

# Michigan

# 1997

Issued January 2000

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## 1997 Economic Census

*Transportation and Warehousing*

Geographic Area Series



# U S C E N S U S B U R E A U

*Helping You Make Informed Decisions*

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



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-- Not applicable for this report.

# Introduction to the Economic Census

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## PURPOSES AND USES OF THE ECONOMIC CENSUS

The economic census is the major source of facts about the structure and functioning of the Nation's economy. It provides essential information for government, business, industry, and the general public. Title 13 of the 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 economic census furnishes an important part of the framework for such composite measures as the gross domestic product estimates, input/output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions. Specific uses of economic census data include the following:

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

## ALL-NEW INDUSTRY CLASSIFICATIONS

Data from the 1997 Economic Census are published primarily on the basis of the North American Industry Classification System (NAICS), unlike earlier censuses, which were published according to the Standard Industrial Classification (SIC) system. NAICS is in the process of being adopted in the United States, Canada, and Mexico. Most economic census reports cover one of the following NAICS sectors:

21	Mining
22	Utilities
23	Construction
31-33	Manufacturing
42	Wholesale Trade
44-45	Retail Trade
48-49	Transportation and Warehousing
51	Information

52	Finance and Insurance
53	Real Estate and Rental and Leasing
54	Professional, Scientific, and Technical Services
55	Management of Companies and Enterprises
56	Administrative and Support and Waste Management and Remediation Services
61	Educational Services
62	Health Care and Social Assistance
71	Arts, Entertainment, and Recreation
72	Accommodation and Foodservices
81	Other Services (except Public Administration)

(Not listed above are the Agriculture, Forestry, Fishing, and Hunting sector (NAICS 11), partially covered by the census of agriculture conducted by the U.S. Department of Agriculture, and the Public Administration sector (NAICS 92), covered by the census of governments conducted by the Census Bureau.)

The 20 NAICS sectors are subdivided into 96 subsectors (three-digit codes), 313 industry groups (four-digit codes), and, as implemented in the United States, 1170 industries (five- and six-digit codes).

## RELATIONSHIP TO SIC

While many of the individual NAICS industries correspond directly to industries as defined under the SIC system, most of the higher level groupings do not. Particular care should be taken in comparing data for retail trade, wholesale trade, and manufacturing, which are sector titles used in both NAICS and SIC, but cover somewhat different groups of industries. The industry definitions discuss the relationships between NAICS and SIC industries. Where changes are significant, it will not be possible to construct time series that include data for points both before and after 1997.

For 1997, data for auxiliary establishments (those functioning primarily to manage, service, or support the activities of their company's operating establishments, such as a central administrative office or warehouse) will not be included in the sector-specific reports. These data will be published separately.

## GEOGRAPHIC AREA CODING

Accurate and complete information on the physical location of each establishment is required to tabulate the census data for the states, metropolitan areas (MAs), counties, parishes, and corporate municipalities including cities, towns, villages, and boroughs. Respondents were

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required to report their physical location (street address, municipality, county, and state) if it differed from their mailing address. For establishments not surveyed by mail (and those single-establishment companies that did not provide acceptable information on physical location), location information from Internal Revenue Service tax forms is used as a basis for coding.

## **BASIS OF REPORTING**

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

## **DOLLAR VALUES**

All dollar values presented are expressed in current dollars; i.e., 1997 data are expressed in 1997 dollars, and 1992 data, in 1992 dollars. Consequently, when making comparisons with prior years, users of the data should consider the changes in prices that have occurred.

All dollar values are shown in thousands of dollars.

## **AVAILABILITY OF ADDITIONAL DATA**

### **Reports in Print and Electronic Media**

All results of the 1997 Economic Census are available on the Census Bureau Internet site ([www.census.gov](http://www.census.gov)) and on compact discs (CD-ROM) for sale by the Census Bureau. Unlike previous censuses, only selected highlights are published in printed reports. For more information, including a description of electronic and printed reports being issued, see the Internet site, or write to U.S. Census Bureau, Washington, DC 20233-8300, or call Customer Services at 301-457-4100.

### **Special Tabulations**

Special tabulations of data collected in the 1997 Economic Census may be obtained, depending on availability of time and personnel, in electronic or tabular form. The data will be summaries subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) that govern the regular publications.

Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact specifications on the type and format of the data to be provided, should be directed to the Chief of the division named below, U.S. Census Bureau, Washington, DC 20233-8300. To discuss a special tabulation before submitting specifications, call the appropriate division:

Manufacturing and Construction Division 301-457-4673  
Service Sector Statistics Division 301-457-2668

## **HISTORICAL INFORMATION**

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

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

The 1954 Economic Census was the first census to be fully integrated: providing comparable census data across economic sectors, 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 range of industries covered in the economic censuses expanded between 1967 and 1992. The census of construction industries began on a regular basis in 1967, and the scope of service industries, introduced in 1933, was broadened in 1967, 1977, and 1987. While a few transportation industries were covered as early as 1963, it was not until 1992 that the census broadened to include all of transportation, communications, and utilities. Also new for 1992 was coverage of financial, insurance, and real estate industries. With these additions, the economic census and the separate census of governments and census of agriculture collectively covered roughly 98 percent of all economic activity.

Printed statistical reports from the 1992 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 reports printed since 1967 are still available for sale on microfiche from the Census Bureau. CD-ROMs issued from the 1987 and 1992 Economic Censuses contain databases including nearly all data published in print, plus additional statistics, such as ZIP Code statistics, published only on CD-ROM.

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## 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 1997 Economic Census and Related Statistics* at [www.census.gov/econguide](http://www.census.gov/econguide). More information on the methodology, procedures, and history of the censuses will be published in the *History of the 1997 Economic Census* at [www.census.gov/econ/www/history.html](http://www.census.gov/econ/www/history.html).

## ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used with the 1997 Economic Census data:

A	Standard error of 100 percent or more.
D	Withheld to avoid disclosing data of individual companies; data are included in higher level totals.
F	Exceeds 100 percent because data include establishments with payroll exceeding revenue.
N	Not available or not comparable.
Q	Revenue not collected at this level of detail for multiestablishment firms.
S	Withheld because estimates did not meet publication standards.

V	Represents less than 50 vehicles or .05 percent.
X	Not applicable.
Y	Disclosure withheld because of insufficient coverage of merchandise lines.
Z	Less than half the unit shown.
a	0 to 19 employees.
b	20 to 99 employees.
c	100 to 249 employees.
e	250 to 499 employees.
f	500 to 999 employees.
g	1,000 to 2,499 employees.
h	2,500 to 4,999 employees.
i	5,000 to 9,999 employees.
j	10,000 to 24,999 employees.
k	25,000 to 49,999 employees.
l	50,000 to 99,999 employees.
m	100,000 employees or more.
p	10 to 19 percent estimated.
q	20 to 29 percent estimated.
r	Revised.
s	Sampling error exceeds 40 percent.
nec	Not elsewhere classified.
nsk	Not specified by kind.
–	Represents zero (page image/print only).
(CC)	Consolidated city.
(IC)	Independent city.



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# Transportation and Warehousing

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## SCOPE

The Transportation and Warehousing sector (sector 48-49) includes industries providing transportation of passengers and cargo, warehousing and storage for goods, scenic and sightseeing transportation, and support activities related to modes of transportation. Establishments in these industries use transportation equipment or transportation related facilities as a productive asset. The type of equipment depends on the mode of transportation. The modes of transportation are air, rail, water, road and pipeline.

The Transportation and Warehousing sector distinguishes three basic types of activities: subsectors for each mode of transportation, a subsector for warehousing and storage, and a subsector for establishments providing support activities for transportation. In addition, there are subsectors for establishments that provide passenger transportation for scenic and sightseeing purposes, postal services, and courier services.

A separate subsector for support activities is established in the sector because, first, support activities for transportation are inherently multimodal, such as freight transportation arrangement, or have multimodal aspects. Secondly, there are production process similarities among the support activity industries.

Many of the establishments in this sector often operate on networks, with physical facilities, labor forces, and equipment spread over an extensive geographic area.

Warehousing establishments in this sector are distinguished from merchant wholesaling in that the warehouse establishments do not sell the goods.

Excluded from this sector are establishments primarily engaged in providing travel agent services that support transportation and other establishments, such as hotels, businesses, and government agencies. These establishments are classified in Sector 56, Administrative and Support, Waste Management, and Remediation Services. Also, establishments primarily engaged in providing rental and leasing of transportation equipment without operator are classified in Subsector 532, Rental and Leasing Services.

## GENERAL

A list of reports that provide statistics on sector 48-49 follows.

**Geographic area report.** There is a separate report for each state, the District of Columbia, and the United States. Each state report presents general statistics on number of

establishments, revenue, payroll, and employment by kind of business for the state and metropolitan areas (MAs). Greater kind-of-business detail is shown for larger areas. The United States report presents data for the United States as a whole.

**Sources of revenue report.** This report presents sources of revenue data for establishments by kind of business. Data are presented for the United States.

**Establishment and firm size (including legal form of organization) report.** This report presents revenue, payroll, and employment data for the United States by revenue size, by employment size, and by legal form of organization for establishments; and by revenue size (including concentration by largest firms), by employment size, and by number of establishments operated (single units and multiunits) for firms.

**Miscellaneous subjects report.** This report presents data for establishments for a variety of industry-specific questions. Presentation of data varies by kind of business.

## GEOGRAPHIC AREAS COVERED

The level of geographic detail varies by report. Data may be presented for:

1. The United States as a whole.
2. States and the District of Columbia.
3. Consolidated metropolitan statistical areas (CMSAs) and primary metropolitan statistical areas (PMSAs) defined by the Office of Management and Budget (OMB) as of June 30, 1997. A CMSA is an area used to facilitate the presentation and analysis of data for large concentrations of metropolitan populations. It includes two or more contiguous PMSAs which have a population of at least 1,000,000 (according to the 1990 Census of Population or subsequent special census) and which meet specific criteria of urban character and of social and economic integration.
4. Metropolitan statistical areas (MSAs) defined by the OMB as of June 30, 1997. An MSA is an integrated economic and social unit with a population nucleus of at least 50,000 inhabitants (according to the 1990 Census of Population or subsequent special census). Each

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MSA consists of one or more counties meeting standards of metropolitan character. In New England, cities and towns rather than counties are the component geographic units.

#### **COMPARABILITY OF THE 1992 AND 1997 CENSUSES**

The 1997 Economic Census is the first census to present data based on the new North American Industry Classification System (NAICS). Previous census data were presented according to the Standard Industrial Classification (SIC) system developed some 60 years ago. Due to this change, comparability between census years may be limited. Comparative statistics will be included as part of the Core Business Statistics Reports.

#### **DISCLOSURE**

In accordance with Federal law governing census reports (Title 13 of the United States Code), no data are published that would disclose the operations of an individual establishment or business. However, the number of

establishments in a kind-of-business classification is not considered a disclosure; therefore, this information may be released even though other information is withheld.

#### **AVAILABILITY OF MORE FREQUENT ECONOMIC DATA**

The Bureau of the Census conducts the Transportation Annual Survey (TAS) each year. This survey, while providing more frequent observations, yields less kind-of-business and geographic detail than the census. In addition, the County Business Patterns program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county. The program also includes data for establishments of firms that do not have annual payroll.

**Table 1. Summary Statistics for the State: 1997**

[Includes only establishments with payroll. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS code	Kind of business	Establishments (number)	Revenue (\$1,000)	Annual payroll (\$1,000)	First-quarter payroll (\$1,000)	Paid employees for pay period including March 12 (number)	Percent of revenue—	
							From administrative records <sup>1</sup>	Estimated <sup>2</sup>
<b>MICHIGAN</b>								
<b>48-49</b>	<b>Transportation &amp; warehousing %* **</b>	<b>4 733</b>	<b>9 249 243</b>	<b>2 493 797</b>	<b>582 962</b>	<b>77 977</b>	<b>10.4</b>	<b>4.6</b>
481	Air transportation % .....	122	575 569	121 916	30 536	3 997	14.4	3.1
4811	Scheduled air transportation % .....	67	341 629	61 918	15 847	2 183	7.4	3.7
48111	Scheduled air transportation % .....	67	341 629	61 918	15 847	2 183	7.4	3.7
481111	Scheduled passenger air transportation % .....	57	213 909	34 636	7 879	1 345	11.7	5.6
481112	Scheduled freight air transportation .....	10	127 720	27 282	7 968	838	.1	.7
4812	Nonscheduled air transportation .....	55	233 940	59 998	14 689	1 814	24.6	2.0
48121	Nonscheduled air transportation .....	55	233 940	59 998	14 689	1 814	24.6	2.0
481211	Nonscheduled chartered passenger air transportation .....	42	96 671	22 293	5 259	551	6.1	3.2
481212	Nonscheduled chartered freight air transportation .....	7	117 282	20 963	4 522	585	44.1	—
481219	Other nonscheduled air transportation .....	6	19 987	16 742	4 908	678	—	8.7
483	Water transportation .....	35	84 136	22 590	3 873	352	19.2	4.7
4831	Deep sea, coastal, & Great Lakes water transportation .....	26	80 808	21 757	3 794	341	19.3	4.5
48311	Deep sea, coastal, & Great Lakes water transportation .....	26	80 808	21 757	3 794	341	19.3	4.5
483113	Coastal & Great Lakes freight transportation .....	8	44 739	13 767	2 636	225	34.8	—
4831132	Great Lakes—St. Lawrence Seaway freight transportation .....	7	D	D	D	c	D	D
483114	Coastal & Great Lakes passenger transportation .....	15	D	D	D	c	D	D
4831142	Coastal & Great Lakes—St. Lawrence Seaway ferry transportation .....	11	D	D	D	c	D	D
4832	Inland water transportation .....	9	3 328	833	79	11	15.7	10.3
48321	Inland water transportation .....	9	3 328	833	79	11	15.7	10.3
483212	Inland water passenger transportation .....	6	D	D	D	a	D	D
484	Truck transportation .....	2 996	5 401 839	1 371 771	311 664	40 056	13.2	5.6
4841	General freight trucking .....	1 374	3 622 471	844 387	200 504	26 147	10.3	5.7
48411	General freight trucking, local .....	499	643 126	167 463	39 671	5 170	19.2	8.9
484110	General freight trucking, local .....	499	643 126	167 463	39 671	5 170	19.2	8.9
4841101	General freight trucking without storage, local, truckload .....	358	438 057	81 371	19 511	2 988	23.0	10.5
4841102	General freight trucking w/o storage, local, less than truckload .....	124	187 147	78 634	18 477	1 913	9.9	5.3
4841103	General freight trucking with storage, local, truckload .....	12	8 538	1 992	460	85	33.2	15.7
48412	General freight trucking, long-distance .....	875	2 979 345	676 924	160 833	20 977	8.4	5.0
484121	General freight trucking, long-distance, truckload .....	675	2 124 874	399 880	94 242	14 059	11.5	6.4
484122	General freight trucking, long-distance, less than truckload .....	200	854 471	277 044	66 591	6 918	.7	1.4
4842	Specialized freight trucking .....	1 622	1 779 368	527 384	111 160	13 909	18.9	5.6
48421	Used household & office goods moving .....	225	241 970	82 195	18 003	2 843	11.1	5.7
484210	Used household & office goods moving .....	225	241 970	82 195	18 003	2 843	11.1	5.7
4842101	Used household & office goods moving, local, without storage .....	97	41 762	15 443	3 300	733	24.1	3.2
4842102	Used household & office goods moving, long-distance .....	88	160 971	51 610	11 226	1 629	6.0	6.2
4842103	Used household & office goods moving, local, with storage .....	40	39 237	15 142	3 477	481	18.1	6.3
48422	Specialized freight (except used goods) trucking, local .....	992	729 486	201 274	35 950	5 655	26.6	5.8
484220	Specialized freight (except used goods) trucking, local .....	992	729 486	201 274	35 950	5 655	26.6	5.8
4842201	Hazardous materials trucking (except waste), local .....	28	14 348	4 248	922	143	41.0	5.0
4842202	Agricultural products trucking without storage, local .....	203	79 791	17 413	3 985	728	51.8	5.7
4842203	Dump trucking .....	466	414 318	110 552	15 932	2 685	24.5	2.8
4842204	Specialized trucking without storage, local .....	282	198 143	61 252	13 254	1 880	22.6	11.3
4842205	Specialized trucking with storage, local .....	13	22 886	7 809	1 857	219	3.7	12.6
48423	Specialized freight (except used goods) trucking, long-distance .....	405	807 912	243 915	57 207	5 411	14.2	5.3
484230	Specialized freight (except used goods) trucking, long-distance .....	405	807 912	243 915	57 207	5 411	14.2	5.3
4842301	Hazardous materials trucking (except waste), long-distance .....	38	64 922	16 709	4 337	516	21.4	8.9
4842302	Agricultural products trucking, long-distance .....	93	47 865	10 199	1 973	405	40.9	3.5
4842303	Other specialized trucking, long-distance .....	274	695 125	217 007	50 897	4 490	11.6	5.1
485	Transit & ground passenger transportation .....	245	163 154	62 239	14 163	3 890	17.6	6.5
4851	Urban transit systems .....	13	D	D	D	e	D	D
48511	Urban transit systems .....	13	D	D	D	e	D	D
485113	Bus & motor vehicle transit systems .....	9	5 595	3 396	560	145	.4	—
4853	Taxi & limousine service .....	109	33 249	10 309	2 335	831	10.7	7.8
48531	Taxi service .....	61	17 711	6 451	1 492	486	5.8	5.5
485310	Taxi service .....	61	17 711	6 451	1 492	486	5.8	5.5
48532	Limousine service .....	48	15 538	3 858	843	345	16.3	10.6
485320	Limousine service .....	48	15 538	3 858	843	345	16.3	10.6
4854	School & employee bus transportation .....	31	28 724	12 800	3 365	958	3.9	1.5
48541	School & employee bus transportation .....	31	28 724	12 800	3 365	958	3.9	1.5
485410	School & employee bus transportation .....	31	28 724	12 800	3 365	958	3.9	1.5
4854101	School bus service .....	28	28 572	12 750	3 351	948	3.8	1.5
4855	Charter bus industry .....	41	49 947	17 227	3 552	950	45.3	8.5
48551	Charter bus industry .....	41	49 947	17 227	3 552	950	45.3	8.5
485510	Charter bus industry .....	41	49 947	17 227	3 552	950	45.3	8.5
4855101	Charter bus service, local .....	13	10 124	3 475	513	164	81.8	3.5
4855102	Charter bus service, interstate/interurban .....	28	39 823	13 752	3 039	786	36.0	9.8
4859	Other transit & ground passenger transportation .....	47	33 375	11 572	2 570	722	3.3	10.2
48599	Other transit & ground passenger transportation .....	47	33 375	11 572	2 570	722	3.3	10.2
485991	Special needs transportation .....	33	18 132	6 401	1 295	405	5.3	13.3
485999	All other transit & ground passenger transportation .....	14	15 243	5 171	1 275	317	.9	6.5
4859991	Scheduled airport shuttle service .....	11	D	D	D	e	D	D
486	Pipeline transportation .....	59	701 595	91 477	21 999	1 700	—	.3
4861	Pipeline transportation of crude oil .....	7	D	D	D	c	D	D
48611	Pipeline transportation of crude oil .....	7	D	D	D	c	D	D
486110	Pipeline transportation of crude oil .....	7	D	D	D	c	D	D
4862	Pipeline transportation of natural gas .....	41	595 134	80 910	19 161	1 494	—	.4
48621	Pipeline transportation of natural gas .....	41	595 134	80 910	19 161	1 494	—	.4
486210	Pipeline transportation of natural gas .....	41	595 134	80 910	19 161	1 494	—	.4
4862101	Natural gas transmission .....	29	D	D	D	e	D	D
4862102	Natural gas transmission & distribution (transmission) .....	12	D	D	D	g	D	D
4869	Other pipeline transportation .....	11	D	D	D	b	D	D
48691	Pipeline transportation of refined petroleum products .....	11	D	D	D	b	D	D
486910	Pipeline transportation of refined petroleum products .....	11	D	D	D	b	D	D

See footnotes at end of table.

**Table 1. Summary Statistics for the State: 1997—Con.**

[Includes only establishments with payroll. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS code	Kind of business	Establishments (number)	Revenue (\$1,000)	Annual payroll (\$1,000)	First-quarter payroll (\$1,000)	Paid employees for pay period including March 12 (number)	Percent of revenue—	
							From administrative records <sup>1</sup>	Estimated <sup>2</sup>
<b>MICHIGAN—Con.</b>								
<b>48-49</b>	<b>Transportation &amp; warehousing %*—Con.</b>							
487	Scenic & sightseeing transportation .....	48	10 926	3 064	402	175	9.8	7.2
4871	Scenic & sightseeing transportation, land .....	10	D	D	D	b	D	D
48711	Scenic & sightseeing transportation, land .....	10	D	D	D	b	D	D
487110	Scenic & sightseeing transportation, land .....	10	D	D	D	b	D	D
4872	Scenic & sightseeing transportation, water .....	30	7 345	1 755	201	107	6.1	10.2
48721	Scenic & sightseeing transportation, water .....	30	7 345	1 755	201	107	6.1	10.2
487210	Scenic & sightseeing transportation, water .....	30	7 345	1 755	201	107	6.1	10.2
4872101	Excursion & sightseeing boats (including dinner cruises) .....	20	5 711	1 444	175	87	2.2	7.3
4872102	Charter fishing & party fishing boats .....	10	1 634	311	26	20	19.7	20.3
4879	Scenic & sightseeing transportation, other .....	8	D	D	D	a	D	D
48799	Scenic & sightseeing transportation, other .....	8	D	D	D	a	D	D
487990	Scenic & sightseeing transportation, other .....	8	D	D	D	a	D	D
4879901	Sightseeing airplanes and helicopters .....	8	D	D	D	a	D	D
488	Support activities for transportation .....	776	832 148	259 495	61 157	9 549	6.4	6.4
4881	Support activities for air transportation .....	103	161 868	48 589	11 341	2 283	4.8	8.2
48811	Airport operations .....	50	69 157	19 748	5 029	1 244	8.1	16.8
488119	Other airport operations .....	50	69 157	19 748	5 029	1 244	8.1	16.8
4881191	Airport operation & terminal services .....	50	69 157	19 748	5 029	1 244	8.1	16.8
48819	Other support activities for air transportation .....	53	92 711	28 841	6 312	1 039	2.4	1.8
488190	Other support activities for air transportation .....	53	92 711	28 841	6 312	1 039	2.4	1.8
4882	Support activities for rail transportation .....	34	46 043	21 736	5 655	704	14.1	13.8
48821	Support activities for rail transportation .....	34	46 043	21 736	5 655	704	14.1	13.8
488210	Support activities for rail transportation .....	34	46 043	21 736	5 655	704	14.1	13.8
4882101	Support activities incidental to rail transportation .....	34	46 043	21 736	5 655	704	14.1	13.8
4883	Support activities for water transportation .....	38	24 918	9 202	1 653	190	5.9	1.9
48833	Navigational services to shipping .....	8	7 281	2 913	440	46	9.5	—
488330	Navigational services to shipping .....	8	7 281	2 913	440	46	9.5	—
48839	Other support activities for water transportation .....	21	3 010	998	151	46	18.8	9.4
488390	Other support activities for water transportation .....	21	3 010	998	151	46	18.8	9.4
4883901	Other services incidental to water transportation .....	18	2 359	709	112	37	24.0	11.3
4884	Support activities for road transportation .....	259	110 505	38 032	9 063	1 812	13.8	9.7
48841	Motor vehicle towing .....	244	87 940	28 430	7 021	1 467	14.9	10.6
488410	Motor vehicle towing .....	244	87 940	28 430	7 021	1 467	14.9	10.6
48849	Other support activities for road transportation .....	15	22 565	9 602	2 042	345	9.2	6.3
488490	Other support activities for road transportation .....	15	22 565	9 602	2 042	345	9.2	6.3
4884903	Fixed facilities & inspection & weighing serv for motor trans veh .....	7	D	D	D	c	D	D
4885	Freight transportation arrangement .....	312	390 609	116 548	27 923	3 770	5.2	5.4
48851	Freight transportation arrangement .....	312	390 609	116 548	27 923	3 770	5.2	5.4
488510	Freight transportation arrangement .....	312	390 609	116 548	27 923	3 770	5.2	5.4
4885101	Freight forwarding .....	109	204 251	53 581	13 896	1 867	7.3	5.7
4885102	Arrangement of transportation of freight & cargo .....	203	186 358	62 967	14 027	1 903	2.9	5.0
4889	Other support activities for transportation .....	30	98 205	25 388	5 522	790	1.7	1.0
48899	Other support activities for transportation .....	30	98 205	25 388	5 522	790	1.7	1.0
488991	Packing & crating .....	26	D	D	D	f	D	D
492	Couriers & messengers .....	282	1 245 723	501 368	125 654	16 031	3.3	1.2
4921	Couriers .....	143	1 187 900	469 652	117 646	14 650	2.0	1.0
49211	Couriers .....	143	1 187 900	469 652	117 646	14 650	2.0	1.0
492110	Couriers .....	143	1 187 900	469 652	117 646	14 650	2.0	1.0
4921101	Courier services (except by air) .....	56	575 238	306 664	77 012	9 932	2.5	.2
4921102	Air courier services .....	87	612 662	162 988	40 634	4 718	1.4	1.8
4922	Local messengers & local delivery .....	139	57 823	31 716	8 008	1 381	29.6	4.7
49221	Local messengers & local delivery .....	139	57 823	31 716	8 008	1 381	29.6	4.7
492210	Local messengers & local delivery .....	139	57 823	31 716	8 008	1 381	29.6	4.7
493	Warehousing & storage .....	170	234 153	59 877	13 514	2 227	12.6	5.9
4931	Warehousing & storage .....	170	234 153	59 877	13 514	2 227	12.6	5.9
49311	General warehousing & storage .....	104	148 915	35 789	7 856	1 351	14.8	4.2
493110	General warehousing & storage .....	104	148 915	35 789	7 856	1 351	14.8	4.2
4931101	General warehousing & storage (except in foreign trade zones) .....	104	148 915	35 789	7 856	1 351	14.8	4.2
49312	Refrigerated warehousing & storage .....	28	39 514	9 391	2 248	363	7.3	13.8
493120	Refrigerated warehousing & storage .....	28	39 514	9 391	2 248	363	7.3	13.8
4931201	Refrigerated products warehousing .....	28	39 514	9 391	2 248	363	7.3	13.8
49319	Other warehousing & storage .....	35	D	D	D	e	D	D
493190	Other warehousing & storage .....	35	D	D	D	e	D	D
4931902	Specialized goods warehousing & storage .....	30	37 493	12 562	2 891	430	12.2	5.3

%\* Data do not include large certificated passenger carriers that report to the Office of Airline Statistics, U.S. Department of Transportation.  
 \*\* Railroad transportation and U.S. Postal Service are out of scope for the 1997 Economic Census.

<sup>1</sup>Includes revenue information obtained from administrative records of other Federal agencies.

<sup>2</sup>Includes revenue information which was imputed based on historic company ratios or administrative records, or on industry averages.

**Table 2. Summary Statistics for Metropolitan Areas: 1997**

[Includes only establishments with payroll. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A. For definitions of metropolitan areas (CMSAs, MSAs, and PMSAs), see Appendix E]

NAICS code	Geographic area and kind of business	Establishments (number)	Revenue (\$1,000)	Annual payroll (\$1,000)	First-quarter payroll (\$1,000)	Paid employees for pay period including March 12 (number)	Percent of revenue—	
							From administrative records <sup>1</sup>	Estimated <sup>2</sup>
<b>BENTON HARBOR, MI MSA</b>								
<b>48-49</b>	<b>Transportation &amp; warehousing %* **</b>	<b>72</b>	<b>58 155</b>	<b>15 502</b>	<b>3 457</b>	<b>617</b>	<b>12.0</b>	<b>3.5</b>
481	Air transportation %	2	D	D	D	a	D	D
484	Truck transportation	46	28 446	8 526	1 783	304	21.9	7.1
4841	General freight trucking	28	11 888	3 954	850	172	26.9	14.7
48412	General freight trucking, long-distance	20	9 129	3 179	683	127	14.1	10.8
484121	General freight trucking, long-distance, truckload	17	D	D	D	b	D	D
4842	Specialized freight trucking	18	16 558	4 572	933	132	18.3	1.7
485	Transit & ground passenger transportation	4	D	D	D	b	D	D
486	Pipeline transportation	4	16 919	1 497	369	31	-	-
487	Scenic & sightseeing transportation	1	D	D	D	a	D	D
488	Support activities for transportation	6	2 373	1 077	259	89	3.2	-
492	Couriers & messengers	2	D	D	D	b	D	D
493	Warehousing & storage	7	D	D	D	b	D	D
<b>DETROIT-ANN ARBOR-FLINT, MI CMSA</b>								
<b>48-49</b>	<b>Transportation &amp; warehousing %* **</b>	<b>2 362</b>	<b>6 260 593</b>	<b>1 616 943</b>	<b>383 342</b>	<b>49 838</b>	<b>7.9</b>	<b>4.9</b>
481	Air transportation %	62	D	D	D	h	D	D
4811	Scheduled air transportation %	33	282 080	53 734	13 919	1 831	8.8	3.1
48111	Scheduled air transportation %	33	282 080	53 734	13 919	1 831	8.8	3.1
481111	Scheduled passenger air transportation %	27	D	D	D	g	D	D
4812	Nonscheduled air transportation	29	D	D	D	f	D	D
48121	Nonscheduled air transportation	29	D	D	D	f	D	D
481211	Nonscheduled chartered passenger air transportation	18	D	D	D	e	D	D
483	Water transportation	9	D	D	D	b	D	D
484	Truck transportation	1 374	3 529 465	839 749	193 107	24 010	9.3	6.4
4841	General freight trucking	623	2 441 784	510 298	124 356	16 115	6.9	6.7
48411	General freight trucking, local	284	516 805	132 538	31 796	3 724	12.4	9.2
484110	General freight trucking, local	284	516 805	132 538	31 796	3 724	12.4	9.2
4841101	General freight trucking without storage, local, truckload	198	349 427	60 152	14 825	2 007	13.9	11.3
4841102	General freight trucking w/o storage, local, less than truckload	73	D	D	D	g	D	D
48412	General freight trucking, long-distance	339	1 924 979	377 760	92 560	12 391	5.4	6.0
484121	General freight trucking, long-distance, truckload	253	1 415 671	213 364	53 365	8 156	7.1	7.9
484122	General freight trucking, long-distance, less than truckload	86	509 308	164 396	39 195	4 235	.7	.7
4842	Specialized freight trucking	751	1 087 681	329 451	68 751	7 895	14.8	5.7
48421	Used household & office goods moving	126	161 248	53 187	11 595	1 810	8.5	5.6
484210	Used household & office goods moving, local, without storage	126	161 248	53 187	11 595	1 810	8.5	5.6
4842101	Used household & office goods moving, local, without storage	63	D	D	D	e	D	D
4842102	Used household & office goods moving, long-distance	38	105 897	32 159	6 823	972	4.1	6.5
4842103	Used household & office goods moving, local, with storage	25	D	D	D	e	D	D
48422	Specialized freight (except used goods) trucking, local	451	439 521	127 628	21 486	3 066	23.7	6.4
484220	Specialized freight (except used goods) trucking, local	451	439 521	127 628	21 486	3 066	23.7	6.4
4842201	Hazardous materials trucking (except waste), local	13	8 877	2 589	550	81	43.9	1.2
4842202	Agricultural products trucking without storage, local	40	15 609	4 476	1 015	163	67.9	20.5
4842203	Dump trucking	236	249 515	67 714	9 049	1 425	24.2	2.4
4842204	Specialized trucking without storage, local	154	151 483	47 251	9 620	1 280	18.7	11.0
48423	Specialized freight (except used goods) trucking, long-distance	174	486 912	148 636	35 670	3 019	8.9	5.1
484230	Specialized freight (except used goods) trucking, long-distance	174	486 912	148 636	35 670	3 019	8.9	5.1
4842301	Hazardous materials trucking (except waste), long-distance	13	D	D	D	c	D	D
4842302	Agricultural products trucking, long-distance	18	D	D	D	b	D	D
4842303	Other specialized trucking, long-distance	143	467 326	142 532	34 051	2 810	7.9	4.5
485	Transit & ground passenger transportation	154	D	D	D	h	D	D
4853	Taxi & limousine service	73	D	D	D	f	D	D
48531	Taxi service	40	D	D	D	e	D	D
485310	Taxi service	40	D	D	D	e	D	D
48532	Limousine service	33	D	D	D	e	D	D
485320	Limousine service	33	D	D	D	e	D	D
4854	School & employee bus transportation	22	D	D	D	f	D	D
48541	School & employee bus transportation	22	D	D	D	f	D	D
485410	School & employee bus transportation	22	D	D	D	f	D	D
4854101	School bus service	19	D	D	D	f	D	D
4855	Charter bus industry	16	D	D	D	e	D	D
48551	Charter bus industry	16	D	D	D	e	D	D
485510	Charter bus industry	16	D	D	D	e	D	D
4859	Other transit & ground passenger transportation	35	22 934	7 895	1 885	525	4.3	11.5
48599	Other transit & ground passenger transportation	35	22 934	7 895	1 885	525	4.3	11.5
485991	Special needs transportation	24	8 553	3 028	675	226	10.3	26.0
485999	All other transit & ground passenger transportation	11	14 381	4 867	1 210	299	.8	2.9
486	Pipeline transportation	20	D	D	D	g	D	D
4862	Pipeline transportation of natural gas	16	D	D	D	g	D	D
48621	Pipeline transportation of natural gas	16	D	D	D	g	D	D
486210	Pipeline transportation of natural gas	16	D	D	D	g	D	D
4862101	Natural gas transmission	11	D	D	D	e	D	D

See footnotes at end of table.

**Table 2. Summary Statistics for Metropolitan Areas: 1997—Con.**

[Includes only establishments with payroll. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A. For definitions of metropolitan areas (CMSAs, MSAs, and PMSAs), see Appendix E]

NAICS code	Geographic area and kind of business	Establishments (number)	Revenue (\$1,000)	Annual payroll (\$1,000)	First-quarter payroll (\$1,000)	Paid employees for pay period including March 12 (number)	Percent of revenue—	
							From administrative records <sup>1</sup>	Estimated <sup>2</sup>
<b>DETROIT-ANN ARBOR-FLINT, MI CMSA—Con.</b>								
<b>48-49</b>	<b>Transportation &amp; warehousing %* **—Con.</b>							
487	Scenic & sightseeing transportation .....	12	D	D	D	b	D	D
488	Support activities for transportation .....	484	638 231	197 082	47 082	7 051	5.9	6.1
4881	Support activities for air transportation .....	51	D	D	D	g	D	D
48811	Airport operations .....	23	D	D	D	f	D	D
488119	Other airport operations .....	23	D	D	D	f	D	D
4881191	Airport operation & terminal services .....	23	D	D	D	f	D	D
48819	Other support activities for air transportation .....	28	D	D	D	e	D	D
488190	Other support activities for air transportation .....	28	D	D	D	e	D	D
4882	Support activities for rail transportation .....	24	D	D	D	e	D	D
48821	Support activities for rail transportation .....	24	D	D	D	e	D	D
488210	Support activities for rail transportation .....	24	D	D	D	e	D	D
4882101	Support activities incidental to rail transportation .....	24	D	D	D	e	D	D
4883	Support activities for water transportation .....	26	21 424	8 473	1 547	165	5.5	1.2
48839	Other support activities for water transportation .....	14	1 867	758	106	30	14.3	14.1
488390	Other support activities for water transportation .....	14	1 867	758	106	30	14.3	14.1
4883901	Other services incidental to water transportation .....	11	1 216	469	67	21	22.0	20.3
4884	Support activities for road transportation .....	143	D	D	D	g	D	D
48841	Motor vehicle towing .....	134	53 693	18 215	4 389	900	12.0	7.0
488410	Motor vehicle towing .....	134	53 693	18 215	4 389	900	12.0	7.0
4885	Freight transportation arrangement .....	220	338 854	100 953	24 361	3 269	5.3	4.7
48851	Freight transportation arrangement .....	220	338 854	100 953	24 361	3 269	5.3	4.7
488510	Freight transportation arrangement .....	220	338 854	100 953	24 361	3 269	5.3	4.7
4885101	Freight forwarding .....	85	D	D	D	g	D	D
4885102	Arrangement of transportation of freight & cargo .....	135	D	D	D	g	D	D
4889	Other support activities for transportation .....	20	D	D	D	f	D	D
48899	Other support activities for transportation .....	20	D	D	D	f	D	D
488991	Packing & crating .....	17	91 265	23 162	5 082	657	.6	1.0
492	Couriers & messengers .....	151	876 350	332 717	84 271	10 464	1.6	.8
4921	Couriers .....	69	839 923	312 175	79 112	9 656	.3	.6
49211	Couriers .....	69	839 923	312 175	79 112	9 656	.3	.6
492110	Couriers .....	69	839 923	312 175	79 112	9 656	.3	.6
4921101	Courier services (except by air) .....	19	D	D	D	i	D	D
4921102	Air courier services .....	50	D	D	D	h	D	D
4922	Local messengers & local delivery .....	82	36 427	20 542	5 159	808	31.2	5.8
49221	Local messengers & local delivery .....	82	36 427	20 542	5 159	808	31.2	5.8
492210	Local messengers & local delivery .....	82	36 427	20 542	5 159	808	31.2	5.8
493	Warehousing & storage .....	96	D	D	D	g	D	D
4931	Warehousing & storage .....	96	D	D	D	g	D	D
49311	General warehousing & storage .....	58	D	D	D	g	D	D
493110	General warehousing & storage .....	58	D	D	D	g	D	D
4931101	General warehousing & storage (except in foreign trade zones) .....	58	D	D	D	g	D	D
49319	Other warehousing & storage .....	27	36 882	12 823	2 977	444	11.9	3.3
493190	Other warehousing & storage .....	27	36 882	12 823	2 977	444	11.9	3.3
4931902	Specialized goods warehousing & storage .....	24	D	D	D	e	D	D
<b>Ann Arbor, MI PMSA</b>								
<b>48-49</b>	<b>Transportation &amp; warehousing %* **</b> .....	<b>210</b>	<b>553 391</b>	<b>166 797</b>	<b>40 389</b>	<b>4 699</b>	<b>9.7</b>	<b>3.9</b>
481	Air transportation %* .....	10	100 605	27 394	7 605	870	24.5	.3
484	Truck transportation .....	131	132 351	48 289	10 118	1 261	20.4	7.6
4841	General freight trucking .....	50	55 190	24 307	5 656	671	18.4	9.8
48411	General freight trucking, local .....	19	9 778	4 161	752	164	44.7	6.4
484110	General freight trucking, local .....	19	9 778	4 161	752	164	44.7	6.4
48412	General freight trucking, long-distance .....	31	45 412	20 146	4 904	507	12.7	10.5
484121	General freight trucking, long-distance, truckload .....	25	21 579	3 493	828	100	26.8	22.2
4842	Specialized freight trucking .....	81	77 161	23 982	4 462	590	21.8	6.0
48421	Used household & office goods moving .....	11	9 875	3 240	719	172	11.3	2.1
484210	Used household & office goods moving .....	11	9 875	3 240	719	172	11.3	2.1
48422	Specialized freight (except used goods) trucking, local .....	56	43 186	12 920	1 944	299	31.4	9.9
484220	Specialized freight (except used goods) trucking, local .....	56	43 186	12 920	1 944	299	31.4	9.9
4842203	Dump trucking .....	24	28 710	7 349	817	140	13.7	12.6
4842204	Specialized trucking without storage, local .....	20	11 464	4 923	989	128	69.5	.7
48423	Specialized freight (except used goods) trucking, long-distance .....	14	24 100	7 822	1 799	119	8.8	.7
484230	Specialized freight (except used goods) trucking, long-distance .....	14	24 100	7 822	1 799	119	8.8	.7
485	Transit & ground passenger transportation .....	12	D	D	D	c	D	D
486	Pipeline transportation .....	3	22 728	1 980	549	42	-	-
487	Scenic & sightseeing transportation .....	1	D	D	D	a	D	D
488	Support activities for transportation .....	33	34 775	7 908	2 063	456	4.9	30.1
4884	Support activities for road transportation .....	13	D	D	D	c	D	D
48841	Motor vehicle towing .....	12	5 223	2 200	467	112	7.0	11.4
488410	Motor vehicle towing .....	12	5 223	2 200	467	112	7.0	11.4
492	Couriers & messengers .....	14	246 858	74 220	18 737	1 710	.1	.2
493	Warehousing & storage .....	6	D	D	D	c	D	D

See footnotes at end of table.

**Table 2. Summary Statistics for Metropolitan Areas: 1997—Con.**

[Includes only establishments with payroll. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A. For definitions of metropolitan areas (CMSAs, MSAs, and PMSAs), see Appendix E]

NAICS code	Geographic area and kind of business	Establishments (number)	Revenue (\$1,000)	Annual payroll (\$1,000)	First-quarter payroll (\$1,000)	Paid employees for pay period including March 12 (number)	Percent of revenue—	
							From administrative records <sup>1</sup>	Estimated <sup>2</sup>
<b>DETROIT--ANN ARBOR--FLINT, MI CMSA--Con.</b>								
<b>Detroit, MI PMSA</b>								
<b>48-49</b>	<b>Transportation &amp; warehousing %* **</b>	<b>1 991</b>	<b>5 516 265</b>	<b>1 383 543</b>	<b>326 681</b>	<b>43 291</b>	<b>7.4</b>	<b>5.0</b>
481	Air transportation %	47	371 251	65 824	15 278	1 894	14.1	3.4
4811	Scheduled air transportation %	26	224 543	39 287	9 315	1 339	.3	3.9
48111	Scheduled air transportation %	26	224 543	39 287	9 315	1 339	.3	3.9
481111	Scheduled passenger air transportation %	21	D	D	D	f	D	D
4812	Nonscheduled air transportation	21	146 708	26 537	5 963	555	35.3	2.6
48121	Nonscheduled air transportation	21	146 708	26 537	5 963	555	35.3	2.6
481211	Nonscheduled chartered passenger air transportation	14	D	D	D	e	D	D
483	Water transportation	9	D	D	D	b	D	D
484	Truck transportation	1 135	3 273 214	740 910	170 163	21 606	8.8	6.3
4841	General freight trucking	518	2 333 665	467 762	114 317	14 849	6.7	6.5
48411	General freight trucking, local	248	501 973	126 830	30 730	3 509	11.6	8.7
484110	General freight trucking, local	248	501 973	126 830	30 730	3 509	11.6	8.7
4841101	General freight trucking without storage, local, truckload	177	339 689	56 626	14 211	1 875	13.3	11.1
4841102	General freight trucking w/o storage, local, less than truckload	60	147 046	63 817	15 039	1 398	6.6	3.6
48412	General freight trucking, long-distance	270	1 831 692	340 932	83 587	11 340	5.3	6.0
484121	General freight trucking, long-distance, truckload	201	1 363 871	199 766	49 997	7 668	6.9	7.8
484122	General freight trucking, long-distance, less than truckload	69	467 821	141 166	33 590	3 672	.8	.8
4842	Specialized freight trucking	617	939 549	273 148	55 846	6 757	14.2	5.8
48421	Used household & office goods moving	104	138 152	44 845	9 788	1 502	8.6	6.4
484210	Used household & office goods moving	104	138 152	44 845	9 788	1 502	8.6	6.4
4842101	Used household & office goods moving, local, without storage	51	22 789	8 024	1 708	414	23.8	3.7
4842102	Used household & office goods moving, long-distance	34	86 942	25 070	5 257	752	5.0	7.9
4842103	Used household & office goods moving, local, with storage	19	28 421	11 751	2 823	336	7.4	4.2
48422	Specialized freight (except used goods) trucking, local	367	386 130	112 716	19 241	2 712	22.0	5.8
484220	Specialized freight (except used goods) trucking, local	367	386 130	112 716	19 241	2 712	22.0	5.8
4842202	Agricultural products trucking without storage, local	28	12 177	3 794	864	132	76.4	15.0
4842203	Dump trucking	194	213 380	58 986	8 044	1 250	24.7	.7
4842204	Specialized trucking without storage, local	127	139 110	42 074	8 597	1 144	14.2	11.9
48423	Specialized freight (except used goods) trucking, long-distance	146	415 267	115 587	26 817	2 543	8.9	5.7
484230	Specialized freight (except used goods) trucking, long-distance	146	415 267	115 587	26 817	2 543	8.9	5.7
4842301	Hazardous materials trucking (except waste), long-distance	12	13 935	4 642	1 331	149	24.0	20.0
4842302	Agricultural products trucking, long-distance	15	4 524	1 231	245	51	44.2	17.8
4842303	Other specialized trucking, long-distance	119	396 808	109 714	25 241	2 343	7.9	5.0
485	Transit & ground passenger transportation	134	88 727	34 702	8 457	2 173	8.0	9.2
4853	Taxi & limousine service	64	18 330	5 164	1 212	437	12.5	13.0
48531	Taxi service	34	D	D	D	c	D	D
485310	Taxi service	34	D	D	D	c	D	D
48532	Limousine service	30	D	D	D	c	D	D
485320	Limousine service	30	D	D	D	c	D	D
4854	School & employee bus transportation	17	22 343	10 102	2 716	710	2.2	.6
48541	School & employee bus transportation	17	22 343	10 102	2 716	710	2.2	.6
485410	School & employee bus transportation	17	22 343	10 102	2 716	710	2.2	.6
4854101	School bus service	14	22 191	10 052	2 702	700	2.0	.6
4855	Charter bus industry	12	13 072	3 938	807	240	25.6	23.0
48551	Charter bus industry	12	13 072	3 938	807	240	25.6	23.0
485510	Charter bus industry	12	13 072	3 938	807	240	25.6	23.0
4859	Other transit & ground passenger transportation	35	22 934	7 895	1 885	525	4.3	11.5
48599	Other transit & ground passenger transportation	35	22 934	7 895	1 885	525	4.3	11.5
485991	Special needs transportation	24	8 553	3 028	675	226	10.3	26.0
485999	All other transit & ground passenger transportation	11	14 381	4 867	1 210	299	.8	2.9
486	Pipeline transportation	16	D	D	D	g	D	D
4862	Pipeline transportation of natural gas	13	D	D	D	g	D	D
48621	Pipeline transportation of natural gas	13	D	D	D	g	D	D
486210	Pipeline transportation of natural gas	13	D	D	D	g	D	D
487	Scenic & sightseeing transportation	11	D	D	D	b	D	D
488	Support activities for transportation	429	594 710	186 411	44 352	6 463	5.8	4.6
4881	Support activities for air transportation	41	65 227	23 643	5 546	1 162	6.8	3.0
48811	Airport operations	18	28 414	12 498	2 897	750	11.9	1.7
488119	Other airport operations	18	28 414	12 498	2 897	750	11.9	1.7
4881191	Airport operation & terminal services	18	28 414	12 498	2 897	750	11.9	1.7
48819	Other support activities for air transportation	23	36 813	11 145	2 649	412	2.8	4.0
488190	Other support activities for air transportation	23	36 813	11 145	2 649	412	2.8	4.0
4882	Support activities for rail transportation	22	28 257	13 052	3 674	433	23.0	20.1
48821	Support activities for rail transportation	22	28 257	13 052	3 674	433	23.0	20.1
488210	Support activities for rail transportation	22	28 257	13 052	3 674	433	23.0	20.1
4882101	Support activities incidental to rail transportation	22	28 257	13 052	3 674	433	23.0	20.1
4883	Support activities for water transportation	26	21 424	8 473	1 547	165	5.5	1.2
48839	Other support activities for water transportation	14	1 867	758	106	30	14.3	14.1
488390	Other support activities for water transportation	14	1 867	758	106	30	14.3	14.1
4883901	Other services incidental to water transportation	11	1 216	469	67	21	22.0	20.3
4884	Support activities for road transportation	117	60 572	20 871	4 967	923	8.7	4.3
48841	Motor vehicle towing	110	44 886	15 176	3 734	742	11.5	5.8
488410	Motor vehicle towing	110	44 886	15 176	3 734	742	11.5	5.8

See footnotes at end of table.



**Table 2. Summary Statistics for Metropolitan Areas: 1997—Con.**

[Includes only establishments with payroll. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A. For definitions of metropolitan areas (CMSAs, MSAs, and PMSAs), see Appendix E]

NAICS code	Geographic area and kind of business	Establishments (number)	Revenue (\$1,000)	Annual payroll (\$1,000)	First-quarter payroll (\$1,000)	Paid employees for pay period including March 12 (number)	Percent of revenue—	
							From administrative records <sup>1</sup>	Estimated <sup>2</sup>
	<b>DETROIT—ANN ARBOR—FLINT, MI CMSA—Con.</b>							
	<b>Detroit, MI PMSA—Con.</b>							
<b>48-49</b>	<b>Transportation &amp; warehousing %% **—Con.</b>							
488	Support activities for transportation—Con.							
4885	Freight transportation arrangement . . . . .	205	333 235	98 610	23 850	3 175	5.0	4.8
48851	Freight transportation arrangement . . . . .	205	333 235	98 610	23 850	3 175	5.0	4.8
488510	Freight transportation arrangement . . . . .	205	333 235	98 610	23 850	3 175	5.0	4.8
4885101	Freight forwarding . . . . .	80	178 549	46 139	12 339	1 589	7.3	6.4
4885102	Arrangement of transportation of freight & cargo . . . . .	125	154 686	52 471	11 511	1 586	2.4	3.0
4889	Other support activities for transportation . . . . .	18	85 995	21 762	4 768	605	.7	1.1
48899	Other support activities for transportation . . . . .	18	85 995	21 762	4 768	605	.7	1.1
488991	Packing & crating . . . . .	15	D	D	D	f	D	D
492	Couriers & messengers . . . . .	127	598 372	251 936	64 024	8 503	2.1	1.1
4921	Couriers . . . . .	56	565 857	233 649	59 422	7 795	.4	.8
49211	Couriers . . . . .	56	565 857	233 649	59 422	7 795	.4	.8
492110	Couriers . . . . .	56	565 857	233 649	59 422	7 795	.4	.8
4921101	Courier services (except by air) . . . . .	16	331 558	176 299	44 582	5 938	.3	.2
4921102	Air courier services . . . . .	40	234 299	57 350	14 840	1 857	.7	1.7
4922	Local messengers & local delivery . . . . .	71	32 515	18 287	4 602	708	30.9	5.0
49221	Local messengers & local delivery . . . . .	71	32 515	18 287	4 602	708	30.9	5.0
492210	Local messengers & local delivery . . . . .	71	32 515	18 287	4 602	708	30.9	5.0
493	Warehousing & storage . . . . .	83	159 358	38 244	9 066	1 434	8.0	6.3
4931	Warehousing & storage . . . . .	83	159 358	38 244	9 066	1 434	8.0	6.3
49311	General warehousing & storage . . . . .	48	107 686	23 324	5 442	923	7.7	5.4
493110	General warehousing & storage . . . . .	48	107 686	23 324	5 442	923	7.7	5.4
4931101	General warehousing & storage (except in foreign trade zones) . . . . .	48	107 686	23 324	5 442	923	7.7	5.4
49319	Other warehousing & storage . . . . .	24	D	D	D	e	D	D
493190	Other warehousing & storage . . . . .	24	D	D	D	e	D	D
4931902	Specialized goods warehousing & storage . . . . .	23	32 673	11 134	2 628	379	13.4	3.0
	<b>Flint, MI PMSA</b>							
<b>48-49</b>	<b>Transportation &amp; warehousing %% **</b> . . . . .	<b>161</b>	<b>190 937</b>	<b>66 603</b>	<b>16 272</b>	<b>1 848</b>	<b>17.4</b>	<b>4.4</b>
481	Air transportation %% . . . . .	5	D	D	D	b	D	D
484	Truck transportation . . . . .	108	123 900	50 550	12 826	1 143	11.3	5.9
4841	General freight trucking . . . . .	55	52 929	18 229	4 383	595	6.8	8.4
48411	General freight trucking, local . . . . .	17	5 054	1 547	314	51	36.2	63.8
484110	General freight trucking, local . . . . .	17	5 054	1 547	314	51	36.2	63.8
4841101	General freight trucking without storage, local, truckload . . . . .	11	2 427	528	108	21	55.4	44.6
48412	General freight trucking, long-distance . . . . .	38	47 875	16 682	4 069	544	3.7	2.6
484121	General freight trucking, long-distance, truckload . . . . .	27	30 221	10 105	2 540	388	5.3	4.0
484122	General freight trucking, long-distance, less than truckload . . . . .	11	17 654	6 577	1 529	156	.9	—
4842	Specialized freight trucking . . . . .	53	70 971	32 321	8 443	548	14.7	4.0
48421	Used household & office goods moving . . . . .	11	13 221	5 102	1 088	136	6.1	—
484210	Used household & office goods moving . . . . .	11	13 221	5 102	1 088	136	6.1	—
48422	Specialized freight (except used goods) trucking, local . . . . .	28	10 205	1 992	301	55	53.6	16.7
484220	Specialized freight (except used goods) trucking, local . . . . .	28	10 205	1 992	301	55	53.6	16.7
4842203	Dump trucking . . . . .	18	7 425	1 379	188	35	50.6	12.1
48423	Specialized freight (except used goods) trucking, long-distance . . . . .	14	47 545	25 227	7 054	357	8.8	2.4
484230	Specialized freight (except used goods) trucking, long-distance . . . . .	14	47 545	25 227	7 054	357	8.8	2.4
4842303	Other specialized trucking, long-distance . . . . .	14	47 545	25 227	7 054	357	8.8	2.4
485	Transit & ground passenger transportation . . . . .	8	8 247	2 632	430	166	74.5	.2
486	Pipeline transportation . . . . .	1	D	D	D	a	D	D
488	Support activities for transportation . . . . .	22	8 746	2 763	667	132	14.9	9.8
4884	Support activities for road transportation . . . . .	13	D	D	D	b	D	D
48841	Motor vehicle towing . . . . .	12	3 584	839	188	46	25.5	16.6
488410	Motor vehicle towing . . . . .	12	3 584	839	188	46	25.5	16.6
492	Couriers & messengers . . . . .	10	31 120	6 561	1 510	251	3.2	—
493	Warehousing & storage . . . . .	7	D	D	D	b	D	D

See footnotes at end of table.

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NAICS code	Geographic area and kind of business	Establishments (number)	Revenue (\$1,000)	Annual payroll (\$1,000)	First-quarter payroll (\$1,000)	Paid employees for pay period including March 12 (number)	Percent of revenue—	
							From administrative records <sup>1</sup>	Estimated <sup>2</sup>
<b>GRAND RAPIDS—MUSKEGON—HOLLAND, MI MSA</b>								
<b>48-49</b>	<b>Transportation &amp; warehousing %* **</b> .....	<b>534</b>	<b>1 099 929</b>	<b>394 677</b>	<b>92 812</b>	<b>11 757</b>	<b>8.3</b>	<b>3.5</b>
481	Air transportation %* .....	13	21 262	2 830	732	120	12.7	14.9
483	Water transportation .....	3	D	D	D	b	D	D
484	Truck transportation .....	337	692 860	216 825	50 149	6 124	9.9	2.9
4841	General freight trucking .....	197	563 855	179 686	42 717	4 943	6.4	3.1
484110	General freight trucking, local .....	47	36 054	10 618	2 491	438	40.7	9.2
4841101	General freight trucking, local .....	47	36 054	10 618	2 491	438	40.7	9.2
4841101	General freight trucking without storage, local, truckload .....	31	19 522	4 628	1 131	216	57.3	6.3
4841102	General freight trucking w/o storage, local, less than truckload .....	15	D	D	D	c	D	D
48412	General freight trucking, long-distance .....	150	527 801	169 068	40 226	4 505	4.0	2.6
484121	General freight trucking, long-distance, truckload .....	111	348 015	109 237	24 833	3 000	6.0	2.1
484122	General freight trucking, long-distance, less than truckload .....	39	179 786	59 831	15 393	1 505	.3	3.7
4842	Specialized freight trucking .....	140	129 005	37 139	7 432	1 181	25.1	2.0
48421	Used household & office goods moving .....	20	27 983	10 858	2 335	358	5.8	.8
484210	Used household & office goods moving .....	20	27 983	10 858	2 335	358	5.8	.8
48422	Specialized freight (except used goods) trucking, local .....	86	59 384	13 170	2 246	437	31.4	2.6
484220	Specialized freight (except used goods) trucking, local .....	86	59 384	13 170	2 246	437	31.4	2.6
4842202	Agricultural products trucking without storage, local .....	22	14 809	1 597	382	76	21.0	1.7
4842203	Dump trucking .....	45	34 114	8 069	1 031	224	41.1	.3
4842204	Specialized trucking without storage, local .....	15	D	D	D	b	D	D
48423	Specialized freight (except used goods) trucking, long-distance .....	34	41 638	13 111	2 851	386	28.9	1.9
484230	Specialized freight (except used goods) trucking, long-distance .....	34	41 638	13 111	2 851	386	28.9	1.9
4842303	Other specialized trucking, long-distance .....	21	23 704	8 278	1 717	236	36.8	3.2
485	Transit & ground passenger transportation .....	18	17 255	5 474	850	285	7.9	8.3
486	Pipeline transportation .....	3	D	D	D	b	D	D
487	Scenic & sightseeing transportation .....	8	710	185	2	2	37.9	5.4
488	Support activities for transportation .....	87	41 950	14 626	3 410	616	9.2	15.2
4884	Support activities for road transportation .....	33	14 425	6 657	1 595	315	14.6	16.7
48841	Motor vehicle towing .....	29	8 378	3 080	864	174	4.0	11.7
488410	Motor vehicle towing .....	29	8 378	3 080	864	174	4.0	11.7
4885	Freight transportation arrangement .....	41	20 297	6 221	1 434	176	6.0	18.2
48851	Freight transportation arrangement .....	41	20 297	6 221	1 434	176	6.0	18.2
488510	Freight transportation arrangement .....	41	20 297	6 221	1 434	176	6.0	18.2
4885101	Freight forwarding .....	12	4 921	1 275	255	44	17.1	1.2
4885102	Arrangement of transportation of freight & cargo .....	29	15 376	4 946	1 179	132	2.5	23.6
492	Couriers & messengers .....	39	278 191	142 645	35 368	4 360	3.5	2.0
4921	Couriers .....	21	268 374	137 748	34 053	4 087	2.9	2.0
49211	Couriers .....	21	268 374	137 748	34 053	4 087	2.9	2.0
492110	Couriers .....	21	268 374	137 748	34 053	4 087	2.9	2.0
4921102	Air courier services .....	12	61 082	15 097	3 419	587	1.0	8.9
4922	Local messengers & local delivery .....	18	9 817	4 897	1 315	273	22.3	1.9
49221	Local messengers & local delivery .....	18	9 817	4 897	1 315	273	22.3	1.9
492210	Local messengers & local delivery .....	18	9 817	4 897	1 315	273	22.3	1.9
493	Warehousing & storage .....	26	21 181	5 244	1 064	182	24.7	10.9
4931	Warehousing & storage .....	26	21 181	5 244	1 064	182	24.7	10.9
493110	General warehousing & storage .....	19	12 315	3 363	628	111	21.3	—
4931101	General warehousing & storage .....	19	12 315	3 363	628	111	21.3	—
4931101	General warehousing & storage (except in foreign trade zones) .....	19	12 315	3 363	628	111	21.3	—
<b>JACKSON, MI MSA</b>								
<b>48-49</b>	<b>Transportation &amp; warehousing %* **</b> .....	<b>72</b>	<b>99 450</b>	<b>29 879</b>	<b>6 547</b>	<b>844</b>	<b>15.6</b>	<b>4.1</b>
481	Air transportation %* .....	3	D	D	D	a	D	D
484	Truck transportation .....	47	85 139	25 955	5 565	696	18.0	3.9
4841	General freight trucking .....	25	55 228	15 146	3 449	373	6.0	5.0
48412	General freight trucking, long-distance .....	18	50 403	14 114	3 220	339	5.1	4.9
484121	General freight trucking, long-distance, truckload .....	11	15 188	2 416	515	92	17.0	16.3
4842	Specialized freight trucking .....	22	29 911	10 809	2 116	323	40.1	1.8
485	Transit & ground passenger transportation .....	6	1 442	406	93	40	14.0	43.9
486	Pipeline transportation .....	4	D	D	D	b	D	D
488	Support activities for transportation .....	8	3 375	1 279	317	37	—	—
492	Couriers & messengers .....	3	D	D	D	b	D	D
493	Warehousing & storage .....	1	D	D	D	a	D	D

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							From administrative records <sup>1</sup>	Estimated <sup>2</sup>
<b>KALAMAZOO—BATTLE CREEK, MI MSA</b>								
<b>48-49</b>	<b>Transportation &amp; warehousing %* **</b>	<b>196</b>	<b>264 638</b>	<b>76 180</b>	<b>17 373</b>	<b>2 659</b>	<b>12.8</b>	<b>5.1</b>
481	Air transportation %* .....	3	5 573	966	221	43	D	—
484	Truck transportation .....	126	158 495	47 599	10 732	1 523	19.7	7.9
4841	General freight trucking .....	60	114 289	33 090	7 718	1 034	17.7	2.5
48411	General freight trucking, local .....	17	30 433	8 150	1 998	297	23.6	2.0
484110	General freight trucking, local .....	17	30 433	8 150	1 998	297	23.6	2.0
48412	General freight trucking, long-distance .....	43	83 856	24 940	5 720	737	15.6	2.7
484121	General freight trucking, long-distance, truckload .....	31	42 012	12 106	2 730	447	30.8	5.4
484122	General freight trucking, long-distance, less than truckload .....	12	41 844	12 834	2 990	290	.3	—
4842	Specialized freight trucking .....	66	44 206	14 509	3 014	489	24.9	21.8
48421	Used household & office goods moving .....	13	9 350	3 744	801	151	23.1	11.8
484210	Used household & office goods moving .....	13	9 350	3 744	801	151	23.1	11.8
48422	Specialized freight (except used goods) trucking, local .....	35	15 414	3 836	640	140	31.3	1.3
484220	Specialized freight (except used goods) trucking, local .....	35	15 414	3 836	640	140	31.3	1.3
4842204	Specialized trucking without storage, local .....	15	4 471	1 110	224	45	28.3	4.4
48423	Specialized freight (except used goods) trucking, long-distance .....	18	19 442	6 929	1 573	198	20.8	42.8
484230	Specialized freight (except used goods) trucking, long-distance .....	18	19 442	6 929	1 573	198	20.8	42.8
4842303	Other specialized trucking, long-distance .....	13	13 659	5 655	1 288	153	26.3	60.9
485	Transit & ground passenger transportation .....	9	D	D	D	b	D	D
486	Pipeline transportation .....	1	D	D	D	a	D	D
487	Scenic & sightseeing transportation .....	1	D	D	D	a	D	D
488	Support activities for transportation .....	28	53 535	16 035	3 825	566	2.7	1.5
4884	Support activities for road transportation .....	12	D	D	D	b	D	D
48841	Motor vehicle towing .....	11	D	D	D	b	D	D
488410	Motor vehicle towing .....	11	D	D	D	b	D	D
492	Couriers & messengers .....	14	25 467	6 365	1 467	301	2.6	.2
493	Warehousing & storage .....	14	13 170	3 659	796	154	1.4	1.1
4931	Warehousing & storage .....	14	13 170	3 659	796	154	1.4	1.1
<b>LANSING—EAST LANSING, MI MSA</b>								
<b>48-49</b>	<b>Transportation &amp; warehousing %* **</b>	<b>195</b>	<b>218 752</b>	<b>63 933</b>	<b>14 450</b>	<b>1 859</b>	<b>26.9</b>	<b>2.7</b>
481	Air transportation %* .....	4	5 741	421	91	26	4.4	—
484	Truck transportation .....	134	163 509	46 904	10 345	1 034	25.5	2.8
4841	General freight trucking .....	49	71 844	11 248	2 384	345	44.4	2.7
48411	General freight trucking, local .....	20	8 089	2 952	609	106	55.2	19.1
484110	General freight trucking, local .....	20	8 089	2 952	609	106	55.2	19.1
4841101	General freight trucking without storage, local, truckload .....	17	7 142	2 572	487	86	58.6	19.9
48412	General freight trucking, long-distance .....	29	63 755	8 296	1 775	239	43.1	.6
484121	General freight trucking, long-distance, truckload .....	25	48 528	4 025	796	144	56.6	.8
4842	Specialized freight trucking .....	85	91 665	35 656	7 961	689	10.6	2.8
48421	Used household & office goods moving .....	17	11 091	3 293	722	129	7.8	8.7
484210	Used household & office goods moving .....	17	11 091	3 293	722	129	7.8	8.7
48422	Specialized freight (except used goods) trucking, local .....	42	18 713	5 068	976	155	29.5	1.6
484220	Specialized freight (except used goods) trucking, local .....	42	18 713	5 068	976	155	29.5	1.6
4842203	Dump trucking .....	22	8 301	2 258	274	70	38.4	—
48423	Specialized freight (except used goods) trucking, long-distance .....	26	61 861	27 295	6 263	405	5.4	2.1
484230	Specialized freight (except used goods) trucking, long-distance .....	26	61 861	27 295	6 263	405	5.4	2.1
4842303	Other specialized trucking, long-distance .....	16	55 786	24 785	6 002	363	5.0	1.2
485	Transit & ground passenger transportation .....	9	13 845	6 043	1 400	376	89.0	—
486	Pipeline transportation .....	1	D	D	D	a	D	D
488	Support activities for transportation .....	27	16 122	5 113	1 325	199	17.2	4.9
492	Couriers & messengers .....	16	16 333	4 958	1 182	206	11.8	3.8
493	Warehousing & storage .....	4	D	D	D	a	D	D

See footnotes at end of table.

**Table 2. Summary Statistics for Metropolitan Areas: 1997—Con.**

[Includes only establishments with payroll. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A. For definitions of metropolitan areas (CMSAs, MSAs, and PMSAs), see Appendix E]

NAICS code	Geographic area and kind of business	Establishments (number)	Revenue (\$1,000)	Annual payroll (\$1,000)	First-quarter payroll (\$1,000)	Paid employees for pay period including March 12 (number)	Percent of revenue—	
							From administrative records <sup>1</sup>	Estimated <sup>2</sup>
<b>SAGINAW—BAY CITY—MIDLAND, MI MSA</b>								
<b>48-49</b>	<b>Transportation &amp; warehousing %% **</b>	<b>199</b>	<b>290 110</b>	<b>71 103</b>	<b>16 051</b>	<b>2 310</b>	<b>11.2</b>	<b>2.8</b>
481	Air transportation %%	6	D	D	D	a	D	D
483	Water transportation	2	D	D	D	a	D	D
484	Truck transportation	131	199 996	55 542	12 291	1 636	11.8	2.6
4841	General freight trucking	61	96 104	22 942	4 905	710	13.2	1.8
48411	General freight trucking, local	17	5 094	1 125	319	65	92.7	.3
484110	General freight trucking, local	17	5 094	1 125	319	65	92.7	.3
4841101	General freight trucking without storage, local, truckload	14	4 761	957	204	52	96.5	.4
48412	General freight trucking, long-distance	44	91 010	21 817	4 586	645	8.8	1.8
484121	General freight trucking, long-distance, truckload	33	60 184	11 820	2 338	429	12.7	2.8
484122	General freight trucking, long-distance, less than truckload	11	30 826	9 997	2 248	216	1.1	—
4842	Specialized freight trucking	70	103 892	32 600	7 386	926	10.4	3.3
48422	Specialized freight (except used goods) trucking, local	45	52 794	14 162	3 171	550	15.2	1.1
484220	Specialized freight (except used goods) trucking, local	45	52 794	14 162	3 171	550	15.2	1.1
4842203	Dump trucking	26	43 095	12 412	2 730	428	6.3	1.0
4842204	Specialized trucking without storage, local	14	3 513	882	203	56	58.3	4.6
48423	Specialized freight (except used goods) trucking, long-distance	15	37 458	12 674	2 694	222	6.1	7.5
484230	Specialized freight (except used goods) trucking, long-distance	15	37 458	12 674	2 694	222	6.1	7.5
4842303	Other specialized trucking, long-distance	12	D	D	D	c	D	D
485	Transit & ground passenger transportation	7	D	D	D	b	D	D
486	Pipeline transportation	3	D	D	D	b	D	D
487	Scenic & sightseeing transportation	4	D	D	D	b	D	D
488	Support activities for transportation	24	14 177	3 327	759	138	10.4	14.5
4884	Support activities for road transportation	13	4 831	1 741	443	87	25.3	40.9
48841	Motor vehicle towing	13	4 831	1 741	443	87	25.3	40.9
488410	Motor vehicle towing	13	4 831	1 741	443	87	25.3	40.9
492	Couriers & messengers	17	23 166	6 612	1 582	337	28.6	—
4921	Couriers	11	21 236	5 246	1 225	277	28.5	—
49211	Couriers	11	21 236	5 246	1 225	277	28.5	—
492110	Couriers	11	21 236	5 246	1 225	277	28.5	—
493	Warehousing & storage	5	D	D	D	b	D	D
<b>AREA OUTSIDE MICHIGAN METROPOLITAN AREAS</b>								
<b>48-49</b>	<b>Transportation &amp; warehousing %% **</b>	<b>1 103</b>	<b>957 616</b>	<b>225 580</b>	<b>48 930</b>	<b>8 093</b>	<b>23.7</b>	<b>4.6</b>
481	Air transportation %%	29	58 946	23 068	6 239	961	2.8	1.3
4811	Scheduled air transportation %%	18	36 229	6 110	1 363	245	—	2.1
48111	Scheduled air transportation %%	18	36 229	6 110	1 363	245	—	2.1
481111	Scheduled passenger air transportation %%	16	D	D	D	c	D	D
4812	Nonscheduled air transportation	11	22 717	16 958	4 876	716	7.3	—
48121	Nonscheduled air transportation	11	22 717	16 958	4 876	716	7.3	—
483	Water transportation	21	D	D	D	e	D	D
4831	Deep sea, coastal, & Great Lakes water transportation	18	D	D	D	e	D	D
48311	Deep sea, coastal, & Great Lakes water transportation	18	D	D	D	e	D	D
483114	Coastal & Great Lakes passenger transportation	12	D	D	D	b	D	D
484	Truck transportation	801	543 929	130 671	27 692	4 729	35.7	5.9
4841	General freight trucking	331	267 479	68 023	14 125	2 455	36.8	5.4
48411	General freight trucking, local	99	39 067	10 273	2 062	461	65.1	8.6
484110	General freight trucking, local	99	39 067	10 273	2 062	461	65.1	8.6
4841101	General freight trucking without storage, local, truckload	78	33 130	8 116	1 672	392	70.3	9.6
4841102	General freight trucking w/o storage, local, less than truckload	20	D	D	D	b	D	D
48412	General freight trucking, long-distance	232	228 412	57 750	12 063	1 994	32.0	4.8
484121	General freight trucking, long-distance, truckload	194	D	D	D	g	D	D
484122	General freight trucking, long-distance, less than truckload	38	D	D	D	e	D	D
4842	Specialized freight trucking	470	276 450	62 648	13 567	2 274	34.6	6.4
48421	Used household & office goods moving	34	D	D	D	c	D	D
484210	Used household & office goods moving	34	D	D	D	c	D	D
4842102	Used household & office goods moving, long-distance	20	10 403	3 250	575	146	33.9	20.5
48422	Specialized freight (except used goods) trucking, local	316	D	D	D	g	D	D
484220	Specialized freight (except used goods) trucking, local	316	D	D	D	g	D	D
4842202	Agricultural products trucking without storage, local	118	38 167	9 285	2 113	387	56.1	2.8
4842203	Dump trucking	116	62 211	15 315	2 206	422	29.2	7.9
4842204	Specialized trucking without storage, local	71	D	D	D	e	D	D
48423	Specialized freight (except used goods) trucking, long-distance	120	130 315	25 239	6 030	856	28.6	3.3
484230	Specialized freight (except used goods) trucking, long-distance	120	130 315	25 239	6 030	856	28.6	3.3
4842301	Hazardous materials trucking (except waste), long-distance	16	25 845	6 049	1 683	216	35.0	11.5
4842302	Agricultural products trucking, long-distance	46	25 893	3 979	901	198	40.9	.3
4842303	Other specialized trucking, long-distance	58	78 577	15 211	3 446	442	22.5	1.6
485	Transit & ground passenger transportation	38	D	D	D	e	D	D
4853	Taxi & limousine service	15	D	D	D	b	D	D
48531	Taxi service	11	766	204	54	61	—	24.7
485310	Taxi service	11	766	204	54	61	—	24.7

See footnotes at end of table.

**Table 2. Summary Statistics for Metropolitan Areas: 1997—Con.**

[Includes only establishments with payroll. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A. For definitions of metropolitan areas (CMSAs, MSAs, and PMSAs), see Appendix E]

NAICS code	Geographic area and kind of business	Establishments (number)	Revenue (\$1,000)	Annual payroll (\$1,000)	First-quarter payroll (\$1,000)	Paid employees for pay period including March 12 (number)	Percent of revenue—	
							From administrative records <sup>1</sup>	Estimated <sup>2</sup>
<b>AREA OUTSIDE MICHIGAN METROPOLITAN AREAS—Con.</b>								
<b>48-49 Transportation &amp; warehousing %* **—Con.</b>								
486	Pipeline transportation .....	23	187 307	18 783	4 608	375	—	—
4862	Pipeline transportation of natural gas .....	19	D	D	D	e	D	D
48621	Pipeline transportation of natural gas .....	19	D	D	D	e	D	D
486210	Pipeline transportation of natural gas .....	19	D	D	D	e	D	D
4862101	Natural gas transmission .....	14	D	D	D	c	D	D
487	Scenic & sightseeing transportation .....	22	D	D	D	b	D	D
4872	Scenic & sightseeing transportation, water .....	16	4 986	1 264	120	74	4.1	15.0
48721	Scenic & sightseeing transportation, water .....	16	4 986	1 264	120	74	4.1	15.0
487210	Scenic & sightseeing transportation, water .....	16	4 986	1 264	120	74	4.1	15.0
488	Support activities for transportation .....	112	62 385	20 956	4 180	853	9.0	6.4
4881	Support activities for air transportation .....	23	22 107	7 250	982	321	9.1	3.1
48811	Airport operations .....	13	8 717	1 568	339	88	23.0	7.9
488119	Other airport operations .....	13	8 717	1 568	339	88	23.0	7.9
4881191	Airport operation & terminal services .....	13	8 717	1 568	339	88	23.0	7.9
4884	Support activities for road transportation .....	45	9 820	2 296	578	159	25.3	19.1
48841	Motor vehicle towing .....	45	9 820	2 296	578	159	25.3	19.1
488410	Motor vehicle towing .....	45	9 820	2 296	578	159	25.3	19.1
4885	Freight transportation arrangement .....	31	10 205	2 445	643	91	7.7	12.3
48851	Freight transportation arrangement .....	31	10 205	2 445	643	91	7.7	12.3
488510	Freight transportation arrangement .....	31	10 205	2 445	643	91	7.7	12.3
4885102	Arrangement of transportation of freight & cargo .....	25	D	D	D	b	D	D
492	Couriers & messengers .....	40	D	D	D	c	D	D
4921	Couriers .....	22	D	D	D	c	D	D
49211	Couriers .....	22	D	D	D	c	D	D
492110	Couriers .....	22	D	D	D	c	D	D
4921101	Courier services (except by air) .....	13	D	D	D	b	D	D
4922	Local messengers & local delivery .....	18	D	D	D	b	D	D
49221	Local messengers & local delivery .....	18	D	D	D	b	D	D
492210	Local messengers & local delivery .....	18	D	D	D	b	D	D
493	Warehousing & storage .....	17	D	D	D	c	D	D
4931	Warehousing & storage .....	17	D	D	D	c	D	D

%% Data do not include large certificated passenger carriers that report to the Office of Airline Statistics, U.S. Department of Transportation.  
 \*\* Railroad transportation and U.S. Postal Service are out of scope for the 1997 Economic Census.

<sup>1</sup>Includes revenue information obtained from administrative records of other Federal agencies.

<sup>2</sup>Includes revenue information which was imputed based on historic company ratios or administrative records, or on industry averages.

# Appendix A.

## Explanation of Terms

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### **ANNUAL PAYROLL**

Payroll includes all forms of compensation such as salaries, wages, commissions, dismissal pay, bonuses, vacation allowances, sick-leave pay, and employee contributions to qualified pension plans paid during the year to all employees. For corporations, payroll includes amounts paid to officers and executives; for unincorporated businesses, it does not include profit or other compensation of proprietors or partners. Payroll is reported before deductions for social security, income tax insurance, union dues, etc. This definition of payroll is the same as that used by the Internal Revenue Service (IRS) on form 941.

### **FIRST-QUARTER PAYROLL (\$1,000)**

Represents payroll paid to persons employed at any time during the quarter January to March 1997.

### **NUMBER OF EMPLOYEES**

Paid employees consist of the full-time and part-time employees, including salaried officers and executives of corporations. Included are employees on paid sick leave, paid holidays, and paid vacations; not included are proprietors and partners of unincorporated businesses. The definition of paid employees is the same as that is used on IRS form 941.

Includes all employees who were on the payroll during the pay period including March 12.

### **NUMBER OF ESTABLISHMENTS**

An establishment is a single physical location at which business is conducted. It is not necessarily identical with a company or enterprise, which may consist of one establishment or more. Economic census figures represent a summary of reports for individual establishments rather than companies. For cases where a census report was received, separate information was obtained for each location where business was conducted. When administrative

records of other Federal agencies were used instead of a census report, no information was available on the number of locations operated. Each economic census establishment was tabulated according to the physical location at which the business was conducted. The count of establishments represents those in business at any time during 1997.

When two or more activities were carried on at a single location under a single ownership, all activities generally were grouped together as a single establishment. The entire establishment was classified on the basis of its major activity and all data for it were included in that classification. However, when distinct and separate economic activities (for which different industry classification codes were appropriate) were conducted at a single location under a single ownership, separate establishments reports for each of the different activities were obtained in the census.

### **REVENUE**

Includes revenue from all business activities whether or not payment was received in the census year. Revenue does not include sales and other taxes collected from customers and remitted directly by the firm to a local, state, or Federal tax agency.

### **SALES, RECEIPTS, OR REVENUE ESTIMATED (PERCENT)**

Percent of total sales/receipts/revenue that was imputed based on historic company ratios or administrative records, or on industry averages.

### **SALES, RECEIPTS, OR REVENUE FROM ADMINISTRATIVE RECORDS (PERCENT)**

Percent of total sales/receipts/revenue obtained from administrative records of other Federal agencies.

# Appendix B.

## NAICS Codes, Titles, and Descriptions

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### **48-49 TRANSPORTATION AND WAREHOUSING**

The Transportation and Warehousing sector includes industries providing transportation of passengers and cargo, warehousing and storage for goods, scenic and sightseeing transportation, and support activities related to modes of transportation. Establishments in these industries use transportation equipment or transportation related facilities as a productive asset. The type of equipment depends on the mode of transportation. The modes of transportation are air, rail, water, road, and pipeline.

The Transportation and Warehousing sector distinguishes three basic types of activities: subsectors for each mode of transportation, a subsector for warehousing and storage, and a subsector for establishments providing support activities for transportation. In addition, there are subsectors for establishments that provide passenger transportation for scenic and sightseeing purposes, postal services, and courier services.

A separate subsector for support activities is established in the sector because, first, support activities for transportation are inherently multimodal, such as freight transportation arrangement, or have multimodal aspects. Secondly, there are production process similarities among the support activity industries.

One of the support activities identified in the support activity subsector is the routine repair and maintenance of transportation equipment (e.g., aircraft at an airport, railroad rolling stock at a railroad terminal, or ships at a harbor or port facility). Such establishments do not perform complete overhauling or rebuilding of transportation equipment (i.e., periodic restoration of transportation equipment to original design specifications) or transportation equipment conversion (i.e., major modification to systems). An establishment that primarily performs factory (or shipyard) overhauls, rebuilding, or conversions of aircraft, railroad rolling stock, or a ship is classified in Subsector 336, Transportation Equipment Manufacturing according to the type of equipment.

Many of the establishments in this sector often operate on networks, with physical facilities, labor forces, and equipment spread over an extensive geographic area.

Warehousing establishments in this sector are distinguished from merchant wholesaling in that the warehouse establishments do not sell the goods.

Excluded from this sector are establishments primarily engaged in providing travel agent services that support transportation and other establishments, such as hotels,

businesses, and government agencies. These establishments are classified in Sector 56, Administrative and Support, Waste Management, and Remediation Services. Also, establishments primarily engaged in providing rental and leasing of transportation equipment without operator are classified in Subsector 532, Rental and Leasing Services.

### **481 Air Transportation**

Industries in the Air Transportation subsector provide air transportation of passengers and/or cargo using aircraft, such as airplanes and helicopters. The subsector distinguishes scheduled from nonscheduled air transportation. Scheduled air carriers fly regular routes on regular schedules and operate even if flights are only partially loaded. Nonscheduled carriers often operate during non-peak time slots at busy airports. These establishments have more flexibility with respect to choice of airport, hours of operation, load factors, and similar operational characteristics. Nonscheduled carriers provide chartered air transportation of passengers, cargo, or specialty flying services. Specialty flying services establishments use general purpose aircraft to provide a variety of specialized flying services.

Scenic and sightseeing air transportation and air courier services are not included in this subsector but are included in Subsector 487, Scenic and Sightseeing Transportation and in Subsector 492, Couriers and Messengers. Although these activities may use aircraft, they are different from the activities included in air transportation. Air sightseeing does not usually involve place-to-place transportation; the passenger's flight (e.g., balloon ride, aerial sightseeing) typically starts and ends at the same location. Courier services (individual package or cargo delivery) includes more than air transportation; road transportation is usually required to deliver the cargo to the intended recipient.

### **4811 Scheduled Air Transportation**

This industry group comprises establishments primarily engaged in providing air transportation of passengers and/or cargo over regular routes and on regular schedules. Establishments in this industry operate flights even if partially loaded. Establishments primarily engaged in providing scheduled air transportation of mail on a contract basis are included in this industry.

### **48111 Scheduled Air Transportation**

This industry comprises establishments primarily engaged in providing air transportation of passengers

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and/or cargo over regular routes and on regular schedules. Establishments in this industry operate flights even if partially loaded. Establishments primarily engaged in providing scheduled air transportation of mail on a contract basis are included in this industry.

#### **481111 Scheduled Passenger Air Transportation**

This U.S. industry comprises establishments primarily engaged in providing air transportation of passengers or passengers and freight over regular routes and on regular schedules. Establishments in this industry operate flights even if partially loaded. Scheduled air passenger carriers including commuter and helicopter carriers (except scenic and sightseeing) are included in this industry.

NAICS code 481111 are comprised of this part of the following SIC industry:

4512 (pt) Scheduled passenger carrier air transportation

#### **481112 Scheduled Freight Air Transportation**

This U.S. industry comprises establishments primarily engaged in providing air transportation of cargo without transporting passengers over regular routes and on regular schedules. Establishments in this industry operate flights even if partially loaded. Establishments primarily engaged in providing scheduled air transportation of mail on a contract basis are included in this industry.

The data published with NAICS code 481112 is comprised of this part of the following SIC industry:

4512 (pt) Scheduled freight carrier air transportation

#### **4812 Nonscheduled Air Transportation**

This industry group comprises establishments primarily engaged in (1) providing air transportation of passengers and/or cargo with no regular routes and regular schedules or (2) providing specialty flying services with no regular routes and regular schedules using general purpose aircraft. These establishments have more flexibility with respect to choice of airports, hours of operation, load factors, and similar operational characteristics.

#### **48121 Nonscheduled Air Transportation**

This industry comprises establishments primarily engaged in (1) providing air transportation of passengers and/or cargo with no regular routes and regular schedules or (2) providing specialty flying services with no regular routes and regular schedules using general purpose aircraft. These establishments have more flexibility with respect to choice of airports, hours of operation, load factors, and similar operational characteristics.

#### **481211 Nonscheduled Chartered Passenger Air Transportation**

This U.S. industry comprises establishments primarily engaged in providing air transportation of passengers or passengers and cargo with no regular routes and regular schedules.

The data published with NAICS code 481211 are comprised of this part of the following SIC industry:

4522 (pt) Nonscheduled charter passenger air transportation

#### **481212 Nonscheduled Chartered Freight Air Transportation**

This U.S. industry comprises establishments primarily engaged in providing air transportation of cargo without transporting passengers with no regular routes and regular schedules.

The data published with NAICS code 481212 are comprised of this part of the following SIC industry:

4522 (pt) Nonscheduled charter freight air transportation

#### **481219 Other Nonscheduled Air Transportation**

This U.S. industry comprises establishments primarily engaged in providing air transportation with no regular routes and regular schedules (except nonscheduled chartered passenger and/or cargo air transportation). These establishments provide a variety of specialty air transportation or flying services based on individual customer needs using general purpose aircraft.

The data published with NAICS code 481219 are comprised of this part of the following SIC industry:

4522 (pt) Variety of specialized flying services

#### **482 Rail Transportation**

Industries in the Rail Transportation subsector provide rail transportation of passengers and/or cargo using railroad rolling stock. The railroads in this subsector primarily either operate on networks, with physical facilities, labor force, and equipment spread over an extensive geographic area, or operate over a short distance on a local rail line.

Scenic and sightseeing rail transportation and street railroads, commuter rail, and rapid transit are not included in this subsector but are included in Subsector 487, Scenic and Sightseeing Transportation, and Subsector 485, Transit and Ground Passenger Transportation, respectively. Although these activities use railroad rolling stock, they are different from the activities included in rail transportation. Sightseeing and scenic railroads do not usually involve place-to-place transportation; the passenger's trip typically starts and ends at the same location. Commuter railroads operate in a manner more consistent with local and urban transit and are often part of integrated transit systems.

#### **4821 Rail Transportation**

This industry group comprises establishments primarily engaged in operating railroads (except street railroads, commuter rail, urban rapid transit, and scenic and sightseeing trains). Line-haul railroads and short line railroads are included in this industry.



## **48211 Rail Transportation**

This industry comprises establishments primarily engaged in operating railroads (except street railroads, commuter rail, urban rapid transit, and scenic and sightseeing trains). Line-haul railroads and short line railroads are included in this industry.

### **482111 Line-Haul Railroads**

This U.S. industry comprises establishments known as line-haul railroads primarily engaged in operating railroads for the transport of passengers and/or cargo over a long-distance within a rail network. These establishments provide for the intercity movement of trains between the terminals and stations on main and branch lines of a line-haul rail network (except for local switching services).

NAICS code 482111 are comprised of this part of the following SIC industry:

4011 Railroads (line-hauling operating)

### **482112 Shortline Railroads**

This U.S. industry comprises establishments known as shortline railroads primarily engaged in operating railroads for the transport of cargo over a short distance on local rail lines not part of a rail network.

NAICS code 482112 are comprised of this part of the following SIC industry:

4013 (pt) Beltline and logging railroads

## **483 Water Transportation**

Industries in the Water Transportation subsector provide water transportation of passengers and cargo using watercraft, such as ships, barges, and boats.

The subsector is composed of two industry groups: (1) one for deep sea, coastal, and Great Lakes; and (2) one for inland water transportation. This split typically reflects the difference in equipment used.

Scenic and sightseeing water transportation services are not included in this subsector but are included in Subsector 487, Scenic and Sightseeing Transportation. Although these activities use watercraft, they are different from the activities included in water transportation. Water sightseeing does not usually involve place-to-place transportation; the passenger's trip starts and ends at the same location.

## **4831 Deep Sea, Coastal, and Great Lakes Water Transportation**

This industry group comprises establishments primarily engaged in providing deep sea, coastal, Great Lakes, and St. Lawrence Seaway water transportation. Marine transportation establishments using the facilities of the St. Lawrence Seaway Authority Commission are considered to be using the Great Lakes Water Transportation System.

## **48311 Deep Sea, Coastal, and Great Lakes Water Transportation**

This industry comprises establishments primarily engaged in providing deep sea, coastal, Great Lakes, and St. Lawrence Seaway water transportation. Marine transportation establishments using the facilities of the St. Lawrence Seaway Authority Commission are considered to be using the Great Lakes Water Transportation System.

### **483111 Deep Sea Freight Transportation**

This U.S. industry comprises establishments primarily engaged in providing deep sea transportation of cargo to or from foreign ports.

The data published with NAICS code 483111 are comprised of this part of the following SIC industry:

4412 Deep sea freight transportation

### **483112 Deep Sea Passenger Transportation**

This U.S. industry comprises establishments primarily engaged in providing deep sea transportation of passengers to or from foreign ports.

The data published with NAICS code 483112 are comprised of this part of the following SIC industry:

4481 (pt) Deep sea passenger transportation, foreign (except by ferry)

### **483113 Coastal and Great Lakes Freight Transportation**

This U.S. industry comprises establishments primarily engaged in providing water transportation of cargo in coastal waters, on the Great Lakes System, or deep seas between ports of the United States, Puerto Rico, and United States island possessions or protectorates. Marine transportation establishments using the facilities of the St. Lawrence Seaway Authority Commission are considered to be using the Great Lakes Water Transportation System. Establishments primarily engaged in providing coastal and/or Great Lakes barge transportation services are included in this industry.

The data published with NAICS code 483113 are comprised of these parts of the following SIC industries:

4424 Deep sea domestic transportation of freight

4432 Great Lakes-St. Lawrence Seaway freight transportation

4492 (pt) Coastal or intercoastal towing service

### **4831131 Coastal and Intercoastal Freight Transportation**

Establishments primarily engaged in operating vessels, for transportation of freight on the deep seas between ports of the United States, Puerto Rico, and United States island possessions or protectorates.

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### **4831132 Great Lakes-St. Lawrence Seaway Freight Transportation**

Establishments primarily engaged in the transportation of freight on the Great Lakes and St. Lawrence Seaway, either between U.S. ports or between U.S. and Canadian ports.

### **4831133 Coastal and Intercoastal Towing Service**

Establishments primarily engaged in providing coastal or intercoastal towing services.

### **483114 Coastal and Great Lakes Passenger Transportation**

This U.S. industry comprises establishments primarily engaged in providing water transportation of passengers in coastal waters, the Great Lakes System, or deep seas between ports of the United States, Puerto Rico, and United States island possessions and protectorates. Marine transportation establishments using the facilities of the St. Lawrence Seaway Authority Commission are considered to be using the Great Lakes Water Transportation System.

The data published with NAICS code 483114 are comprised of these parts of the following SIC industries:

- 4481 (pt) Coastal or Great Lakes-St. Lawrence Seaway passenger transportation (except by ferry)
- 4482 (pt) Coastal or Great Lakes-St. Lawrence Seaway ferry transportation

### **4831141 Coastal and Great Lakes-St. Lawrence Seaway Passenger Transportation (Except By Ferries)**

Establishments primarily engaged in operating vessels (except ferries) for the transportation of passengers on the Great Lakes-St. Lawrence Seaway or on coastal waterways.

### **4831142 Coastal and Great Lakes-St. Lawrence Seaway Ferry Transportation**

Establishments primarily engaged in operating ferries on the Great Lakes-St. Lawrence Seaway, or on coastal waters for the transportation of passengers or vehicles.

### **4832 Inland Water Transportation**

This industry group comprises establishments primarily engaged in providing inland water transportation of passengers and/or cargo on lakes, rivers, or intracoastal waterways (except on the Great Lakes System).

### **48321 Inland Water Transportation**

This industry comprises establishments primarily engaged in providing inland water transportation of passengers and/or cargo on lakes, rivers, or intracoastal waterways (except on the Great Lakes System).

### **483211 Inland Water Freight Transportation**

This U.S. industry comprises establishments primarily engaged in providing inland water transportation of cargo on lakes, rivers, or intracoastal waterways (except on the Great Lakes System).

The data published with NAICS code 483211 are comprised of the following SIC industries:

- 4449 Inland waterways freight transportation
- 4492 (pt) Inland waterways towing service

### **4832111 Inland Waterways Freight Transportation (Except Towing)**

Establishments primarily engaged in transporting freight on all inland waterways (except the Great Lakes-St. Lawrence Seaway). Included are establishments engaged in transporting freight on the intracoastal waterways on the Atlantic and Gulf coasts.

### **4832112 Inland Waterways Towing Transportation**

Establishments primarily engaged in providing towing services on inland waterways.

### **483212 Inland Water Passenger Transportation**

This U.S. industry comprises establishments primarily engaged in providing inland water transportation of passengers on lakes, rivers, or intracoastal waterways (except on the Great Lakes System).

The data published with NAICS code 483212 are comprised of these parts of the following SIC industries:

- 4482 (pt) Inland waterways ferry transportation
- 4489 (pt) Other water passenger transportation (including water taxi)

### **4832121 Inland Waterways Ferry Transportation**

Establishments primarily engaged in operating ferries on inland waters for the transportation of passengers or vehicles.

### **4832122 Other Water Passenger Transportation (Including Water Taxi)**

Establishments primarily engaged in furnishing inland water transportation of passengers (except ferries and yachts on the Great Lakes-St. Lawrence Seaway).

### **484 Truck Transportation**

Industries in the Truck Transportation subsector provide over-the-road transportation of cargo using motor vehicles, such as trucks and tractor trailers. The subsector is subdivided into general freight trucking and specialized freight trucking. This distinction reflects differences in equipment used, type of load carried, scheduling, terminal, and other networking services. General freight transportation establishments handle a wide variety of general

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commodities, generally palletized, and transported in a container or van trailer. Specialized freight transportation is the transportation of cargo that, because of size, weight, shape, or other inherent characteristics require specialized equipment for transportation.

Each of these industry groups is further subdivided based on distance traveled. Local trucking establishments primarily carry goods within a single metropolitan area and its adjacent nonurban areas. Long distance trucking establishments carry goods between metropolitan areas.

The Specialized Freight Trucking industry group includes a separate industry for Used Household and Office Goods Moving. The household and office goods movers are separated because of the substantial network of establishments that has been developed to deal with local and long-distance moving and the associated storage. In this area, the same establishment provides both local and long-distance services, while other specialized freight establishments generally limit their services to either local or long-distance hauling.

#### **4841 General Freight Trucking**

This industry group comprises establishments primarily engaged in providing general freight trucking. General freight establishments handle a wide variety of commodities, generally palletized, and transported in a container or van trailer. The establishments of this industry group provide a combination of the following network activities: local pickup, local sorting and terminal operations, line-haul, destination sorting and terminal operations, and local delivery.

#### **48411 General Freight Trucking, Local**

This industry comprises establishments primarily engaged in providing local general freight trucking. General freight establishments handle a wide variety of commodities, generally palletized and transported in a container or van trailer. Local general freight trucking establishments usually provide trucking within a metropolitan area which may cross state lines. Generally the trips are same-day return.

#### **484110 General Freight Trucking, Local**

This U.S. industry comprises establishments primarily engaged in providing local general freight trucking. General freight establishments handle a wide variety of commodities, generally palletized and transported in a container or van trailer. Local general freight trucking establishments usually provide trucking within a metropolitan area which may cross state lines. Generally the trips are same-day return.

The data published with NAICS code 484110 are comprised of these parts of the following SIC industries:

4212 (pt) Local general freight trucking without storage, truckload

4214 (pt) Local general freight trucking with storage, truckload

#### **4841101 Local General Freight Trucking Without Storage, Truckload**

Establishments primarily engaged in furnishing truckload trucking or transfer of general merchandise without storage, within a city, town, or other local areas, including adjoining towns and suburban areas. Generally the trips are same-day return. General merchandise is defined as material or goods of many varieties that are packaged, generally palletized, and carried in a box, container, or van trailer and do not require refrigeration, controlled humidity, or other special handling. Truckload is defined as shipments with an actual weight of 10,000 pounds or more.

#### **4841102 Local General Freight Trucking Without Storage, Less Than Truckload**

Establishments primarily engaged in furnishing less-than-truckload trucking or transfer of general merchandise without storage, within a city, town, or other local areas, including adjoining towns and suburban areas. Generally the trips are same-day return. General merchandise is defined as material or goods of many varieties that are packaged, generally palletized, and carried in a box, container, or van trailer and do not require refrigeration, controlled humidity, or other special handling. Less-than-truckload is defined as shipments with an actual weight of less than 10,000 pounds.

#### **4841103 Local General Freight Trucking With Storage, Truckload**

Establishments primarily engaged in furnishing general freight truckload trucking and storage services within a city, town, or other local areas, including adjoining suburban areas. General merchandise is defined as material or goods of many varieties that are packaged generally palletized, and carried in a box, container, or van trailer and do not require refrigeration, controlled humidity, or other special handling. Truckload is defined as shipments with an actual weight of 10,000 pounds or more.

#### **4841104 Local General Freight Trucking With Storage, Less Than Truckload**

Establishments primarily engaged in furnishing general freight less-than-truckload trucking and storage services within a city, town, or other local area, including adjoining suburban areas. General merchandise is defined as material or goods of many varieties which are packaged, generally palletized, and carried in a box, container, or van trailer and do not require refrigeration, controlled humidity, or other special handling. Less-than-truckload is defined as shipments with an actual weight of less than 10,000 pounds.

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## **48412 General Freight Trucking, Long-Distance**

This industry comprises establishments primarily engaged in providing long-distance general freight trucking. General freight establishments handle a wide variety of commodities, generally palletized and transported in a container or van trailer. Long-distance general freight trucking establishments usually provide trucking between metropolitan areas which may cross North American country borders. Included in this industry are establishments operating as truckload (TL) or less than truckload (LTL) carriers.

### **484121 General Freight Trucking, Long-Distance, Truckload**

This U.S. industry comprises establishments primarily engaged in providing long-distance general freight truckload (TL) trucking. These long-distance general freight truckload carrier establishments provide full truck movement of freight from origin to destination. The shipment of freight on a truck is characterized as a full single load not combined with other shipments.

The data published with NAICS code 484121 are comprised of this part of the following SIC industry:

- 4213 (pt) General freight trucking (except local), truckload

### **484122 General Freight Trucking, Long-Distance, Less Than Truckload**

This U.S. industry comprises establishments primarily engaged in providing long-distance, general freight, less than truckload (LTL) trucking. LTL carriage is characterized as multiple shipments combined into a single truck for multiple deliveries within a network. These establishments are generally characterized by the following network activities: local pickup, local sorting and terminal operations, line-haul, destination sorting and terminal operations, and local delivery.

NAICS code 484122 is comprised of this part of the following SIC industry:

- 4213 (pt) Trucking, Except Local (general freight, less than truckload)

## **4842 SPECIALIZED FREIGHT TRUCKING**

This industry group comprises establishments primarily engaged in providing local or long-distance specialized freight trucking. The establishments of this industry are primarily engaged in the transportation of freight which, because of size, weight, shape, or other inherent characteristics, requires specialized equipment, such as flatbeds, tankers, or refrigerated trailers. This industry includes the transportation of used household, institutional, and commercial furniture and equipment.

## **48421 Used Household and Office Goods Moving**

This industry comprises establishments primarily engaged in providing local or long-distance trucking of used household, used institutional, or used commercial furniture and equipment. Incidental packing and storage activities are often provided by these establishments.

### **484210 Used Household and Office Goods Moving**

This U.S. industry comprises establishments primarily engaged in providing local or long-distance trucking of used household, used institutional, or used commercial furniture and equipment. Incidental packing and storage activities are often provided by these establishments.

The data published with NAICS code 484210 are comprised of these parts of the following SIC industries:

- 4212 (pt) Local household goods moving without storage
- 4213 (pt) Households goods moving (except local)
- 4214 (pt) Local households goods moving with storage

#### **4842101 Local Used Household and Office Goods Moving, Without Storage**

Establishments primarily engaged in furnishing trucking or transfer of used household, institutional, and commercial furniture and equipment without storage, within a city, town, or other local area, including adjoining towns and suburban areas.

#### **4842102 Long-Distance Used Household and Office Goods Moving**

Establishments primarily engaged in furnishing trucking of used household, institutional, and commercial furniture and equipment. Such trucking is generally beyond a single metropolitan area or adjacent metropolitan areas.

#### **4842103 Local Used Household and Office Goods Moving, With Storage**

Establishments primarily engaged in furnishing trucking and storage of furniture and other household goods within a city, town, or other local area, including adjoining towns and suburban areas.

#### **48422 Specialized Freight (Except Used Goods) Trucking, Local**

This industry comprises establishments primarily engaged in providing local, specialized trucking. Local trucking establishments provide trucking within a metropolitan area that may cross state lines. Generally the trips are same-day return.

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### **484220 Specialized Freight (Except Used Goods) Trucking, Local**

This U.S. industry comprises establishments primarily engaged in providing local, specialized trucking. Local trucking establishments provide trucking within a metropolitan area that may cross state lines. Generally the trips are same-day return.

The data published with NAICS code 484220 are comprised of these parts of the following SIC industries:

4212 (pt) Local specialized trucking without storage

4214 (pt) Local specialized trucking with storage

### **4842201 Local Hazardous Materials Trucking (Except Waste)**

Establishments primarily engaged in furnishing trucking or transfer of hazardous materials (except waste), including liquid petroleum products, within a city, town, or other local areas, including adjoining towns and suburban areas. Generally the trips are same-day return.

### **4842202 Local Agricultural Products Trucking Without Storage**

Establishments primarily engaged in furnishing trucking or transfer of agricultural products without storage, within a city, town, or other local areas, including adjoining towns and suburban areas, without the use of refrigeration or controlled humidity equipment. Generally the trips are same-day return.

### **4842203 Dump Trucking**

Establishments primarily engaged in furnishing dump trucking service of material, such as sand, gravel or dirt within a city, town, or other local areas, including adjoining towns and suburban areas.

### **4842204 Local Specialized Trucking Without Storage**

Establishments primarily engaged in furnishing specialized trucking service requiring special handling, such as refrigeration or controlled humidity, without storage within a city, town, or other local areas, including adjoining towns and suburban areas.

### **4842205 Local, Specialized Freight (Except Used Goods) Trucking**

This industry comprises establishments primarily engaged in providing local, specialized trucking using specialized equipment to control refrigeration and humidity. Local trucking establishments provide trucking within a metropolitan area that may cross state lines. Generally, the trips are same-day return.

### **48423 Specialized Freight (Except Used Goods) Trucking, Long-Distance**

This industry comprises establishments primarily engaged in providing long-distance specialized trucking. These establishments provide trucking between metropolitan areas that may cross North American country borders.

### **484230 Specialized Freight (Except Used Goods) Trucking, Long-Distance**

This U.S. industry comprises establishments primarily engaged in providing long-distance specialized trucking. These establishments provide trucking between metropolitan areas that may cross North American country borders.

The data published with NAICS code 484230 are comprised of this part of the following SIC industry:

4213 (pt) Hazardous, agricultural and other specialized products trucking (except local)

### **4842301 Hazardous Materials Trucking (Except Waste), Long-Distance**

Establishments primarily engaged in furnishing trucking and transfer of hazardous materials (except waste) including liquid petroleum products. Such trucking is generally beyond a single metropolitan area or adjacent metropolitan areas.

### **4842302 Agricultural Products Trucking, Long-Distance**

Establishments primarily engaged in furnishing trucking of agricultural products, without the use of refrigeration or controlled humidity equipment. Such trucking is generally beyond a single metropolitan area or adjacent metropolitan areas.

### **4842303 Other Specialized Trucking, Long-Distance**

Establishments primarily engaged in furnishing specialized trucking service requiring special handling, such as refrigeration or controlled humidity. Such trucking is generally beyond a single metropolitan area or adjacent metropolitan areas.

## **485 Transit and Ground Passenger Transportation**

Industries in the Transit and Ground Passenger Transportation subsector include a variety of passenger transportation activities, such as urban transit systems; chartered bus, school bus, and interurban bus transportation; and taxis. These activities are distinguished based primarily on such production process factors as vehicle types, routes, and schedules.

In this subsector, the principal splits identify scheduled transportation as separate from nonscheduled transportation. The scheduled transportation industry groups are

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Urban Transit Systems, Interurban and Rural Bus Transportation, and School and Employee Bus Transportation. The nonscheduled industry groups are the Charter Bus Industry and Taxi and Limousine Service. The Other Transit and Ground Passenger Transportation Industry group includes both scheduled and nonscheduled transportation.

Scenic and sightseeing ground transportation services are not included in this subsector but are included in Subsector 487, Scenic and Sightseeing Transportation. Sightseeing does not usually involve place-to-place transportation; the passenger's trip starts and ends at the same location.

### **4851 Urban Transit Systems**

This industry group comprises establishments primarily engaged in operating local and suburban passenger transit systems over regular routes and on regular schedules within a metropolitan area and its adjacent nonurban areas. Such transportation systems involve the use of one or more modes of transport including light rail, commuter rail, subways, streetcars, as well as buses and other motor vehicles.

#### **48511 Urban Transit Systems**

This industry comprises establishments primarily engaged in operating local and suburban passenger transit systems over regular routes and on regular schedules within a metropolitan area and its adjacent nonurban areas. Such transportation systems involve the use of one or more modes of transport including light rail, commuter rail, subways, streetcars, as well as buses and other motor vehicles.

#### **485111 Mixed Mode Transit Systems**

This U.S. industry comprises establishments primarily engaged in operating local and suburban ground passenger transit systems using more than one mode of transport over regular routes and on regular schedules within a metropolitan area and its adjacent nonurban areas.

The data published with NAICS code 485111 are comprised of this part of the following SIC industry:

4111 (pt) Mixed mode transit systems (including combination bus, subway, trolley, etc)

#### **485112 Commuter Rail Systems**

This U.S. industry comprises establishments primarily engaged in operating local and suburban commuter rail systems over regular routes and on a regular schedule within a metropolitan area and its adjacent nonurban areas. Commuter rail is usually characterized by reduced fares, multiple ride, and commutation tickets and mostly used by passengers during the morning and evening peak periods.

The data published with NAICS code 485112 are comprised of this part of the following SIC industry:

4111 (pt) Commuter rail transit systems

### **485113 Bus and Other Motor Vehicle Transit Systems**

This U.S. industry comprises establishments primarily engaged in operating local and suburban passenger transportation systems using buses or other motor vehicles over regular routes and on regular schedules within a metropolitan area and its adjacent nonurban areas.

The data published with NAICS code 485113 are comprised of this part of the following SIC industry:

4111 (pt) Bus and motor vehicle transit systems

### **485119 Other Urban Transit Systems**

This U.S. industry comprises establishments primarily engaged in operating local and suburban ground passenger transit systems (except mixed mode transit systems, commuter rail systems, and buses and other motor vehicles) over regular routes and on regular schedules within a metropolitan area and its adjacent nonurban areas.

The data published with NAICS code 485119 are comprised of this part of the following SIC industry:

4111 (pt) Other transit systems

### **4852 Interurban and Rural Bus Transportation**

This industry group comprises establishments primarily engaged in providing bus passenger transportation over regular routes and on regular schedules, principally outside a single metropolitan area and its adjacent nonurban areas.

#### **48521 Interurban and Rural Bus Transportation**

This industry comprises establishments primarily engaged in providing bus passenger transportation over regular routes and on regular schedules, principally outside a single metropolitan area and its adjacent nonurban areas.

#### **485210 Interurban and Rural Bus Transportation**

This U.S. industry comprises establishments primarily engaged in providing bus passenger transportation over regular routes and on regular schedules, principally outside a single metropolitan area and its adjacent nonurban areas.

The data published with NAICS code 485210 are comprised of this part of the following SIC industry:

4131 Interurban and rural bus transportation

### **4853 Taxi and Limousine Service**

This NAICS industry group includes establishments classified in the following NAICS industries: 48531, Taxi Service and 48532, Limousine Service.

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### **48531 Taxi Service**

This industry comprises establishments primarily engaged in providing passenger transportation by automobile or van, not operated over regular routes and on regular schedules. Establishments of taxicab owner/operator, taxicab fleet operators, or taxicab organizations are included in this industry.

#### **485310 Taxi Service**

This U.S. industry comprises establishments primarily engaged in providing passenger transportation by automobile or van, not operated over regular routes and on regular schedules. Establishments of taxicab owner/operator, taxicab fleet operators, or taxicab organizations are included in this industry.

The data published with NAICS code 485310 are comprised of this part of the following SIC industry:

4121 Taxi service

### **48532 Limousine Service**

This industry comprises establishments primarily engaged in providing an array of specialty and luxury passenger transportation services via limousine or luxury sedans generally on a reserved basis. These establishments do not operate over regular routes and on regular schedules.

#### **485320 Limousine Service**

This U.S. industry comprises establishments primarily engaged in providing an array of specialty and luxury passenger transportation services via limousine or luxury sedans generally on a reserved basis. These establishments do not operate over regular routes and on regular schedules.

The data published with NAICS code 485320 are comprised of this part of the following SIC industry:

4119 (pt) Limousine or auto rental with driver  
(except scheduled airport shuttle service)

### **4854 School and Employee Bus Transportation**

This industry group comprises establishments primarily engaged in providing buses and other motor vehicles to transport pupils to and from school or employees to and from work.

#### **48541 School and Employee Bus Transportation**

This industry comprises establishments primarily engaged in providing buses and other motor vehicles to transport pupils to and from school or employees to and from work.

### **485410 School and Employee Bus Transportation**

This U.S. industry comprises establishments primarily engaged in providing buses and other motor vehicles to transport pupils to and from school or employees to and from work.

The data published with NAICS code 485410 are comprised of these parts of the following SIC industries:

4151 School bus service

4119 (pt) Employee bus service

#### **4854101 School Bus Service**

Establishments primarily engaged in operating buses to transport pupils to and from school.

#### **4854102 Employee Bus Service**

Establishments primarily engaged in operating buses or other motor vehicles to transport workers to and from work sites.

### **4855 Charter Bus Industry**

This industry group comprises establishments primarily engaged in providing buses for charter. These establishments provide bus services to meet customers' road transportation needs and generally do not operate over fixed routes and on regular schedules.

#### **48551 Charter Bus Industry**

This industry comprises establishments primarily engaged in providing buses for charter. These establishments provide bus services to meet customers' road transportation needs and generally do not operate over fixed routes and on regular schedules.

#### **485510 Charter Bus Industry**

This U.S. industry comprises establishments primarily engaged in providing buses for charter. These establishments provide bus services to meet customers' road transportation needs and generally do not operate over fixed routes and on regular schedules.

The data published with NAICS code 485510 are comprised of the following SIC industries:

4141 Charter bus service, local

4142 Charter bus service, interstate/interurban

#### **4855101 Charter Bus Service, Local**

Establishments primarily engaged in furnishing charter bus passenger transportation service where such operations are principally within a single municipality, adjoining municipalities, or a municipality and its suburban areas.

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### **4855102 Charter Bus Service, Interstate/Interurban**

Establishments primarily engaged in furnishing charter bus passenger transportation service where such operations are principally outside a single municipality, outside one group of adjoining municipalities, or outside a single municipality and its suburban areas, and do not operate on regular routes or schedules.

### **4859 Other Transit and Ground Passenger Transportation**

This industry group comprises establishments primarily engaged in providing other transit and ground passenger transportation (except urban transit systems, interurban and rural bus transportation, taxi services, school and employee bus transportation, charter bus services, and limousine services (except shuttle services)). Shuttle services (except employee bus) and special needs transportation services are included in this industry. Shuttle services establishments generally travel within a metropolitan area and its adjacent nonurban areas on regular routes, on regular schedules and provide services between hotels, airports, or other destination points. Special needs transportation establishments provide passenger transportation to the infirm, elderly, or handicapped. These establishments may use specially equipped vehicles to provide passenger transportation.

### **48599 Other Transit and Ground Passenger Transportation**

This industry comprises establishments primarily engaged in providing other transit and ground passenger transportation (except urban transit systems, interurban and rural bus transportation, taxi services, school and employee bus transportation, charter bus services, and limousine services (except shuttle services)). Shuttle services (except employee bus) and special needs transportation services are included in this industry. Shuttle services establishments generally travel within a metropolitan area and its adjacent nonurban areas on regular routes, on regular schedules and provide services between hotels, airports, or other destination points. Special needs transportation establishments provide passenger transportation to the infirm, elderly, or handicapped. These establishments may use specially equipped vehicles to provide passenger transportation.

### **485991 Special Needs Transportation**

This U.S. industry comprises establishments primarily engaged in providing special needs transportation (except to and from school or work) to the infirm, elderly, or handicapped. These establishments may use specially equipped vehicles to provide passenger transportation.

The data published with NAICS code 485991 are comprised of this part of the following SIC industry:

4119 (pt) Special needs transportation (including paratransit, senior citizen, nonemergency medical, handicapped, etc.)

### **485999 All Other Transit and Ground Passenger Transportation**

This U.S. industry comprises establishments primarily engaged in providing ground passenger transportation (except urban transit systems; interurban and rural bus transportation, taxi and/or limousine services (except shuttle services), school and employee bus transportation, charter bus services, and special needs transportation). Establishments primarily engaged in operating shuttle services and vanpools are included in this industry. Shuttle services establishments generally provide travel on regular routes and on regular schedules between hotels, airports, or other destination points.

The data published with NAICS code 485999 are comprised of these parts of the following SIC industries:

4111 (pt) Scheduled airport shuttle service

4119 (pt) Other passenger transportation

### **4859991 Scheduled Airport Shuttle Service**

Establishments primarily engaged in furnishing passenger transportation by automobile or bus, to, from, or between airports or other points of destination, over regular routes.

### **4859992 All Other Passenger Transportation**

Establishments primarily engaged in furnishing miscellaneous passenger transportation, where such operations are principally within a single municipality, adjoining municipalities, or a municipality and its suburban areas.

### **486 Pipeline Transportation**

Industries in the Pipeline Transportation subsector use transmission pipelines to transport products, such as crude oil, natural gas, refined petroleum products, and slurry. Industries are identified based on the products transported (i.e., pipeline transportation of crude oil, natural gas, refined petroleum products, and other products).

The Pipeline Transportation of Natural Gas industry includes the storage of natural gas because the storage is usually done by the pipeline establishment and because a pipeline is inherently a network in which all the nodes are interdependent.

### **4861 Pipeline Transportation of Crude Oil**

This industry group comprises establishments primarily engaged in the pipeline transportation of crude oil.

### **48611 Pipeline Transportation of Crude Oil**

This industry comprises establishments primarily engaged in the pipeline transportation of crude oil.



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### **486110 Pipeline Transportation of Crude Oil**

This U.S. industry comprises establishments primarily engaged in the pipeline transportation of crude oil.

The data published with NAICS code 486110 are comprised of the following SIC industry:

4612 Pipeline transportation of crude oil

### **4862 Pipeline Transportation of Natural Gas**

This industry group comprises establishments primarily engaged in the pipeline transportation of natural gas from processing plants to local distribution systems.

### **48621 Pipeline Transportation of Natural Gas**

This industry comprises establishments primarily engaged in the pipeline transportation of natural gas from processing plants to local distribution systems.

### **486210 Pipeline Transportation of Natural Gas**

This U.S. industry comprises establishments primarily engaged in the pipeline transportation of natural gas from processing plants to local distribution systems.

The data published with NAICS code 486210 are comprised of these parts of the following SIC industries:

4922 Pipeline transportation of natural gas

4923 (pt) Natural gas transmission and distribution (transmission)

### **4862101 Natural Gas Transmission**

Establishments engaged in the pipeline transmission of natural gas. Storage incidental and related to the pipeline transmission of natural gas is also included.

### **4862102 Natural Gas Transmission and Distribution (Transmission)**

Establishments primarily engaged in the transportation of natural gas by pipeline and secondarily providing local distribution systems. Storage incidental and related to the transportation of the natural gas is included.

### **4869 Other Pipeline Transportation**

This industry group comprises establishments primarily engaged in the pipeline transportation of products (except crude oil and natural gas).

### **48691 Pipeline Transportation of Refined Petroleum Products**

This industry comprises establishments primarily engaged in the pipeline transportation of refined petroleum products.

### **486910 Pipeline Transportation of Refined Petroleum Products**

This U.S. industry comprises establishments primarily engaged in the pipeline transportation of refined petroleum products.

The data published with NAICS code 486910 are comprised of the following SIC industry:

4613 Pipeline transportation of refined petroleum products

### **48699 All Other Pipeline Transportation**

This industry comprises establishments primarily engaged in the pipeline transportation of products except crude oil, natural gas, and refined petroleum products.

### **486990 All Other Pipeline Transportation**

This U.S. industry comprises establishments primarily engaged in the pipeline transportation of products except crude oil, natural gas, and refined petroleum products.

The data published with NAICS code 486990 are comprised of the following SIC industry:

4619 All other pipeline transportation

### **487 Scenic and Sightseeing Transportation**

Industries in the Scenic and Sightseeing Transportation subsector utilize transportation equipment to provide recreation and entertainment. These activities have a production process distinct from passenger transportation carried out for the purpose of other types of for-hire transportation. This process does not emphasize efficient transportation; in fact, such activities often use obsolete vehicles, such as steam trains, to provide some extra ambience. The activity is local in nature, usually involving a same-day return to the point of departure.

The Scenic and Sightseeing Transportation subsector is separated into three industries based on the mode: land, water, and other.

Activities that are recreational in nature and involve participation by the customer, such as white-water rafting, are generally excluded from this subsector, unless they impose an impact on part of the transportation system. Charter boat fishing, for example, is included in the Scenic and Sightseeing Transportation, Water industry.

### **4871 Scenic and Sightseeing Transportation, Land**

This industry group comprises establishments primarily engaged in providing scenic and sightseeing transportation on land, such as sightseeing buses and trolleys, steam train excursions, and horse-drawn sightseeing rides. The services provided are usually local and involve same-day return to place of origin.

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### **48711 Scenic and Sightseeing Transportation, Land**

This industry comprises establishments primarily engaged in providing scenic and sightseeing transportation on land, such as sightseeing buses and trolleys, steam train excursions, and horse-drawn sightseeing rides. The services provided are usually local and involve same-day return to place of origin.

#### **487110 Scenic and Sightseeing Transportation, Land**

This U.S. industry comprises establishments primarily engaged in providing scenic and sightseeing transportation on land, such as sightseeing buses and trolleys, steam train excursions, and horse-drawn sightseeing rides. The services provided are usually local and involve same-day return to place of origin.

The data published with NAICS code 487110 are comprised of these parts of the following SIC industries:

- 4119 (pt) Sightseeing buses
- 4789 (pt) Horse drawn cabs and carriages
- 7999 (pt) Scenic railroads

#### **4871101 Sightseeing Buses**

Establishments primarily engaged in furnishing sightseeing buses where such operations are principally within a single municipality, contiguous municipalities, or a municipality and its suburban areas.

#### **4871102 Horse Drawn Cabs and Carriages**

Establishments primarily engaged in furnishing horse-drawn cab and carriage passenger transportation.

#### **4871103 Scenic Railroad**

Establishments primarily engaged in providing scenic and sightseeing railroad transportation rides. These establishments often use vintage or specialized transportation equipment. The services provided are local and usually involving same-day return to place or origin.

### **4872 Scenic and Sightseeing Transportation, Water**

This industry group comprises establishments primarily engaged in providing scenic and sightseeing transportation on water. The services provided are usually local and involve same-day return to place of origin.

#### **48721 Scenic and Sightseeing Transportation, Water**

This industry comprises establishments primarily engaged in providing scenic and sightseeing transportation on water. The services provided are usually local and involve same-day return to place of origin.

### **487210 Scenic and Sightseeing Transportation, Water**

This U.S. industry comprises establishments primarily engaged in providing scenic and sightseeing transportation on water. The services provided are usually local and involve same-day return to place of origin.

The data published with NAICS code 487210 are comprised of these parts of the following SIC industries:

- 4489 (pt) Excursion and sightseeing boats (including dinner cruises)
- 7999 (pt) Charter fishing or party fishing boats

#### **4872101 Excursion and Sightseeing Boats (Including Dinner Cruises)**

Establishments primarily engaged in providing scenic, sightseeing and excursion water transportation. Generally, the trips are same-day return to place of origin.

#### **4872102 Charter Fishing and Party Fishing Boats**

Establishments primarily engaged in providing charter or party fishing boat services.

### **4879 Scenic and Sightseeing Transportation, Other**

This industry comprises establishments primarily engaged in providing scenic and sightseeing transportation (except on land and water). The services provided are usually local and involve same-day return to place of departure.

#### **48799 Scenic and Sightseeing Transportation, Other**

This industry comprises establishments primarily engaged in providing scenic and sightseeing transportation (except on land and water). The services provided are usually local and involve same-day return to place of departure.

#### **487990 Scenic and Sightseeing Transportation, Other**

This U.S. industry comprises establishments primarily engaged in providing scenic and sightseeing transportation (except on land and water). The services provided are usually local and involve same-day return to place of departure.

The data published with NAICS code 487990 are comprised of these parts of the following SIC industries:

- 4522 (pt) Sightseeing airplanes and helicopters
- 7999 (pt) Aerial tramways (scenic or sightseeing) and cable lifts

### **4879901 Sightseeing Airplanes or Helicopters**

Establishments primarily engaged in providing air sightseeing services, usually involving same-day return to place of origin.

### **4879902 Aerial Tramway (Scenic or Sightseeing) and Cable Lifts**

Establishments primarily engaged in operating cable lifts (other than ski facilities) or operating scenic or amusement aerial tramways.

### **488 Support Activities for Transportation**

Industries in the Support Activities for Transportation subsector provide services which support transportation. These services may be provided to transportation carrier establishments or to the general public. This subsector includes a wide array of establishments, including air traffic control services, marine cargo handling, and motor vehicle towing.

The Support Activities for Transportation subsector includes services to transportation but is separated from the various transportation subsectors and is further split by type of mode serviced. The Support Activities for Rail Transportation industry includes services to the rail industry (e.g., railroad switching and terminal establishments).

Ship repair and maintenance not done in a shipyard are included in Other Support Activities for Water Transportation. An example would be a floating drydock services in a harbor.

Excluded from this subsector are establishments primarily engaged in providing factory conversion and overhaul of transportation equipment, which are classified in Subsector 336, Transportation Equipment Manufacturing. Also, establishments primarily engaged in providing rental and leasing of transportation equipment without operator are classified in Subsector 532, Rental and Leasing Services.

### **4881 SUPPORT ACTIVITIES FOR AIR TRANSPORTATION**

This industry group comprises establishments primarily engaged in providing services to the air transportation industry. These services include airport operation, servicing, repairing (except factory conversion and overhaul of aircraft), maintaining and storing aircraft, and ferrying aircraft.

#### **48811 Airport Operations**

This industry comprises establishments primarily engaged in (1) operating international, national, or civil airports or public flying field or (2) supporting airport operations (except special food services contractors), such as rental of hangar space, air traffic control services, baggage handling services, and cargo handling services.

#### **488111 Air Traffic Control**

This U.S. industry comprises establishments primarily engaged in providing air traffic control services to regulate the flow of air traffic.

NAICS code 488111 are comprised of these parts of the following SIC industries:

4581 (pt) Airport traffic control

9621 (pt) Registration and administration of transportation programs (government air traffic control)

#### **4881111 Nongovernment Air Traffic Control**

Establishments primarily engaged in operating air traffic control facilities.

#### **4881112 Government Air Traffic Control**

Government establishments primarily engaged in operating air traffic control facilities.

#### **488119 Other Airport Operations**

This U.S. industry comprises establishments primarily engaged in (1) operating international, national, or civil airports, or public flying field or (2) supporting airport operations, such as rental of hangar space, and providing baggage handling and/or cargo handling services.

The data published with NAICS code 488119 are comprised of these parts of the following SIC industries:

4581 (pt) Airport operation and terminal services (including fixed base operators, airfreight handling, and hangar operations)

4959 (pt) Vacuuming of airport runways

#### **4881191 Airport Operation and Terminal Services**

Establishments primarily engaged in operating airports and flying fields, storing aircraft, and in furnishing coordinated handling services for airfreight or passengers at airports.

#### **4881192 Vacuuming of Runways**

Establishments primarily engaged in the vacuuming of airport runways.

#### **48819 Other Support Activities for Air Transportation**

This industry comprises establishments primarily engaged in providing specialized services for air transportation (except air traffic control and other airport operations).

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### **488190 Other Support Activities for Air Transportation**

This U.S. industry comprises establishments primarily engaged in providing specialized services for air transportation (except air traffic control and other airport operations).

The data published with NAICS code 488190 are comprised of this part of the following SIC industry:

4581 (pt) Other airport and aircraft transportation services

### **4882 Support Activities for Rail Transportation**

This industry group comprises establishments primarily engaged in providing specialized services for railroad transportation including servicing, routine repairing (except factory conversion, overhaul or rebuilding of rolling stock), and maintaining rail cars; loading and unloading rail cars; and operating independent terminals.

#### **48821 Support Activities for Rail Transportation**

This industry comprises establishments primarily engaged in providing specialized services for railroad transportation including servicing, routine repairing (except factory conversion, overhaul or rebuilding of rolling stock), and maintaining rail cars; loading and unloading rail cars; and operating independent terminals.

#### **488210 Support Activities for Rail Transportation**

This U.S. industry comprises establishments primarily engaged in providing specialized services for railroad transportation including servicing, routine repairing (except factory conversion, overhaul or rebuilding of rolling stock), and maintaining rail cars; loading and unloading rail cars; and operating independent terminals.

NAICS code 488210 are comprised of these parts of the following SIC industries:

4013 (pt) Railroad switching and terminal establishments

4789 (pt) Support activities incidental to rail transportation

#### **4882101 Support Activities Incidental to Rail Transportation**

Establishments primarily engaged in furnishing services incidental to rail transportation (except railroad switching and terminal activities).

#### **4882102 Railroad Switching and Terminal Establishments**

Establishments primarily engaged in the furnishing of terminal facilities for rail passenger or freight traffic for railway operators. Terminal companies operate the stations and terminals. This activity is out of scope for the 1997 Economic Census.

### **4883 Support Activities for Water Transportation**

This NAICS industry group includes establishments classified in the following NAICS industries: 48831, Port and Harbor Operations; 48832, Marine Cargo Handling; 48833, Navigational Services to Shipping; and 48839, Other Support Activities for Water Transportation.

#### **48831 Port and Harbor Operations**

This industry comprises establishments primarily engaged in operating ports, harbors (including docking and pier facilities), or canals.

#### **488310 Port and Harbor Operations**

This U.S. industry comprises establishments primarily engaged in operating ports, harbors (including docking and pier facilities), or canals.

The data published with NAICS code 488310 are comprised of these parts of the following SIC industries:

4491 (pt) Operation of a port or waterfront terminal

4499 (pt) Seaway and lighthouse operations

#### **4883101 Operation of Port and Waterfront Terminals**

Establishments primarily engaged in the operation and maintenance of piers, docks, and associated buildings and facilities.

#### **4883102 Seaway and Lighthouse Operations**

Establishments primarily engaged in lighthouse operations or in operating ports or harbors (except piers, docks, and associated buildings and facilities).

#### **48832 Marine Cargo Handling**

This industry comprises establishments primarily engaged in providing stevedoring and other marine cargo handling services (except warehousing).

#### **488320 Marine Cargo Handling**

This U.S. industry comprises establishments primarily engaged in providing stevedoring and other marine cargo handling services (except warehousing).

The data published with NAICS code 488320 are comprised of this part of the following SIC industry:

4491 (pt) Marine cargo handling (including stevedoring)

#### **48833 Navigational Services to Shipping and Salvage**

This industry comprises establishments primarily engaged in providing navigational services to shipping. Marine salvage establishments are included in this industry.

### **488330 Navigational Services to Shipping**

This U.S. industry comprises establishments primarily engaged in providing navigational services to shipping. Marine salvage establishments are included in this industry.

The data published with NAICS code 488330 are comprised of these parts of the following SIC industries:

4492 (pt) Tugboat service (including fleet and harbor service)

4499 (pt) Navigational services

### **4883301 Tugboat Service (Including Fleet and Harbor Service)**

Establishments primarily engaged in providing tugboat navigational services in the performance of terminal services, such as docking or undocking of vessels.

### **4883302 Navigational Services**

Establishments primarily engaged in providing navigational services to ships (except tugboat services).

### **4883303 Marine Salvaging and Wrecking (Including Dismantling of Ships)**

Establishments primarily engaged in providing marine salvaging and wrecking, including dismantling of ships.

### **48839 Other Support Activities for Water Transportation**

This industry comprises establishments primarily engaged in providing services to water transportation (except port and harbor operations; marine cargo handling services; and marine salvage and marine salvage and navigational services to shipping).

### **488390 Other Support Activities for Water Transportation**

This U.S. industry comprises establishments primarily engaged in providing services to water transportation (except port and harbor operations; marine cargo handling services; and navigational services to shipping).

The data published with NAICS code 488390 are comprised of these parts of the following SIC industries:

4499 (pt) Other services incidental to water transportation

4785 (pt) Marine cargo inspectors and surveyors

7699 (pt) Ship scaling

### **4883901 Other Services Incidental to Water Transportation**

Establishments primarily engaged in furnishing miscellaneous services incidental to water transportation (except navigational services, marine salvaging and wrecking, seaway and lighthouse operations, marine cargo inspectors and surveyors, and ship scaling).

### **4883902 Marine Cargo Inspectors and Surveyors**

Establishments primarily engaged in providing marine cargo inspection and surveying services.

### **4883903 Ship Scaling**

Establishments primarily engaged in scaling ships.

### **4884 Support Activities for Road Transportation**

This NAICS industry group includes establishments classified in the following NAICS industries: 48841, Motor Vehicle Towing and 48849, Other Support Activities for Road Transportation.

### **48841 Motor Vehicle Towing**

This industry comprises establishments primarily engaged in towing light or heavy motor vehicles, both local and long distance. These establishments may provide incidental services, such as storage and emergency road repair services.

### **488410 Motor Vehicle Towing**

This U.S. industry comprises establishments primarily engaged in towing light or heavy motor vehicles, both local and long-distance. These establishments may provide incidental services, such as storage and emergency road repair services.

The data published with NAICS code 488410 are comprised of this part of the following SIC industry:

7549 (pt) Towing, wrecker service

### **48849 Other Support Activities for Road Transportation**

This industry comprises establishments primarily engaged in providing services (except motor vehicle towing) to road network users.

### **488490 Other Support Activities for Road Transportation**

This U.S. industry comprises establishments primarily engaged in providing services (except motor vehicle towing) to road network users.

The data published with NAICS code 488490 are comprised of these parts of the following SIC industries:

4173 Terminal or maintenance facilities for motor vehicle passenger transportation (except exclusive use of company vehicles)

4231 Motor freight terminal or joint terminal maintenance facility

4785 (pt) Fixed facilities and inspection and weighing services for motor vehicle transportation

4789 (pt) Other support activities incidental to transportation, nec

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#### **4884901 Terminal and Maintenance Facilities for Motor Vehicle Passenger Transportation**

Establishments primarily engaged in the operation of motor vehicle passenger terminals and/or maintenance and service facilities, not operated by companies that also furnish motor vehicle passenger transportation.

#### **4884902 Motor Freight Terminal and Joint Terminal Maintenance Facility**

Establishments primarily engaged in the operation of terminal facilities used by highway-type motor freight vehicles. Included are terminals that provide maintenance and service for motor freight vehicles.

#### **4884903 Fixed Facilities and Inspection and Weighing Services for Motor Transportation Vehicles**

Establishments primarily engaged in the operation of fixed facilities for motor vehicle transportation, such as toll roads, highway bridges, and other fixed facilities (except terminals).

#### **4884904 Support Activities Incidental to Road Transportation**

Establishments primarily engaged in furnishing services incidental to road transportation.

#### **4885 Freight Transportation Arrangement**

This industry group comprises establishments primarily engaged in arranging transportation of freight between shippers and carriers. These establishments are usually known as freight forwarders, marine shipping agents, or customs brokers and offer a combination of services spanning transportation modes.

#### **48851 Freight Transportation Arrangement**

This industry comprises establishments primarily engaged in arranging transportation of freight between shippers and carriers. These establishments are usually known as freight forwarders, marine shipping agents, or customs brokers and offer a combination of services spanning transportation modes.

#### **488510 Freight Transportation Arrangement**

This U.S. industry comprises establishments primarily engaged in arranging transportation of freight between shippers and carriers. These establishments are usually known as freight forwarders, marine shipping agents, or customs brokers and offer a combination of services spanning transportation modes.

The data published with NAICS code 488510 are comprised of this part of the following SIC industry:

4731 (pt) Freight forwarding and arrangement of transportation of freight and cargo

#### **4885101 Freight Forwarding**

Establishments primarily engaged in undertaking the transportation of goods from shippers to receivers for a charge covering the entire transportation, and in turn making use of the services of various freight carriers in affecting delivery, paying transportation charges, and assuming responsibility for delivery of the goods. There is no relationship between shippers and the various freight carriers delivering the goods.

#### **4885102 Arrangement of Transportation of Freight and Cargo**

Establishments primarily engaged in arranging transportation of freight and cargo.

#### **4889 Other Support Activities for Transportation**

This industry group comprises establishments primarily engaged in providing support activities to transportation (except for air transportation; rail transportation; water transportation; road transportation; and freight transportation arrangement).

#### **48899 Other Support Activities for Transportation**

This industry comprises establishments primarily engaged in providing support activities to transportation (except for air transportation; rail transportation; water transportation; road transportation; and freight transportation arrangement).

#### **488991 Packing and Crating**

This U.S. industry comprises establishments primarily engaged in packing, crating, and otherwise preparing goods for transportation.

The data published with NAICS code 488991 are comprised of the following SIC industry:

4783 Packing and crating

#### **488999 All Other Support Activities for Transportation**

This U.S. industry comprises establishments primarily engaged in providing support activities to transportation (except for air transportation; rail transportation; water transportation; road transportation; freight transportation arrangement; and packing and crating).

The data published with NAICS code 488999 are comprised of these parts of the following SIC industries:

4729 (pt) Arrangement of carpools and vanpools

4789 (pt) Other support activities incidental to transportation

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## **4889991 Other Support Activities for Transportation**

Establishments primarily engaged in furnishing services incidental to transportation (except packing and crating and arrangement of carpools and vanpools).

## **4889992 Arrangement of Carpools and Vanpools**

Establishments primarily engaged in the arrangement of carpools and vanpools.

## **491 Postal Service**

The Postal Service subsector includes the activities of the National Post Office and its subcontractors in delivering letters and small parcels. These articles can be described as those that can be handled by one person without using special equipment. This allows the collection, pick-up, and delivery operations to be done with limited labor costs and minimal equipment. Sorting and transportation activities, where necessary, are generally mechanized. The restriction to small parcels distinguishes these establishments from those in the transportation industries.

The traditional activity of the National Postal Service is described in this subsector. Subcontractors include rural Post Offices on contract to the Postal Service.

Bulk transportation of mail on contract to the Postal Service is not included here, because it is usually done by transportation establishments that carry other customers' cargo as well.

## **4911 Postal Service**

This industry group comprises establishments primarily engaged in operating the National Postal Service. Establishments primarily engaged in performing one or more postal service, such as sorting, routing, and/or delivery, on a contract basis (except the bulk transportation of mail) are included in this industry.

## **49111 Postal Service**

This industry comprises establishments primarily engaged in operating the National Postal Service. Establishments primarily engaged in performing one or more postal service, such as sorting, routing, and/or delivery, on a contract basis (except the bulk transportation of mail) are included in this industry.

## **491110 Postal Service**

This U.S. industry comprises establishments primarily engaged in operating the National Postal Service. Establishments primarily engaged in performing one or more postal service, such as sorting, routing, and/or delivery, on a contract basis (except the bulk transportation of mail) are included in this industry.

NAICS code 491110 are comprised of the following SIC industry:

4311 United States Post Office

## **492 Couriers and Messengers**

Industries in the Couriers and Messengers subsector provide intercity and/or local delivery of parcels. These articles can be described as those that may be handled by one person without using special equipment. This allows the collection, pick-up, and delivery operations to be done with limited labor costs and minimal equipment. Sorting and transportation activities, where necessary, are generally mechanized. The restriction to small parcels partly distinguishes these establishments from those in the transportation industries. The complete network of courier services establishments also distinguishes these transportation services from local messenger and delivery establishments in this subsector. This includes the establishments that perform intercity transportation as well as establishments that, under contract to them, perform local pick-up and delivery. Messengers, which usually deliver within a metropolitan or single urban area, may use bicycle, foot, small truck, or van.

## **4921 Couriers**

This industry group comprises establishments primarily engaged in providing air, surface, or combined courier delivery services of parcels generally between metropolitan areas or urban centers. The establishments of this industry form a network including courier local pick-up and delivery to serve their customers' needs.

## **49211 Couriers**

This industry comprises establishments primarily engaged in providing air, surface, or combined courier delivery services of parcels generally between metropolitan areas or urban centers. The establishments of this industry form a network including courier local pick-up and delivery to serve their customers' needs.

## **492110 Couriers**

This U.S. industry comprises establishments primarily engaged in providing air, surface, or combined courier delivery services of parcels generally between metropolitan areas or urban centers. The establishments of this industry form a network including courier local pickup and delivery to serve their customers' needs.

The data published with NAICS code 492110 are comprised of these parts of the following SIC industries:

4215 (pt) Courier services (except local or by air)

4513 Air courier services (including delivery of parcels weighing 100 lbs or less)

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### **4921101 Courier Services (Except by Air)**

Establishments primarily engaged in furnishing delivery of individually addressed letters, parcels and packages (generally under 100 pounds) by truck or other land vehicle (except locally or except by air or by the U.S. Postal Service). Included are establishments that perform intercity transportation as well as establishments that, under contract to them, do the local pick-up and delivery.

### **4921102 Air Courier Services**

Establishments primarily engaged in furnishing air delivery of individually addressed letters, parcels, and packages (generally under 100 lbs.), except by the U.S. Postal Service. While these establishments deliver their consignment by air, the initial pick-up and the final delivery are often made by other modes of transportation, such as truck, bicycle, or motorcycle. Separate establishments of air courier companies engaged in providing pick-up and delivery only, "drop-off points", or distribution centers are all classified here.

### **4922 Local Messengers and Local Delivery**

This industry group comprises establishments primarily engaged in providing local messenger and delivery services of small items within a single metropolitan or within an urban center. These establishments generally provide point-to-point pickup and delivery and do not operate as part of an intercity courier network.

#### **49221 Local Messengers and Local Delivery**

This industry comprises establishments primarily engaged in providing local messenger and delivery services of small items within a single metropolitan or within an urban center. These establishments generally provide point-to-point pickup and delivery and do not operate as part of an intercity courier network.

#### **492210 Local Messengers and Local Delivery**

This U.S. industry comprises establishments primarily engaged in providing local messenger and delivery services of small items within a single metropolitan or within an urban center. These establishments generally provide point-to-point pickup and delivery and do not operate as part of an intercity courier network.

The data published with NAICS code 492210 are comprised of this part of the following SIC industry:

4215 (pt) Local messenger services

### **493 Warehousing and Storage**

Industries in the Warehousing and Storage subsector are primarily engaged in operating warehousing and storage facilities for general merchandise, refrigerated goods, and other warehouse products. These establishments provide facilities to store goods. They do not sell the goods

they handle. These establishments take responsibility for storing the goods and keeping them secure. They may also provide a range of services, often referred to as logistics services, related to the distribution of goods. Logistics services can include labeling, breaking bulk, inventory control and management, light assembly, order entry and fulfillment, packaging, pick and pack, price marking and ticketing, and transportation arrangement. However, establishments in this industry group always provide warehousing or storage services in addition to any logistic services. Furthermore, the warehousing or storage of goods must be more than incidental to the performance of services, such as price marking.

Bonded warehousing and storage services and warehouses located in free trade zones are included in the industries of this subsector.

### **4931 Warehousing and Storage**

This NAICS industry group includes establishments classified in the following NAICS industries: 49311, General Warehousing and Storage; 49312, Refrigerated Warehousing and Storage; 49313, Farm Product Warehousing and Storage; and 49319, Other Warehousing and Storage.

#### **49311 General Warehousing and Storage**

This industry comprises establishments primarily engaged in operating merchandise warehousing and storage facilities. These establishments generally handle goods in containers, such as boxes, barrels, and/or drums, using equipment, such as forklifts, pallets, and racks. They are not specialized in handling bulk products of any particular type, size, or quantity of goods or products.

#### **493110 General Warehousing and Storage**

This U.S. industry comprises establishments primarily engaged in operating merchandise warehousing and storage facilities. These establishments generally handle goods in containers, such as boxes, barrels, and/or drums, using equipment, such as forklifts, pallets, and racks. They are not specialized in handling bulk products of any particular type, size, or quantity of goods or products.

The data published with NAICS code 493110 are comprised of these parts of the following SIC industries:

4225 (pt) General warehousing and storage

4226 (pt) General warehousing in foreign trade zones

#### **4931101 General Warehousing and Storage (Except in Foreign Trade Zones)**

Establishments primarily engaged in the warehousing and storage of a general line of goods for the public. General merchandise is defined as materials or goods of many varieties that are packaged or are readily handled and do not require refrigeration, controlled humidity, or other special handling.



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### **4931102 General Warehousing and Storage in Foreign Trade Zones**

Establishments primarily engaged in the warehousing and storage of goods in foreign trade zones.

### **49312 Refrigerated Warehousing and Storage**

This industry comprises establishments primarily engaged in operating refrigerated warehousing and storage facilities. Establishments primarily engaged in the storage of furs for the trade are included in this industry. The services provided by these establishments include blast freezing, tempering, and modified atmosphere storage services.

### **493120 Refrigerated Warehousing and Storage**

This U.S. industry comprises establishments primarily engaged in operating refrigerated warehousing and storage facilities. Establishments primarily engaged in the storage of furs for the trade are included in this industry. The services provided by these establishments include blast freezing, tempering, and modified atmosphere storage services.

The data published with NAICS code 493120 are comprised of these parts of the following SIC industries:

- 4222 Refrigerated products warehousing
- 4226 (pt) Fur storage

### **4931201 Refrigerated Products Warehousing**

Establishments primarily engaged in operating refrigerated warehousing and storage facilities. Establishments may also provide incidental services for processing, preparing, or packaging such perishable goods for storage. Also included are establishments primarily engaged in the public rental of artificially cooled locker space for the storage of food for individual households.

### **4931202 Fur Storage**

Establishments primarily engaged in the warehousing and storage of fur.

### **49313 Farm Product Warehousing and Storage**

This industry comprises establishments primarily engaged in operating bulk farm product warehousing and storage facilities (except refrigerated). Grain elevators primarily engaged in storage are included in this industry.

### **493130 Farm Product Warehousing and Storage**

This U.S. industry comprises establishments primarily engaged in operating bulk farm product warehousing and storage facilities (except refrigerated). Grain elevators primarily engaged in storage are included in this industry.

The data published with NAICS code 493130 includes are comprised of the following SIC industry:

- 4221 Farm product warehousing and storage

### **49319 Other Warehousing and Storage**

This industry comprises establishments primarily engaged in operating warehousing and storage facilities (except general merchandise, refrigerated, and farm product warehousing and storage).

### **493190 Other Warehousing and Storage**

This U.S. industry comprises establishments primarily engaged in operating warehousing and storage facilities (except general merchandise, refrigerated, and farm product warehousing and storage).

The data published with NAICS code 493190 are comprised of this part of the following SIC industry:

- 4226 (pt) Household and specialized goods and warehousing and storage

### **4931901 Household Goods Warehousing and Storage**

Establishments primarily engaged in the storage of furniture and other household goods.

### **4931902 Specialized Goods Warehousing and Storage**

Establishments primarily engaged in the warehousing and storage of special products (except farm products, refrigerated products, general merchandise, household goods, and fur storage).

# Appendix C.

## Coverage and Methodology

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### MAIL/NONMAIL UNIVERSE

For this sector, large- and medium-size firms, plus all firms known to operate more than one establishment, were sent questionnaires to be completed and returned to the Census Bureau by mail. For most very small firms data from existing administrative records of other Federal agencies were used instead. These records provided basic information on location, kind of business, revenue, payroll, number of employees, and legal form of organization.

Firms in the 1997 Economic Census were divided into the mail universe and nonmail universe. The coverage of and the method of obtaining census information from each are described below:

1. The mail universe consisted of firms for which information was obtained by means of a mail canvass and included:
  - a. Large employers, i.e., all multiestablishment and all single-establishment employer firms with payroll above a specified cutoff. The term “employers” refers to firms with one or more paid employees at any time during 1997 as shown in the active administrative records of other Federal agencies.
  - b. A sample of small employers, i.e., single-establishment firms with payroll below a specified cutoff, in classifications for which specialized data precluded reliance solely on administrative records sources.
2. The nonmail universe consisted of firms that were not required to file a regular census return and included:
  - a. Selected small employers, i.e., single-establishment firms with payroll below a specified cutoff. Although the payroll cutoff varied by kind of business, small employers in the nonmail universe generally included firms with less than 10 employees and represented about 10 percent of total revenue of establishments covered in the census. Data on revenue, payroll, and employment for small employers in the nonmail universe were derived or estimated from administrative records of other Federal agencies.
  - b. All taxable nonemployers, i.e., all firms subject to Federal income tax with no paid employees during 1997. Revenue information for these firms was obtained from administrative records of other Federal agencies. Although consisting of many firms,

nonemployers accounted for less than 10 percent of total revenue of all establishments covered in the census. The census included only those nonemployer firms which reported a revenue volume of \$1,000 or more during 1997. Data for nonemployers are not included in this report, but are released as part of the Core Business Statistics Series.

### INDUSTRY CLASSIFICATION OF ESTABLISHMENTS

The classifications for all establishments in this sector were assigned in accordance with the 1997 North American Industry Classification System (NAICS) Manual, United States. NAICS is a common classification system developed by the United States, Canada, and Mexico. This system replaces the 1987 Standard Industrial Classification (SIC) that was used in previous censuses. Appendix A of the 1997 NAICS manual provides information on the comparability between the 1987 SIC and the 1997 NAICS. More information on NAICS is available in the NAICS manual and at [www.census.gov/naics](http://www.census.gov/naics).

The method of assigning classifications, and the level of detail at which establishments were classified, differed between the mail and nonmail universe as follows:

1. The mail universe.
  - a. Establishments in the mail universe that returned questionnaires were classified on the basis of their self-designation, sources of revenue, and other industry-specific inquiries.
  - b. Establishments in the mail universe that did not return questionnaires were classified on the basis of the most current census kind-of-business classification available from one of the Census Bureau’s current sample surveys, the 1992 census, or the administrative records of other Federal agencies.
2. The nonmail universe.
  - a. Employer establishments in the nonmail universe were classified on the basis of the most current census kind-of-business classification available from one of the Census Bureau’s current sample surveys, the 1992 census, or the administrative records of other Federal agencies. If the census or administrative record classifications proved inadequate (none corresponded to a 1997 census classification in the detail required for employers), the firm was sent a brief inquiry requesting information necessary to assign a 1997 census kind-of-business code.

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- b. Nonemployers were classified on the basis of information obtained from administrative records of other Federal agencies.

### **RELIABILITY OF DATA**

All data compiled for this sector are subject to nonsampling errors. Nonsampling errors can be attributed to many sources: inability to identify all cases in the actual universe; definition and classification difficulties; differences in the interpretation of questions; errors in recording or coding the data obtained; and other errors of collection, response, coverage, processing, and estimation for missing or misreported data.

Data presented in the Miscellaneous Subjects and the Sources of Revenue reports for this sector are subject to sampling errors as well as nonsampling errors. Specifically, these data are estimated based on information obtained from census questionnaires mailed to all large employers and to a sample of small employers in the universe. Sampling errors affect these estimates insofar as they may differ from results that would be obtained from a complete enumeration.

The accuracy of these tabulated data is determined by the joint effects of the various nonsampling errors or by the joint effects of sampling and nonsampling errors. No direct measurement of these effects has been obtained except for estimation for missing or misreported data; however, precautionary steps were taken in all phases of the collection, processing, and tabulation of the data in an effort to minimize the effects of nonsampling errors.

The Census Bureau obtains limited information extracted from administrative records of other Federal agencies. This information is used in conjunction with other information available to the Census Bureau to develop estimates for nonemployers, small employers, and other establishments for which responses were not received in time for publication.

### **TREATMENT OF NONRESPONSE**

Census report forms included two different types of inquiries, "basic" and "industry-specific." Data for the basic inquiries, which include location, kind of business or operation, revenue, payroll, number of employees, and legal form of organization, were available from a combination of sources for all establishments. Data for industry-specific inquiries, tailored to the particular kinds of business or operation covered by the report, were available only from the establishments in the mail universe that completed the appropriate inquiries on the questionnaire.

Two methods were used to account for nonresponse to industry-specific inquiries. For some inquiries, missing data were imputed for individual records based on responses from similar establishments. For other inquiries, the total of reported data were expanded to represent the mail and nonmail universe. Data for industry-specific inquiries based on a December 31 reference date were expanded in direct relationship to total annualized revenue of only those establishments in business at the end of the year. Unless otherwise noted in specific reports, data for other industry-specific inquiries were expanded in direct relationship to total revenue of all establishments included in the category. In a few cases, expansion on the basis of the revenue item was not appropriate, and another basic data item was used as the basis for expansion.

All reports in which data were expanded to account for nonmail employers and nonrespondents include a coverage indicator for each publication category, which shows the revenue of establishments responding to the inquiry as a percent of total revenue for all establishments for which data are shown. Coverage is usually determined by the ratio of total revenue of establishments responding to the inquiry to total revenue of all establishments in the category.

# Appendix D. Geographic Notes

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Not applicable for this report.

# Appendix E. Metropolitan Areas

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## **MICHIGAN**

### **Ann Arbor, MI PMSA**

Lenawee County, MI  
Livingston County, MI  
Washtenaw County, MI

### **Benton Harbor, MI MSA**

Berrien County, MI

### **Detroit, MI PMSA**

Lapeer County, MI  
Macomb County, MI  
Monroe County, MI  
Oakland County, MI  
St. Clair County, MI  
Wayne County, MI

### **Detroit—Ann Arbor—Flint, MI CMSA**

Ann Arbor, MI PMSA  
Lenawee County, MI  
Livingston County, MI  
Washtenaw County, MI

Detroit, MI PMSA  
Lapeer County, MI  
Macomb County, MI  
Monroe County, MI  
Oakland County, MI  
St. Clair County, MI  
Wayne County, MI

### **Detroit—Ann Arbor—Flint, MI CMSA—Con.**

Flint, MI PMSA  
Genesee County, MI

### **Flint, MI PMSA**

Genesee County, MI

### **Grand Rapids—Muskegon—Holland, MI MSA**

Allegan County, MI  
Kent County, MI  
Muskegon County, MI  
Ottawa County, MI

### **Jackson, MI MSA**

Jackson County, MI

### **Kalamazoo—Battle Creek, MI MSA**

Calhoun County, MI  
Kalamazoo County, MI  
Van Buren County, MI

### **Lansing—East Lansing, MI MSA**

Clinton County, MI  
Eaton County, MI  
Ingham County, MI

### **Saginaw—Bay City—Midland, MI MSA**

Bay County, MI  
Midland County, MI  
Saginaw County, MI

