -	- - - -	=======================================
Other Modes		(0)	(0)	(0)			(0)
Other and unknown modes	-	(S)	(S)	(S)	_	-	(S)

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TRANSPORTATION-COMMODITY FLOW SURVEY

[For explanation of terms and meaning of abbreviations and symbols, see introductory text. Detail may not add to total because of rounding]

	Val	ue	To	ons	Ton-r	miles ¹	
STCC code, description, and mode of transportation	Number (million dollars)	Percent	Number (thousands)	Percent	Number (millions)	Percent	Average miles per shipment ¹
STCC 41, MISCELLANEOUS FREIGHT SHIPMENTS							
Total	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Single Modes							
Parcel, U.S. Postal Service, or courier Private truck For-hire truck Air Rail	(D) (D) (D)	(D) (D) (D)	(D) (D) (D)	(D) (D) (D)	(D) (D) (D)	(D) (D) (D)	(D) (D) (D)
Inland water Great Lakes Deep sea water Pipeline ²	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - - -
Multiple Modes							
Private truck and for-hire truck	(D) -	(D) 	(D) 	(D) 	(D) 	(D) 	(D)
Truck and pipeline ² . Rail and water	- - -	- - - -	- - - -	- - - -	- - - -	- - - -	= =
Other Modes							
Other and unknown modes	(D)	(D)	(D)	(D)	(D)	(D)	(D)
STCC 42, CONTAINERS, CARRIERS OR DEVICES, SHIPPING, RETURNED EMPTY Total	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Single Modes	, ,	.,	, ,		, ,	, ,	, ,
Parcel, U.S. Postal Service, or courier Private truck For-hire truck Air Rail	(D) (D)	(S) (D) (D) -	(D) (D) -	(D) (D)	(D) (D)	(D) (D)	(S) (D) (D)
Inland water Great Lakes Deep sea water Pipeline ²	- - -	- - -	- - - -	- - - -	- - -	- - -	- - - -
Multiple Modes							
Private truck and for-hire truck. Truck and air Truck and rail Truck and water	- - - -	- - - -	- - - -	- - -	- - - -	- - - -	- - - -
Truck and pipeline ² . Rail and water Inland water and Great Lakes Inland water and deep sea	- - -	- - -	- - - -	- - - -	- - - -	- - - -	- - -
Other Modes							
Other and unknown modes STCC 48, WASTE HAZARDOUS MATERIALS OR	_	-	_	_	_	_	-
WASTE HAZARDOUS SUBSTANCES Total	_	(S)	_	(S)	_	(S)	(S)
Single Modes Parcel, U.S. Postal Service, or courier	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Private truck For-hire truck Air Rail	(D)	(D) (S) (D) -	(D)	(S) (D) -	(D)	(D)	(S) (D) - -
Inland water Great Lakes Deep sea water Pipeline ²	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -
Multiple Modes							
Private truck and for-hire truck. Truck and air Truck and rail. Truck and water	- - - -	- - -	- - - -	- - - -	- - - -	- - - -	= = = = = = = = = = = = = = = = = = = =
Truck and pipeline ² . Rail and water Inland water and Great Lakes Inland water and deep sea	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	_ _ _ _
Other Modes Other and unknown modes	_	_	_	_	_	_	_

TRANSPORTATION-COMMODITY FLOW SURVEY

[For explanation of terms and meaning of abbreviations and symbols, see introductory text. Detail may not add to total because of rounding]

	Val	ue	To	ons	Ton-n	niles ¹	
STCC code, description, and mode of transportation	Number (million dollars)	Percent	Number (thousands)	Percent	Number (millions)	Percent	Average miles per shipment ¹
COMMODITY UNKNOWN							
Total	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Single Modes							
Parcel, U.S. Postal Service, or courier Private truck For-hire truck Air Rail	3 (S) (S) -	10.1 (S) (S) -	(S) (S) -	2.2 (S) (S) -	(S) (S) -	1.6 (S) (S)	(S) (S) (S) -
Inland water Great Lakes Deep sea water Pipeline ²	- - -	- - - -	- - - -	- - - -	- - -	- - - -	- - - -
Multiple Modes							
Private truck and for-hire truck. Truck and air Truck and rail Truck and water	- - -	- - -	- - -	- - -	- - -	- - -	(S) - -
Truck and pipeline ²	- - - -	- - - -	- - - -	- - - -	- - -	- - - -	- - - -
Other Modes							
Other and unknown modes	_	(S)	-	(S)	-	_	(S)

Note: "Deep sea water" as a single mode describes shipments moving only on the open waters of the oceans or the Gulf of Mexico. Most shipments moving primarily on the open ocean are tabulated under "Inland water and deep sea".

<sup>Represents zero or less than 1 unit of measure.
(D) Denotes figures withheld to avoid disclosing data for individual companies.
(S) Data do not meet publication standards due to high sampling variability or other reasons.
Some unpublished estimates can be derived by subtracting published data from their respective totals. However, the figures obtained by such subtraction are subject to these same limitations.</sup>

¹Average miles and ton-miles are based on the estimated distance traveled, not on Great Circle Distance. See the "Mileage Calculations" section of this report for explanation. Calculation of average miles per shipment excludes shipments of STCC 27, Printed Matter. See "About the Data" section of this report for further explanation.

²CFS data for pipelines exclude most shipments of crude oil. See "About the Data" section for details of CFS coverage.

Table 7. Shipment Characteristics by State of Destination for State of Origin: 1993

[For explanation of terms and meaning of abbreviations and symbols, see introductory text. Detail may not add to total because of rounding]

	Value		Tons		Ton-miles ¹	
State of Destination	Number (million dollars)	Percent	Number (thousands)	Percent	Number (millions)	Percent
Total	42 534	100.0	97 992	100.0	50 324	100.0
NEW ENGLAND STATES						
Connecticut Maine Massachusetts New Hampshire Rhode Island Vermont	114 17 373 (S) (S)	.3 - .9 (S) (S)	26 5 188 (S) (S) (S)	_ 	37 8 297 (S) (S) (S)	.1 - .6 - -
MIDDLE ATLANTIC STATES						
New Jersey New York Pennsylvania	680 913 960	1.6 2.1 2.3	224 274 371	.2 .3 .4	314 351 459	.6 .7 .9
EAST NORTH CENTRAL STATES						
Illinois Indiana Michigan Ohio Wisconsin	1 969 764 1 015 1 013 663	4.6 1.8 2.4 2.4 1.6	1 690 359 431 488 383	1.7 .4 .4 .5 .4	915 245 365 435 241	1.8 .5 .7 .9 .5
WEST NORTH CENTRAL STATES						
lowa Kansas Minnesota Missouri Nebraska North Dakota South Dakota	2 460 1 776 1 030 1 489 12 357 101 609	5.8 4.2 2.4 3.5 29.1 .2 1.4	4 488 5 073 1 055 3 439 48 004 (S) 646	4.6 5.2 1.1 3.5 49.0 (S)	808 1 278 (S) 1 069 2 026 (S) 159	1.6 2.5 (S) 2.1 4.0 - .3
SOUTH ATLANTIC STATES						
Delaware	45 7 557 708 430	.1 1.3 1.7 1.0	(S) (S) 214 171 134		(S) (S) 326 193 165	- .6 .4 .3
North Carolina South Carolina Virginia West Virginia	339 103 363 197	.8 .2 .9 .5	(S) 31 126 57	(S) - .1 .1	(S) 39 178 60	(S) .1 .4 .1
EAST SOUTH CENTRAL STATES						
Alabama	321 172 104 612	.8 .4 .2 1.4	154 59 32 441	.2 .1 .5	164 49 30 364	.3 .1 .1 .7
Arkansas	388	.9	(9)	(9)	(8)	(9)
Andribas Louisiana Oklahoma Texas	630 338 2 518	1.5 .8 5.9	(S) (S) 624 6 291	(S) (S) .6 6.4	(S) (S) 265 7 311	(S) (S) .5 14.5
MOUNTAIN STATES						
Arizona Colorado Idaho Montana Nevada New Mexico Utah Wyoming	185 1 007 181 166 132 85 172	.4 2.4 .4 .3 .2 .4	92 2 292 680 190 40 50 371 (S)	.1 2.3 .7 .2 - .1 .4 (S)	129 807 716 170 51 40 332 44	.3 1.6 1.4 .3 .1 .1 .7 .1
PACIFIC STATES						
Alaska California Hawaii Oregon Washington	(S) 2 668 22 365 1 197	6.3 .1 .9 2.8	3 836 (S) 158 8 507	3.9 - 2 8.7	6 901 (S) 282 15 126	13.7 13.7 .6 30.1

<sup>Represents zero or less than 1 unit of measure.
(D) Denotes figures withheld to avoid disclosing data for individual companies.
(S) Data do not meet publication standards due to high sampling variability or other reasons.
Some unpublished estimates can be derived by subtracting published data from their respective totals. However, the figures obtained by such subtraction are subject to these same limitations.</sup>

¹Ton-miles are based on the estimated distance traveled, not on Great Circle Distance. See the "Mileage Calculations" section of this report for further explanation.

Appendix A.

Comparability With Previous Surveys

The Commodity Flow Survey (CFS) restores a data program on commodity flows that the Census Bureau conducted as a part of its 5-year economic census program from 1963 through 1977. The Census Bureau last published commodity flow data for the 1977 Commodity Transportation Survey (CTS). Data collected for a modified 1983 CTS did not meet the Census Bureau quality

standards, and were not published. Funding was not available to conduct the 1987 CTS. The following table shows a comparison of the 1977, 1983, and 1993 surveys. For the 1993 CFS, the Census Bureau incorporated improvements identified from the evaluation of previous surveys and additional research.

Item	1977	1983 ¹	1993
1. Industry coverage	All manufacturers	All manufacturers	Manufacturers (minor exceptions)
		Selected mining establishments	Mining (except mining services and oil and gas extraction)
		Grain wholesalers Petroleum bulk plants	All wholesale
		The state of the s	Video tape distributers
			Catalog mail-order houses
			Auxiliaries (e.g., warehouses)
2. Sample size	Approximately 20,000 establishments selected from the Census of Manufactures' universe of 350,000	Approximately 71,000 establishments selected from a universe of approximately 339,000 in-scope establishments on the 1982 SSEL	Approximately 200,000 establishments selected from a universe of approximately 800,000 in-scope establishments on the 1992 SSEL
3. Survey methodology	Respondents took a sample of all shipments for the previous year. For each sampled shipment, respondents reported data,	Respondents summarized data on their shipments for the previous year No shipment sample No reporting of commodity	Respondents took a sample of their individual outbound ship- ments for a 2-week period dur- ing each of the four calendar quarters of 1993
	including commodity code	No reporting or commodity	For each sampled shipment, respondents reported data, including commodity code
4. Mode of transportation	Rail	Piggyback rail Rail	Rail
	For-hire motor carrier, ICC For-hire motor carrier, non-ICC	Motor carrier	For-hire truck
	Private truck	Private truck	Private truck
	Air	Air	Air
	Water	Water	Inland water and/ or Great Lakes Deep sea water
	Pipeline		Pipeline
	Parcel delivery	Parcel delivery	Parcel delivery Courier U.S. Postal Service
	Other	Other	Other/ unknown

Item	1977	1983 ¹	1993
5. Data items requested on questionnaire	For each shipment: Total value Value of each commodity	Aggregated data for 1983: Total value of products shipped and services	For each shipment: Total value
	Total weight Weight of each commodity	Total weight of products shipped Total percent of weight exported Total percent of weight shipped < 25 miles	Total weight
	All commodities		Major commodity
	Primary mode of transportation		All modes of transportation
	Origin (considered as estab- lishment's mailing address)	Origin (considered as estab- lishment's mailing address)	Origin (respondent provided; could be other than mailing address)
	Destination	For each State of destination: Total weight shipped Percent of weight, by mode Percent of weight exported	Destination Containerized (Y/N) Hazardous material (Y/N) Export (Y/N)

¹The 1983 survey results were not published because post survey evaluation uncovered significant deficiencies in the quality of the data.

Appendix B. Reliability of the Data

RELIABILITY OF THE ESTIMATES

An estimate based on a sample survey potentially contains two types of errors—sampling and nonsampling. Sampling errors occur because the estimate is based on a sample, not on the entire universe. Nonsampling errors can be attributed to many sources in the collection and processing of the data. The accuracy of a survey result is affected jointly by the two types of errors. The following is a description of the sampling and nonsampling errors associated with the estimates computed from the 1993 Commodity Flow Survey (CFS).

MEASURES OF SAMPLING VARIABILITY

Because the estimates were based on a sample, exact agreement with the results that would be obtained from a complete census of establishments in the CFS frame using the same enumeration procedure was not expected. However, because each establishment in the Standard Statistical Establishment List (SSEL) in the specified Standard Industrial Classifications (SIC) had a known probability of being selected into the sample, it is possible to estimate the sampling variablity of the estimates.

The standard error of the estimate is a measure of the variability among the values of the estimate computed from all possible samples of the same size and design. Thus, it is a measure of the precision with which an estimate from a particular sample approximates the results of a complete enumeration. The coefficient of variation is the standard error of the estimate divided by the value being estimated. It is expressed as a percent. Note that measures of sampling variability, such as the standard error or coefficient of variation, are estimated from the sample and are also subject to sampling variability. Coefficients of variation for number of shipments, dollar value, shipment weight (tons), and ton-miles estimates are shown in tables B-1 through B-7 in this appendix. Standard errors for the corresponsing percentage estimates are also shown there.

The standard errors and coefficients of variation presented in these tables permit certain confidence statements about the sample estimates. The particular sample used in this survey was one of a large number of samples of the same size that could have been selected using the same design. In about 9 out of 10 (90 percent) of these samples, the estimates would differ from the results of a

complete enumeration by less than 1.65 times the standard error of the estimate. In about 19 out of 20 (95 percent) of the samples, the estimates would differ from the result of a complete enumeration by less than twice the standard error of the estimate.

To illustrate the computations involved in the above confidence statements as related to the dollar value estimates, assume that an estimate of shipment value published in table 6 is \$10,750 million for a particular commodity and mode of transportation, and that the coefficient of variation for this estimate, as given in appendix A, table B-6 is 1.8 percent, or 0.018. Multiplying \$10,750 million by 0.018 yields the standard error, \$194 million. Typical practice is to construct a 90- or 95-percent confidence interval. Multiplying \$194 million by 1.65 gives \$320 million. Therefore, a 90-percent confidence interval is \$10,430 million to \$11,070 million (\$10,750 million plus or minus \$320 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 the intervals would contain the figure obtained from a complete enumeration. Similarly, a 95-percent confidence interval is \$10,362 million to \$11,138 million (\$10,750 million plus or minus \$388 million).

To illustrate the computations involved related to the percentage estimates, assume that the percentage estimate of shipment value published in table 6 is 25 percent for a particular commodity and mode of transportation, and that the standard error of this estimate, as given in appendix A, table B-6 is 2.2 percent, or 0.022. Multiplying 2.2 percent by 1.65 gives 3.6 percent. So a 90-percent confidence interval is 21.4 percent to 28.6 percent (25 percent plus or minus 3.6 percent.) If corresponding confidence intervals were constructed for all possible samples of the same size and design, approximately 9 out of 10 (90 percent) of the intervals would contain the figure obtained from a complete enumeration.

NONSAMPLING ERRORS

As calculated for this report, the standard error and coefficient of variation measures sampling errors but does not measure any systematic biases in the data. Bias is the difference, averaged over all possible samples of the same size and design, between the estimate and the true value being estimated.

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In the CFS as in other surveys nonsampling errors can be attributed to many sources: (1) inability to obtain information about all cases in the sample, (2) response errors, (3) definitional difficulties, (4) differences in the interpretation of questions, (5) mistakes in coding or recoding the data obtained, and (6) other errors of collection, response, coverage, and estimation. These nonsampling errors also occur in complete censuses.

Some sources of error are specific to the CFS: (1) Some respondents may have sampled incorrectly when selecting a sample of their documents, (2) some reporters may have used but not reported other units for their measurements—tons instead of pounds, dollars instead of thousands of dollars, etc., (3) on any shipment selected for sample, only the major commodity (by weight) was reported; secondary commodities within shipments were not recorded. Although unlikely, this might lead to a net undercoverage of some

secondary commodities. These and other problems could yield a bias of undetermined amount in certain estimates.

Another possible source of bias in estimating the number of shipments, value, shipment weight (tons), and ton-miles is the imputation of missing data and for data which fail edit. Any systematic error in the imputation procedure can introduce bias into the estimates.

Although no direct measurement of the 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.

Biases in the published estimates are due in large part to imputing data for nonrespondents and for data which fail edit. The overall imputation rate for the survey was 30 to 40 percent.

Table B-1. Measures of Reliability for Shipment Characteristics by Mode of Transportation for State of Origin: 1993

	Val	ue	То	ns	Ton-r	miles	Average miles per
Mode of transportation	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	shipment— coefficient of variation
All modes	2.9	_	6.1	-	21.4	-	18.6
SINGLE MODES							
Parcel, U.S. Postal Service, or courier Private truck For-hire truck	8.1 7.6 4.4 (S)	.6 1.6 1.5	11.2 9.2 8.7 81.3	4.9 2.9 –	16.5 23.2 4.1 74.9	.1 2.0 7.7 –	13.0 12.7 6.0 (S)
Rail Inland water Great Lakes Deep sea water Pipeline	19.4 (D) - - -	2.1 (D) - - -	24.0 (D) - - -	6.0 (D) - - -	28.5 (D) - - -	9.3 (D) - - -	9.5 (D) - - -
MULTIPLE MODES							
Private truck and for-hire truck	(S) 12.5 27.7 (D)	_ _ .1 (D)	(S) 18.6 47.0 (D)	_ _ .1 (D)	(S) 19.7 44.2 (D)	- - .5 (D)	(S) 2.8 14.1 (D)
Truck and pipeline	- - - -	- - - -	- - - -	- - - -	- - -	- - -	- - - -
OTHER MODES							
Other and unknown modes	20.3	.3	21.3	.2	20.3	.3	14.7

Note: For description of the development and uses of measures of reliability, see Appendix B, Reliability of the Data.

Table B-2. Measures of Reliability for Shipment Characteristics by Total Modal Activity for State of **Origin: 1993**

	Ton-ı	miles	Average miles per	
Mode of transportation	Coefficient of variation of number	Standard error of percentage	shipment — coefficient of variation	
Total	21.4	-	18.6	
Parcel, U.S. Postal Service, or courier, total. Truck, total Air, total Rail, total Inland water, total.	7.0 19.2 28.3	.1 9.5 - 9.1 (S)	13.0 10.5 3.1 8.5 (S)	
Great Lakes, total	(S)	- .1 - .3	(S) 14.7	

Note: For description of the development and uses of measures of reliability, see Appendix B, Reliability of the Data.

<sup>Represents data cell equal to zero or less than 1 unit of measure.
(D) Denotes figures withheld to avoid disclosing data for individual companies.
(S) Data do not meet publication standards due to high sampling variability or other reasons.</sup>

Represents data cell equal to zero or less than 1 unit of measure.
 (D) Denotes figures withheld to avoid disclosing data for individual companies.
 (S) Data do not meet publication standards due to high sampling variability or other reasons.

Table B-3. Measures of Reliability for Shipment Characteristics by Mode of Transportation and Distance Shipped for State of Origin: 1993

Mode of transportation and distance shipped	Val	ue	То	ns	Ton-r	niles
(based on Great Circle Distance)	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 MODES						
Total Less than 50 miles	2.9 10.3	- 1.7	6.1 8.1	- 5.4	21.4 11.1	- 1.2
50 to 99 miles	7.0 8.1	.4 1.1	11.4 15.7	.7 1.4	11.4 14.6	.7 1.8
250 to 499 miles	7.8 4.7	1.0 .5	22.4 14.3	2.0 .4	22.7 15.0	2.9 2.2
750 to 999 miles 1,000 to 1,499 miles 1,500 to 1,999 miles 2,000 miles or more	8.8 8.0 36.1 44.7	.9 1.9 .1 -	33.9 34.2 35.3 (S)	2.6 4.6 –	37.8 34.9 35.0 (S)	5.7 8.6 .1 (S)
SINGLE MODES						
Parcel, U.S. Postal Service, or courier	8.1 12.8	1.2	11.2 21.5	2.6	16.5 15.9	- .1
50 to 99 miles 100 to 249 miles 250 to 499 miles 500 to 749 miles	33.3 16.4 9.0 15.8	2.3 2.4 1.3 1.7	17.6 15.4 15.7 14.2	1.7 2.4 1.0 1.5	16.8 15.4 13.6 14.2	.3 1.1 1.1 1.6
750 to 999 miles	17.4 20.2	1.6 3.7	9.7 25.0	1.1 3.0	9.9 25.4	1.4 3.8
1,500 to 1,999 miles	(S) 45.8	(S)	41.7 59.1	.2 (S)	40.7 50.3	.4 (S)
Private truck	7.6 13.3	3.2	9.2 11.7	- 3.1	23.2 15.2	3.5
50 to 99 miles 100 to 249 miles	10.6 8.9	.9 1.8	12.8 14.2	1.2 1.1	12.9 15.2	1.8 2.8
250 to 499 miles	11.7 13.1	1.0 .8	22.7 (S)	.6 (S)	26.1 (S)	2.3 (S)
750 to 999 miles	25.9 25.8	.3 1.1	31.5 29.6	.1 .2	30.5 28.7	.7 2.5
1,500 to 1,999 miles	(S) -		(S) -	_ _	56.1 -	- -
For-hire truck Less than 50 miles	4.4 6.3	.5	8.7 12.1	- 1.7	4.1 21.1	- .8
50 to 99 miles	11.0 10.9	.7 1.3	17.6 17.8	1.6 2.2	16.6 18.1	.6 2.0
250 to 499 miles	10.2 6.2	1.6 .8	11.2 4.5	1.4 .6	10.4 4.7	2.0 1.0
750 to 999 miles	7.0 11.0	.8 1.9	7.7 10.5	.4 1.1	7.8 10.2	1.0 2.8
1,500 to 1,999 miles	42.6 73.4	.1_	43.0 70.5	_ _	43.3 71.7	.2
Air	(S) _	(S)	81.3	(S)	74.9	(S)
50 to 99 miles	-	_			_	
250 to 499 miles 500 to 749 miles	(D) 73.0	(D) (S)	(D) 80.3	(D) (S)	(D) 73.7	(D) (S)
750 to 999 miles	(D)	(D)	(D)	(D)	(D)	(D)
1,500 to 1,999 miles 2,000 miles or more		=	_	_ _	_	=
Rail Less than 50 miles	19.4 39.3	.6	24.0 37.8	_ .5	28.5 46.6	
50 to 99 miles 100 to 249 miles 250 to 499 miles	45.1 39.1 27.4	.1 3.5 5.1	(S) (S) 34.2	(S) (S)	(S) 37.0 33.0	(S) 2.4 5.6
500 to 749 miles	9.2	2.8	20.2	6.3 3.7	23.2	4.3
750 to 999 miles 1,000 to 1,499 miles 1,500 to 1,999 miles	33.5 28.8	4.0 7.0	36.7 39.9	5.6 9.4	36.4 39.6	6.1 11.2
2,000 miles or more	-	- -	(D)	- -		
Inland water	(D) -	(D) -	(D) -	(D) -	(D) -	(D) -
50 to 99 miles 100 to 249 miles 250 to 499 miles		=	- -	= =	_ _ _	=
500 to 749 miles	-		_	_	-	-
750 to 999 miles 1,000 to 1,499 miles 1,500 to 1,999 miles	(D) -	(D) 	(D) -	(D) 	(D) - -	(D)
2,000 miles or more Great Lakes	_	-	-	-	_	_
Less than 50 miles	_	_	_	_	_	_
50 to 99 miles 100 to 249 miles 250 to 499 miles 500 to 749 miles		- - - -		- - - -	- - - -	=======================================
750 to 999 miles			-	_ _	_	_ _
1,500 to 1,999 miles	_	_ _	- -	- -	_	- -
Deep sea water	_	-	- -	_ _	_	-
50 to 99 miles		_ _	- -	-		
250 to 499 miles		-		_ _	_	

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Table B-3. Measures of Reliability for Shipment Characteristics by Mode of Transportation and Distance Shipped for State of Origin: 1993—Con.

	Val	lue	То	ns	Ton-miles	
Mode of transportation and distance shipped (based on Great Circle Distance)	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
SINGLE MODES—Con.						
Deep sea water—Con.	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -
100 to 249 miles 250 to 499 miles 500 to 749 miles	_ _ _	- - -	_ _ _	- - - -	- - -	- - - -
750 to 999 miles	- - - -	- - -	- - -	- - -	- - - -	- - -
MULTIPLE MODES						
Private truck and for-hire truck Less than 50 miles 50 to 99 miles 100 to 249 miles 250 to 499 miles 500 to 749 miles	88.2 100.0 (D) (D)	(S) (S) (S) (D) (D)	93.5 (S) (D) (D)	(S) (S) (S) (D) (D)	58.5 93.7 100.0 (D) (D)	(S) (S) (D) (D)
750 to 999 miles	- - - -	- - -	- - -	- - -	- - - - -	- - -
Truck and air Less than 50 miles 50 to 99 miles 100 to 249 miles 250 to 499 miles 500 to 749 miles	12.5 - (S) 41.6 26.6 27.5	(S) .1 5.1 6.6	18.6 - 88.8 38.5 26.2 28.1	(S) .4 3.1 4.0	19.7 - 87.9 36.2 27.4 27.0	(S) .1 2.1 3.5
750 to 999 miles 1,000 to 1,499 miles 2,000 miles or more Truck and rail	30.3 19.8 (S) 27.7	5.5 4.1 - (S)	37.5 22.7 - 46.4 47.0	3.5 7.0 - .3 -	38.1 25.3 - 47.5 44.2	3.6 7.3 — 1.0
Less than 50 miles 50 to 99 miles 100 to 249 miles 250 to 499 miles 500 to 749 miles	(S) (D) (S) (D)	(S) (D) (S) (D)	100.0 (D) (S) (D)	(S) (D) (S) (D)	100.0 (D) (S) (D)	(D) (S) (D)
750 to 999 miles 1,000 to 1,499 miles 1,500 to 1,999 miles 2,000 miles or more Truck and water.	100.0 38.0 (S) - (D)	(S) 14.5 (S) - (D)	(S) 39.6 (S) - (D)	(S) 17.3 (S) - (D)	100.0 37.2 100.0 - (D)	(S) 14.3 (S) - (D)
Less than 50 miles 50 to 99 miles 100 to 249 miles 250 to 499 miles 500 to 749 miles 500 to 749 miles	- - -	- - - -	- - -	- - - - -	- - - -	- - - -
750 to 999 miles 1,000 to 1,499 miles 1,500 to 1,999 miles 2,000 miles or more Truck and pipeline.	- - (D)	 (D) 	- - (D)	 (D) 		 (D)
Less than 50 miles	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -
750 to 999 miles 1,000 to 1,499 miles 1,500 to 1,999 miles 2,000 miles or more Rail and water.	- - -	- - - -	- - -	- - - -	- - - -	- - - -
Less than 50 miles	- - - -	- - - - -	- - - -	- - - - -	- - - - -	- - - - -
750 to 999 miles	- - - -	- - - -	- - -	- - -	- - - -	- - - -
100 to 249 miles 250 to 749 miles	- - - -	- - - - - -	- - - -	- - - - -	- - - - -	- - - - -

Table B-3. Measures of Reliability for Shipment Characteristics by Mode of Transportation and Distance Shipped for State of Origin: 1993-Con.

Made of transportation and distance skinned	Val	ue	То	ns	Ton-	miles
Mode of transportation and distance shipped (based on Great Circle Distance)	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
MULTIPLE MODES—Con.						
Inland water and Great Lakes—Con. 750 to 999 miles	- - - -	- - - -	- - -	- - - -	- - - -	- - - -
Inland water and deep sea	-	-	_	-	-	-
Less than 50 miles	- - - -	- - - -	- - -	- - - -	- - - -	- - -
750 to 999 miles	- - - -	- - - -	-	- - - -	- - - -	- - - -
OTHER MODES						
Other and unknown modes	20.3	_	21.3	_	20.3	_
Less than 50 miles 50 to 99 miles 100 to 249 miles 250 to 499 miles 500 to 749 miles	14.8 32.6 24.6 35.8 (D)	5.7 1.3 5.0 2.6 (D)	33.1 46.4 (S) (S) (D)	10.9 2.0 (S) (S) (D)	41.6 44.3 (S) (S) (D)	3.5 1.2 (S) (S) (D)
750 to 999 miles 1,000 to 1,499 miles 1,500 to 1,999 miles 2,000 miles or more	(D) (D) (S) (D)	(D) (D) (S) (D)	(D) (D) 100.0 (D)	(D) (D) (D)	(D) (D) 100.0 (D)	(D) (D) (S) (D)

Note: For description of the development and uses of measures of reliability, see Appendix B, Reliability of the Data.

Represents data cell equal to zero or less than 1 unit of measure.
 (D) Denotes figures withheld to avoid disclosing data for individual companies.
 (S) Data do not meet publication standards due to high sampling variability or other reasons.

Table B-4. Measures of Reliability for Shipment Characteristics by Mode of Transportation and Shipment Size for State of Origin: 1993

	Val	ue	То	ns	Ton-r	miles	Average miles per
Mode of transportation and shipment size	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	shipment — coefficient of variation
ALL MODES							
Total	2.9	_	6.1	_	21.4	_	18.6
Less than 50 lb	7.6	.6	11.7	_	17.5	.1	17.4
50 to 99 lb	11.5	.6 .2	11.7	-	29.0	-	19.4
100 to 499 lb	6.8 8.9	.4 .2	8.1 10.0	.1	9.5 10.5	.1	8.4 10.8
750 to 999 lb	8.7	.1	12.4	_	9.8	_	10.0
1,000 to 9,999 lb	5.6	.9	11.0	.8	6.7	1.0	11.7
10,000 to 49,999 lb	6.8 15.4 16.1	2.2 1.1 1.7	6.2 13.2 18.3	3.0 3.3 5.4	5.4 16.2 26.7	6.3 1.9 9.0	6.2 9.7 13.2
SINGLE MODES							
Parcel, U.S. Postal Service, or							
courier	8.1	-	11.2	-	16.5	_	13.0
Less than 50 lb	8.9	2.5	13.3	2.8	18.7	5.6	13.5
50 to 99 lb	16.3 14.2	1.7 1.2	19.5 9.5	1.5 1.7	36.2 11.3	2.6	12.0 8.3
500 to 749 lb	24.2	.1	27.5	.5	28.0	3.2 .5 .7	17.2
750 to 999 lb	48.7	.1	41.1	1.2	36.9	.7	47.8
1,000 to 9,999 lb	-	-	-		-	-	-
10,000 to 49,999 lb	_	_] =	_		_	_
100,000 lb or more	-	-	_	-	-	-	-
Private truck	7.6	-	9.2	-	23.2	-	12.7
Less than 50 lb	20.4	1.1	15.7	-	25.3	-	25.7
50 to 99 lb	13.7 9.8	.5 1.1	13.8 9.2	.2	24.2 16.3	.2	14.2 11.9
500 to 749 lb	10.6	.3	11.8	.1	17.8	.1	16.3
750 to 999 lb	15.9	.4	14.9	.1	14.7	.1	11.3
1,000 to 9,999 lb	8.1 14.4	1.3 2.7	14.7 8.8	1.0 2.6	12.3 14.7	1.9 4.2	17.2 12.5
50,000 to 99,999 lb	18.1	1.6	14.9	3.7	31.1	3.9	20.6
100,000 lb or more	35.1	.9	18.8	2.4	(S)	(S)	(S)
For-hire truck	4.4	-	8.7	-	4.1	-	6.0
Less than 50 lb	24.6 11.9	.1	18.1 12.0		32.2 19.2	_	17.3 33.4
100 to 499 lb	13.9	.6	9.7	-	10.3	.1	9.2
500 to 749 lb	11.9	.2	7.1	-	11.1	_	8.9
750 to 999 lb	11.7	.1	15.4	-	10.7	-	17.2
1,000 to 9,999 lb	6.3 7.5	1.3 2.8	7.7 8.1	.5 4.4	8.5 5.2	.7 3.5	5.9 6.1
50,000 to 99,999 lb	20.3	1.4	19.1	5.2	23.2	3.5	6.3
100,000 lb or more	33.1	.2	24.2	1.6	44.9	1.1	39.1
Air	(S)	(S)	81.3	-	74.9	(S)	(S)
Less than 50 lb	88.8	18.0	61.1	17.8	62.2	(S)	(S)
50 to 99 lb	(D)	(D)	(D)	(D)	(D)	(D)	(D)
500 to 749 lb	` <u>-</u>	` <u>-</u>	` _	` -	-	`-	`-
750 to 999 lb	_	_	_		_	_	_
1,000 to 9,999 lb	(D)	(D)	(D)	(D)	(D)	(D)	(D)
50,000 to 99,999 lb	_	_	_	_	_	_	_
100,000 lb or more	_	_	_	_	_	-	_
Rail	19.4	-	24.0	-	28.5	-	9.5
Less than 50 lb	75.4 100.0	_	44.3 100.0		53.8 100.0	_	(S) (S)
100 to 499 lb	100.0	_	100.0	_	100.0	_	(S)
500 to 749 lb	64.5	_	74.3		64.4	_	(S)
							-
1,000 to 9,999 lb	(S) 28.8	(S) 5.3	(S) 20.3	(S) .5	(S) 24.3	_ .8	(S) 9.4
50,000 to 99,999 lb	(S)	(S)	45.1	.5	42.5	.3	24.8
100,000 lb or more	20.8	5.5	24.2	.7	28.7	1.0	8.5
Inland water	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Less than 50 lb	_	_ _	_ _			_ _	- -
100 to 499 lb	-	-	-	_	_	_	=
500 to 749 lb	_	_ _	_ _	-		_	_ _
	_	_	_			_	_
1,000 to 9,999 lb						_ _	
50,000 to 99,999 lb		_	_	_	_	_	_
100,000 lb or more	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Great Lakes	_	-	-	-	_	-	-
Less than 50 lb		_				_	_
100 to 499 lb	_	_	-	=	_	-	_
500 to 749 lb	_	_ _				_	_ _
	_	_	_			_[_
1,000 to 9,999 lb		_ _	_ _	-		-	_ _
50,000 to 99,999 lb	-	=	-	=	-	-	_
100,000 lb or more	-	_	-	_	_	-	_
Deep sea water	-	-	_	-	_	-	-
Less than 50 lb	-	_ _	_ _			_	-
100 to 499 lb		_	-	=	-	_	
500 to 749 lb	_	_ _	-			-	_
750 to 999 lb	-1	_	-	_	- 1	-1	_

Table B-4. Measures of Reliability for Shipment Characteristics by Mode of Transportation and Shipment Size for State of Origin: 1993—Con.

	Valu	ue	То	ns	Ton-r	miles	Average miles per
Mode of transportation and shipment size	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	shipment — coefficient of variation
SINGLE MODES—Con.							·
Deep sea water—Con. 1,000 to 9,999 lb	- - - -	- - - -	- - -	- - - -	- - -	- - -	- - - -
Pipeline	- - - - -	- - - - -	- - - -	- - - - -	- - - - -	- - - - - -	- - - - -
1,000 to 9,999 lb	- - -	_ _ _	- - -	_ _ _	- - -	- - -	_ _ _
MULTIPLE MODES							
Private truck and for-hire truck Less than 50 lb 50 to 99 lb 100 to 499 lb 500 to 749 lb 750 to 999 lb	(S) 79.9 91.1 100.0 100.0 100.0	(S) - 1.3 - .5 .2	(s) 74.2 95.9 100.0 100.0 100.0	(S) - - 3 - .6 .3	(S) 72.7 96.0 100.0 100.0 100.0	(S)6 .3	(S) (S) (S) (S) (S)
1,000 to 9,999 lb	(D) (D) -	(D) (D) 	(D) (D) -	(D) (D) 	(D) (D) -	(D) (D) - -	(D) (D)
Truck and air. Less than 50 lb 50 to 99 lb. 100 to 499 lb 500 to 749 lb 750 to 999 lb	12.5 15.8 43.9 31.3 28.1 (S)	7.1 3.1 4.6 1.1 (S)	18.6 36.7 28.4 19.6 37.7 76.8	5.4 1.1 4.6 5.8 2.6	19.7 36.6 34.7 17.2 44.3 77.6	5.9 1.2 5.3 6.2 (S)	2.8 2.9 6.6 4.8 16.6 (S)
1,000 to 9,999 lb	(S) (S) - -	(S) (S) -	45.8 100.0 -	9.9 6.3 –	45.8 (S) -	10.6 (S) - -	21.5 (S) -
Truck and rail Less than 50 lb 50 to 99 lb 100 to 499 lb 500 to 749 lb 750 to 999 lb	27.7 - - - - - -	- - - - -	47.0 - - - - -	- - - -	44.2 - - - - -	- - - - -	14.1 - - - - -
1,000 to 9,999 lb 10,000 to 49,999 lb 50,000 to 99,999 lb 100,000 lb or more Truck and water	(S) 27.3 (S) (S) (D)	(S) 9.8 (S) (S) (D)	(S) 19.8 (S) (G) (D)	(S) 17.3 (S) (S) (D)	(S) 20.9 (S) (S) (D)	10.5 15.2 (S) (S) (D)	(S) 14.1 (S) (S) (D)
Less than 50 lb	- - - -	- - - -	-	- - - -	- - - -	- - - -	_ _ _ _
1,000 to 9,999 lb 10,000 to 49,999 lb 50,000 to 99,999 lb 100,000 lb or more Truck and pipeline	(D) (D) - -	(D) (D) - -	(D) (D) -	(D) (D) - -	(D) (D) -	(D) (D) - -	(D) (D) - -
Less than 50 lb 50 to 99 lb 100 to 499 lb 500 to 749 lb 500 to 749 lb 550 to 999 lb	- - - -	- - - -	-	_ _ _ _	- - - -	- - - -	_ _ _ _
1,000 to 9,999 lb 10,000 to 49,999 lb 50,000 to 99,999 lb 100,000 lb or more Rail and water	- - - -	_ _ _ _	-	_ _ _	- - -	- - - -	_ _ _
Less than 50 lb	- - - - -	- - - - -	- - - -	- - - - -	- - -	- - - -	- - - - -
1,000 to 9,999 lb 10,000 to 49,999 lb 50,000 to 99,999 lb 100,000 lb or more Inland water and Great Lakes.	- - - -	_ _ _		_ _ _	- - - -	- - -	_ _ _
Less than 50 lb 50 to 99 lb. 100 to 499 lb 500 to 749 lb 500 to 749 lb 750 to 999 lb 500 to 990 lb 500 lb 5	- - - - -	- - - -	- - - - -	- - - -	- - - - -	- - - -	- - -

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Table B-4. Measures of Reliability for Shipment Characteristics by Mode of Transportation and Shipment Size for State of Origin: 1993-Con.

-			_				
	Va	lue	То	ns	Ton-ı	miles	Average miles per
Mode of transportation and shipment size	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	shipment— coefficient of variation
MULTIPLE MODES—Con.							
Inland water and Great Lakes—Con. 1,000 to 9,999 lb	_	_	_	_	_	_	_
10,000 to 49,999 lb	-	-	_	_	-	-	-
50,000 to 99,999 lb			-	-		_ _	_
Inland water and deep sea	_	-	-	-	_	-	-
Less than 50 lb	_	-	-	-	_	-	_
50 to 99 lb	-	-	_	_	-	-	_
100 to 499 lb			_	_	_	_	_
750 to 999 lb	_	_	_	_	_	_	_
1,000 to 9,999 lb	_	-	_	_	_	_	_
10,000 to 49,999 lb	-	=	-	-	-	-	-
50,000 to 99,999 lb	_	-	_	_	_	-	_
100,000 ib of filore	_		_		_	_	
OTHER MODES							
Other and unknown modes	20.3	-	21.3	_	20.3	_	14.7
Less than 50 lb	20.9	3.5	(S)	(S) .2	31.1	_	25.7
50 to 99 lb	39.0	.8	25.7	<u>.</u> 2	16.8		26.7
100 to 499 lb	(D) 40.6	(D) 2.0	(D) 33.6	(D) .2	(D) 42.1	(D)	(D)
750 to 999 lb	39.9	2.0	32.2	.1	49.8	.1	(D) (S) 29.8
						• •	
1,000 to 9,999 lb	20.4	3.8	31.8	5.8	34.6	6.9	27.5
10,000 to 49,999 lb	29.0	5.2	47.4	8.9	29.3	10.3	(S)
50,000 to 99,999 lb	44.6 (D)	.7 (D)	(S) (D)	(S) (D)	35.5 (D)	3.0 (D)	(S) (S) (D)
100,000 10 01 111010 111111111111111111	(B)	(B)	(B)	(B)	(B)	(B)	(B)

Note: For description of the development and uses of measures of reliability, see Appendix B, Reliability of the Data.

Represents data cell equal to zero or less than 1 unit of measure.
 (D) Denotes figures withheld to avoid disclosing data for individual companies.
 (S) Data do not meet publication standards due to high sampling variability or other reasons.

Table B-5. Estimated Coefficients of Variation for Shipment Characteristics by Commodity for State of Origin: 1993

STCC	Commodity description	Value	Tons	Ton-miles	Average miles per shipment
	ALL COMMODITIES				
	Total	2.9	6.1	21.4	18.6
01 08	Farm products Forest products	15.4	17.4	28.2	29.7
09 10 11	Fresh fish or other marine products Metallic ores. Coal	(S) (D)	(S) (D)	96.3 (D)	(S) (D)
13 14	Crude petroleum, natural gas, or gasoline	(S) 23.8	(S) 13.0	72.8 22.1	(S) 15.7
19 20	Ordinance or accessories Food or kindred products	40.9 12.3	33.4 14.5	32.2 9.5	15.7 15.3 8.3
21	Tobacco products, excluding insecticides	(S)	(S)	50.2	(S)
22	Textile mill products	24.0	25.2	34.1	20.1
23 24 25	Apparel or other finished textile products Lumber or wood products, excluding furniture	23.5 20.9	32.1 28.1	27.5 38.2	7.5 19.5
25 26	Furniture or fixtures. Pulp, paper, or allied products	41.8 12.6	(S) 27.7	(S) 18.6	(S) 26.3
27	Printed matter	(S)	(S)	(S)	
28 29 30	Chemicals or allied products Petroleum or coal products.	15.8 17.6	19.7 22.6	17.4 22.8	26.3 42.8
31	Rubber or miscellaneous plastics products	16.9 22.8	17.7 (S)	23.5 55.2	21.4 (S)
32	Clay, concrete, glass, or stone products	16.3	21.6	18.0	30.6
33 34	Primary metal products	15.3 12.6	20.6 20.0	16.6 17.0	10.5 17.0
35 36	Machinery, excluding electrical	12.1 16.1	18.1 24.7	13.5 29.2	13.8 19.4
37	Transportation equipment	14.3	14.6	17.3	26.8
38 39	Instruments, photographic goods, optical goods, watches, or clocks	23.2 21.6	21.2 25.6	18.6 26.0	28.9 11.3
40 41	Waste or scrap materials	45.0 (D)	26.7 (D)	28.4 (D)	24.4 (D)
42 48	Containers, carriers or devices, shipping, returned empty	(S) 80.4	(S) 67.3	50.8 60.5	(S) (S) (S)
-	Commodity unknown	80.4 (S)	(S)	76.3	(S)

Note: For description of the development and uses of measures of reliability, see Appendix B, Reliability of the Data.

Represents data cell equal to zero or less than 1 unit of measure.
 (D) Denotes figures withheld to avoid disclosing data for individual companies.
 (S) Data do not meet publication standards due to high sampling variability or other reasons.

Table B-6. Measures of Reliability for Shipment Characteristics by Commodity and Mode of Transportation for State of Origin: 1993

STCC code description and made of	Val	ue	То	ns	Ton-r	miles	Average miles per
STCC code, description, and mode of transportation	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	shipment— coefficient of variation
ALL COMMODITIES							
Total	2.9	-	6.1	-	21.4	_	18.6
Single Modes							
Parcel, U.S. Postal Service, or courier Private truck	8.1 7.6 4.4	.6 1.6 1.5	11.2 9.2 8.7	4.9 2.9	16.5 23.2 4.1	.1 2.0 7.7	13.0 12.7 6.0
Air	(S) 19.4	2.1	81.3 24.0	6.0	74.9 28.5	9.3	(S) 9.5
Inland water Great Lakes Deep sea water Pipeline	(D) - - -	(D) - - -	(D) - - -	(D) - - -	(D) - - -	(D) - - -	(D) - - -
Multiple Modes							
Private truck and for-hire truck	(S) 12.5 27.7 (D)	 .1 (D)	(S) 18.6 47.0 (D)	_ .1 (D)	(S) 19.7 44.2 (D)	- .5 (D)	(S) 2.8 14.1 (D)
Truck and pipeline	- - - -	- - - -	-	- - - -	- - -	- - - -	- - - -
Other Modes							
Other and unknown modes	20.3	.3	21.3	.2	20.3	.3	14.7
STCC 01, FARM PRODUCTS							
Total	15.4	-	17.4	-	28.2	-	29.7
Single Modes							
Parcel, U.S. Postal Service, or courier Private truck For-hire truck Air	(S) 34.0 24.2 - 27.4	7.1 6.9 - 8.9	79.4 36.5 30.6 - 26.6	6.5 7.7 - 10.3	76.1 (S) 29.0 – 31.2	(S) 7.4 - 9.2	(S) (S) 23.1 – 13.6
Inland water	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Great Lakes Deep sea water Pipeline	(=) - -	(<u>-</u> - -	(2) - -	(5) - -	-	(e) - -	(5) - -
Multiple Modes							
Private truck and for-hire truck Truck and air	(S)	- - -	(S)	- - -	(S)	- .1 -	(S)
Truck and pipeline	- - -	- - -	- - -	- - -	- - -	- - -	- - - -
Other Modes							
Other and unknown modes	(D)	(D)	(D)	(D)	(D)	(D)	(D)
STCC 08, FOREST PRODUCTS							
Total	-	-	-	-	-	-	-
Single Modes							
Parcel, U.S. Postal Service, or courier Private truck For-hire truck	- - -	- - -	- 1	_ _ _	_ _ _	- - -	- - -
Air	_ _		-	_ _	_ _	_ _	_ _
Inland water Great Lakes Deep sea water Pipeline	- - -	- - - -	- - -	- - -	- - -	- - -	- - - -
Multiple Modes							
Private truck and for-hire truck	-	-	-	_ _	_	_	-
Truck and air	_ _ _	- - -	_ _ _	- - -		_ _ _	- - -
Truck and pipeline							
Rail and water Inland water and Great Lakes Inland water and deep sea	= = = = = = = = = = = = = = = = = = = =	- - -	- - -	- - -	- - -	- - -	- - -
Other Modes							

Table B-6. Measures of Reliability for Shipment Characteristics by Commodity and Mode of Transportation for State of Origin: 1993—Con.

·	I	•					-
0700	Val	ue	То	ns	Ton-r	miles	Average miles per
STCC code, description, and mode of transportation	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	shipment — coefficient of variation
STCC 09, FRESH FISH OR OTHER MARINE PRODUCTS							
Total	(S)	(S)	(S)	(S)	96.3	(S)	(S)
Single Modes							
Parcel, U.S. Postal Service, or courier	-	_	<u>-</u>	_		_	-
Private truck	(S) -	(S)	(S)	(S)	96.3	(S) -	(S)
Air		Ξ			_ _	_ _	
Inland water	_	_	_	_	_	_	_
Great Lakes		=	=	_ _ _		=	
Multiple Modes							
Private truck and for-hire truck	_	_	_	_	_	_	_
Truck and air	_	_	_	_ _	_	_	_
Truck and water	_	=	_	=	_	-	=
Truck and pipeline	_	-	-	-	-	-	-
Rail and water		=		- - -		-	_ _
Inland water and deep sea Other Modes	_	_	_	_	_	_	_
Other and unknown modes	_	_	_	_	_	_	
STCC 10, METALLIC ORES	_		_			_	
Total	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Single Modes		. ,	, ,	. ,	, ,	. ,	. ,
Parcel, U.S. Postal Service, or courier	_	=	_	_	_	_	_
Private truck	(D)	_ (D)	_ (D)	_ (D)	_ (D)	_ (D)	_ (D)
Air		(2) - -	- - -	(2) - -	-	(2) - -	(2) - -
Inland water	_	_	_	_	_	_	_
Great Lakes		_ _	_ _	_ _	_ _	_ _	_ _
Pipeline	-	-	_	-	-	-	_
Multiple Modes							
Private truck and for-hire truck Truck and air				_ _		_ _	_ _
Truck and rail Truck and water						_ _	
Truck and pipeline	_	_	_	_	_	_	_
Rail and water				_ _		_ _	_ _
Inland water and deep sea	-	-	_	-	-	-	_
Other Modes							
Other and unknown modes	_	-	_	-	_	-	_
STCC 11, COAL							
Total	-	-	-	-	_	-	-
Single Modes							
Parcel, U.S. Postal Service, or courier Private truck		_ _		_ _	-	_	_ _
For-hire truck	_	=	_	_ 	_	_	
Rail	-	-	-	-	-	_	-
Inland water Great Lakes							_ _
Deep sea water				_ _			
Multiple Modes							
Private truck and for-hire truck	_	-	_	_	_	_	_
Truck and air Truck and rail	_					_ _	_ _
Truck and water	-	_	_	_	-	_	_
Truck and pipeline		_ _			_		_ _
Inland water and Great Lakes Inland water and deep sea							_ _
Other Modes							
Other and unknown modes	_	_	_	_	_	_	=
and anatomi modes	. –,		. –		. –	. –,	

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Table B-6. Measures of Reliability for Shipment Characteristics by Commodity and Mode of Transportation for State of Origin: 1993—Con.

<u> </u>	Val	•	то	ns	Ton-r	miles	Average miles per
STCC code, description, and mode of transportation	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	shipment – coefficient of variation
STCC 13, CRUDE PETROLEUM, NATURAL GAS, OR GASOLINE		1		1		1	
Total	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Single Modes							
Parcel, U.S. Postal Service, or courier Private truck For-hire truck Air	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D) -	(D) (D)
Inland water Great Lakes Deep sea water Pipeline	- - -	- - - -	- - - -	- - - -	- - -	- - -	- - -
Multiple Modes							
Private truck and for-hire truck	- - - -	- - - -	- - - -	- - - -	- - -	- - - -	- - -
Truck and pipeline	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - -
Other Modes							
Other and unknown modes	(S)	(S)	(S)	(S)	100.0	.2	(S)
STCC 14, NONMETALLIC MINERALS							
Total	23.8	_	13.0	_	22.1	-	15.7
Single Modes							
Parcel, U.S. Postal Service, or courier Private truck For-hire truck Air Rail	100.0 12.4 (S) 71.3	6.5 (S) (S)	100.0 11.0 27.8 – (S)	4.4 4.5 - (S)	100.0 20.6 34.5 - (S)	6.9 5.3 - (S)	(S) 13.9 15.5 — (S)
Inland water Great Lakes Deep sea water Pipeline	- - - -	- - - -	- - - -	- - - -	- - - -	- - -	- - -
Multiple Modes							
Private truck and for-hire truck	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -
Truck and pipeline Rail and water Inland water and Great Lakes. Inland water and deep sea	- - -	- - - -	- - - -	- - - -	- - -	- - -	- - -
Other Modes							
Other and unknown modes	35.9	1.1	48.4	1.0	48.1	1.8	(S)
STCC 19, ORDNANCE OR ACCESSORIES Total	40.9	_	33.4	_	32.2	_	15.3
Single Modes							
Parcel, U.S. Postal Service, or courier Private truck For-hire truck Air	(D) 77.4 (D) -	(D) (S) (D) -	(D) 77.8 (D) -	(D) (S) (D) -	(D) 92.3 (D) -	(D) .3 (D) 	(D) (S) (D)
Inland water	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -
Multiple Modes							
Private truck and for-hire truck	- - - -	- - -	- - -	- - -	- - -	- - -	=======================================
Truck and pipeline Rail and water Inland water and Great Lakes Inland water and deep sea	- - -	- - -	- - -	- - -	- - -	- - -	=======================================
Other Modes Other and unknown modes	100.0	_	100.0	_	100.0	_	(S)

Table B-6. Measures of Reliability for Shipment Characteristics by Commodity and Mode of Transportation for State of Origin: 1993—Con.

·	Val	•	то	ns	Ton-r	miles	Average miles per
STCC code, description, and mode of transportation	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	shipment – coefficient of variation
STCC 20, FOOD OR KINDRED PRODUCTS						, ,	
Total	12.3	_	14.5	_	9.5	_	8.3
Single Modes							
Parcel, U.S. Postal Service, or courier	33.5	_	29.2	_	20.2	_	20.0
Private truck	19.9 11.4	2.2 2.1	20.6 15.0	3.4 2.9	23.7 8.9	1.8 3.7	13.2 11.6
Air	23.0	1.0	13.8	2.3	18.3	3.8	8.8
Inland water Great Lakes Deep sea water Pipeline	- - - -	- - - -	- - -	- - -	- - -	- - - -	_ _ _
Multiple Modes							
Private truck and for-hire truck	49.2	-	42.8 99.7	-	49.8	-	24.9
Truck and air	(S) (S) 100.0	(S)	(S) 100.0	(S)	(S) (S) 100.0	(S)	(S) (S) (S)
Truck and pipeline		- -	_ _	- -	- -		=
Inland water and Great Lakes Inland water and deep sea	_	- -	_ _	- -			_ _
Other Modes							
Other and unknown modes	34.4	.2	(S)	(S)	47.7	.5	(S)
STCC 21, TOBACCO PRODUCTS, EXCLUDING INSECTICIDES		(0)	(0)	(0)		(0)	(0)
Total	(S)	(S)	(S)	(S)	50.2	(S)	(S)
Single Modes							
Parcel, U.S. Postal Service, or courier Private truck	(S)	(S)	(S)	(S)	50.2	(S)	(S)
For-hire truck Air Rail	_ _ _	- - -	-	- - -	_ _ _	_ _ _	- -
Inland waterGreat Lakes			_ _		_ _		_ _
Deep sea water			_ _			_	=
Multiple Modes							
Private truck and for-hire truck Truck and air			-			_	_ _
Truck and rail Truck and water		_ _		_ _	_ _		_ _
Truck and pipeline	_	-	-	_	_	_	_
Rail and water		=	_	=		=	=
Other Modes							
Other and unknown modes	_	-	-	_	_	_	_
STCC 22, TEXTILE MILL PRODUCTS							
Total	24.0	-	25.2	-	34.1	-	20.1
Single Modes			(0)			(2)	(0)
Parcel, U.S. Postal Service, or courier Private truck	47.5 (S) 40.9	10.8 (S) 12.3	(S) 42.7 30.6	(S) 12.3	(S) 45.6 35.0	(S) 10.4	(S) (S) 28.7
For-hire truck	40.9	12.3	39.6 - -	12.2	35.9 - -	11.3 - -	28.7 - -
Inland water	_	=	_	_	_	_	_
Great Lakes Deep sea water		- -		- -	- -	_ _	
Pipeline Multiple Modes	-	_	_	_	_	_	_
Private truck and for-hire truck	_	_	_	_	_	_	_
Truck and air Truck and rail	_		_ _	_ _			
Truck and water	-	-	_	-	_	_	_
Truck and pipeline		- - -	_ _ _	- - -	_ 	_ _ _	_ _
Inland water and Great Lakes			-		_ _	_	Ξ
Other Modes							
Other and unknown modes	(S)	(S)	91.3	(S)	98.8	.2	(S)

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Table B-6. Measures of Reliability for Shipment Characteristics by Commodity and Mode of Transportation for State of Origin: 1993—Con.

· · · · · · · · · · · · · · · · · · ·	Val		то	ns	Ton-r	miles	Average miles per
STCC code, description, and mode of transportation	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	shipment — coefficient of variation
STCC 23, APPAREL OR OTHER FINISHED TEXTILE PRODUCTS							
Total	23.5	_	32.1	_	27.5	_	7.5
Single Modes							
Parcel, U.S. Postal Service, or courier	32.6	10.5	25.9	7.7	32.4	8.0	7.7
Private truck For-hire truck Air Rail	32.5 18.9 -	4.4 11.3 –	39.9 34.1 —	8.1 8.6 —	34.9 35.2 -	2.8 8.0 - -	26.6 18.0 —
		_			_	_	_
Inland water Great Lakes Deep sea water Pipeline	- - - -	- - -	-	- - -	- - -	_ _ _	_ _ _
Multiple Modes							
Private truck and for-hire truck	_	_	_	_	_	_	-
Truck and air	(S) -	(S)	90.9	(S)	76.1 -	.3	(S)
Truck and water	_	_	_	_	-	-	_
Truck and pipeline	_		_ _			_	
Inland water and Great Lakes Inland water and deep sea	_	Ξ	=	=		_	
Other Modes							
Other and unknown modes	(S)	(S)	62.1	(S)	71.7	.7	(S)
STCC 24, LUMBER OR WOOD PRODUCTS, EXCLUDING FURNITURE							
Total	20.9	-	28.1	-	38.2	-	19.5
Single Modes							
Parcel, U.S. Postal Service, or courier	26.8 23.4	.4 3.9	25.3	6.0	25.6	.6 6.8	16.7 24.7
Private truck	21.6	3.9	29.0 (S)	(S)	27.2 (S)	(S)	(S)
Air	(S)	(S)	71.6	Ξ	71.9	.5	(S)
Inland water	_	_	_	_ _		_	_
Deep sea water			_ _	_ _		_	_ _
Multiple Modes							
Private truck and for-hire truck	-	-	-	-		_	-
Truck and air Truck and rail Truck and water	56.0 - -	_ _ _	52.0 - -	- - -	58.7 - -	- - -	(S) _ _
Truck and pipeline	_	_	-	_	_	_	_
Inland water and Great Lakes	_ _ _	- - -	- - -	- - -	_ _ _	_ _ _	- - -
Other Modes							
Other and unknown modes	42.1	.4	(S)	(S)	75.8	.2	(S)
STCC 25, FURNITURE OR FIXTURES							
Total	41.8	_	(S)	(S)	(S)	(S)	(S)
Single Modes			, ,	, ,		`,'	.,
Parcel, U.S. Postal Service, or courier	29.1	2.5	41.1	.5	(S)	(S)	(S)
Private truck	(S) 47.2	(S) 10.4	(S) (S)	(S) (S)	(S) 42.1	(S) 12.3	(S) (S) 13.5
Air Rail	_		` <u>-</u>	` <u>-</u>	_ _	_	_ _
Inland water	_	_	-	_	_	_	_
Great Lakes Deep sea water Pipeline	_ _ _	_ _ _	- - -	- - -	- - -	- - -	- - -
Multiple Modes							
Private truck and for-hire truck	_	-	-	-	_	-	-
Truck and air	_ _ _	- - -	- - -	- - -	- - -	_ _ _	- - -
Truck and pipeline			_	_ _		_	_
Inland water and Great Lakes	_ _ _	_ _ _	- -	_ _ _	_ _ _	_ _ _	_ _ _
Other Modes							
Other and unknown modes	(S)	(S)	(S)	(S)	(S)	(S)	(S)

Table B-6. Measures of Reliability for Shipment Characteristics by Commodity and Mode of Transportation for State of Origin: 1993—Con.

·	Val	•	то	ns	Ton-r	miles	Average miles per
STCC code, description, and mode of transportation	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	shipment – coefficient of variation
STCC 26, PULP, PAPER, OR				, ,		, ,	
ALLIED PRODUCTS Total	12.6	_	27.7	_	18.6		26.3
Single Modes	12.0	_	21.1	_	18.0	_	20.3
Parcel, U.S. Postal Service, or courier	31.8	2.2	30.4	.8	37.2	.9	18.0
Private truck	18.7 15.6	3.5 4.6	32.9 31.3	4.7 5.7	32.3 19.7	.9 .9 7.0	10.4 28.2
Air	43.1	1	43.1	1.5	43.5	6.9	25.8
Inland water	_	-	_	-	_	_	_
Great Lakes	- - -	_ _ _	- - -	- - -	- - -	- - -	- - -
Multiple Modes							
Private truck and for-hire truck Truck and air	_ 56.2	=	- 89.5	_ (S)	90.4		_ (S)
Truck and rail	J0.2 —	=		(5)	90.4 - -	- - -	(3)
Truck and pipeline	_	_	_	_	_	_	_
Rail and water		=	=	=		=	=
Inland water and deep sea	-	-	-	-	-	-	-
Other Modes							
Other and unknown modes	(S)	(S)	(S)	(S)	(S)	(S)	(S)
STCC 27, PRINTED MATTER							
Total	(S)	(S)	(S)	(S)	(S)	(S)	-
Single Modes							
Parcel, U.S. Postal Service, or courier Private truck	(S) (S) (S)	(S) (S) (S)	(S) (S) (S)	(S) (S) (S)	(S) (S) (S)	(S) (S) (S)	_ _
For-hire truck	(S) 57.5	(S)	(S) 58.3	(S)	(S) 60.8	(S) -	
Rail	_	-	_	_	_	_	_
Inland water	_ _ _	=	- - -	_ _ _	_ _ _	=	_ _
Pipeline	_	Ξ	Ξ	=	=	=	Ξ
Multiple Modes							
Private truck and for-hire truck Truck and air	_ (S)	_ (S)	_ (S)	_ (S)	_ (S)	_ (S)	
Truck and rail	(-	(-) - -	-	(-) -	- - -	(=) - -	_ _
Truck and pipeline	_	_	_	_	_	_	_
Rail and water				_	_ _	_	
Inland water and deep sea	-	-	_	_	-	-	_
Other Modes							
Other and unknown modes	(S)	(S)	(S)	(S)	(S)	(S)	-
STCC 28, CHEMICALS OR ALLIED PRODUCTS							
Total	15.8	-	19.7	-	17.4	-	26.3
Single Modes							
Parcel, U.S. Postal Service, or courier Private truck	26.8 23.8	1.3 4.9	16.7 18.2	.1 5.3	19.2 29.7	.3 5.8	12.3 (S) 17.4
For-hire truck	14.5	4.9	35.4	5.0	20.8	5.2	_
Rail	33.2	1.9	33.5	2.5	28.8	6.3	40.1
Great Lakes Deep sea water		=	=	=	=	=	=
Pipeline	_	-	_	-	_	-	_
Multiple Modes							
Private truck and for-hire truck	(<u>D</u>)	(D)	(<u>D</u>)	(D) (D)	(D) (D)	(D)	(D) (D)
Truck and rail	(D) (D) (D)	(D) (D)	(D) (D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)
Truck and pipeline	_	_	_	-	-	_	_
Rail and water	_ 	- - -	- - -	- - -	- - -	- - -	=
Other Modes	_	_	_	_	_	_	_
Other wides Other and unknown modes	(D)	(D)	(D)	(D)	(D)	(D)	(D)
and analytin modes in the first	(5)	(5)	. (5)	(5)	(5)	(5)	(5)

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Table B-6. Measures of Reliability for Shipment Characteristics by Commodity and Mode of Transportation for State of Origin: 1993—Con.

·	Val		то	ns	Ton-r	miles	Average miles per
STCC code, description, and mode of transportation	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	shipment – coefficient of variation
STCC 29, PETROLEUM OR COAL PRODUCTS		· •		· •		, ,	
Total	17.6	_	22.6	_	22.8	_	42.8
Single Modes							
Parcel, U.S. Postal Service, or courier Private truck For-hire truck Air Rail	(D) (D) (S) -	(D) (D) (S)	(D) (D) (S) -	(D) (D) (S)	(D) (D) (S)	(D) (D) (S) - -	(D) (D) (S)
Inland water	- - - -	- - - -	- - - -	- - - -	- - -	- - - -	- - -
Multiple Modes							
Private truck and for-hire truck	_ _ _	- - -	-	- - -	_ _ _	- - -	_ _ _
Truck and pipeline	_ _ _	_ _ _	- - -	_ _ _	_ _ _	_ _ _	- - -
Inland water and deep sea	-	_	-	_	-	-	_
Other Modes Other and unknown modes	(S)	(S)	(S)	(S)	(S)	(S)	(S)
STCC 30, RUBBER OR MISCELLANEOUS PLASTICS PRODUCTS	(-)	(4)	(4)	(4)	(0)		(5)
Total	16.9	-	17.7	-	23.5	-	21.4
Single Modes							
Parcel, U.S. Postal Service, or courier Private truck For-hire truck Air Rail	24.0 20.9 21.9 (S)	2.8 4.3 4.6 – (S)	26.5 24.6 20.1 - (S)	.7 4.8 4.8 - (S)	35.2 28.5 24.6 — (S)	1.1 1.7 3.0 - (S)	17.9 22.6 7.6 – (S)
Inland water Great Lakes Deep sea water Pipeline	- - - -	- - - - -	- - - -	- - - - -	- - - -	- - - -	= = = = = = = = = = = = = = = = = = = =
Multiple Modes							
Private truck and for-hire truck	100.0 (S) - -	(S) 	100.0 59.4 —	(S) 	100.0 59.0 —	.1 - -	(S) (S) - -
Truck and pipeline	- - - -	- - -	- - -	- - -	- - -	- - - -	- - -
Other Modes							
Other and unknown modes	35.9	.4	34.9	.4	33.7	.2	44.2
STCC 31, LEATHER OR LEATHER PRODUCTS	20.0		/ 0\	10 1	(0)	(0)	(0)
TotalSingle Modes	22.8	_	(S)	(S)	(S)	(S)	(S)
Parcel, U.S. Postal Service, or courier Private truck For-hire truck Air Rail	35.1 (D) (D) -	14.4 (D) (D) -	29.6 (D) (D) —	18.6 (D) (D) -	28.8 (D) (D)	19.3 (D) (D) -	13.5 (D) (D)
Inland water	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -
Multiple Modes							
Private truck and for-hire truck Truck and air. Truck and rail Truck and water	- - - -	- - -	- -	- - -	- - -	- - -	=======================================
Truck and pipeline	- - - -	- - -	- - -	- - -	- - -	- - - -	- - - -
Other Modes Other and unknown modes	99.8	(S)	100.0	(S)	100.0	(S)	(S)

Table B-6. Measures of Reliability for Shipment Characteristics by Commodity and Mode of Transportation for State of Origin: 1993—Con.

	Val	ue	То	ns	Ton-r	miles	Average miles per
STCC code, description, and mode of transportation	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	shipment — coefficient of variation
STCC 32, CLAY, CONCRETE, GLASS, OR STONE PRODUCTS							
Total	16.3	-	21.6	-	18.0	-	30.6
Single Modes							
Parcel, U.S. Postal Service, or courier	(S)	(S) 3.9	49.7	. =	(S)	.3	(S)
Private truck	18.9 22.2	3.9 4.4	21.8 34.2	2.7 2.6	26.8 29.1	8.4 9.2	6.6 20.6
Air	- 46.1	_ .8	41.9	.3	- 35.7	3.1	21.4
Inland water	_	_	_	-	_	-	_
Great Lakes	_ _ _	- - -	_ _ _		- - -	_ _ _	_ _ _
Multiple Modes							
Private truck and for-hire truck	-	_	-	-	-	-	
Truck and air	100.0 (S)	(S)	100.0 (S)	(S)	100.0 (S)	(S)	(S) (S)
Truck and water	-	=	_	-	_	-	-
Truck and pipeline	_	_ _			_	_	_ _
Inland water and Great LakesInland water and deep sea	_	_ _		_ _		_	=
Other Modes							
Other and unknown modes	59.6	=	92.9	-	92.9	-	(S)
STCC 33, PRIMARY METAL PRODUCTS							
Total	15.3	_	20.6	_	16.6	_	10.5
Single Modes							
Parcel, U.S. Postal Service, or courier	(S)	(S) 5.7	(S)	(S) 6.4	(S)	.1	<u>(</u> S)
Private truck	15.9 18.4	5.7 5.1	17.3 22.1	6.4 5.6	34.4 19.3	2.7 7.4	17.4 17.2
Air Rail	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Inland water	-	=	-	-	-	-	_
Great Lakes Deep sea water Pipeline	_ _ _	_ _ _	_ _ _	- -	- - -	_ _ _	- - -
Multiple Modes							
Private truck and for-hire truck	68.3 87.0	- - -	95.5 89.4		95.0 85.5 —	_ _ _	(S) (S)
Truck and water	-	-	_	-	_	-	_
Truck and pipeline	_	_			_ _	_	_ _
Inland water and Great Lakes Inland water and deep sea	_ _	_ _		_ _	_ _	_	_ _
Other Modes							
Other and unknown modes	(D)	(D)	(D)	(D)	(D)	(D)	(D)
STCC 34, FABRICATED METAL PRODUCTS							
Total	12.6	-	20.0	-	17.0	-	17.0
Single Modes							
Parcel, U.S. Postal Service, or courier	11.9	2.3	11.4	.8	17.0	1.1	14.6
Private truck	25.3 15.4	6.2 5.8	31.0 24.7	6.6 7.3	35.5 18.7	5.0 6.8	27.2 8.9
Air Rail	30.2	1.3	34.7	1.5	32.9	2.7	(S)
Inland water	-	-	-	-	-	-	-
Great Lakes	_ _	_		1 1		_	=
·	_	_	_	_	_	_	
Multiple Modes Private truck and for-hire truck	91.2		98.6	.1	100.0	.1	(S)
Truck and air	26.5	=	42.7	-	45.3	 	15.7 –
Truck and water	_	=	_	=	_	_	_
Truck and pipeline	_ _ _	_ _ _	_ _ _	_ _ _	_ _ _	_ _ _	- - -
Inland water and deep sea	-	_	_	_	-	-	_
Other Modes							
Other and unknown modes	47.7	.3	46.3	.2	(S)	(S)	(S)

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Table B-6. Measures of Reliability for Shipment Characteristics by Commodity and Mode of Transportation for State of Origin: 1993—Con.

·	Val		То	ns	Ton-r	niles	Average miles per	
STCC code, description, and mode of transportation	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	shipment – coefficient of variation	
STCC 35, MACHINERY, EXCLUDING ELECTRICAL								
Total	12.1	-	18.1	-	13.5	-	13.8	
Single Modes								
Parcel, U.S. Postal Service, or courier	24.4	1.6	17.7	.3	17.2	.4	10.8	
Private truck	15.0 10.4	2.5 3.7	21.7 27.4	6.4 7.4	22.6 17.9	5.5 7.0	34.6 8.7	
Air	(S)	(S)	(S)	(S)	(S)	(S)	(S)	
Inland water Great Lakes Deep sea water Pipeline	- - - -	- - - -	- - -	- - -	- - -	- - - -	_ _ _	
Multiple Modes								
Private truck and for-hire truck						-		
Truck and air Truck and rail	(S) (S)	(S) (S)	(S) (S)	(S) (S)	(S) (S)	.3 (S)	(S) (S)	
Truck and water	_	_	_	_	-	-	_	
Truck and pipeline			_ _	_ _	_	_	_ _	
Inland water and Great Lakes Inland water and deep sea	_				_	_		
Other Modes								
Other and unknown modes	43.8	1.4	(S)	(S)	(S)	(S)	(S)	
STCC 36, ELECTRICAL MACHINERY, EQUIPMENT, OR SUPPLIES								
Total	16.1	-	24.7	-	29.2	-	19.4	
Single Modes								
Parcel, U.S. Postal Service, or courier Private truck	18.8 25.1	9.0 2.3	23.5 31.0	7.6 3.2	33.2 (S)	9.1 (S)	16.8 (S)	
For-hire truck Air Rail	19.6 100.0 (D)	6.4 (D)	21.7 100.0 (D)	6.9 (D)	23.5 100.0 (D)	8.1 (D)	(S) 11.4 (S) (D)	
Inland water Great Lakes Deep sea water Pipeline	- - - -	- - - -	- - -	- - -	- - -	_ _ _	_ _ _	
Multiple Modes								
Private truck and for-hire truck		_	- 20.5	_	24.0	_	_	
Truck and air. Truck and rail Truck and water	31.3 (D)	.5 (D) _	30.5 (D) —	.2 (D) —	31.0 (D) -	1.2 (D) -	5.1 (D) —	
Truck and pipeline	- - - -	- - - -	- - -	- - -	- - -	- - - -	- - - -	
Other Modes								
Other and unknown modes	39.6	1.7	39.5	2.9	54.5	.2	(S)	
STCC 37, TRANSPORTATION EQUIPMENT								
Total	14.3	-	14.6	-	17.3	-	26.8	
Single Modes			_					
Parcel, U.S. Postal Service, or courier	29.6 13.9	4.1 5.2	31.2 20.2	1.1 3.6	28.5 23.5	.8 2.3	18.9 (S)	
For-hire truck	20.9 (S) (S)	5.3	18.5 99.3	4.6	20.2 99.5	4.0	11.1 (S) (S)	
Rail	(S)	(S)	(S)	(S)	(S)	(S)	(S)	
Great Lakes Deep sea water Pipeline		= = -	-	- -		_ _ _	= = = = = = = = = = = = = = = = = = = =	
Multiple Modes								
Private truck and for-hire truck	(S) (S) - -	(S) (S) -	(S) 90.4 - -	(S) - - -	(S) 89.0 - -	(S) - - -	(S) (S) -	
Truck and pipeline	_	_	_	-	-	_	_	
Rail and water	- - -	=======================================	- - -	- - -	- - -	_ _ _	- - -	
Other Modes								
Other and unknown modes	38.5	1.3	38.6	.9	48.4	1.5	(S)	

Table B-6. Measures of Reliability for Shipment Characteristics by Commodity and Mode of Transportation for State of Origin: 1993—Con.

					T			
OTOO and a demoisting and made of	Valu	ue	То	ns	Ton-r	niles	Average miles per	
STCC code, description, and mode of transportation	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	shipment — coefficient of variation	
STCC 38, INSTRUMENTS, PHOTOGRAPHIC GOODS, OPTICAL GOODS, WATCHES, OR CLOCKS								
Total	23.2	-	21.2	-	18.6	-	28.9	
Single Modes								
Parcel, U.S. Postal Service, or courier Private truck or-hire truck kail	20.3 (S) 22.8 (S)	4.3 (S) 4.4 (S)	27.6 (S) 17.1 100.0	1.3 (S) 4.4 –	18.9 (S) 19.4 100.0	.5 (S) 2.3 -	17.6 (S) 39.7 (S)	
nland water Great Lakes Jeep sea water Pipeline	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	
Multiple Modes								
Private truck and for-hire truck Truck and air Truck and rail Truck and water	37.2 (S)	.4 (S)	37.2 67.1	.2 (S)	39.1 (S)	- .2 .9 -	5.5 (S)	
Truck and pipeline	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	
Other Modes								
Other and unknown modes	(S)	(S)	(S)	(S)	63.5	.1	(S)	
STCC 39, MISCELLANEOUS PRODUCTS OF MANUFACTURING								
Total	21.6	-	25.6	-	26.0	-	11.3	
Single Modes								
Parcel, U.S. Postal Service, or courier Private truck	34.7 34.2 17.1	10.2 7.4 3.3 —	46.1 40.4 20.3	9.5 12.0 6.1	(S) 37.7 20.5	(S) 9.8 6.7	(S) (S) 7.9	
Rail	100.0	-	100.0	(S)	(S)	(S)	(S)	
Inland water Great Lakes Deep sea water Pipeline	- - -	- - - -	_ _ _ _	_ _ _	_ _ _ _	- - -	_ _ _	
Multiple Modes								
Private truck and for-hire truck Truck and air Truck and rail Truck and water	37.0 - -	1.1 _ _	(S) -	(S) 	47.7 - -	2.9 - -	6.1	
Truck and pipeline Rail and water Inland water and Great Lakes Inland water and deep sea	- - - -	- - -	- - -	- - -	- - - -	- - -	- - -	
Other Modes								
Other and unknown modes STCC 40, WASTE OR SCRAP MATERIALS	(S)	(S)	(S)	(S)	(S)	(S)	(S)	
Total	45.0	_	26.7	_	28.4	_	24.4	
Single Modes								
Parcel, U.S. Postal Service, or courier Private truck For-hire truck	(S) 25.6 - 24.9	(S) 9.3 - 8.1	(S) 45.0 - 27.7	(S) 9.3 - 9.9	(S) 46.8 - 34.7	(S) 8.8 - 11.2	(S) 40.4 - 30.3	
Inland water Great Lakes Deep sea water Pipeline	- - - -	- - - -	- - -	- - -	- - -	- - - -	- - - -	
Multiple Modes								
Private truck and for-hire truck	_ _ _	- - -	_ _ _	- - -	_ _ _	_ _ _	_ _ _	
Truck and water	-	-	-	-	_	-	-	
Truck and pipeline Rail and water Inland water and Great LakesInland water and deep sea	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	
Other Modes Other and unknown modes	100.0	(S)	(S)	(S)	100.0	.2	(S)	

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Table B-6. Measures of Reliability for Shipment Characteristics by Commodity and Mode of Transportation for State of Origin: 1993—Con.

-	Val		то	ns	Ton-r	miles	Average miles per
STCC code, description, and mode of transportation	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	shipment — coefficient of variation
STCC 41, MISCELLANEOUS							
FREIGHT SHIPMENTS Total	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Single Modes							
Parcel, U.S. Postal Service, or courier Private truck For-hire truck Air	(D) (D) (D)	(D) (D) (D)	(D) (D) (D)	(D) (D) (D)	(D) (D) (D) -	(D) (D) (D)	(D) (D) (D)
Inland water	- - - -	- - -	- - - -	- - - -	- - -	- - -	- - - -
Multiple Modes							
Private truck and for-hire truck	(D) - -	(D) 	(D) 	(D) 	(D) - -	(D) - -	(D)
Truck and pipeline	- - - -	- - -	- - -	- - -	- - - -	- - -	- - -
Other Modes							
Other and unknown modes	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Total	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Single Modes							
Parcel, U.S. Postal Service, or courier Private truck For-hire truck Air Rail	100.0 (D) (D) - -	(S) (D) (D) -	100.0 (D) (D) - -	10.5 (D) (D) —	100.0 (D) (D) - -	10.5 (D) (D) - -	(S) (D) (D) - -
Inland water Great Lakes Deep sea water Pipeline	- - - -	- - - -	- - -	- - -	- - -	- - - -	- - - -
Multiple Modes							
Private truck and for-hire truck Truck and air Truck and rail Truck and water	- - - -	- - - -	- - -	- - -	- - - -	- - - -	- - - -
Truck and pipeline	- - - -	- - - -	- - - -	- - - -	- - -	- - - -	- - - -
Other Modes							
Other and unknown modes	-	=	-	-	-	-	-
STCC 48, WASTE HAZARDOUS MATERIALS OR WASTE HAZARDOUS SUBSTANCES Total	80.4	(S)	67.3	(S)	60.5	(S)	(S)
Single Modes	50.4	(3)	01.3	(3)	00.5	(3)	(3)
Parcel, U.S. Postal Service, or courier Private truck For-hire truck	(D) 71.1 (D) —	(D) (S) (D) 	(D) 72.4 (D) 	(D) (S) (D) 	(D) 72.4 (D) _ _	(D) 10.5 (D) 	(D) (S) (D)
Inland water Great Lakes Deep sea water Pipeline	- - - -	- - - -	- - -	- - -	- - -	- - - -	- - - -
Multiple Modes							
Private truck and for-hire truck Truck and air. Truck and rail Truck and water	- - - -	_ _ _	- -	- -	- - -	- - -	- - -
Truck and pipeline Rail and water Inland water and Great Lakes Inland water and deep sea	- - - -	- - -	- - -	- - -	- - -	- - -	- - -
Other Modes Other and unknown modes	_	_	_	_	_	_	-

Table B-6. Measures of Reliability for Shipment Characteristics by Commodity and Mode of Transportation for State of Origin: 1993-Con.

STCC code, description, and mode of	Val	lue	То	ns	Ton-miles		Average miles per
transportation	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	shipment — coefficient of variation
COMMODITY UNKNOWN							
Total	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Single Modes							
Parcel, U.S. Postal Service, or courier Private truck For-hire truck Air Rail	40.7 (S) (S) -	13.4 (S) (S) -	35.2 (S) (S) -	3.0 (S) (S)	34.2 (S) (S) - -	7.1 (S) (S) -	(S) (S) (S)
Inland water Great Lakes Deep sea water Pipeline		- - - -	- - -	- - - -	- - -	- - -	- - -
Multiple Modes							
Private truck and for-hire truck	100.0 - -	- - -	100.0 - -	- - -	100.0	- - - -	(S) _ _
Truck and pipeline	- - -	_ _ _ _		- - - -	- - -	- - - -	- - - -
Other Modes							
Other and unknown modes	61.8	(S)	79.0	(S)	71.0	1.0	(S)

Note: For description of the development and uses of measures of reliability, see Appendix B, Reliability of the Data.

Represents data cell equal to zero or less than 1 unit of measure.
 (D) Denotes figures withheld to avoid disclosing data for individual companies.
 (S) Data do not meet publication standards due to high sampling variability or other reasons.

Measures of Reliability for Shipment Characteristics by State of Destination for State of Origin: 1993

	Val	ue	Tons		Ton-miles	
State of Destination	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	2.9	-	6.1	-	21.4	
NEW ENGLAND STATES						
Connecticut Maine Massachusetts New Hampshire Rhode Island Vermont	24.7 29.1 21.3 (S) (S) 42.7	.1 .2 (S) (S)	37.2 48.9 28.3 (S) (S) (S)	_ _ .1 _ _ _	37.2 49.5 28.0 (S) (S) (S)	.1 .5 - -
MIDDLE ATLANTIC STATES						
New Jersey . New York . Pennsylvania	15.2 14.9 16.3	.3 .3 .4	20.1 16.5 18.6	. <u>1</u> .1	20.0 15.7 17.9	.4 .4 .5
EAST NORTH CENTRAL STATES						
Illinois Indiana Michigan Ohio Wisconsin	14.2 14.9 14.8 19.8 25.7	.6 .2 .3 .4 .3	46.7 11.2 9.3 26.1 26.6	.7 - - .2 .1	46.9 11.2 10.2 25.4 26.9	.8 .2 .3 .7 .3
WEST NORTH CENTRAL STATES						
lowa Kansas Minnesota Missouri Nebraska North Dakota South Dakota	11.6 8.2 12.4 11.7 7.5 27.9 7.1	.6 .4 .3 .4 1.7 .1	17.1 17.3 42.4 41.3 6.3 (S) 21.2	.7 1.1 .3 1.2 5.3 (S)	19.8 23.5 (S) 39.6 9.1 (S) 21.3	.4 2.3 (S) .5 1.8 .1
SOUTH ATLANTIC STATES						
Delaware District of Columbia Florida Georgia Maryland	47.1 41.5 18.3 16.5 30.7	.1 - .2 .3 .3	(S) (S) 28.5 16.2 28.2	 .1 	(S) (S) 25.3 16.2 27.0	.1 - .3 .3 .3
North Carolina South Carolina Virginia West Virginia	17.0 25.8 20.8 38.2	.2 .1 .2 .2	(S) 30.0 23.5 36.8	(S) - - -	(S) 29.1 24.4 36.0	(S) - .3 .1
EAST SOUTH CENTRAL STATES						
Alabama Kentucky Mississippi Tennessee	35.5 22.4 30.8 21.1	.3 .1 .1 .3	31.6 21.4 30.6 19.2	.1 - - .1	31.6 21.2 29.9 19.7	.2 - .1 .4
WEST SOUTH CENTRAL STATES						
Arkansas Louisiana Oklahoma Texas	24.4 30.6 11.6 11.7	.2 .4 .1 .8	(S) (S) 40.6 30.5	(S) (S) .3 1.7	(S) (S) 37.9 32.5	(S) (S) .6 3.1
MOUNTAIN STATES						
Arizona Colorado Idaho Montana Nevada New Mexico Utah Wyoming	24.2 13.3 20.6 16.2 23.4 30.0 19.0 26.7	.1 .4 .1 .1 .1 .1	39.8 30.6 45.9 29.5 25.6 35.5 29.5 (S)	.7 .4 .1 .1 .1 (S)	42.3 36.1 47.8 28.4 25.1 36.1 30.0 29.6	.1 .7 1.7 .4 .1 .1 .2
PACIFIC STATES						
Alaska California Hawaii Oregon Washington	(S) 8.4 47.5 42.5 27.6	.6 - .3 .8	64.6 37.8 (S) 38.4 42.6	1.2 - .1 3.1	68.5 38.6 (S) 41.8 42.3	2.5 .1 .6 7.3

Note: For description of the development and uses of measures of reliability, see Appendix B, Reliability of the Data.

Represents data cell equal to zero or less than 1 unit of measure.
 (D) Denotes figures withheld to avoid disclosing data for individual companies.
 (S) Data do not meet publication standards due to high sampling variability or other reasons.

Appendix C. Sample Design, Survey Methodology, and Estimation

SAMPLE DESIGN

The sample for the Commodity Flow Survey (CFS) is a stratified three-stage probability design where the first-stage sample units are establishments, the second-stage units are 2-week periods of 1993, and the third-stage units are shipments. In a probability sample, (1) there are distinct samples that can be selected, (2) each sample has a known probability of selection, and (3) one of the distinct samples is chosen.

In the first stage, approximately 200,000 domestic establishments were selected from a universe of 800,000 establishments engaged in mining, manufacturing, wholesale, and selected retail and service activities, as well as auxiliaries (e.g., warehouses) of multiestablishment companies. Establishments classified in farming, forestry, fishing, oil and gas extraction, government, construction, or transportation, and most establishments in retail and services are not covered by the CFS.

Establishments were selected from the 1992 Standard Statistical Establishment List (SSEL) of business establishments with paid employees. The SSEL, maintained by the Bureau of the Census, is a central multipurpose computerized name and address file of all known multiestablishment firms, and single-establishment employer firms. Establishments having 1991 payroll and classified in the kinds of business of interest to the survey were eligible for selection.

The establishments in the survey universe were stratified by Standard Industrial Classification¹ (SIC), National Transportation Analysis Region (NTAR), and Type of Operation Code (TOC). (The Department of Transportation (DOT) developed the NTAR's to create geographic regions that could be used in conjunction with other DOT data to measure and analyze nationwide patterns of transportation demands and activities.) Within each stratum (1) the establishments were divided into certainty and noncertainty establishments based on employment size, (2) certainties (typically large firms) were automatically selected, and (3) a sample of noncertainty establishments was selected with probability proportional to estimated size, where the measure of size was based on annual payroll. The manner in which the sample was selected ensured

that, if an establishment was twice as large as another establishment, it would typically have twice the chance of being selected. The final sample contained 106,362 certainty establishments and 90,814 noncertainty establishments.

In the second stage, establishments selected for the CFS were asked to report for a predetermined 2-week period in each of the four quarters of calendar year 1993. Entire 2-week periods were used to reduce the effect of any daily or weekly bias. Each week of the quarter began a different 2-week reporting period, resulting in 13 possible reporting periods originating in the first quarter. Each sampled establishment was randomly assigned one of these thirteen 2-week reporting periods in the first quarter. To avoid potential quarterly cycles, reporting periods in subsequent quarters were assigned so that an establishment did not report at the same time each quarter. In all, responses were obtained for 8 out of 52 weeks during 1993.

In the third stage of sampling, for each of the 2-week periods determined in the second stage, a reporting establishment selected a systematic sample of its shipments from its files. The questionnaire provided sampling instructions that typically resulted in a sample of between 20 and 50 shipments being selected each quarter.

SURVEY METHODOLOGY

The 1993 Commodity Flow Survey (CFS) is an establishment-based shipper survey that used mailout/mailback data collection. Respondents were asked to select a sample of their outbound shipments and to report, for each sampled shipment, the major commodity, weight, value, transportation mode(s), origin, destination, and indicators of whether the shipment was an export, hazardous material, or containerized. For exports we also collected the mode of export and city and country of destination. For multicommodity shipments, the respondents were instructed to report the commodity that made up the greatest percentage of the shipment's weight.

Two report forms were used for the survey—the CFS-1000 (the primary questionnaire) and the CFS-2000, which was sent in the fourth quarter to a subsample of establishments. The CFS-2000 contained additional questions about the establishment's transportation equipment and access to shipping facilities. See appendix E for sample questionnaires.

¹Standard Industrial Classification Manual: 1987. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, D.C 20402. Stock No. 041-001-00314-2.

JOBNAME: No Job Name PAGE: 2 SESS: 9 OUTPUT: Thu Feb 29 13:59:48 1996 / pssw02/ disk2/ economic/ tc92cf/ 0/ 14apdxc

ESTIMATION

Estimates in this survey are derived from weighted shipment data and are then adjusted using several factors to account for nonresponse, undercoverage, and response errors. Selected establishments reported for a sample of their shipments. We weighted these shipments to represent the establishment's shipments for the year. Each establishment's data were then weighted by the inverse of the establishment's probability of being selected into the sample, which allows data from selected establishments to

represent nonselected establishments. We also used results from the economic census of Mineral Industries, Manufactures, Wholesale, Retail, and Service to construct adjustment factors at the establishment level and at the SIC level. We adjusted individual establishments to the Census to correct for sampling error and nonsampling error in the selection of shipments within the establishment. We performed the SIC-level adjustment to correct for sampling error in the selection of establishments and to account for undercoverage and establishment nonresponse.

Appendix D.

Standard Transportation Commodity Classification Code Information

The commodities shown in this report are classified in accordance with the Standard Transportation Commodity Classification (STCC) system, published by the Association of American Railroads.¹

We provided respondents with a listing of STCC 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, we instructed respondents to use the five-digit code for the **major** commodity, defined as the commodity of greatest total weight in the shipment.

For this report, we aggregated the STCC codes to the two-digit level.

The following provides a description of each STCC code presented in this report.

STCC code	Commodity description	STCC code	Commodity description
01	Farm products	30	Rubber or miscellaneous plastics products
80	Forest products	31	Leather or leather products
09	Fresh fish	32	Clay, concrete, glass, or stone products
		33	Primary metal products
10	Metallic ores	34	Fabricated metal products
11	Coal	35	Machinery, excluding electrical
13	Crude petroleum, natural gas or gasoline	36	Electrical machinery, equipment, or supplies
14	Nonmetallic ores, minerals, excluding fuels	37	Transportation equipment
19	Ordnance or accessories	38	Instruments, photographic goods, optical goods, watches, or clocks
20	Food and kindred products	39	Miscellaneous products of manufacturing
21	Tobacco products, excluding insecticides		
22	Textile mill products	40	Waste or scrap materials not identified by
23	Apparel or other finished textile products or		producing industry
	knit apparel	41	Miscellaneous freight shipments
24	Lumber or wood products, excluding furniture	42	Containers, carriers or devices, shipping,
25	Furniture or fixtures		returned empty
26	Pulp, paper, or allied products	48	Waste hazardous materials or waste
27	Printed matter		hazardous substances
28	Chemicals or allied products		
29	Petroleum or coal products		Commodity unknown

¹For additional information on the STCC system, contact: STCC Technical Committee, c/ o Committee Secretary, Association of American Railroads, 50 F Street, NW, Room 5603, Washington, DC 20001-1564. Telephone number 202-639-2332; fax number 202-639-2312.

Appendix E. **Sample Report Forms and Instructions**

The sample report forms and instructions are shown on the following pages.

Note: The CFS-2000 was sent to a subsample of establishments to obtain additional information about the use of transportation equipment and facilities.

FORM **CFS-1000**

U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS

1993 COMMODITY FLOW SURVEY CENSUS OF TRANSPORTATION

(Please correct any error in name, address, and ZIP Code)

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 Census Bureau. By the same law, YOUR CENSUS REPORT IS CONFIDENTIAL. It may be seen only by Census Bureau employees and may be used only for statistical purposes. Further, copies retained in respondents' files are immune from legal process.

RETURN TO BUREAU OF THE CENSUS 1201 East 10th Street Jeffersonville IN 47132-0001

INSTRUCTIONS

Please read the accompanying instructions before completing this questionnaire. The sampling instructions beginning on page 2 of the questionnaire describe how to take a **sample** of your outbound shipments **covering the two-week period shown above**. You should use your sales invoices, bills of lading, and any other file of shipping documents which represents your total outbound shipments (or deliveries).

Item F, Shipment Characteristics — Beginning on page 2, provide the information requested for each of your **sampled** shipments. If book figures are not available for weight, value, etc., please provide an estimate.

		ompiniontol il book ngaree are net		no ioi troigint, talao
Item A	ESTABLISHMEN [*]	T NAME		
Is the e	stablishment name s	hown in the mailing address correct?		
1 🗌 Ye	es	2 ☐ No — Enter correct name. ┌		
Item B		STATUS OF ESTABLISHMENT — Mark () Des this establishment during the 2-week pe		
1 🗌 In	operation	3 Ceased operation — Give date ——	→	Month/Day/Year
	emporarily or easonally inactive			
Item C	PHYSICAL LOCA	TION (PO boxes or rural routes are not ph	ysical lo	cations.)
ls this e	establishment's physi	cal location the same as the address show	n in the	label?
1 Ye	es	2 No — Enter physical location below.	Z	
N	Number and street			
C	City, town, village, etc).	State	ZIP Code

ΩD	2	INI	ΔE	CH	IDN	ЛЕКІТС

During the two-week period, did any of your shipments (or deliveries) originate from locations other than this physical location?

- 1 No Skip to Item E on page 2. Enter an "A" as the origin code in column (k) of item F for all shipments.
- Yes Enter the City, State, and ZIP Code of these other locations in rows B, C, and D.

Origin code	City	State	ZIP Code
Α	Location in mailing address or in Item C.	_	_
В			
С			
D			

Does your **Census File Number (CFN)** shown in the address box above, begin with a "0" (zero)?

- 1 Yes Include shipments from those other locations in your sampling, and use the appropriate origin code (A, B, C, or D) in column (k) of item F for all shipments selected. Now skip to Item E.
- 2 ☐ No Do any of these other locations keep their own records for these shipments?

 1 ☐ Yes Omit shipments from these other locations that maintain their
 - 1 Yes Omit shipments from these other locations that maintain their own records from your sampling.
 - 2 No Include shipments from these other locations in your sample, and place the appropriate origin code (A, B, C, or D) in column (k) of item F for all shipments selected.

Iten	Please mark (X) th will use to obtain t	e ma i	in do	cumen ted info	it that y ormatio	ou n.		s invoices of lading	3 🗌	Other — <i>Specify</i>	
					SA	MPLE	SELECTION	INSTRUC	TIONS		
	1. Enter your tota of shipments for period.	l num or the	ber 2-we	ek				Number of shipments (1)	Mark (X) one (2)	"Take every" number (3)	Expected sample size (4)
	NOTE — Remomemoranda, et estimating the	tc. fro	m the	e files,	if possi	ble, be	fore	0–40 41—100	(2)	Select every shipment 2	1–40 20—50
	2. Find the range number entered beside it.	in col d in 1	umn abov	(1) at ı /e. Put	right tha an (X)	at inclu in colu	ides the mn (2)	101—200 201—400 401—800		5 10 20	20—40 20—40 20—40
	3. If your total numerovide data for period in Item I	r eve	rv sh	ibmen	t during	the 2	-week	801—1600 1601 or more		40 Call Census 1–800–528–3049	20—40
	more, continue shipments to re	with	steps	s 4 and	5 to se	lect th	e			CONTINUE ON NEX	T PAGE.
Iten	n F SHIPMENT CHA	RAC	TERIS	TICS							
	Shipment Total Commodity										
Line No.	Number		ate c)		Value (Dollars) (d))	Weig (Pour		Code	Descrip (Largest и	
(a)	(b)	М	D	Mil.	Thou.	Dol.	(e))	(f)	(g)	
] 	l					
1					 	<u> </u>					
2					l I	<u> </u>					
3					 	<u> </u>					
4					 						
5					 	 					
6					 				1 1 1 1		
7					 	 			1 1 1 1		
8					 	[[
9					 						
10					 	 					
11					 						
12					 	l					

Mode of transport codes for columns (i) and (n)

1 — Parcel delivery, courier, or U.S.
Postal Service

2 — Private truck
3 — For-hire truck
Continued
FORM CFS-1000 (9-2-92)

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14

SAMPLE SELECTION INSTRUCTIONS — Continued

4. Note the "Take every" number in column (3) next to the "X" you marked in column (2). Beginning with the first shipment in the file for the period, count the shipments until you reach the "Take every" number. Select that shipment as the first one to report on in item F.

Continuing with the next shipment, begin counting from 1 until you reach the "Take every" number again. Select that shipment. Continue this process until you reach the end of the file.

EXAMPLE:

If 176 is entered in 1, mark (X) the third row of the table. The "Take every" number is 5. Begin counting with the first shipment in the file and select the 5th shipment to report in Item F. Now beginning with the

6th shipment, count off 5 more, and select the 10th shipment. Resume counting with the 11th and select the 15th, 20th shipment, etc. until you reach the end of the file. You will have selected 35 shipments to report on in Item F.

NOTE – If your sample of shipments includes any voided invoices, credit memoranda, etc., write "VOID" in column (b) for that shipment. Leave the rest of the line blank.

5. Sample validation — After sample selection is done, compare the number of selected shipments to the expected sample size in column (4). If the number of selected shipments is above or below the range, recheck the sample selection.

material? (Y/N)	Domestic mode(s) of transport Enter all that apply using codes shown	Containerized? (Y/N)	Origin code	Domestic de (or port/airport/bo of exit for e	estination order cr exports)	on ossing	Export? (Y/N)	Export mode	Foreign destination (for export shipments only) (o)		
ב ה)	below. (i)	رز) (j)	0 (k)	City	State	ZIP Code	(m)	(n)	City	Country	
1											
1											
4											
1											
1											
+											
1											
+											

FORM CFS-1000 (9-2-92) **PLEAS**

Iter	n F SHIPMENT CHA	RACT	TERIS	STICS -	– Conti	nued			
	Shipment					To	tal		Commodity
Line No.	Number	Da (c			Value (Dollars, (d))	Weight (Pounds)	Code	Description (Largest weight)
(a)	(b)	М	D	Mil.	Thou.	Dol.	(e)	(f)	(g)
16					 				
17									
18									
19									
20									
21					 				
					 				
22					<u> </u>				
23					 				
24					 				
25									
26									
27									
28					i i				
29					 				
30				I	[
31					l .				
					<u> </u>				
32									
33					 				
34					! 				
35									
36					 				
					<u> </u>				
37					 				
38					 				
39				I	l 				
40									
-	de of transport codes columns (i) and (n)		—	1 —	Parcel of Postal S	delivery,	, courier, or U.S.	2 — Private truck 3 — For-hire truck	4 — Railroad Continued →
Lior	columns (i) and (n)		•		i Ustai S	שועוטוטכ		3 — For-line truck	Continued ──→

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Hazardons Maratic mode(s) of transport Enter all that apply using codes shown below.		Containerized? (Y/N)	Origin code	Domest i (or port/airpo of exit	c destinatio rt/border cro for exports)	n essing	Export? (Y/N)	Export mode	(for export s	destination hipments only) (o)	- - :
E h)	below.	S S S	(y) Ori	City	State	ZIP Code	(3) Exp	(n)	City	Country	:
,	(1)	()/	(K)				(111)	(11)			1
											+
											+
											;
											-
						1 1 1 1					
						1 1 1 1					
1											
1											
4											
						1 1 1 1					
1											
1											
\dashv											
\dashv											
\dashv											
	5 — Inland v				— Pipeline	9 — Ot					

lten	m F SHIPMENT CHARACTERISTICS — Continued											
	Shipment					To	otal			Commodity		
Line No.	Number	(,	ete c)		Value (Dollars (d)		Wi (Po	eight unds)	Code	Descript (<i>Largest w</i>	ion eight)	
(a)	(b)	M	D	Mil.	Thou.	Dol.		(e)	(f)	(g)		
41					 	 						
42					 	 						
43					 	 						
44					 							
45					 							
46					 							
47					 	 						
48					!	' 						
49					 	l <u> </u> 						
50					<u> </u>	i						
Mo for	de of transport codes columns (i) and (n)		>	1 —	Parcel d Postal S	lelivery, Service	courier, or U	J.S.	2 — Private tru 3 — For-hire tru	ck 4 — Ra uck <i>Continu</i>	ilroad µed ———→	
- - - -	MARKS											
lten	tem G CERTIFICATION											
Nar	ne of person to contac	t rega	rding	this rep	ort – <i>Ple</i>	ease pri	int	Telephone	number – <i>Include a</i>	rea code	Date	
Sig	Signature								Title			

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		_									
Hazardous material? (Y/N)	Domestic mode(s) of transport Enter all that apply using codes shown below.	Containerized? (Y/N)			stinatio rder cr xports)	on ossing	Export? (Y/N)	Export mode	Foreign dest (for export shipm (o)	ination lents only)	Line No.
				City	State	ZIP Code	(m)	(n)	City	Country	(p)
(h)	(i)	(j)	(k)				(m)	(n)			
					-						41
											42
											43
											44
											45
											46
											47
											48
											49
											50
	5 — Inland v	vater a	l and/o	r Great Lakes 7 — Pip	eline	9 — Ot	her m	node			150
	6 — Deep se	ya wat		8 — Air		0 — Ur	111101				
-											
_											_
_											
_											_
											_
	THANK YOU FOR COMPLETING YOUR REPORT										

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APPENDIX E E-9

FORM CFS-2000	U.S. DEPARTMENT OF COMN BUREAU OF THE C		(Please correct any error in name, address, and ZIP Code)							
1993 CO	MMODITY FLOW SURVEY SUS OF TRANSPORTATION									
YOUR RESPONSE IS RE	QUIRED BY LAW. Title 13, United States Code, rec	quires businesses and	other organizations tha	t RETURN	BUREAU OF	THE CEN	ISUS			
CENSUS REPORT IS CO purposes. Further, copies	QUIRED BY LAW. Title 13, United States Code, recto answer the questions and return the report to the INFIDENTIAL. It may be seen only by Census Bure retained in respondents' files are immune from legal	au employees and ma al process.	y be used only for stati	stical TO	1201 East 1 Jeffersonvi					
INSTRUCTIONS	NOTE NEW ITEMS: G, H, I, and J Please complete these items even i		ments to report du	ring						
	the two-week reporting period.									
Item A ESTABLISHIN			Item D ORIGIN O				,			
	e shown in the mailing address correct?			week period, did any of yo ocations other than this ph		r deliverie	es)			
1 Yes	2 └─ No ── Enter correct name.		1 ∐ No — Skip to code in	ltem E on page 2. Enter an "A column (k) of item F for all st	A" as the origin nipments.					
			2 Yes — Enter Origin code	the City, State, and ZIP Code o	of these other loca	State	vs B, C, and D. ZIP Code			
Item B OPERATIONA	AL STATUS OF ESTABLISHMENT — Mark (X) the QNE box	A	Location in mailing address	or in Item C.	State —	— Zir Code			
_	scribes this establishment during the 2-week pe		B C							
1 In operation 2 Temporarily or	3 ☐ Ceased operation — Give date →	Month/Day/Year	D							
seasonally inactive	OCATION (DO bases as a second		Does your Co begin with a	ensus File Number (CFN) sh "0" (zero)?	own in the addres	s box abov	e,			
	OCATION (PO boxes or rural routes are not province to both province).	•	1 \(\sum_{\text{Yes}} = I	nclude shipments from those	other locations in	your samp	ling, and use the			
1 Yes	₂ \square No $-$ Enter physical location below. $_{\not\!$			ppropriate origin code (A, B, ell shipments selected. Now sk						
Number and street	· ·		l —	o any of these other locations s — <i>Omit shipments from the</i>	•					
		I === a .	own records from your sampling. 2 No — Include shipments from these other locations in your sample, and place the appropriate origin code (A, B, C, or D) in column (k)							
City, town, village,	etc. State	ZIP Code	2 L NO	and place the appropriate of item F for all shipments	origin code (A, B, selected.	C, or D) in (column (k)			
FOR ASSISTANCE IN C	OMPLETING THIS FORM. CALL 1-800-528-3	n49		•		CONT	INUE ON PAGE 2			

Ite	m E SOURCE DOC	UME	ENT				_		_		
	Please mark (X) the will use to obtain t	e ma he re	in do quest	cumen ted info	t that y ormatio	ou on.	ı ☐ Sales ₂ ☐ Bills	s invoices of lading	3 🗌	Other — <i>Specify</i> ✓	
					SA	MPLE	SELECTION	INSTRUC	TIONS		
	1. Enter your total of shipments for period.	I num or the	ber 2-we	ek				Number of shipments (1)		"Take every" number (3)	Expected sample size (4)
	NOTE — Remo memoranda, et	ve ar	ny vo	ided in	voices,	credit	foro	0–40	(2)	Select every shipment	1–40
	estimating the t	total	numk	per of s	hipmer	nts.	1016	41—100 101—200		2 5	20—50 20—40
	2. Find the range	in col	lumn	(1) at r	ight the	at inclu	ides the	201—400		10	20—40
	number entered beside it.	d in 1	abov	e. Put	an (X)	in colu	mn (2)	401—800		20	20—40
								801—1600		40	20—40
	If your total nur provide data fo period in Item F	mber r eve	ofsh e rv sh	iipmen iipmen	ts is 40 t durind	or less a the 2	s, -week	1601 or more		Call Census 1–800–528–3049	
	more, continue shipments to re	with port.	steps	s 4 and	5 to se	nents is	s 41 or e			CONTINUE ON NEX	T PAGE.
Ite	m F SHIPMENT CH	HARA	ACTE	RISTI	CS						
	Shipment				To	tal			Commodity		
Line No.	Number		ate c)		Value (Dollars (d))	Weig (Pour		Code	Descrip	otion
(a)	(b)	М	D	Mil.	Thou.	Dol.	(e))	(f)	(g)	
1					 	 					
•											
2											
3					 	 					
4					 	 					
5					 	 					
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7					 	 					
8					 	 					
9					 	 					
10					 	 					
11					 	 					
12					 	 					
13					 	 					
14					 	 		_			

Page 2 FORM CFS-2000 (7-7-93)

 Parcel delivery, courier, or U.S. Postal Service

Mode of transport codes for columns (i) and (n)

4 — Railroad *Continued* —

2 — Private truck 3 — For-hire truck

SAMPLE SELECTION INSTRUCTIONS — Continued

4. Note the "Take every" number in column (3) next to the "X" you marked in column (2). Beginning with the first shipment in the file for the period, count the shipments until you reach the "Take every" number. Select that shipment as the first one to report on in item F.

Continuing with the next shipment, begin counting from 1 until you reach the "Take every" number again. Select that shipment. Continue this process until you reach the end of the file.

EXAMPLE:

If 176 is entered in 1, mark (X) the third row of the table. The "Take every" number is 5. Begin counting with the first shipment in the file and select the 5th shipment to report in Item F. Now beginning with the

6th shipment, count off 5 more, and select the 10th shipment. Resume counting with the 11th and select the 15th, 20th shipment, etc. until you reach the end of the file. You will have selected 35 shipments to report on in Item F.

NOTE - If your sample of shipments includes any voided invoices, credit memoranda, etc., write "VOID" in column (b) for that shipment. Leave the rest of the line blank.

5. Sample validation — After sample selection is done, compare the number of selected shipments to the expected sample size in column (4). If the number of selected shipments is above or below the range, recheck the sample selection.

material? (Y/N)	Domestic mode(s) of transport Enter all that apply using codes shown	Containerized? (Y/N)	Origin code	Domestic de (or port/airport/bo of exit for e	estination order cr exports)	on ossing	Export? (Y/N)	Export mode	(for export sh	destination nipments only)	
ב ה)				City	State	ZIP Code	(m)	(n)	City	Country	(
1											
1											
4					1						
1											
1											
+											
1											
+											

PLEASE CONTINUE ON PAGE 4. FORM CFS-2000 (7-7-93)

lter	Item F SHIPMENT CHARACTERISTICS — Continued										
	Shipment					То	tal		Commodity		
Line No.	Number		Date (c)		Value (Dollars (d))	Weight (Pounds)	Code	Description		
(a)	(b)	М	D	Mil.	Thou.	Dol.	(e)	(f)	(g)		
16					I						
17											
18											
19					1	'					
20											
21					 						
					1						
22					1						
23											
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39											
40		<u> </u>	<u> </u>	<u> </u>	Power!	doliver	courier or L.C.	2 Private torrel	A Daileand		
Mo for	de of transport codes columns (i) and (n)			1 —	Parcel o	Bervice	, courier, or U.S.	2 — Private truck 3 — For-hire truc	k 4 — Railroad k <i>Continued</i> — →		

material? (Y/N)	Domestic mode(s) of transport Enter all that apply using codes shown	Containerized? (Y/N)	Origin code	Domest (or port/airpo of exit	ic destinatio rt/border cro for exports)	n essing	Export? (Y/N)	Export mode	(for export s	destination hipments only)	
(h)	below.	Ö €	(k) Ori	City	State	ZIP Code	(m)	1	City	Country	<u>:</u> :
,	1.7	J,	(11)				(,	(,			1
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											;
								\vdash			;
	5 — Inland v 6 — Deep se	vater a	and/or	r Great Lakes 7	— Pipeline — Air	9 —	Other m Unknov	node			4

İter	tem F SHIPMENT CHARACTERISTICS — Continued										
	Shipment	:				To	tal		(Commodity	
Line No.	Number	l .	ate		Value (Dollars (d)	s)	Weight (Pounds)	Code	9	Description	
(a)	(b)	М	D	Mil.	Thou.	Dol.	(e)	(f)		(g)	
41					 	 		1 1 1	1		
42	42					[[
43					i i			1,,,			
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48					 	 					
49					 	[[
50					1 1	! !					
Mo for	ode of transport codes columns (i) and (n)			1 —	Parcel of Postal S		courier, or U.S.		vate truck -hire truck	4 — Railroad Continued →	
		Y AN	ID US	SE OF	ON-SI	TE SHI	PPING FACILITIES				
In exi no	column (b), mark "Yeisted on-site during tyou used the facili	es" o 1993. ty on	r "No For your	" for ea each "\ premi	ach type Yes" in ses for	e of shi columr outbo	pping facility to indicate (b), mark "Yes" or "No' und shipments during	whether in colum 1993.	or not this t	ype of facility cate whether or	
	Type of shippi	ing fa	cility			Was a	shipping facility of this ur premises during 1993	type 3?	Did you use this facility on your premises for outbound shipments during 1993?		
	(a)						(b)			(c)	
1.	Rail siding						1 ☐ Yes ——→ 2 ☐ No			1 ☐ Yes 2 ☐ No	
2.	Waterway dock, Gre	at La	kes				1 ☐ Yes> 2 ☐ No			1 ☐ Yes 2 ☐ No	
3.	3. Waterway dock, inland water						1 ☐ Yes ——→ 2 ☐ No			1 ☐ Yes 2 ☐ No	
4.	4. Waterway dock, deep sea water					1 □ Yes> 2 □ No				1 ☐ Yes 2 ☐ No	
5.	5. Airport/landing strip capable of handling your shipments					1			1 ☐ Yes 2 ☐ No		
6.	6. Pipeline terminal					1			1 □ Yes 2 □ No		

Page 6 FORM CFS-2000 (7-7-93)

Domestic mode(s) of transport Enter all that apply using codes shown	ontainerized? Y/N)	rigin code	Domestic de (or port/airport/bo of exit for e	estination order cro xports)	on rossing)	cport? (Y/N)	xport mode	(for export shi	pments only)	Line No.
(i)		(k)	City	State	ZIP Code			City	Country	(p)
										41
										42
										43
										44
										45
										46
										47
										48
										49
										50
)		
tem H USE OF OFF-SITE SHIPPING FACILITIES										
	mode(s) of transport Enter all that apply using codes shown below. (i) 5 — Inland v 6 — Deep se	mode(s) of transport Enter all that apply using codes shown below. (i) 5 — Inland water a 6 — Deep sea water that the state of the st	mode(s) of transport Enter all that apply using codes shown below. (i) (ii) (ij) (k) 5 — Inland water and/o 6 — Deep sea water	mode(s) of transport Enter all that apply using codes shown below. (i) (ii) (ij) (k) Domestic de (or port/airport/bo of exit for exit	mode(s) of transport Enter all that apply using codes shown below. (i) (j) (k) City State 5 — Inland water and/or Great Lakes 6 — Deep sea water The mode(s) of transport is provided to transport in the provided to the p	mode(s) of transport Enter all that apply using codes shown below. (i) (j) (k) City State ZIP Code Today State Signature Today State Signature Today State Signature Today State Signature Today mode(s) of transport Enter all that apply using codes shown below. (i) (j) (k) City State ZIP Code (m) City State ZIP Code (m) 5 — Inland water and/or Great Lakes 7 — Pipeline 6 — Deep sea water 8 — Air 0 — Unknown the content of the state of the content of the co	mode(s) of transport Enter all that apply using codes shown below. (i) (ii) (ii) (iii) (iv) mode(s) of transport Enter all that apply using codes shown below. (i) (j) (k) City State ZIP Code (m) (n) (n) (n) (ii) (iii) (iiiiiiiiiiiiii	mode(s) of transport Enter all that apply using codes shown below. (i) (i) (ii) (iii) (iv) (iv) (iv) (iv) (

In column (b), mark "Yes" or "No" for each type of shipping facility to indicate whether or not you **used** an off-site facility of that type for **outbound shipments** during 1993. For those marked "Yes", enter the miles to that off-site facility in column (c), and the mode of transport used to reach that facility in column (d). The modes are listed below.

Type of shipping facility	Did you use this type of off-site facility for outbound shipments during 1993?	Distance to the off-site facility of this type that you used most in 1993 (Report in miles - estimates are acceptable)	Mode of transport used to reach that facility (Enter a code from the list below)
(a)	(b)	(c)	(d)
1. Rail siding	1 ☐ Yes ——➤ 2 ☐ No		
2. Waterway dock, deep sea water	1 ☐ Yes ——→ 2 ☐ No		
3. Waterway dock, Great Lakes	1 ☐ Yes> 2 ☐ No		
4. Waterway dock, inland water	1 ☐ Yes ——→ 2 ☐ No		
5. Airport/landing strip capable of handling your shipments	1 ☐ Yes ——→ 2 ☐ No		
6. Pipeline terminal	1 ☐ Yes ——→ 2 ☐ No		
1 – Trailer on Flat Car (TC 2 – Private Truck	OFC) 3 – For-Hire Truck 4 – Rail	5 – Water 6 – Pipeline	7 – Air 8 – Other

FORM CFS-2000 (7-7-93)

During 1993, did this location use any of the following types of equipment for outbound shipments? Please check yes or no. For each equipment type in Item 1 below enter the approximate percentage of your total outbound rail shipments that used that type of rail car. These percentages should add to 100%. If you had no rail shipments, leave the percentages blank. Was this type of equipment Percentage of total Equipment used for outbound shipments rail shipments during 1993? (b) (c) (a) 1. Rail cars that: 1 ☐ Yes -2 □ No a. Your company owned/leased 1 ☐ Yes b. A common carrier owned/leased 2 ☐ No 1 ☐ Yes c. Another party owned/leased (e.g. receiver) 2□ No 2. Trucks with 6 or more tires or 1 ☐ Yes truck-tractors that: 2□ No a. Your company owned 1 ☐ Yes b. Your company leased, with driver 2 ☐ No 1 ☐ Yes c. Your company leased, without driver 2 □ No 1 ☐ Yes 2□ No 3. Truck trailers that your company owned or leased 1 ☐ Yes 4. Aircraft that your company owned or leased 2 ☐ No 1 ☐ Yes 5. Barges that your company owned or leased 2 □ No 6. Other equipment that your company owned or leased - Specify 1 ☐ Yes 2 □ No TRANSPORTATION DECISIONS During 1993, who generally decided on the mode of transportation for your outbound shipments? Mark (X) appropriate box. 1 ☐ Your company 2 Receiver of shipment 3 ☐ Other Remarks **CERTIFICATION** Name of person to contact regarding this report - Please print Telephone number – *Include area code* Date Title

USE AND AVAILABILITY OF TRANSPORTATION EQUIPMENT

Item I

FORM CFS-2000 (7-7-93) Page 8

Signature

Instructions for Completing the Commodity Flow Survey

NOTE: Some instructions are included on the questionnaire itself. However, due to space limitations, most of the instructions and definitions are included in separate reference materials. These include this instruction guide, and a listing of commodity codes to be used for classifying individual shipments in this survey.

Part I – GENERAL INFORMATION Purpose of the Survey

The Commodity Flow Survey (CFS) will produce statistics on the movement of commodities and the types of transportation used. It will describe the relationships among shipment characteristics such as weight, value, mileage, type of commodity, and the type of transportation used. The results of this survey will provide a basis for in-depth analyses of policy issues that impact the transportation systems of the United States.

For the Commodity Flow Survey, we are asking you to use all of your basic documents such as sales invoices, bills of lading, shipping logs, etc., to provide the data needed regarding outbound movement of all commodities: date, value, weight, commodity description, hazardous material designation, mode of transport, whether containerized or not, and destination. For exports, we also ask the export mode of transportation, city and country of destination, and the port of exit. You are asked to provide the data only for a sample of your outbound shipments. Samples are used because they give valid results while reducing the time and cost involved in completing the questionnaire.

Your Report is Confidential

By law (Title 13 U.S. Code), the information you provide the Bureau of the Census is **strictly confidential**. Only sworn Census employees will have access to the reports or information obtained from your records. The data you provide will be used solely for statistical purposes and will be published only in summary form that **does not reveal** the operations of an individual company.

Part II – GENERAL INSTRUCTIONS AND INFORMATION FOR COMPLETING YOUR QUESTIONNAIRE

Steps in Completing the Survey

- Fill in the information requested on the front page regarding the name, operational status, physical location of your establishment, and origin of shipments.
- Gather your files and documents for all shipments/deliveries initiated during the 2-week period specified on the front page of the questionnaire.
- Indicate the main source document used in Item E on page 2 of the questionnaire.
- Following the Sample Selection Instructions on pages 2 and 3 of the questionnaire, select a sample of your total shipments for the 2-week period.

- In Item F of the questionnaire, complete one line for each **sampled** shipment/delivery. Use the reference materials provided when completing columns f (commodity code), i (domestic modes of transportation), I (destination), and n (export mode).
- Complete the contact, date, and signature information requested in Item G on page 6 of the questionnaire.
- Return the completed questionnaire in the envelope by the due date printed on the front of the questionnaire. If you need additional time to complete your questionnaire, please call the 800 number listed below.
- 8. Please call 1-800-528-3049 if you have questions or require assistance.
- 9. If we should have questions regarding your report, a Census Bureau employee may call to ask for clarification. For this reason, we suggest that you retain copies of the documents for the sampled shipments separately from your other shipment documents. You may also find it useful to retain a copy of your completed questionnaire for your own records.

What We Mean by a "Shipment"

A "shipment" (or "delivery") is an individual movement of commodities **from** your establishment **to** one customer OR **to** another location of your company (including a warehouse, distribution center, retail or wholesale outlet). A shipment uses one or more modes of transportation, including parcel delivery, U.S. Postal Service, courier, private truck, for-hire truck, rail, water, pipeline, air, and other modes.

Please note that for this survey:

A full or partial truckload can be considered **one** shipment **only** if all the commodities are destined for one buyer/receiver at one location. If the truck makes multiple deliveries on a route, **each stop is considered (at least) one shipment.**

We realize that there may not be a one-to-one relationship between your shipments and the main document you use as a reference for this survey (e.g., sales invoice, bill of lading). For example, for some cases there may be more than one shipment per invoice or more than one invoice per shipment. If this is the case for your establishment, please remember to sample actual shipments, and not just documents.

What We Mean By "Commodities"

"Commodities" refers to items that your establishment produces, sells, or distributes, **not** to items that are considered as excess or by-products of your establishment's operation.

PLEASE INCLUDE FORM NAME AND NUMBER IN ALL CORRESPONDENCE.

For example, refuse, scrap paper, and returnable containers are not considered as "commodities", unless your establishment is specifically in the business of selling or otherwise providing scrap, waste, or recyclable materials to others.

Origin of Shipments - Item D

FROM OTHER PHYSICAL LOCATIONS, your completion of Item D is critical in determining which shipments to include and exclude prior to selecting your sample of shipments. Your responses here will also affect the entries you make in column (k) - "Origin Code" - of Item F. Please follow the instructions in this item carefully. The "CFN" is the 11- digit number

following the letters "CFN" on the mailing label. If there

in Item D, please call 1-800-528-3049 for assistance.

is not enough space to enter all of your shipment origins

IF THIS ESTABLISHMENT ORIGINATES SHIPMENTS

IF ALL OF YOUR SHIPMENTS ORIGINATE FROM THE MAILING ADDRESS ON THE QUESTIONNAIRE LABEL OR THE ACTUAL PHYSICAL ADDRESS REPORTED IN ITEM C, then all of your shipments should be subjected to sampling. Also, when completing Item F, you should enter "A" in column (k) - "Origin

Part III – INSTRUCTIONS FOR COMPLETING ITEM F

Code" - for all shipments.

Complete one line for each selected shipment. Column definitions are provided below.

SHIPMENT NUMBER (column b) - Enter the invoice number, shipment number, or some other unique identification number that could be used by your establishment to find this particular shipping document if questions arise regarding your report.

DATE SHIPPED (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. (e.g., use "03" for March)

TOTAL VALUE (column d) - Enter the dollar value, in whole dollars, of the entire shipment. The reported value should not include freight charges and excise taxes (i.e., report the net selling value, f.o.b. plant). If the value is not directly available from your records, please estimate.

TOTAL WEIGHT (column e) - Enter the weight of the total shipment **in whole pounds**. If weight is not available from your records, please estimate.

COMMODITY CODE (column f) - Please use the **list** of **Commodity Codes in the enclosed Commodity Coding Manual** to select the proper code. For shipments with more than one commodity, enter only the

code for the commodity with the greatest weight in the total shipment.

COMMODITY DESCRIPTION (column g) - Enter a full description of the commodity shipped. For shipments with more than one commodity, describe only the commodity with the greatest weight in the total shipment. Do not use trade names, catalog numbers, or other codes not familiar to persons outside your business.

HAZARDOUS MATERIALS SHIPMENT (column h) - Indicate whether or not the shipment REQUIRED PLACARDING for hazardous materials by entering "Y or N" (yes or no).

DOMESTIC MODE(S) OF TRANSPORT (column i) - Enter the code(s) for **all** modes of transport used for the shipment to its **domestic** destination (i.e., the destination reported in column I). For export shipments, this means list only the mode(s) of transport used to reach the port, airport, or border crossing. Codes are located at the bottom of pages 2,3,4 and 5 of the questionnaire. Enter all that apply, based on the definitions below:

- Parcel Delivery/Courier/U.S. Postal Service -Delivery services that carry letters, parcels, packages, and other small shipments that typically weigh less than 100 pounds. Includes bus parcel delivery service.
- Private Truck Trucks operated by a temporary or permanent employee of this establishment or the buyer/receiver of the shipment.
- For-hire Truck Trucks that carry freight for a fee collected from the shipper, recipient of the shipment, or an arranger of the transportation.
- Railroad Any common carrier or private railroad.
- Inland Water and/or Great Lakes Barges, ships, or ferries operating primarily 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 shoreline.
- Deep Sea Water Barges, ships, or ferries operating primarily in the open ocean. Shipping on the Great Lakes and the Saint Lawrence Seaway is classified with inland water.
- 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 Movements using commercial or private aircraft, and all air service for shipments that typically weigh more than 100 pounds. Includes air freight and air express.
- Other Mode Any mode not listed above.

 Unknown - The shipment was not carried by a parcel delivery/courier/U.S. Postal service, and you cannot determine what mode of transportation is used.

Note: Commodities that are "shipped" under their own power, such as boats, barges, ferries, ships, aircraft, trucks, and trains **should be classified with the appropriate mode above**. Commodities shipped under their own power for which an appropriate mode is not listed (e.g., buses, recreational vehicles) should be listed as "other" mode.

CONTAINERIZED (column j) - Indicate whether or not the shipment was containerized by entering "Y or N" (yes or no). "Containerized" means that the shipment **left your establishment** in an intermodal container or stackable tank without permanently attached wheels. These containers typically vary from 20 to 53 feet in length, and are carried on truck chassis, trains, and ships.

ORIGIN CODE (column k) - Enter the code letter (A,B,C or D) for the location from which the shipment originated (**unless** this establishment initiates/originates shipments from other locations, the origin code will always be "A"). Refer to Item D on the front of the questionnaire and the "Origin of Shipments" section on page 3 of these instructions.

DOMESTIC DESTINATION: CITY, STATE AND ZIP CODE (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 abbreviation shown in Part IV below. 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 the case of land shipments into Mexico or Canada, it is the border crossing.

EXPORT SHIPMENT (column m) - 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**.

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 2,3,4, and 5 of the questionnaire.

FOREIGN DESTINATION (column o) - If the shipment is an export, enter the foreign **city and country of destination**. Be sure that the city reported for these shipments in the "Domestic Destination" column (I) is the U.S. port of exit.

Part IV - STATE ABBREVIATION LIST

Enter the State abbreviation as shown below in column (I) of the shipment sample form:

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	ОН
Georgia	GA	Oklahoma	OK
Hawaii	HI	Oregon	OR
Idaho	ID	Pennsylvania	PA
Illinois	IL	Rhode Island	RI
Indiana	IN	South Carolina	SC
lowa	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 vary from 1.75 to 9 hours per response, with an average of 2.4 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 information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Associate Director of Management Services, Attn: Paperwork Reduction Project 0607-0753, Room 2027, Bureau of the Census, Washington, DC 20233-0001; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Attn: Paperwork Reduction Project 0607-0753. Washington, DC 20503.

PLEASE INCLUDE FORM NAME AND NUMBER IN ALL CORRESPONDENCE.

Publication Program

1992 CENSUS OF TRANSPORTATION, COMMUNICATIONS, AND UTILITIES

Publications of the 1992 Census of Transportation, Communications, and Utilities containing data on: transportation, communications, and utilities establishments; characteristics of trucks; and characteristics of commodity shipments are described below. The first results were issued in press releases. Final detailed statistics are issued in separate paperbound reports and compact disc-read only memory (CD-ROM).

Copies of the reports are available from the Superintendent of Documents, U.S. Government Printing Office, Post Office Box 371954, Pittsburgh, PA 15250-7954. Order forms for the specific reports or CD-ROM's may be obtained from any Department of Commerce district office, any Bureau of the Census State data center or business/industry data center, or from Customer Services, Bureau of the Census, Washington, DC 20233-1900 or call 301-457-4100.

Final Reports

Truck Inventory and Use Survey—52 reports (TC92-T-1 to -52)

This series includes a United States Summary and a separate report for each State and the District of Columbia. Data cover the physical and operational characteristics of the Nation's private and commercial truck resources, such as the number of vehicles, major use, annual miles, model year, body type, vehicle size, fuel type, operator classification, engine size, range of operation, weeks operated, products carried, and hazardous materials carried. The reports show comparative statistics reflecting percent changes in number of vehicles between 1987 and 1992 for all characteristics.

1993 Commodity Flow Survey—141 reports (TC92-CF-1 to -52(P) and TC92-CF-N1 to -89)

This series includes a preliminary United States Summary, a set of National Transportation Analysis Region (NTAR) reports, a set of State reports (including the District of Columbia), and a final, more detailed United States Summary. Data cover the characteristics of commodity shipments initiated by establishments engaged in manufacturing, mining, wholesale, and selected retail, service, and auxiliary activities. The data include tons, ton-miles, average miles and value of shipments, by commodity and transportation mode. The NTAR and State reports include data on NTAR-to-NTAR and State-to-State commodity shipments, respectively. The final United States Summary includes more detailed commodity descriptions, data on containerized and hazardous materials shipments, and supplemental data on availability and use of transportation equipment and facilities.

Geographic area series—1 report (UC92-A-1)

The geographic area *Summary* report presents data for the United States and States for establishments with payroll for detailed kind-of-business classifications. Statistics on number of establishments and revenue are also shown for States and selected metropolitan areas (MA's) by kind of business.

For each State, the District of Columbia, and the United States, 1992 data are provided on revenue and employees per establishment and on revenue and payroll per employee. Comparative statistics showing percent changes in revenue and payroll between 1987 and 1992 also are shown for some kind-of-business classifications.

Nonemployer statistics series—1 report (UC92-N-1)

The *Nonemployer Statistics* report includes data by kind of business for all establishments, establishments with payroll, and establishments without payroll for the United States and States.

Subject series—2 reports (UC92-S-1 to -2)

The Establishment and Firm Size report (UC92-S-1) presents data for establishments with payroll, based on size of establishment, size of company or firm, and legal form of organization. Establishment statistics are presented by revenue size and by employment size; statistics for firms, by revenue size (including concentration by largest firms), by employment size, and by number of establishments operated (single units and multiunits). These data are presented for the United States.

The *Miscellaneous Subjects* report (UC92-S-2) presents data for the United States as a whole and, where feasible, for States and MA's for establishments with payroll. Data are provided for some kinds of business on major sources of revenue; purchased transportation; cost of purchased travel; revenue by class of customer; and other miscellaneous subjects.

Electronic Media

All data included in future printed reports will be available on CD-ROM. For the *Commodity Flow Survey* data, the CD-ROM may provide greater detail than the printed reports with respect to shipment distance, weight ranges, and origin to destination data for the geographic reports. Electronic media products are available for users who wish to summarize, rearrange, or process large amounts of data. In addition to CD-ROM's containing data from printed reports, there is a separate CD-ROM for the *Truck Inventory and Use Survey* which contains microdata information for each truck in the sample. The term microdata refers to the unaggregated records for the individual responses. The records are modified to avoid the possibility of identifying individual households or establishments. These products, with corresponding technical documentation, are sold by Customer Services, Bureau of the Census, Washington, DC 20233-1900.

OTHER ECONOMIC CENSUS REPORTS

Data on retail trade, wholesale trade, service industries, financial, insurance, real estate, construction industries, manufactures, mineral industries, enterprise statistics, minority-owned business enterprises, and women-owned businesses also are available from the 1992 Economic Census. A separate series of reports covers the census of outlying areas—Puerto Rico, Virgin Islands of the United States, Guam, and the Northern Marianas. Separate announcements describing these reports are available free of charge from Customer Services, Bureau of the Census, Washington, DC 20233-1900.