

Sources of Revenue

1997

Issued August 2000

EC97T22S-LS

1997 Economic Census

Utilities

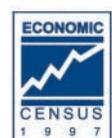
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Service Sector Statistics Division prepared this report. **Bobby E. Russell**, Assistant Chief for Census Programs, was responsible for the overall planning, management, and coordination. Planning and implementation were under the direction of **Steven M. Roman**, Chief, Utilities and Financial Census Branch, assisted by **Pamela J. Palmer**. Primary staff assistance was provided by **Diane M. Carodiskey-Beeson**, **Sandra K. Creech**, **Amy R. Houtz**, **Debra G. Karrels**, and **Douglas A. Smyly**.

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-- Not applicable for this report.

Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

The economic census is the major source of facts about the structure and functioning of the Nation's economy. It provides essential information for government, business, industry, and the general public. Title 13 of the 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

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) 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.

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. 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.

ABBREVIATIONS AND SYMBOLS

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

A	Standard error of 100 percent or more.	V	Represents less than 50 vehicles or .05 percent.
D	Withheld to avoid disclosing data of individual companies; data are included in higher level totals.	X	Not applicable.
F	Exceeds 100 percent because data include establishments with payroll exceeding revenue.	Y	Disclosure withheld because of insufficient coverage of merchandise lines.
N	Not available or not comparable.	Z	Less than half the unit shown.
Q	Revenue not collected at this level of detail for multiestablishment firms.	a	0 to 19 employees.
S	Withheld because estimates did not meet publication standards.	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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Utilities

SCOPE

The Utilities sector (sector 22) comprises establishments engaged in the provision of the following utility services: electric power, natural gas, steam supply, water supply, and sewage removal. Within this sector, the specific activities associated with the utility services provided vary by utility: electric power includes generation, transmission, and distribution; natural gas includes distribution; steam supply includes provision and/or distribution; water supply includes treatment and distribution; and sewage removal includes collection, treatment, and disposal of waste through sewer systems and sewage treatment facilities.

Excluded from this sector are establishments primarily engaged in waste management services classified in Sub-sector 562, Waste Management and Remediation Services. These establishments also collect, treat, and dispose of waste materials; however, they do not use sewer systems or sewage treatment facilities.

GENERAL

A list of reports that provide statistics on sector 22 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 establishments with 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 with paid employees; and by revenue size (including concentration by largest firms), by employment size, and by number of establishments operated (single units and multiunits) for firms with paid employees.

Miscellaneous subjects report. This report presents data for establishments with paid employees 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 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 Census Bureau's County Business Patterns program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county.

Table 1. Sources of Revenue by Kind of Business for the United States: 1997

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

NAICS code and RL code	Kind of business and source of revenue	Establishments (number)	Revenue ¹ (\$1,000)	Revenue from specified source of revenue as percent of total revenue ¹	Revenue of establishments reporting sources of revenue as percent of total revenue
22	Utilities	15 513	411 713 327	100.0	87.9
3500	Products extracted from natural gas	41	383 772	.1	X
3600	Sales of household appliances	205	111 270	Z	X
3750	Sales of other merchandise	285	57 223	Z	X
6030	Natural gas transmission and storage	1 371	3 003 732	.7	X
9000	Sales of electricity	8 014	249 757 718	60.7	X
9010	Sales of natural gas	4 312	144 867 797	35.2	X
9020	Sales of manufactured or mixed gas	102	640 026	.2	X
9030	Sales of steam or air-conditioning	508	2 274 207	.6	X
9040	Sales of water	3 919	4 388 378	1.1	X
9050	Electric power transmission	1 080	2 043 616	.5	X
9070	Irrigation system user charges	371	120 157	Z	X
9080	Sewer system user charges	961	685 981	.2	X
9810	All other operating revenue	4 312	3 357 755	.8	X
221	Utilities	15 513	411 713 327	100.0	87.9
3500	Products extracted from natural gas	41	383 772	.1	X
3600	Sales of household appliances	205	111 270	Z	X
3750	Sales of other merchandise	285	57 223	Z	X
6030	Natural gas transmission and storage	1 371	3 003 732	.7	X
9000	Sales of electricity	8 014	249 757 718	60.7	X
9010	Sales of natural gas	4 312	144 867 797	35.2	X
9020	Sales of manufactured or mixed gas	102	640 026	.2	X
9030	Sales of steam or air-conditioning	508	2 274 207	.6	X
9040	Sales of water	3 919	4 388 378	1.1	X
9050	Electric power transmission	1 080	2 043 616	.5	X
9070	Irrigation system user charges	371	120 157	Z	X
9080	Sewer system user charges	961	685 981	.2	X
9810	All other operating revenue	4 312	3 357 755	.8	X
2211	Electric power generation, transmission, & distribution	7 935	269 095 239	100.0	89.0
3600	Sales of household appliances	115	49 443	Z	X
3750	Sales of other merchandise	218	52 337	Z	X
6030	Natural gas transmission and storage	362	290 488	.1	X
9000	Sales of electricity	7 841	243 850 479	90.6	X
9010	Sales of natural gas	1 648	18 352 597	6.8	X
9030	Sales of steam or air-conditioning	419	1 719 120	.6	X
9040	Sales of water	77	213 098	.1	X
9050	Electric power transmission	1 080	2 043 616	.8	X
9810	All other operating revenue	2 704	2 499 360	.9	X
22111	Electric power generation	1 745	73 375 323	100.0	93.2
6030	Natural gas transmission and storage	67	32 088	Z	X
9000	Sales of electricity	1 743	68 931 673	93.9	X
9010	Sales of natural gas	234	3 095 023	4.2	X
9030	Sales of steam or air-conditioning	115	227 232	.3	X
9040	Sales of water	23	65 389	.1	X
9050	Electric power transmission	330	453 370	.6	X
9810	All other operating revenue	565	568 119	.8	X
221111	Hydroelectric power generation	353	3 073 908	100.0	91.8
6030	Natural gas transmission and storage	10	301	Z	X
9000	Sales of electricity	351	2 735 358	89.0	X
9010	Sales of natural gas	44	73 745	2.4	X
9050	Electric power transmission	50	236 213	7.7	X
9810	All other operating revenue	132	27 283	.9	X
2211111	Electric services (hydroelectric power generation)	302	2 651 104	100.0	90.6
9000	Sales of electricity	302	2 399 569	90.5	X
9050	Electric power transmission	31	234 440	8.8	X
9810	All other operating revenue	90	17 084	.6	X
2211112	Electric & other serv combined (hydroelectric power generation)	49	D	D	D
6030	Natural gas transmission and storage	10	D	D	X
9000	Sales of electricity	49	D	D	X
9010	Sales of natural gas	44	D	D	X
9050	Electric power transmission	19	D	D	X
9810	All other operating revenue	42	D	D	X
221112	Fossil fuel electric power generation	1 009	48 324 008	100.0	92.6
6030	Natural gas transmission and storage	44	27 567	.1	X
9000	Sales of electricity	1 009	45 624 963	94.4	X
9010	Sales of natural gas	154	1 889 453	3.9	X
9030	Sales of steam or air-conditioning	94	193 941	.4	X
9040	Sales of water	13	59 414	.1	X
9050	Electric power transmission	244	139 395	.3	X
9810	All other operating revenue	321	388 485	.8	X
2211121	Electric services (fossil fuel power generation)	834	37 041 869	100.0	90.4
9000	Sales of electricity	834	36 601 773	98.8	X
9010	Sales of natural gas	14	22 777	.1	X
9030	Sales of steam or air-conditioning	62	72 950	.2	X
9040	Sales of water	9	6 459	Z	X
9050	Electric power transmission	203	125 699	.3	X
9810	All other operating revenue	248	211 450	.6	X

See footnotes at end of table.

Table 1. Sources of Revenue by Kind of Business for the United States: 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 and RL code	Kind of business and source of revenue	Establishments (number)	Revenue ¹ (\$1,000)	Revenue from specified source of revenue as percent of total revenue ¹	Revenue of establishments reporting sources of revenue as percent of total revenue
221122	Electric & other serv combined (fossil fuel power generation) .	174	D	D	D
6030	Natural gas transmission and storage	43	D	D	X
9000	Sales of electricity	174	D	D	X
9010	Sales of natural gas	139	D	D	X
9030	Sales of steam or air-conditioning	32	D	D	X
9050	Electric power transmission	41	D	D	X
9810	All other operating revenue	72	D	D	X
221113	Nuclear electric power generation	67	13 966 616	100.0	96.4
9000	Sales of electricity	67	12 920 374	92.5	X
9010	Sales of natural gas	12	901 815	6.5	X
9050	Electric power transmission	9	62 753	.4	X
9810	All other operating revenue	14	79 771	.6	X
221131	Electric services (nuclear power generation)	56	9 808 861	100.0	94.9
9000	Sales of electricity	56	9 664 649	98.5	X
9050	Electric power transmission	9	62 753	.6	X
9810	All other operating revenue	14	79 771	.8	X
221132	Electric & other services combined (nuclear power generation)	11	4 157 755	100.0	100.0
9000	Sales of electricity	11	3 255 725	78.3	X
9010	Sales of natural gas	11	900 127	21.6	X
221119	Other electric power generation	316	8 010 791	100.0	91.5
6030	Natural gas transmission and storage	12	2 317	Z	X
9000	Sales of electricity	316	7 650 978	95.5	X
9010	Sales of natural gas	24	230 010	2.9	X
9030	Sales of steam or air-conditioning	18	32 936	.4	X
9040	Sales of water	8	5 964	.1	X
9050	Electric power transmission	27	15 009	.2	X
9810	All other operating revenue	98	72 580	.9	X
221191	Electric services (other electric power generation)	268	6 864 322	100.0	90.2
9000	Sales of electricity	268	6 826 255	99.4	X
9030	Sales of steam or air-conditioning	8	3 524	.1	X
9050	Electric power transmission	23	3 479	.1	X
9810	All other operating revenue	64	30 302	.4	X
221192	Electric & other serv combined (other electric power generation)	44	1 139 389	100.0	100.0
6030	Natural gas transmission and storage	12	2 317	.2	X
9000	Sales of electricity	44	822 363	72.2	X
9010	Sales of natural gas	20	227 650	20.0	X
9030	Sales of steam or air-conditioning	10	29 412	2.6	X
9810	All other operating revenue	34	42 278	3.7	X
22112	Electric power transmission, control, & distribution	6 190	195 719 916	100.0	87.4
3600	Sales of household appliances	113	49 081	Z	X
3750	Sales of other merchandise	214	50 912	Z	X
6030	Natural gas transmission and storage	295	258 400	.1	X
9000	Sales of electricity	6 098	174 918 806	89.4	X
9010	Sales of natural gas	1 414	15 257 574	7.8	X
9030	Sales of steam or air-conditioning	304	1 491 888	.8	X
9040	Sales of water	54	147 709	.1	X
9050	Electric power transmission	750	1 590 246	.8	X
9810	All other operating revenue	2 139	1 931 241	1.0	X
22121	Electric bulk power transmission & control	120	955 984	100.0	94.5
9000	Sales of electricity	28	440 475	46.1	X
9010	Sales of natural gas	17	80 974	8.5	X
9050	Electric power transmission	99	409 433	42.8	X
9810	All other operating revenue	14	2 609	.3	X
221211	Electric services (electric power transmission & control)	99	523 508	100.0	97.5
9000	Sales of electricity	10	112 089	21.4	X
9050	Electric power transmission	99	409 433	78.2	X
9810	All other operating revenue	11	1 986	.4	X
221212	Electric & other serv combined (elec power transmsn & control)	18	D	D	D
9000	Sales of electricity	18	D	D	X
9010	Sales of natural gas	17	D	D	X
22122	Electric power distribution	6 070	194 763 932	100.0	87.4
3600	Sales of household appliances	113	49 081	Z	X
3750	Sales of other merchandise	214	50 912	Z	X
6030	Natural gas transmission and storage	293	256 960	.1	X
9000	Sales of electricity	6 070	174 478 331	89.6	X
9010	Sales of natural gas	1 397	15 176 600	7.8	X

See footnotes at end of table.

Table 1. Sources of Revenue by Kind of Business for the United States: 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 and RL code	Kind of business and source of revenue	Establishments (number)	Revenue ¹ (\$1,000)	Revenue from specified source of revenue as percent of total revenue ¹	Revenue of establishments reporting sources of revenue as percent of total revenue
221122	Electric power distribution—Con.				
9030	Sales of steam or air-conditioning	304	1 491 888	.8	X
9040	Sales of water	54	147 709	.1	X
9050	Electric power transmission	651	1 180 813	.6	X
9810	All other operating revenue.....	2 125	1 928 632	1.0	X
2211221	Electric services (electric power distribution)	4 653	112 894 143	100.0	86.6
3600	Sales of household appliances	98	45 134	Z	X
3750	Sales of other merchandise	190	43 546	Z	X
9000	Sales of electricity	4 653	111 026 324	98.3	X
9010	Sales of natural gas	70	304 596	.3	X
9030	Sales of steam or air-conditioning	158	68 779	.1	X
9040	Sales of water	35	7 886	.7	X
9050	Electric power transmission	358	571 537	Z	X
9810	All other operating revenue.....	1 541	826 125	.7	X
2211222	Electric & other services combined (electric power distribution)	1 387	81 442 099	100.0	88.5
3600	Sales of household appliances	15	3 947	Z	X
3750	Sales of other merchandise	24	7 366	Z	X
6030	Natural gas transmission and storage	292	256 744	.3	X
9000	Sales of electricity	1 387	63 195 706	77.6	X
9010	Sales of natural gas	1 297	14 701 494	18.1	X
9030	Sales of steam or air-conditioning	146	1 423 109	1.7	X
9040	Sales of water	14	139 043	.2	X
9050	Electric power transmission	293	609 276	.7	X
9810	All other operating revenue.....	579	1 102 408	1.4	X
2211223	Other combination utilities (electric power distribution)	30	427 690	100.0	81.2
9000	Sales of electricity	30	256 301	59.9	X
9010	Sales of natural gas	30	170 510	39.9	X
2212	Natural gas distribution	2 747	136 995 356	100.0	85.9
3500	Products extracted from natural gas	38	380 766	.3	X
3600	Sales of household appliances	88	61 816	Z	X
3750	Sales of other merchandise	27	2 599	Z	X
6030	Natural gas transmission and storage	1 009	2 713 244	2.0	X
9000	Sales of electricity	173	5 907 239	4.3	X
9010	Sales of natural gas	2 664	126 515 200	92.4	X
9020	Sales of manufactured or mixed gas	102	640 026	.5	X
9030	Sales of steam or air-conditioning	6	11 485	Z	X
9810	All other operating revenue.....	688	762 706	.6	X
22121	Natural gas distribution	2 747	136 995 356	100.0	85.9
3500	Products extracted from natural gas	38	380 766	.3	X
3600	Sales of household appliances	88	61 816	Z	X
3750	Sales of other merchandise	27	2 599	Z	X
6030	Natural gas transmission and storage	1 009	2 713 244	2.0	X
9000	Sales of electricity	173	5 907 239	4.3	X
9010	Sales of natural gas	2 664	126 515 200	92.4	X
9020	Sales of manufactured or mixed gas	102	640 026	.5	X
9030	Sales of steam or air-conditioning	6	11 485	Z	X
9810	All other operating revenue.....	688	762 706	.6	X
221210	Natural gas distribution	2 747	136 995 356	100.0	85.9
3500	Products extracted from natural gas	38	380 766	.3	X
3600	Sales of household appliances	88	61 816	Z	X
3750	Sales of other merchandise	27	2 599	Z	X
6030	Natural gas transmission and storage	1 009	2 713 244	2.0	X
9000	Sales of electricity	173	5 907 239	4.3	X
9010	Sales of natural gas	2 664	126 515 200	92.4	X
9020	Sales of manufactured or mixed gas	102	640 026	.5	X
9030	Sales of steam or air-conditioning	6	11 485	Z	X
9810	All other operating revenue.....	688	762 706	.6	X
2212101	Natural gas transmission & distribution (distribution)	713	18 266 506	100.0	90.3
3600	Sales of household appliances	14	7 224	Z	X
3750	Sales of other merchandise	6	259	Z	X
6030	Natural gas transmission and storage	705	2 520 117	13.8	X
9010	Sales of natural gas	713	15 537 597	85.1	X
9020	Sales of manufactured or mixed gas	10	5 204	Z	X
9810	All other operating revenue.....	113	107 849	.6	X
2212102	Natural gas distribution	1 682	87 105 150	100.0	80.2
3500	Products extracted from natural gas	9	144 281	.2	X
3600	Sales of household appliances	66	46 963	.1	X
3750	Sales of other merchandise	14	930	Z	X
6030	Natural gas transmission and storage	287	137 793	.2	X
9000	Sales of electricity	8	7 595	Z	X
9010	Sales of natural gas	1 682	86 534 919	99.3	X
9810	All other operating revenue.....	365	224 988	.3	X
2212103	Mixed, manufactured, or LP gas pro &/or dist (natural gas dist)	86	D	D	D
9020	Sales of manufactured or mixed gas	86	D	D	X
9810	All other operating revenue.....	14	D	D	X
2212104	Electric & other services combined (natural gas distribution)	145	28 110 297	100.0	99.4
9000	Sales of electricity	145	5 877 859	20.9	X
9010	Sales of natural gas	145	22 226 456	79.1	X
9810	All other operating revenue.....	97	5 962	Z	X

See footnotes at end of table.

Table 1. Sources of Revenue by Kind of Business for the United States: 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 and RL code	Kind of business and source of revenue	Establishments (number)	Revenue ¹ (\$1,000)	Revenue from specified source of revenue as percent of total revenue ¹	Revenue of establishments reporting sources of revenue as percent of total revenue
2212105	Gas & other services combined (natural gas distribution)	119	2 852 525	100.0	98.1
3500	Products extracted from natural gas	24	144 307	5.1	X
3600	Sales of household appliances	8	7 629	.3	X
6030	Natural gas transmission and storage	13	49 311	1.7	X
9000	Sales of electricity	18	19 506	.7	X
9010	Sales of natural gas	119	2 211 689	77.5	X
9810	All other operating revenue	97	417 035	14.6	X
2213	Water, sewage, & other systems	4 831	5 622 732	100.0	87.6
3750	Sales of other merchandise	40	2 287	Z	X
9030	Sales of steam or air-conditioning	83	543 602	9.7	X
9040	Sales of water	3 839	4 175 005	74.3	X
9070	Irrigation system user charges	371	120 157	2.1	X
9080	Sewer system user charges	961	685 981	12.2	X
9810	All other operating revenue	920	95 689	1.7	X
22131	Water supply & irrigation systems	4 052	4 453 835	100.0	87.5
3750	Sales of other merchandise	34	1 336	Z	X
9040	Sales of water	3 736	4 142 645	93.0	X
9070	Irrigation system user charges	367	119 947	2.7	X
9080	Sewer system user charges	265	130 432	2.9	X
9810	All other operating revenue	816	59 464	1.3	X
221310	Water supply & irrigation systems	4 052	4 453 835	100.0	87.5
3750	Sales of other merchandise	34	1 336	Z	X
9040	Sales of water	3 736	4 142 645	93.0	X
9070	Irrigation system user charges	367	119 947	2.7	X
9080	Sewer system user charges	265	130 432	2.9	X
9810	All other operating revenue	816	59 464	1.3	X
2213101	Water supply	3 721	4 347 227	100.0	87.5
3750	Sales of other merchandise	28	1 090	Z	X
9040	Sales of water	3 721	4 139 981	95.2	X
9070	Irrigation system user charges	36	19 486	.4	X
9080	Sewer system user charges	265	130 432	3.0	X
9810	All other operating revenue	762	56 238	1.3	X
2213102	Irrigation systems	331	106 608	100.0	86.1
3750	Sales of other merchandise	6	246	.2	X
9040	Sales of water	15	2 664	2.5	X
9070	Irrigation system user charges	331	100 461	94.2	X
9810	All other operating revenue	54	3 226	3.0	X
22132	Sewage treatment facilities	696	595 834	100.0	85.6
3750	Sales of other merchandise	6	951	.2	X
9040	Sales of water	101	31 882	5.4	X
9080	Sewer system user charges	696	555 549	93.2	X
9810	All other operating revenue	85	7 242	1.2	X
221320	Sewage treatment facilities	696	595 834	100.0	85.6
3750	Sales of other merchandise	6	951	.2	X
9040	Sales of water	101	31 882	5.4	X
9080	Sewer system user charges	696	555 549	93.2	X
9810	All other operating revenue	85	7 242	1.2	X
22133	Steam & air-conditioning supply	83	573 063	100.0	90.9
9030	Sales of steam or air-conditioning	83	543 602	94.9	X
9810	All other operating revenue	19	28 983	5.1	X
221330	Steam & air-conditioning supply	83	573 063	100.0	90.9
9030	Sales of steam or air-conditioning	83	543 602	94.9	X
9810	All other operating revenue	19	28 983	5.1	X

¹Revenue and revenue line percents may not add to totals due to exclusion of selected lines to avoid disclosing data for individual companies and/or due to rounding.

Appendix A.

Explanation of Terms

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.

Appendix B.

NAICS Codes, Titles, and Descriptions

22 UTILITIES

The Utilities sector comprises establishments engaged in the provision of the following utility services: electric power, natural gas, steam supply, water supply, and sewage removal. Within this sector, the specific activities associated with the utility services provided vary by utility: electric power includes generation, transmission, and distribution; natural gas includes distribution; steam supply includes provision and/or distribution; water supply includes treatment and distribution; and sewage removal includes collection, treatment, and disposal of waste through sewer systems and sewage treatment facilities.

Excluded from this sector are establishments primarily engaged in waste management services classified in Subsector 562, Waste Management and Remediation Services, which also collect, treat, and dispose of waste materials; however, they do not use sewer systems or sewage treatment facilities.

221 Utilities

Industries in the Utilities subsector provide electric power, natural gas, steam supply, water supply, and sewage removal through a permanent infrastructure of lines, mains, and pipes. Establishments are grouped together based on the utility service provided and the particular system or facilities required to perform the service.

2211 Electric Power Generation, Transmission and Distribution

This industry group comprises establishments primarily engaged in generating, transmitting, and/or distributing electric power. Establishments in this industry group may perform one or more of the following activities: (1) operate generation facilities that produce electric energy; (2) operate transmission systems that convey the electricity from the generation facility to the distribution system; and (3) operate distribution systems that convey electric power received from the generation facility or the transmission system to the final consumer.

22111 Electric Power Generation

This industry comprises establishments primarily engaged in operating electric power generation facilities. These facilities convert other forms of energy, such as water power (i.e., hydroelectric), fossil fuels, nuclear

power, and solar power, into electrical energy. The establishments in this industry produce electric energy and provide electricity to transmission systems or to electric power distribution systems.

221111 Hydroelectric Power Generation

This U.S. industry comprises establishments primarily engaged in operating hydroelectric power generation facilities. These facilities use water power to drive a turbine and produce electric energy. The electric energy produced in these establishment is provided to electric power transmission systems or to electric power distribution systems.

The data published with NAICS code 221111 are comprised of these parts of the following SIC industries:

- 4911 (pt) Electric services (hydroelectric power generation)
- 4931 (pt) Electric and other services combined (hydroelectric power generation)
- 4939 (pt) Combination utilities nec (hydroelectric power generation)

2211111 Electric Services (Hydroelectric Power Generation)

Establishments primarily engaged in generating electricity using hydroelectric process. Included are establishments that combine pump storage generation processes.

2211112 Electric and Other Services Combined (Hydroelectric Power Generation)

Establishments primarily engaged in providing hydroelectric power generation in combination with other services, with hydroelectric power generation being the major part though less than 95 percent of the total.

2211113 Other Combination Utilities (Hydroelectric Power Generation)

Establishments primarily engaged in providing combinations of services with hydroelectric power generation predominating.

221112 Fossil Fuel Electric Power Generation

This U.S. industry comprises establishments primarily engaged in operating fossil fuel powered electric power generation facilities.

These facilities use fossil fuels, such as coal, oil, or gas, in internal combustion or combustion turbine conventional steam process to produce electric energy. The electric energy produced in these establishments are provided to electric power transmission systems or to electric power distribution systems.

The data published with NAICS code 221112 is comprised of these parts of the following SIC industries:

- 4911 (pt) Electric services (electric power generation by fossil fuels)
- 4931 (pt) Electric and other services combined (electric power generation by fossil fuels)
- 4939 (pt) Combination utilities nec (electric power generation by fossil fuels)

2211121 Electric Services (Fossil Fuel Power Generation)

Establishments primarily engaged in generating electricity using fossil fuels, such as coal, gas, or oil in internal combustion or combustion turbine conventional steam processes.

2211122 Electric and Other Services Combined (Fossil Fuel Power Generation)

Establishments primarily engaged in providing power generation by fossil fuels in combination with other services, with fossil fuel power generation being the major part though less than 95 percent of the total.

2211123 Other Combination Utilities (Fossil Fuel Power Generation)

Establishments primarily engaged in providing combinations of services with fossil fuel power generation predominating.

221113 Nuclear Electric Power Generation

This U.S. industry comprises establishments primarily engaged in operating nuclear electric power generation facilities. These facilities use nuclear power to produce electric energy. The electric energy produced in these establishments are provided to electric power transmission systems or to electric power distribution systems.

The data published with NAICS code 221113 are comprised of these parts of the following SIC industries:

- 4911 (pt) Electric services (electric power generation by nuclear fuels)
- 4931 (pt) Electric and other services combined (electric power generation by nuclear fuels)
- 4939 (pt) Combination utilities nec (electric power generation by nuclear fuels)

2211131 Electric Services (Nuclear Power Generation)

Establishments primarily engaged in generating electricity using nuclear fuels.

2211132 Electric and Other Services Combined (Nuclear Power Generation)

Establishments primarily engaged in providing power generation by nuclear fuels in combination with other services, with nuclear fuel power generation being the major part though less than 95 percent of the total.

2211133 Other Combination Utilities (Nuclear Power Generation)

Establishments primarily engaged in providing combinations of services with nuclear power generation predominating.

221119 Other Electric Power Generation

This U.S. industry comprises establishments primarily engaged in operating electric power generation facilities (except hydroelectric, fossil fuel, nuclear). These facilities convert other forms of energy, such as solar, wind, or tidal power, into electrical energy. The electric energy produced in these establishment is provided to electric power transmission systems or to electric power distribution systems.

The data published with NAICS code 221119 are comprised of these parts of the following SIC industries:

- 4911 (pt) Electric services (other electric power generation)
- 4931 (pt) Electric and other services combined (other electric power generation)
- 4939 (pt) Combination utilities nec (other electric power generation)

2211191 Electric Services (Other Electric Power Generation)

Establishments primarily engaged in the generation of electric energy, not elsewhere classified.

2211192 Electric and Other Services Combined (Other Electric Power Generation)

Establishments primarily engaged in providing power generation, other than by hydro, nuclear, or fossil fuels, in combination with other services, with other power generation being the major part though less than 95 percent of the total.

2211193 Other Combination Utilities (Other Electric Power Generation)

Establishments primarily engaged in providing combinations of services with power generation by fuels other than hydro, nuclear, or fossil predominating.

22112 Electric Power Transmission, Control, and Distribution

This industry comprises establishments primarily engaged in operating electric power transmission systems, controlling (i.e., regulating voltage) the transmission of electricity, and/or distributing electricity. The transmission system includes lines and transformer stations. These establishments arrange, facilitate, or coordinate the transmission of electricity from the generating source to the distribution centers, other electric utilities, or final consumers. The distribution system consists of lines, poles, meters, and wiring that deliver the electricity to final consumers.

221121 Electric Bulk Power Transmission and Control

This U.S. industry comprises establishments primarily engaged in operating electric power transmission systems and/or controlling (i.e., regulating voltage) the transmission of electricity from the generating source to distribution centers or other electric utilities. The transmission system includes lines and transformer stations.

The data published with NAICS code 221121 are comprised of these parts of the following SIC industries:

- 4911 (pt) Electric services (electric power transmission and control)
- 4931 (pt) Electric and other services combined (electric power transmission)
- 4939 (pt) Combination utilities nec (electric power transmission)

2211211 ELECTRIC SERVICES (ELECTRIC POWER TRANSMISSION AND CONTROL)

Establishments primarily engaged in the transmission of electric power from the generating source to the distribution centers. Included are establishments that control the transmission of electric power among electric utilities.

2211212 Electric and Other Services Combined (Electric Power Transmission and Control)

Establishments primarily engaged in providing electric power transmission in combination with other services, with transmission being the major part though less than 95 percent of the total.

2211213 Other Combination Utilities (Electric Power Transmission and Control)

Establishments primarily engaged in providing combinations of services with electric power transmission predominating.

221122 Electric Power Distribution

This U.S. industry comprises electric power establishments primarily engaged in (1) operating electric power distribution systems (i.e., consisting of lines, poles,

meters, and wiring) or (2) operating as electric power brokers or agents that arrange the sale of electricity via power distribution systems operated by others.

The data published with NAICS code 221122 are comprised of these parts of the following SIC industries:

- 4911 (pt) Electric services (electric power distribution)
- 4931 (pt) Electric and other services combined (electric power distribution)
- 4939 (pt) Combination utilities nec (electric power distribution)

2211221 Electric Services (Electric Power Distribution)

Establishments engaged in the distribution of electric power to the final consumer. Included are establishments which both generate and distribute electricity.

2211222 Electric and Other Services Combined (Electric Power Distribution)

Establishments primarily engaged in providing electric power distribution in combination with other services, with electric distribution being the major part though less than 95 percent of the total.

2211223 Other Combination Utilities (Electric Power Distribution)

Establishments primarily engaged in providing combinations of services with electric power distribution predominating.

2212 Natural Gas Distribution

This industry group comprises: (1) establishments primarily engaged in operating gas distribution systems (e.g., mains, meters); (2) establishments known as gas marketers that buy gas from the well and sell it to a distribution system; (3) establishments known as gas brokers or agents that arrange the sale of gas over gas distribution systems operated by others; and (4) establishments primarily engaged in transmitting and distributing gas to final consumers.

22121 Natural Gas Distribution

This industry comprises: (1) establishments primarily engaged in operating gas distribution systems (e.g., mains, meters); (2) establishments known as gas marketers that buy gas from the well and sell it to a distribution system; (3) establishments known as gas brokers or agents that arrange the sale of gas over gas distribution systems operated by others; and (4) establishments primarily engaged in transmitting and distributing gas to final consumers.

221210 Natural Gas Distribution

This U.S. industry comprises: (1) establishments primarily engaged in operating gas distribution systems (e.g., mains, meters); (2) establishments known as gas marketers that buy gas from the well and sell it to a distribution system; (3) establishments known as gas brokers or agents that arrange the sale of gas over gas distribution systems operated by others; and (4) establishments primarily engaged in transmitting and distributing gas to final consumers.

The data published with NAICS code 221210 are comprised of these parts of the following SIC industries:

- 4923 (pt) Natural gas transmission and distribution (distribution)
- 4924 Natural gas distribution
- 4925 Mixed, manufactured, or liquefied petroleum gas production and/or distribution
- 4931 (pt) Electric and other services combined (natural gas distribution)
- 4932 Gas and other services combined (natural gas distribution)
- 4939 (pt) Combination utilities, nec (natural gas distribution)

2212101 Natural Gas Transmission and Distribution (Distribution)

Establishments primarily engaged in the distribution of natural gas to the final consumer through a system of mains and secondarily providing gas transmission services.

2212102 Natural Gas Distribution

Establishments primarily engaged in the distribution of natural gas to the final consumer through a system of mains. Included are gas marketers or brokers who buy natural gas from producers and sell to final consumers.

2212103 Mixed, Manufactured, or Liquefied Petroleum Gas Production and/or Distribution (Natural Gas Distribution)

Establishments primarily engaged in the manufacture and/or distribution of mixed, manufactured, or liquefied petroleum gas for sale, including mixtures of manufactured with natural gas.

2212104 Electric and Other Services Combined (Natural Gas Distribution)

Establishments primarily engaged in providing natural gas distribution in combination with electric services, with gas distribution being the major part though less than 95 percent of the total.

2212105 Gas and Other Services Combined (Natural Gas Distribution)

Establishments primarily engaged in providing natural gas distribution in combination with other services, with gas distribution being the major part though less than 95 percent of the total.

2212106 All Other Combination Utilities (Natural Gas Distribution)

Establishments primarily engaged in providing combinations of services with natural gas distribution predominating.

2213 Water, Sewage and Other Systems

This NAICS industry group includes establishments classified in the following NAICS industries: 22131, Water Supply and Irrigation Systems; 22132, Sewage Treatment Facilities; and 22133, Steam and Air-Conditioning Supply.

22131 Water Supply and Irrigation Systems

This industry comprises establishments primarily engaged in operating water treatment plants and/or operating water supply systems. The water supply system may include pumping stations, aqueducts, and/or distribution mains. The water may be used for drinking, irrigation, or other uses.

221310 Water Supply and Irrigation Systems

This U.S. industry comprises establishments primarily engaged in operating water treatment plants and/or operating water supply systems. The water supply system may include pumping stations, aqueducts, and/or distribution mains. The water may be used for drinking, irrigation, or other uses.

The data published with NAICS code 221310 are comprised of these parts of the following SIC industries:

- 4941 Water supply
- 4971 Irrigation systems

2213101 Water Supply (Except Irrigation)

Establishments primarily engaged in distributing water for sale for domestic, commercial, and industrial use.

2213102 Irrigation Systems

Establishments primarily engaged in operating water supply systems for the purpose of irrigation.

22132 Sewage Treatment Facilities

This industry comprises establishments primarily engaged in operating sewer systems or sewage treatment facilities that collect, treat, and dispose of waste.

221320 Sewage Treatment Facilities

This U.S. industry comprises establishments primarily engaged in operating sewer systems or sewage treatment facilities that collect, treat, and dispose of waste.

The data published with NAICS code 221320 are comprised of this part of the following SIC industry:

4952 Sewage treatment facilities

22133 Steam and Air-Conditioning Supply

This industry comprises establishments primarily engaged in providing steam, heated air, or cooled air. The steam distribution may be through mains.

221330 Steam and Air-Conditioning Supply

This U.S. industry comprises establishments primarily engaged in providing steam, heated air, or cooled air. The steam distribution may be through mains.

The data published with NAICS code 221330 are comprised of this part of the following SIC industry:

4961 Steam and air-conditioning supply

Appendix C.

Coverage and Methodology

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 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.

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.

- 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

Not applicable for this report.

Appendix E. Metropolitan Areas

Not applicable for this report.

