# Guide to the 1987 Economic Censuses and Related **Statistics**



Retail Trade

Wholesale Trade



Service Industries



**Transportation Industries** 



**Manufactures** 



Mineral Industries



Construction Industries



U.S. Department of Commerce BUREAU OF THE CENSUS

#### **ACKNOWLEDGMENTS**

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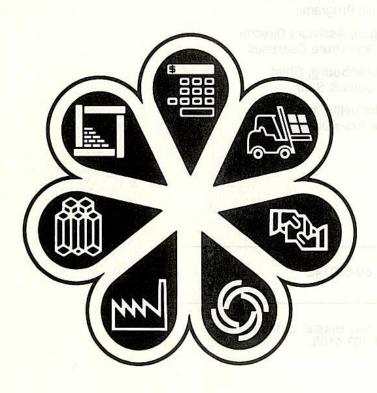
Technical review and consultation were provided by various Census Bureau staff members concerned with economic censuses and surveys. The staff of Publication Services Division, **Walter C. Odom**, Chief, performed publication design, composition, and printing planning. **Christine R. Nelson** provided publication coordination and editing.

Statistics shown in many of the sample tables in this document were developed for illustrative purposes prior to the completion of the corresponding reports. They should not be construed as actual results of the 1987 Economic Censuses.

# Guide to the 1987

Economic Censuses and Related Statistics

EC87-R-2



Issued January 1990



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Library of Congress Card No. 89-600742

Distributed by Customer Services, Bureau of the Census, Washington, DC 20233. (301) 763-4100.

What's New for 1987? — See p. 23

Expanded coverage — SIC changes

New metropolitan definitions

ZIP Code statistics — CD-ROM

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# General 1 Information

#### INTRODUCTION

#### **Economic Censuses**

The economic censuses provide statistics about business establishments once every 5 years, covering years ending in "2" and "7." The 1987 Economic Censuses, collected in early 1988 to cover economic activity during calendar year 1987, include the

- · Census of Retail Trade
- · Census of Wholesale Trade
- · Census of Service Industries
- · Census of Transportation
- · Census of Manufactures
- · Census of Mineral Industries
- Census of Construction Industries

and several related programs, including statistics on minorityand women-owned businesses, enterprise statistics, and censuses of economic activity in Puerto Rico and other outlying areas under U.S. jurisdiction. (There are also concurrent censuses of agriculture and governments, but they are not considered part of the economic censuses.)

#### **Economic Surveys**

While the economic censuses provide complete enumerations once every 5 years, many applications require more frequent data. The Census Bureau has a number of programs for providing current statistics on such measures as total sales of particular kinds of businesses or production of particular products. These programs include monthly, quarterly, and annual surveys, the results of which appear in publication series such as

- Current Business Reports
- Annual Survey of Manufactures
- Current Industrial Reports
- Quarterly Financial Reports

While not technically a survey, the County Business Patterns (CBP) program offers annual statistics based on data compiled primarily from administrative records of the Federal Government.

#### **Comparison of Censuses and Surveys**

The censuses present a complete, detailed picture of the economic sectors they cover, from the national down to the local level. By comparison, current surveys generally have much less geographic and other detail. Key survey items generally are published only for the United States as a whole. Because they are taken more often, the current surveys provide the frequent reference points needed to analyze national trends and business cycles.

#### **HOW ECONOMIC STATISTICS ARE USED**

The economic censuses and surveys constitute the major body of facts about the structure and functioning of the Nation's economy. They provide information that is essential to government, business, industry, academia, and the general public.

#### For Government

- Federal agencies that produce composite statistics, such as the gross national product and indexes of productivity or price levels, depend on the economic censuses and surveys for many of the basic numbers that go into their formulas.
- Federal and State agencies monitor trends that could portend economic dislocations, for example, shortages of water, fuel or strategic materials.
- Government agencies look to economic census data to help them gauge the effectiveness of government programs, as in trade policies, contracting guidelines for minority business, and job retraining to staff changing industries.
- States and communities use census data to better understand their own economic base and to attract new investment.

#### For Individual Businesses

- Business firms compare their own company statistics with census figures for their industry or area to—
  - Compute market share
  - Evaluate their own growth
  - Evaluate product lines relative to the competition

- Firms that make or sell products used by other businesses use census data to identify their markets, and apply this information to—
  - Lay out sales territories
  - Allocate funds for advertising
  - Locate plants, warehouses, or stores
  - Make sales forecasts
- Manufacturers and distributors use census data to pinpoint the location of retailers, wholesalers, contractors, and others who may redistribute their products.
- Small businesses use census data describing their markets or their industry to enhance their business-opportunity presentations to bank officers or venture capitalists when they seek financing.

#### For Associations and Media That Serve Businesses

- Trade associations alert their members to statistical trends affecting their industry, such as changes in domestic production relative to imports.
- Trade associations use census statistics to adjust the results of their own surveys to be more representative.
- Trade associations use figures on the number of companies and employment in their industries to set targets for recruiting new members.
- Business magazines republish selected statistics from the censuses and use them as background for articles.
- Local newspapers use census statistics for stories about economic trends in their communities.

#### For Colleges and Universities

- Professors use census data in teaching marketing and business management.
- Researchers apply the data in their study of long-term economic and environmental trends.
- Many universities run small-business development centers that provide assistance to individual business people, in many cases using data from these censuses and surveys.

#### For Individuals

- People evaluate new business opportunities and investments by looking at the characteristics and trends within the target industry, competing industries, and the market before making further investment.
- Professionals and students facing career choices evaluate the characteristics and well-being of different industries.

Specific examples of the many and varied uses of these data are featured throughout this guide.

### SCOPE AND CONTENT OF THE ECONOMIC CENSUSES

Figure 1 below portrays the major sectors of the economy and their relative contribution to the gross national product (GNP). It also shows that, while the economic censuses cover most of the economy, they do not cover all of it. Figure 3 in chapter 2 further defines the coverage of both census and current programs in terms of the Standard Industrial Classification (SIC) system.

Figure 1. Coverage of the 1987 Economic Censuses

[In terms of contribution to the 1987 GNP]

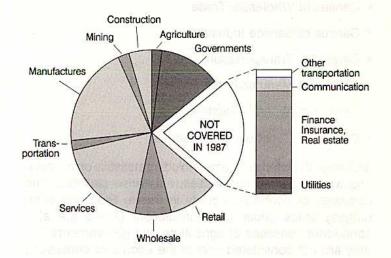


Figure 2 summarizes the specific data items collected and published in the basic economic censuses. Corresponding charts in chapter 5 focus on each sector and tell which report series, whether census or current, include the specific statistics.

In planning the items to be collected in the economic censuses and surveys, the Census Bureau consults with trade, business, and professional associations; individual business firms; unions; census advisory committees; and other government agencies. The Office of Management and Budget (OMB) of the Executive Office of the President reviews the plans to make certain that the information to be collected is not available from other sources. The Business Council on the Reduction of Paperwork, comprised of representatives of each major field of business activity, verifies that the data requested are necessary and available from company records. Congressional committees also participate in the review process.

#### Figure 2. Major Data Items Published in Economic Census and Related Reports, by Geographic Level

(Legend: • —All levels (U.S., States, substate areas except ZIP Codes). M—MSA's, States, and national. N—National only. S—State and national. Z—ZIP Codes and States.)

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Item	Retail Trade	Whole- sale Trade	Service Industries	Transpor- tation	Manufac- tures	Mineral Industries	Construc- tion Industries	Enter- prise Sta- tistics	Minority- Owned Businesses	County Business Patterns
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<sup>&</sup>lt;sup>2</sup>Size of company. <sup>3</sup>State and metropolitan statistical area data available only in computerized media. areas. <sup>5</sup>For selected industries only. <sup>1</sup>No MSA summaries. and metropolitan statistical areas.

<sup>4</sup>Selected States

#### **HOW THE DATA ARE COLLECTED**

#### **Economic Censuses**

The 1987 Economic Censuses encompass approximately 12.4 million establishments (see chapter 2 for definitions). Information was collected using a combination of mail questionnaires and data from the administrative records of other government agencies.

Questionnaires were mailed to 3.9 million establishments in December of 1987, with a due date for return of February 15, 1988. In general, forms were sent to all larger firms and, in sectors where small businesses are found in large numbers (retail, services, and construction), to a sample of smaller firms. The dividing line between "larger" and "smaller" firms averaged around 4 employees, but actually varied from industry to industry, designed so that questionnaires typically cover 90 percent or more of the business activity (in terms of employment, payroll, sales) in each industry. The Census Bureau selects firms and mails questionnaires based on a master list of businesses kept up to date with information from tax and other Federal administrative records.

Over 500 different report forms were used in the 1987 censuses, each tailored to a particular industry or group of industries. Each form asked general questions about the type of business or industrial activity, location, type of ownership, number of employees, amount of payroll, and dollar volume of business during calendar year 1987. More specific inquiries, as listed in figure 2, varied from form to form based on user requirements and record-keeping practices in each industry.

Firms with more than one business location received a separate form for each establishment, though all forms were sent to the company headquarters.

Limited information for 8.5 million small businesses, with or without paid employees, was obtained from the administrative records of the Internal Revenue Service and the Social Security Administration. These provide basic datatotal receipts, total payroll, and total employment-needed to produce statistics for individual geographic areas and types of businesses. In this way, the Census Bureau relieved 69 percent of all covered businesses from filling out a census form, even though these small firms collectively account for less than 10 percent of business activity in dollar terms. Data from administrative records are processed and merged with the census questionnaire data, and tabulations used in the census publication program are prepared from these combined files. (For specific details about census procedures, see the introductory text and appendixes that appear in the published reports, or see the Census Bureau's official history of each census (see p. 111).)

#### **Current Economic Surveys**

Each current economic survey covers a particular year, quarter, or month. As with the censuses, data collection can begin only after the period ends, since most of the inquiries refer to sales or expenditures during that period. The number of establishments or companies included in each survey ranges from fewer than 20 for some industrial surveys to about 55,000 establishments for the Annual Survey of Manufactures. To spread the reporting burden, most samples are reselected every 5 years. Even with resampling, very large companies may remain in the sample continuously.

Many monthly and quarterly survey results are adjusted for seasonality. Reports based on sample surveys generally include measures of sampling variability and, where applicable, seasonal adjustment factors.

Virtually all direct data collection, whether in the censuses or surveys, is accomplished by mail. Telephone followup is used only when a company's reports are long overdue. Some large companies, needing to file reports for many establishments in the censuses, send their information to the Census Bureau on computer tape or diskette.

#### **Legal Authority**

While not all establishments may be sent a questionnaire, title 13 of the United States Code requires that firms receiving the census forms complete and return them. Most annual surveys are also mandatory; on the other hand, most monthly and quarterly surveys are voluntary.

Title 13 also requires the Census Bureau to keep information about individual companies confidential. No data may be published that can be used to identify an individual or firm (see "Disclosure Analysis," p. 17), nor may the data furnished be used for any but statistical purposes. Only sworn officials or employees of the Census Bureau may have access to the individual report forms. Neither the census and survey returns nor file copies retained by respondents can be used for purposes of taxation, investigation, or regulation.

### HOW ECONOMIC CENSUSES RELATE TO CURRENT ECONOMIC SURVEYS

Most of Census Bureau's economic statistical programs are closely integrated.

- To the extent possible, the concepts, definitions, classifications, and reporting units are consistent among the censuses, surveys, and related programs.
- The census results supply the sample frames, benchmark statistics, and list of establishments and firms for the surveys taken more frequently.
- Survey results can be reconciled with those from the census and vice versa.

A few economic statistical programs are related more loosely to the core censuses and surveys. The Truck Inventory and Use Survey, conducted under the auspices of the census of transportation, is actually a survey of truck

owners, not business establishments. The Quarterly Financial Report, while not part of the integrated program, surveys corporations in several sectors-manufacturing, mining, and retail and wholesale trade—that are covered extensively in the censuses.

Statistics on exports and imports are an important complement to economic census data on domestic production. The Census Bureau's foreign trade data are virtually a monthly census of merchandise trade shipments, based on U.S. customs documents, and yield closely followed figures on the merchandise trade balance.

Since 1982, the agriculture census has been taken coincident with the economic censuses, covering years ending in "2" and "7." This permits the study of agricultural goods in production (farming), processing (manufacture) and distribution (wholesale and retail trade) for the same time period. Similarly, information on agricultural supplies and equipment can be linked from one sector to another.

The census of governments, also taken in the same years as the economic censuses, and governmental surveys cover another significant part of the economy. Governments at all levels purchase goods and services, employ consumers, and invest in capital equipment and construction.

Complementing these economic programs are "demographic" programs, including the census of population and housing, taken every 10 years in years ending in "0," and related surveys and estimates programs. These demographic statistics provide the denominators necessary for calculating per-capita figures (such as retail sales per capita), and the characteristics of people who work in the various industries. Even more important for the many businesses marketing consumer goods, they provide information on the consumer marketplace in terms of both characteristics and geographic distribution.

#### HISTORICAL NOTES

The economic censuses have been taken together as an integrated program at 5-year intervals since 1967, and before that for 1963, 1958, and 1954. Prior to 1954, the individual censuses were taken separately at varying intervals.

The economic censuses trace their beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for 1840 and subsequent censuses to include mining and some commerce. When Congress established a permanent Census Bureau in 1902, it also directed that a census of manufactures be taken every 5 years. The 1905 manufactures census marked the first time a census was taken apart from the regular 10-year population census.

The first census of business was taken in 1930, with a reference year of 1929. Initially covering retail and wholesale trade, the census was broadened in 1933 to include some of the service industries.

The 1954 Economic Censuses were the first to be fully integrated and to provide comparable census data across economic sectors, using consistent time periods, concepts, definitions, classifications, and reporting units. These were also the first economic censuses to be taken entirely by mail, using lists of firms provided from 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 has continued to expand. The census of construction industries began on a regular basis in 1967, and the scope of service industries was broadened successively in 1967, 1977, and 1987 and is slated for further expansion for 1992. The census of transportation began in 1963 as a set of surveys covering travel, transportation of commodities, and trucks. New for 1987 are publications reporting on business establishments engaged in several transportation industries, paralleling the data on establishments in other sectors. This is part of a gradual expansion in coverage of industries previously subjected to government regulation.

Economic censuses have been taken in Puerto Rico since 1909, the Virgin Islands and Guam since 1958, and the Northern Mariana Islands since 1982.

Statistical reports from the 1982 and earlier censuses provide historical figures for the study of long-term time series, and are on file in many large libraries throughout the United States. All of the census and survey data published since 1967 are still available for sale on microfiche from the Census Bureau.

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# The Classification **System**

#### ESTABLISHMENT/COMPANY CLASSIFICATION

The core data from the economic censuses and surveys are collected and published in terms of "establishments"; for example, the sales of sporting goods stores in Cleveland, the production of fertilizer plants in Florida, or the employment in electronic repair shops. An establishment, as defined for census and survey purposes, is a business or industrial unit at a single geographic location that produces or distributes goods or performs services, for example, a single store or factory.

A few census statistics, and some other Federal statistics, are summarized in terms of "companies" or "firms." A company or firm is an organization consisting of one or more establishments under common ownership or control. If a company owns or controls other companies, all of the subsidiaries' establishments are considered part of the owning or controlling company. (On the other hand, establishments operated under franchises are not considered to be owned or controlled by the firm granting the franchise.) After the establishment data have been summarized and published, the Census Bureau regroups establishments under common ownership or control to show characteristics of the owning or controlling companies. (See "Enterprise Statistics," p. 76).

Because different establishments within the same company can be located in different geographic areas or be engaged in different kinds of business, the Census Bureau obtains separate reports for each establishment. This yields more precise information than if the company were simply to file a single report.

When more than one economic activity is conducted at a single location, each activity under separate ownership is regarded as a separate establishment. Thus a leased department within a department store is classified as a separate establishment.

Establishments functioning primarily to manage, service, or support the activities of their companies' operating establishments (for example, separate administrative offices or warehouses) are identified as auxiliaries, and statistics are published in a separate report (see "Auxiliary Establishments," p. 76). Statistics for auxiliaries of manufacturing and construction companies are also shown in selected reports in the appropriate censuses.

Users frequently need data by product line. Unfortunately, most of the statistics collected in the economic censuses, such as employment or capital expenditures, are associated with a particular establishment but cannot generally be reported by product line. Thus, only a few

specialized data series, like merchandise line sales in the census of retail trade or product tables in the manufactures census reports, present statistics by product line. Most of the basic census statistics reflect the classification of establishments, not companies or products.

#### THE STANDARD INDUSTRIAL CLASSIFICATION SYSTEM

Most economic data are tabulated on the basis of the Standard Industrial Classification (SIC) system, as defined under the auspices of the Office of Management and Budget (OMB). The SIC system is used to classify establishments by the type of activity in which they are engaged.

The SIC system covers the entire field of economic activity. It is a hierarchical system, which at its broadest level divides the Nation's economy into 10 divisions, listed in figure 3 below and illustrated in figure 1 in the last chapter. Each division is subdivided into two-digit major groups, three-digit industry groups, and four-digit industries. For example:

SIC level		Example
Division		Manufacturing
Major industry group	35	Industrial machinery and equipment
Industry group	357	Computer and office equipment
Industry	3572	Computer storage devices

This hierarchic structure allows data to be presented at whatever level of industry detail is appropriate. For example, if the publication of information about SIC 3572 within a particular State must be withheld to avoid disclosing information about a particular company, data can still be published for the broader industry group SIC 357.

A complete list of the SIC's covered in the censuses appears as appendix A. The more definitive reference is the Standard Industrial Classification Manual: 1987 (see p. 106). The SIC Manual defines each industry, lists the subindustries or alternate names that are associated with it, and presents a comprehensive index, which can be quite useful in locating desired data.

#### OTHER CLASSIFICATION SYSTEMS

In some cases, more detailed classifications have been devised for census purposes, so that additional activities, kinds of business, or specific products can be identified within a single SIC category. For instance, the census of wholesale trade further classifies each establishment by type of operation (merchant wholesalers, agents and brokers, and manufacturers' sales branches and offices).

The census of manufactures classifies manufactured products into about 1,500 five-digit product classes and about 11,000 seven-digit products, in a manner generally consistent with the SIC system. For example, related to the computer storage devices industry (SIC 3572) are product classifications such as-

Product class 35721 Computer storage equipment, auxiliary Product 35721 27 Flexible magnetic disk drives, less than 5 1/4

A similar product structure is used in the census of mineral industries. For export and import statistics (see p. 87), commodities are classified, starting in 1989, according to a new "harmonized system" used by most other major trading countries, with six-digit commodity codes extended to eight digits for exports and ten digits for imports. While there are more separate commodity classifications in foreign trade statistics than product codes in the censuses, the two classification systems are not always compatible.

For the censuses of retail trade and wholesale trade. there is classification of product lines sold. The categories are much broader than those defined in the census of manufactures, and many merchandise lines do not correspond directly to SIC categories.

While the SIC system governs the classification of establishments, the Census Bureau has developed an Enterprise Industrial Classification system for companies. A separate company-classification system is necessary because a high percentage of the establishments in many four-digit industries is operated by firms primarily engaged in other industries. The Enterprise Industrial Classification is used for the Enterprise Statistics program (see p. 76) and the Quarterly Financial Report (see p. 85).

#### SIC COVERAGE OF THE CENSUSES AND **CURRENT PROGRAMS**

The Census Bureau's program of economic statistics covers most but not all sectors of the economy. Figure 3 shows that economic and related censuses do not cover agricultural services, forestry and fisheries, communications, utilities, finance, insurance, most of real estate, and parts of transportation. A few individual SIC categories are not included in the censuses because private organizations or other Federal agencies already collect the necessary statistics. For example, elementary and secondary schools (SIC 821) are adequately covered by the U.S. Department of Education. In the transportation area, census coverage is gradually expanding, in part because the reduction in Federal regulation of that sector has left data users without the statistics that formerly were collected by regulatory agencies.

The economic censuses cover about 60 percent of the national economy measured in terms of gross national product (GNP) (see fig. 1, p. 2) or about 75 percent in terms

of employment. When considered together with the censuses of agriculture and governments, which are organized somewhat differently, coverage expands to about 75 percent of GNP and over 85 percent of employment. The 1992 Economic Censuses will be expanded substantially to include virtually all of the remaining areas.

Figure 3 also shows that County Business Patterns includes many of the industrial sectors not covered by the censuses. Other current programs touch most sectors, although only for retail and wholesale trade, services, and manufactures are there comprehensive surveys fully integrated with the corresponding censuses.

#### **COVERAGE OF NONEMPLOYERS**

Another limitation to the coverage of the economic censuses and current programs is that most of the statistics apply only to establishments with payroll, i.e., they omit nonemployers—small, single-establishment companies with no paid employees-what are sometimes called "mom and pop" businesses. This limitation is a practical one. since the censuses are conducted by mail and the best records for developing the mailing list of businesses come from the Federal payroll-tax (social security) system. To gauge the number and sales of the nonemployer businesses, i.e., those not covered by payroll tax records, the Census Bureau obtains sales figures from business income tax returns from the Internal Revenue Service. For two sectors-retail trade and services-the Census Bureau publishes limited data in separate reports on nonemployers. For the construction sector, geographic area reports include separate tables for nonemployers.

In 1982, nonemployer establishments accounted for 3 percent of all retail sales, over 7 percent of service receipts, and about 10 percent of construction receipts. Statistics on manufactures and mining are not much affected by the exclusion of nonemployer establishments.

#### A LIMITATION OF SIC-BASED DATA

Some establishments engage in more than one kind of activity and, thus, may not fit neatly into a single SIC category. Nonetheless, each establishment is classified into only one SIC on the basis of its primary activity. Its secondary activities are still counted, e.g., toward total sales, but they do not generally affect the classification. For instance, the total sales of furniture retailers (SIC 5712) in a given area should not be interpreted as the total sales of furniture. Stores in that SIC may sell other items in addition to furniture, and other kinds of businesses, such as department stores (SIC 5311), also sell furniture. This is an inevitable limitation of the establishment basis of classification.

Despite its limitations, there are major advantages to the use of the SIC system. Its widespread use, inside and outside the government, promotes uniformity and comparability in the presentation of statistics collected by various Federal and State agencies, trade associations, and private research organizations.

Figure 3. SIC Coverage in 1987 Census and Survey Programs

SIC range	Economic sector	Census	Survey
01-02,07-09	Agriculture, forestry and fishing	Agriculture, 01 and 02 only (not reported by SIC; also excludes agricultural services, forestry, and fisheries)	Cotton Ginnings, 0724 only County Business Patterns, 07-09
10-14	Mining	Mineral Industries	Current Industrial Reports, 13 only County Business Patterns Quarterly Financial Report
15-17	Construction	Construction Industries	Current Construction Reports deal with building material and housing characteristics County Business Patterns
20-38	Manufacturing	Manufactures	Annual Survey of Manufactures Current Industrial Reports (selected products) County Business Patterns Quarterly Financial Report
40-49	Transportation, communication, utilities	Transportation, 42, 44, and 47 only (excludes rail, air, highway passenger transportation, U.S. Postal Service, pipelines, communication, and utilities)	County Business Patterns, except U.S. Postal Service, 43 County Business Reports, 42 only
50-51	Wholesale Trade	Wholesale Trade	Current Business Reports County Business Reports Quarterly Financial Report
52-59	Retail Trade	Retail Trade	Current Business Reports County Business Patterns Quarterly Financial Report
60-67	Finance, insurance, real estate	Not covered, except 6552, land subdividers and developers, which are in the census of construction industries	County Business Patterns
70-89	Services	Service Industries, except elementary and secondary schools; colleges, universities, professional schools, and junior colleges; labor unions and similar labor organizations; political organizations; religious organizations; private households	Current Business Reports, except selected educational and social services; musems, art galleries, and botanical and zoological gardens; membership organizations; private households; and services, not elsewhere classified County Business Patterns, except private households
91-97	Public administration	Governments, but not by SIC	Governments (parts covered, but not by SIC)
99	Nonclassifiable	Not covered	Not covered

#### **CHANGES IN THE SIC SYSTEM FOR 1987**

The SIC system has been used as the basis for industry classification in the economic censuses since it was first established in 1945. In the years that have followed, there have been some significant changes in the structure of the economy, and at various times, most recently 1972 and 1987, revisions were introduced. For example, the three computer-related services industry categories (old SIC's 7372, 7374, and 7379) have been subdivided for 1987 into nine new SIC's. In other areas, some differentiations have been dropped. For instance, the manufacture of buttons is now grouped with zippers and other fasteners. All in all, the 1987 revisions affect about one-quarter of all four-digit

industries, and have resulted in a net increase of 19 industries for the service sector, 8 for wholesale trade, and 7 for manufacturing. This was compensated by a net decrease of 34 for the other SIC divisions.

The introduction of changes to the SIC system affects the comparability of data among the 1987 and earlier censuses. For this reason, the 1987 census reports include certain tables to help define the impact of those changes and create a bridge to the earlier classifications. Chapter 7 discusses the use of these statistics and also shows features in the SIC Manual that highlight the changes. Fortunately, most SIC categories have remained quite comparable between the 1982 and 1987 censuses.



# Geographic **Area Detail**

#### INTRODUCTION

The 1987 Economic Censuses present statistics for the Nation, States, metropolitan areas, counties, places, and ZIP Codes, but that coverage varies among the censuses. The greatest variety of statistics and the most detailed classifications usually are published at the national level. There are fewer statistics and less detailed classifications for States, and fewer still for smaller areas, to avoid disclosing information about individual firms and to reduce publishing costs.

By comparison, most current economic surveys provide very little geographic detail. The retail trade survey publishes data for only the largest States and metropolitan areas. The Annual Survey of Manufactures publishes State data, but only a few of the Current Industrial Reports have State data. Among the current programs, only those based on governmental administrative records-County Business Patterns and current construction reports-provide information for counties or places.

Figure 5 (see p. 12) shows the types of geographic areas for which data are available from those economic census and survey programs with subnational geography.

The reference date for the geographic definition of cities and counties in the economic censuses is January 1, 1987; for metropolitan areas the cutoff was June 30, 1987. Therefore, if a place or metropolitan area has changed boundaries since those dates, those changes are not reflected in census tabulations. Geographic comparability between 1982 and 1987 is discussed in chapter 7, pages 109-110.

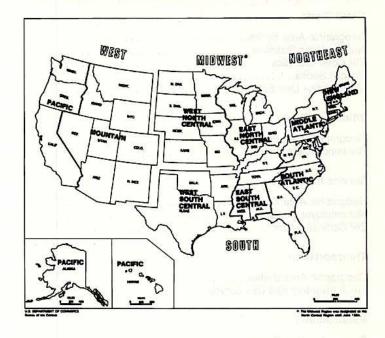
A geographic reference manual lists all areas covered in the censuses, along with the codes used on computerized products, and is discussed on page 107.

#### DEFINITIONS OF GEOGRAPHIC CONCEPTS

#### Regions/Divisions

The Census Bureau groups the 50 States and the District of Columbia into four census geographic regions and nine census divisions, as shown in figure 4. A few current surveys show data for regions and divisions. While no economic census statistics are published for these areas, geographic area reports for construction and mineral industries group the States by division for publication, and nonemployer statistics for retail trade and services are grouped into reports by region.

Figure 4. Census Regions and Geographic **Divisions of the United States** 



#### States

Statistics for each of the 50 States and the District of Columbia are reported in the economic censuses and a few of the current programs. (Statistics for Puerto Rico, the U.S. Virgin Islands, Guam, and the Northern Mariana Islands are published only in the separate 1987 Economic Censuses of Outlying Areas, and are not included in any United States totals.)

#### Counties

Counties and their equivalents, 3,141 in all, are the primary political and administrative divisions of States. These areas are called parishes in Louisiana. In Alaska, 23 boroughs and "census areas" are treated as county equivalents for census purposes. Kalawao County, HI, is combined with Maui County for statistical purposes. Several cities (Baltimore, MD; St. Louis, MO; Carson City, NV; and 41 cities in Virginia) are independent of any county organization and, because they constitute primary divisions of their States, are accorded the same treatment as counties in census tabulations. Independent cities are identified with the symbol (IC) in county tables.

### Figure 5. Geographic Area Detail for the Economic Census and Survey Reports With Subnational Focus

[Legend: • —Data are available for all areas. a—Only limited detail is available for areas with fewer than 350 retail establishments with employees. b—Only limited detail is available for areas with fewer than 200 wholesale establishments. c—Only 15 States and 15 MSA's are shown, see p. 36. d—Only limited detail is available for areas with fewer than 350 service establishments with employees. e—Shows industries with 150 or more manufacturing employees. g—Shows areas with 450 or more manufacturing employees, and within those areas, industries with 950 or more manufacturing employees. h—Shows industries with 100 or more employees. i—MSA's with 500,000 or more inhabitants in 1980, see app. B. j—Shows areas with 100 or more firms owned by members of group. k—Only 19 States, 28 MSA's, and 4 cities, see p. 30. I—Selected reports only, see p. 59. m—Only 40 selected MSA's, CMSA's, and PMSA's, see app. B. n—Approximately 17,000 permit-issuing places in annual report, 4,700 monthly. o—Special tabulation required, see p. 83]

Program almanagous bine analogati susmoo is	States	MSA'S, CMSA'S, and PMSA'S <sup>1</sup>	Counties	Places <sup>2</sup>	ZIP Codes
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Women-Owned Businesses	· Cour	RTGROW	DO SHERAIS	1930 30 (	
CURRENT ECONOMIC SURVEYS					
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Current Industrial Reports		Danie agastic	Of set equi	Due ing	
Housing Units Authorized by Building Permits	CALL IS TO	per sida m	in contract di	A CHAIRE MAN	
County Business Patterns	INTERNAL INTERNAL	S & stable	m rayoda aa.	andawis reur	o many many
Foreign Trade: Exports	io line Let	Christens M.	THE STREET IS	ABID YOFE'S	TOTAL BUTTON

<sup>&</sup>lt;sup>1</sup>Metropolitan statistical areas, consolidated metropolitan statistical areas, and primary metropolitan statistical areas. <sup>2</sup>Cities and other incorporated places with 1980 census population of 2,500+. Also included are towns in 6 New England States and townships and in New Jersey and Pennsylvania with 1980 census population of 10,000+.

#### Metropolitan Statistical Areas (MSA's)

An MSA is an integrated economic and social unit with a recognized population nucleus. Generally, each MSA consists of one or more entire counties that meet specified standards pertaining to population, commuting patterns, and metropolitan character. In New England, towns and cities, rather than counties, are the basic geographic units for defining MSA's. MSA's are defined under the auspices of the U.S. Office of Management and Budget (OMB).

The MSA concept represents a revision to what were previously known as standard metropolitan statistical areas (SMSA's), a change that went into effect in 1983, after the reference date for the 1982 Economic Censuses. About one third of all MSA's changed boundaries, largely reflecting changes in commuting patterns as shown in the 1980 population census. All MSA's are listed in appendix B, and those that changed since the 1982 Economic Censuses are denoted with an asterisk.

#### Consolidated Metropolitan Statistical Areas (CMSA's) and Primary Metropolitan Statistical Areas (PMSA's)

Prior to their final definition in 1983, MSA's with a million or more people were given the option to be subdivided (for statistical purposes) into two or more primary MSA's (PMSA's), in which case the MSA became known as a consolidated MSA (CMSA). Twenty metropolitan areas opted for this two-tiered definition, and were subdivided into 71 PMSA's. The CMSA concept replaces what were called standard consolidated statistical areas (SCSA's) in the 1982 censuses.

In statistical tables, data for the MSA's and CMSA's are intermingled in alphabetic sequence, with the PMSA's presented alphabetically under their parent CMSA's.

Figure 6 shows the 20 CMSA's, 71 PMSA's, and 261 freestanding MSA's in the Nation as of the reference date for the 1987 censuses. For a list of the counties that comprise each MSA, CMSA, and PMSA, refer to an appendix in a census report with metropolitan area data, or to the Geographic Reference Manual (see p. 107).

#### **Incorporated Places**

The 1987 Economic Censuses provide information for legally defined, incorporated municipalities (cities, towns, villages, and boroughs) with 2,500 or more inhabitants as of the 1980 population census (or as of a more recent special census where available). Hawaii does not have incorporated places that are recognized for census purposes, so data there are provided for census designated places (CDP's) with 2,500 or more inhabitants. All told, data are presented for 6,362 places in the United States.

#### Selected Towns and Townships

Some county subdivisions, such as towns and townships, are not classified as incorporated places for census purposes. Statistics are presented in the 1987 Economic Censuses for towns in the six New England States and townships in New Jersey and Pennsylvania with a 1980 census population of 10,000 or more. Data for these 432 towns and townships are presented in the same tables as places.

#### **ZIP Codes**

ZIP Codes are administrative entities of the U.S. Postal Service. Limited statistics are summarized for individual five-digit ZIP Codes in the censuses of retail trade, service industries, and manufactures. These statistics are generally limited to a count of the establishments in each industry or kind of business, further classified by size. In addition, statistics on employment, payrolls, and sales or receipts are presented for the total of all retail and service businesses within a ZIP Code, not by kind of business. ZIP Codes generally do not coincide with the Census Bureau's geographic or political areas, and they change according to postal requirements. Most ZIP Codes do not have specific boundaries, and their implied boundaries do not necessarily follow clearly identifiable physical features. At the time of the 1987 Economic Censuses, there were about 30,000 ZIP Codes with business establishments.

#### The Outlying Areas

The 1987 Economic Censuses of Outlying Areas provide data for-

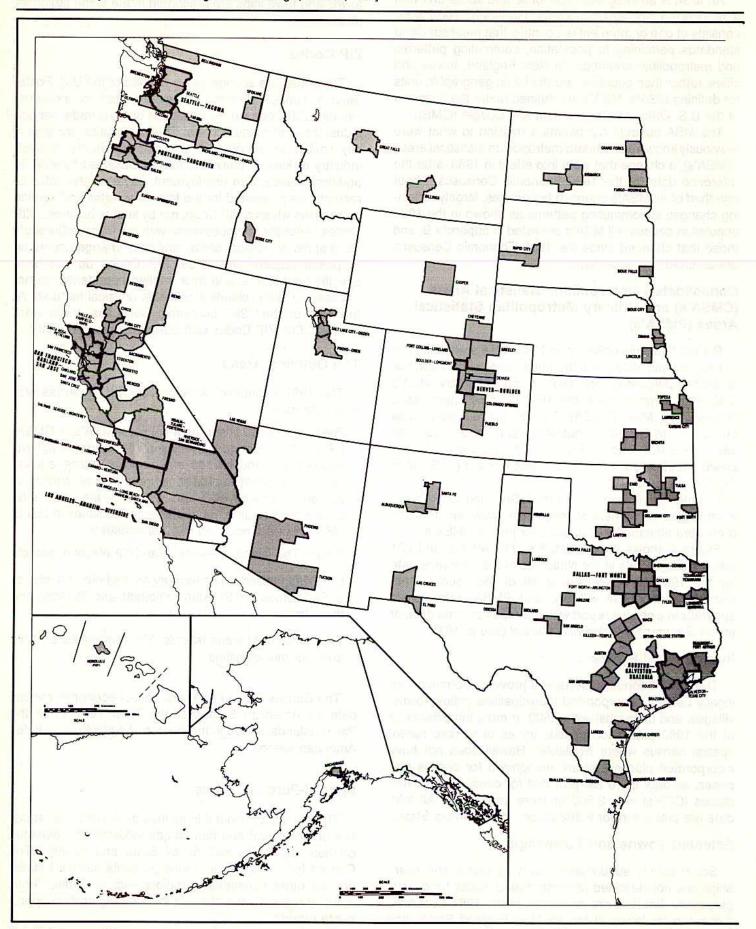
- · Puerto Rico: The island as a whole, 4 MSA's, 1 CMSA, 2 PMSA's, 9 commercial regions, 78 municipios (county equivalents), and barrios and pueblos (place equivalents). The commercial regions are groups of municipios that collectively cover Puerto Rico. They are used in the censuses of retail trade and service industries in lieu of MSA's, but are not used in other censuses.
- · Guam: The island as a whole and 19 election districts
- · U.S. Virgin Islands: The territory as a whole; the islands of St. Thomas and St. John combined, and St. Croix; and three towns
- · The Northern Mariana Islands: The territory as a whole and four municipalities

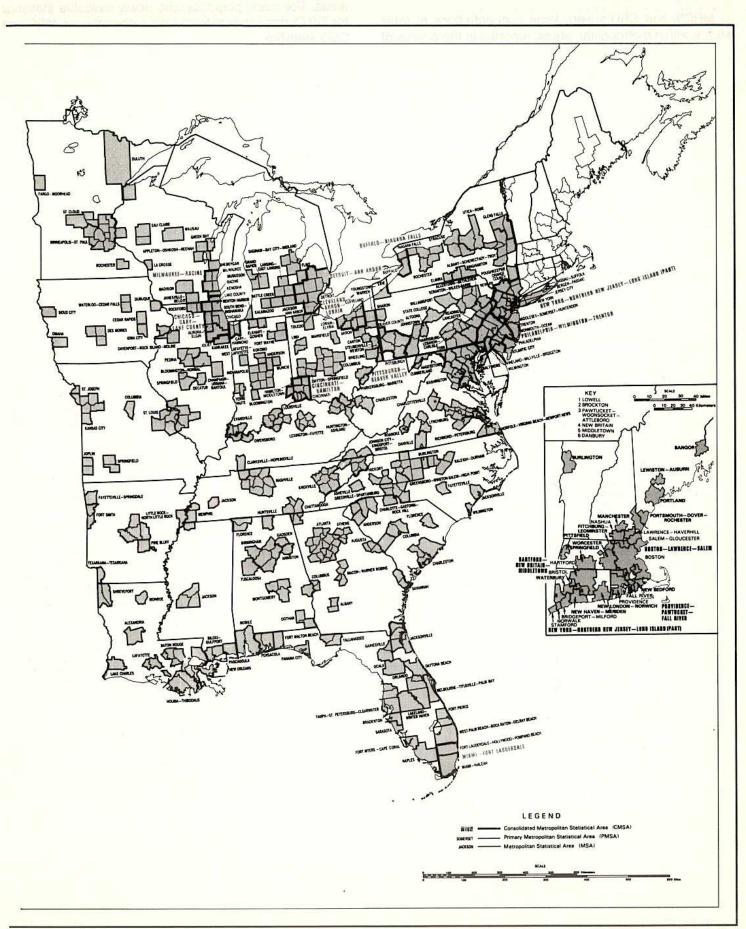
The Census Bureau does not collect economic census data for American Samoa or the Trust Territory of the Pacific Islands, although the census of agriculture includes American Samoa.

#### Special-Purpose Areas

The census of mineral industries presents some statistics on petroleum and natural gas industries for selected offshore areas (as well as by State and county). The Current Industrial Report series presents selected statistics for other nonstandard regions-for example, "brick industry regions" and "lumber industry regions" in appropriate reports.

Figure 6. Metropolitan Statistical Areas (CMSA's, PMSA's and MSA's) [Areas defined by U.S. Office of Management and Budget, June 30, 1987]





#### Major Retail Centers (MRC's) and Central **Business Districts (CBD's)**

MRC's and CBD's were large concentrations of retail stores within metropolitan areas, reported in the census of retail trade from 1948 to 1982. This series of reports was discontinued because of the high cost of defining the areas. For many purposes, the newly available statistics for ZIP Codes can substitute for the discontinued MRC and CBD statistics.



# **Publication of** the Data

#### INTRODUCTION

Economic census and survey data are published in several forms, some designed to be read by eye-printed reports and microfiche-and others by computer-tapes, CD-ROM (compact discs with read-only memory), flexible diskettes, and online. The data presented in these various media are essentially the same, differing only in coverage. Some very large data sets appear only on tape and CD-ROM, while most survey reports and certain, more specialized census tabulations are issued only in print. Ordering information for all of these products is presented in chapter 7.

#### **Disclosure Analysis**

To preserve the confidentiality of economic census and survey information, the Census Bureau makes certain that no individual firm's operations can be identified in published statistics by direct observation, by subtraction of data within a table, or by comparing totals and subtotals across several tables. This is done through a process called "disclosure analysis" in which the data are examined both by computer programs and by census analysts with extensive knowledge of each industry.

Disclosure analysis identifies data cells where a very small number of firms are dominant-i.e., they account for all or a major portion of the sales or other reported activity in the industry or kind of business, geographic area, or other category for which data are shown. When such situations are found, the data are withheld from publication—suppressed—or in some cases grouped into higherlevel aggregates. Frequently, when numbers have been suppressed, it also is necessary to withhold additional data so that the suppressed figure cannot be reconstructed by subtracting the remaining data from a total published at a higher level. Statistics for higher geographic levels (e.g., national over State) or broader industrial categories (twodigit SIC's over three-digit SIC's) are given preference where choices must be made in avoiding disclosure.

In the published tables, suppressed data cells are identified by the symbol (D) for disclosure. On computerized products, special codes or "flags" associated with each data cell indicate whether data have been withheld. The number of establishments in an industry or kind of business in an area is not considered to be a disclosure and is published even though other data may be withheld.

#### Report Numbering

All reports and other data series are numbered according to a consistent pattern. The first two or three letters indicate the census or current series, generally followed by the reference year, a hyphen, and then series designation and number within series. For example, RC87-A-17 indicates the retail census for 1987, the geographic area series, and the 17th report in the series (i.e., the report for Indiana, which is 17th in an alphabetic list of States, not the 17th report to appear).

Census reports include-

- RC87 Retail Census
- WC87 Wholesale Census
- SC87 Service Industries Census
- Transportation Census
- MC87 Manufactures Census
- MIC87 Mineral Industries Census
- CC87 Construction Industries Census

Current reports include—

- · BR Business-Retail
- BW Business—Wholesale
- Business—Service BS
- Manufactures and Minerals
- C Construction

In the text of chapters 5 through 7, the following symbols indicate in which media each report is published.

- Printed report m
- Microfiche
- 8 Computer tape
- 0 CD-ROM
- Flexible diskettes
- 旦 Online (CENDATATM)

Unless otherwise indicated, all economic censuses printed reports are sold by the U.S. Government Printing Office (GPO). For current reports denoted "subscription," annual subscriptions may be placed with the GPO, although single copies are sold by the Census Bureau. All microfiche and computerized products are sold by the Census Bureau. See chapter 7 for ordering information.

#### PRINTED REPORTS

Printed statistical reports are the most widely used type of output from economic censuses and surveys. There are 571 different reports published from the 1987 economic censuses, and the current economic series result in 70 monthly, 20 quarterly, and 91 annual publications.

While each of the economic censuses is published separately, each census's publication program shares a common structure. The body of each report consists of statistical tables featuring data for the census year 1987. Relatively few statistics are presented from previous censuses for comparison, so the user must obtain reports from previous censuses in order to carry out detailed analysis of changes over time. Introductory material in each report discusses basic concepts and methodology. There is a table-finding guide, also at the front of the volume. At the back of the report are detailed explanations of methodology and definitions of terms, especially the industry or kind-of-business classifications.

Most census reports include a narrative "Summary of Findings" immediately preceding the statistical tables, which highlights a number of key statistics and frequently cites the top ranking geographic areas or industries. Thus, the summary is an excellent place to begin in reviewing any of these publications, though it touches only the surface in terms of the comparisons, rankings, and interpretations that users can employ to add their own analytic value to the data.

The reports from each economic census fall into several basic categories: geographic area reports, industry reports (both preliminary and final), summary reports, subject reports, and other miscellaneous reports.

#### **Geographic Area Series**

Area reports feature general statistics—the number of establishments, the number of employees, payroll, and sales or other measures of revenue-for each State and its metropolitan areas, counties, and places. Figure 5 in the previous chapter shows the specific areas covered in each census. Geographic area reports are issued State-by-State in most cases. Broader groupings of States are used for those censuses that publish less voluminous data: The censuses of mineral and construction industries issue geographic area reports grouped according to census divisions (nine geographic groups of States), and the census of transportation geographic area series appears in a single report.

The level of detail available in the area reports varies generally with the number of establishments or the number of employees in each particular sector. Thus, a county with many people employed in manufacturing is likely to have more industry detail in the manufactures census report than a county with fewer manufacturing workers. Because there are more retail and service establishments than establishments in other sectors, these two censuses generally have more data for smaller counties and cities than do other censuses.

For retail and services there are separate "nonemployer statistics" reports that parallel the geographic coverage of the geographic area reports containing data for establishments with employees. Thus, to get a full geographic picture for retail and services, the user should obtain both the geographic area and nonemployer reports.

#### **Industry Series**

In the three censuses covering the goods-producing sector of the economy (i.e., manufactures, and mineral and construction industries), the analysis of economic statistics by industry nationwide is so important that separate reports are prepared focusing on the characteristics of groups of related industries. These reports are published before corresponding geographic area reports within the same censuses.

Preliminary industry reports present general statistics for the Nation as a whole by industry, and national summary tables on industry products and materials consumed. These reports typically are published roughly 8 months before they are superseded by corresponding final industry series reports.

Final industry reports present general statistics for the Nation as a whole and by State, and also more detailed statistics and specialized measures unique to particular industries at the national level. In the manufactures and mineral industries censuses, tables summarize the key products made and the various materials, supplies, and fuels consumed by each industry. These final statistics reflect revisions from the preliminary figures, and also feature more detail than is shown in preliminary reports.

There are no comprehensive industry reports for retail and wholesale trade, service industries, or transportation.

#### U.S. Summary and General Summary Reports

Each of the censuses publishes a single volume that presents data for all covered industries at the national and State levels, with limited data for metropolitan areas, while omitting the local-area and specialized detail carried in the geographic and industry reports. For retail and wholesale trade and service and construction industries, the U.S. Summary is the last report in the Geographic Area Series. For transportation, the Geographic Area Series report suffices since it is already a single volume. For manufactures and mineral industries, the General Summary is part of the subject series. In all cases, these convenient compendia appear only after the last of the industry and area series reports have been published.

#### **Subject Series**

Each census includes one or more reports that add further dimension to the analysis of industries, primarily at the national level. Most common are statistics on establishment and firm size (e.g., for differentiating big and small businesses) and on capital expenditures and assets. Others include information on legal form of organization

(corporations, partnerships, and individual proprietorships), concentration of activity in the largest firms in each industry, and measures unique to a particular sector. Of special significance are the Merchandise Line Sales report for retail businesses and the Commodity Line Sales report for wholesale trade which interrelate the kinds of merchandise sold with the kinds of businesses carrying each line. (A corresponding classification of manufacturing and mineral industries by products produced is included in the Industry Series reports for those censuses.)

#### Other Series

There are a few economic census series that present specialized data that do not correspond to the foregoing types: minority- and women-owned businesses, characteristics of business owners, enterprise statistics, and the truck inventory and use survey.

#### MICROFICHE

Beginning with the 1967 Economic Censuses, almost all census and current publications (but not including preliminary reports) have been photographed page-by-page, and the images reproduced on microfiche (4" x 6" sheets of film, each containing 98 or more miniature page images) as an archival backup to census publications. Even after a publication has gone out of print, a copy on microfiche can always be obtained, or a paper print can be generated from the microfiche. This is especially important when assembling a time series of comparable statistics across several censuses, since printed reports from the 1967, 1972, and 1977 censuses and most reports from the 1982 censuses are no longer available for sale.

#### COMPUTERIZED MEDIA IN GENERAL

Data in computerized media have three primary advantages over their printed counterparts:

Ease of manipulation. Computerized data can more easily be ranked, compared, analyzed, reformatted, and extracted than can data fixed in print. For example, commercial software programs are available to convert the data into graphs, charts, and even maps. Data from different databases can be merged, as in the combination of retail census and population data to yield per-capita retail sales figures. Computers allow users to manipulate and analyze much larger quantities of information than could be managed manually.

More data series. The Census Bureau is able to make available on computer tape and CD-ROM certain large data series which are not practical to print because of the high cost of printing:

 Retail merchandise line sales and wholesale commodity line sales for States and metropolitan areas (national data also available in print)

- ZIP Code statistics for retail trade, service industries, and manufacturing
- · Location of manufacturing plants, for counties, places, and ZIP Codes.
- Minority- and women-owned businesses (data for more places and counties than in print)
- · County Business Patterns (data for more small industries not in print)

With the exception of these series and microdata from the Truck Inventory and Use Survey (see pp. 48), the data available on computer tape and CD-ROM are limited to the data items presented in printed reports. All data suppressed in the reports are also suppressed on computer tape to preserve the confidentiality of figures supplied by individual businesses.

Faster release of selected statistics via CENDATA™. While data on computer tape and CD-ROM are issued at about the same time as corresponding printed reports, press releases are made available on the Census Bureau's online service approximately 3 to 4 weeks before corresponding reports become available for sale-i.e., while the reports are being printed and CD-ROM discs are being manufactured. Further, the user does not have to wait for the products to be delivered by mail.

#### COMPUTER TAPE

Economic census files are available on tape for mainframe and minicomputers (2400-foot reels), but not on the kind of tape used for backup on microcomputers. Data files consist of records in fixed-field character format. Technical documentation, containing record layouts and the kind of descriptive information carried in the text of reports, is provided in paper copy with each tape. Record layouts also are recorded on computerized "data dictionary" files. While the files are well designed, most users require the services of a programmer in order to use the data on tape.

Computer tapes are priced by the tape, not by how much data the tape contains. Since most of the economic files are relatively small, a single tape can accommodate the data from one or more entire series of publications (e.g., retail trade geographic area series files for all States). The user has the option of obtaining the data as soon as a particular State is available, or of waiting until all States have been issued and thus get more data for the same price.

#### MICROCOMPUTER FORMATS: DISKETTE AND CD-ROM

Economic census files are issued in two formats designed for use on microcomputers-flexible diskette (IBM PCcompatible format) and CD-ROM. Flexible diskettes, or "floppies," are relatively limited in capacity (500 standard

5.25-inch diskettes are required to hold as much data as can be stored on a single high-density tape), so only a few small data sets are issued on floppies.

On the other hand, a single 4 3/4-inch CD-ROM, using laser technology, can hold over 500 million charactersequivalent to the combined storage capacity of more than

three high-density tapes or 1,500 flexible diskettes. That is enough to hold all of the 1987 Economic Censuses files on two discs. To use a CD-ROM, the microcomputer user must obtain and install a CD-ROM reader (typically priced at \$500 to \$800 as of 1989) along with software to allow the operating system to access the CD-ROM like a diskette or other storage device on the microcomputer (e.g., MS-DOS Extensions or MacIntosh CD Setup software).

Data on both diskette and CD-ROM are recorded in a format compatible with dBASE IIITM, which can also be used by dBASE IV and a variety of other programs. A number of spreadsheet, statistical, and graphics software packages have utilities that allow dBASE III files to be imported, although not all can handle files as large as those stored on CD-ROM.

To assist users in importing files in dBASE format into other software, the Census Bureau has developed an IBMcompatible, public-domain software program called EXTRACT. This program reads the dBASE files and prompts the user through the steps necessary to select desired data, add labels, display the data to the screen or printer, and extract data to a file. The program can create extract files in any of three formats for importing into commercial software packages: dBASE format, commadelimited files (used for Lotus 1-2-3TM and many other programs), and fixed format files. Extracted files can be saved onto the user's floppy or hard disk, but not onto the CD-ROM itself, because the CD-ROM is a "read-only" device. Thus, while only a limited number of

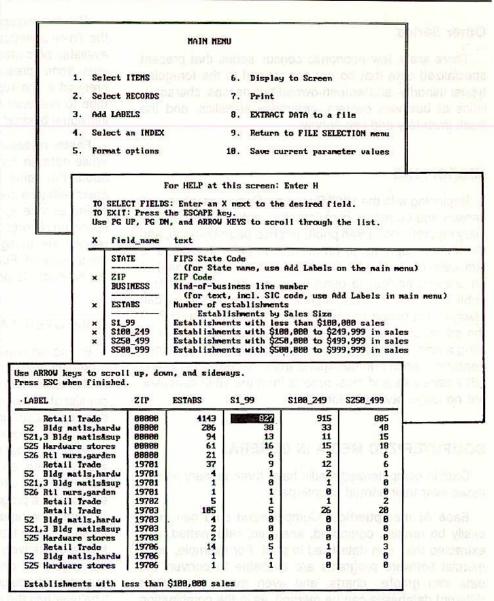
small files are being issued by the Census Bureau on flexible diskette, any user with access to a CD-ROM reader can extract (or "download") small data sets to diskettes for use elsewhere. Figure 7 illustrates sample screens from the EXTRACT program.

The EXTRACT program and other public-domain software developed to work with Census Bureau files on CD-ROM are available for a nominal charge from an organization that has agreed to act as a clearinghouse for such software: the Center for Electronic Data Analysis; 316

Stokley Management Center; Department of Marketing, Logistics, and Transportation; University of Tennessee; Knoxville, TN 37996-0530; (615) 974-5311.

Since CD-ROM has such a large capacity, all economic censuses files other than ZIP Code data can be accom-

Figure 7. Illustrative Screens from EXTRACT Using ZIP Code Data



modated on a single disc. The user has the choice of buying that disc (designated Volume 1) when all economic files are available in mid-1991 or of buying interim versions, starting in mid-1989 and reissued every 3 or 4 months, containing all of the files available to that point. ZIP Code data are being issued on a separate disc (Volume 2) in the latter part of 1990. To obtain all CD-ROM's as soon as they are issued, it is possible to subscribe for a special package price (see chapter 7).

The specific files issued on CD-ROM and diskette are listed in appendix C, along with their projected timing.

#### **CENDATA**TM

CENDATATM is an online data service offering the most current and widely used facts, specializing in press releases and information on ordering the latest data products. A number of Current Industrial Reports (CIR's) are issued in entirety on CENDATATM. CENDATATM is made available through cooperating private vendors, DIALOG and CompuServe, that provide nationwide access to information supplied by the Census Bureau through their own longdistance networks. They bill customers for time used on their systems, but no extra charge is made for access to the census data. CENDATATM is set up for very simple access: the user retrieves any of several thousand screensful of information simply by selecting appropriate items on a succession of menus. DIALOG also supports key-word searching, but neither vendor provides any mechanism for manipulating the data.

Any computer with a modem and communications software can access CENDATATM, once an account has been set up with one of the vendors. Most communications software packages can send the information from CEN-DATA<sup>TM</sup> to the user's printer or save it to a file on a floppy or hard disk. With some effort, the resulting file can be imported into the user's analytic software, although frequently it is necessary to first edit the data in another program.

Most data sets accessible via CENDATATM are relatively small, because it takes a relatively long time to transmit data over phone lines. Even at 2400 baud (the fastest speed that currently works well over conventional long distance phone lines), it takes more than 20 minutes to transmit as much data as fit on a floppy disk, and more than a week of continuous transmission to fill up a highdensity tape.

Among the economic data sets on CENDATATM are—

- · Press releases. Short narrative releases and one or two tables, issued to the press when certain major reports are issued, become available immediately on CEN-DATA<sup>TM</sup>. State-by-State press releases for retail trade. wholesale trade, and service industries appear on CEN-DATA<sup>TM</sup> several weeks before the corresponding reports can be purchased.
- Up-to-date information on the availability of publications.
- · Highlights from other data series denoted with the CENDATA™ symbol 

  later in this guide. While the CIR's shown with the CENDATA<sup>TM</sup> symbol on page 59 appear on CENDATATM in essentially full detail, only key tables from the larger census reports are included.

#### TIMING OF DATA RELEASE

Most of the reports from the 1987 Economic Censuses are being published during 1989 and 1990, with a few specialized reports following during 1991. Appendix C presents the projected schedule for each report series, information which is also included in order forms for the corresponding series. The schedule indicates the range of months from the first publication to the last in a series, but does not show specific months for individual industry or State reports.

There are a few principles of report timing. Within geographic area series, States having few establishments tend to be published sooner than those States having a large number of establishments or States with metropolitan areas that cross State lines. Summaries presenting national totals generally appear only after the last State has been published. Area reports for retail, wholesale, and services are published between early and late 1989; in other censuses, they appear mostly in the first half of 1990.

State-by-State press releases are issued through the news media and CENDATATM for retail trade, wholesale trade, and service industries, and they may appear a few weeks prior to the availability of corresponding data in print because they are not subject to the delays associated with printing and mailing publications. Those reports for which press releases are issued on CENDATATM are indicated by the symbol \( \mathre{\pi} \) in chapters 5 and 6.

Censuses with industry series reports (those in the goods-producing sector-i.e., manufactures, mineral industries, and construction industries) are issued in two waves: (1) preliminary and (2) final. Preliminary reports were published in the first half of 1989, on average 8 months before the final industry reports, scheduled for release in late 1989 and early 1990. In these censuses, geographic area reports follow the industry series in early 1990.

Subject reports and other specialized series appear only after the area and industry series are published.

While printed reports are issued in relatively small units, e.g., reports for individual States, data on computer tape and CD-ROM are reissued in a cumulative fashion. Computerized data in geographic area series for retail trade, wholesale trade, services industries, and manufactures are issued for whatever States are ready. In all other series, CD-ROM and tape files are not created until the entire series is complete.

To minimize delay in receiving the data once they are available, users may order any of the products in advance, as discussed in chapter 7.

#### SPECIAL TABULATIONS

Even with the large number of reports and data files issued, the budgets for the economic censuses and surveys cannot accommodate every possible way that the data collected could be presented for use. For this reason, data users with special needs occasionally contract with the Census Bureau to prepare special tabulations from its confidential records covering individual establishments. The results may be prepared as printouts, microfiche, computer tape, or diskettes. The special tabulations must adhere to the same confidentiality requirements as apply to the regular census or survey publications (see p. 17). Examples of special tabulations include—

- General statistics by kind-of-business for multicounty planning districts in a State. (This is particularly useful when some of the details for individual counties have not been published because they did not meet certain size or disclosure criteria.)
- Consumption of fuels for heat and power in manufacturing by State and MSA. (Census publications include these data only at the national level.)
- County Business Patterns data by ZIP Code. (Publications include only county data.)

The Census Bureau's costs in preparing a special tabulation, typically in the thousands of dollars, must be

reimbursed by the customer or group of customers requesting their preparation. Timing can also be a problem for special-tabulation customers, since the scheduled reports for the general public get priority where personnel or other resources are not available to do both at the same time.

Some special tabulations, such as those cited above, prove to be of interest to others besides the original customer, and the Census Bureau may cite them in the Census Catalog and Guide. Once the original customer has had use of the special tabulation for at least 6 months, anyone else can obtain a copy of the tables for the cost of reproduction.

More information about how to request a cost estimate for a special tabulation can be obtained by contacting the appropriate subject specialist, listed in appendix E.



# **Economic** Census Programs

#### WHAT'S NEW FOR 1987?

Expanded coverage. The 1987 Census of Service Industries was expanded to include hospitals, while the 1987 Census of Transportation was expanded to include establishment statistics on motor freight and water transportation and those transportation services not previously covered.

SIC changes. The 1987 data are reported in terms of the newly revised SIC system. Nonetheless, selected reports include "bridge" tables showing 1987 data classified according to the old SIC system, for direct comparison with 1982 data in the 1982 census reports. Most SIC's, however, have remained comparable between the 1982 and 1987 censuses.

New metropolitan definitions. A new set of metropolitan areas (i.e., MSA's, CMSA's, and PMSA's) have replaced the standard metropolitan statistical areas (SMSA's) and the standard consolidated statistical areas (SCSA's) shown in 1982 census publications. While the titles of most metropolitan areas have remained unchanged, about one-third have new boundaries.

Fewer preliminary reports. To expedite production of final reports, the preliminary reports series for retail trade, wholesale trade, and service industries have been discontinued. Preliminary data for manufactures and mineral industries have been consolidated into fewer reports.

More statistics reflecting the globalized economy. Statistics for manufacturing industries now show what fraction of materials, parts, and supplies were purchased overseas. Exports of services are now shown for more service industries.

Separate nonemployer reports. For 1987, data for retail trade and service industries establishments with no paid employees (e.g., "mom and pop" stores) are being published in separate reports. Aside from a few nonemployer tables in the census of construction industries, regular census reports cover only establishments with paid employees.

ZIP Code statistics. Limited data are being issued for individual ZIP Codes on computer tape and CD-ROM for retail trade, service industries, and manufacturing.

Two series discontinued. The Major Retail Centers (MRC) series and the Commodity Transportation Survey were canceled for budgetary reasons.

More data in computerized form. More files are being released on computer tape than for any previous economic censuses, and the publication of statistics on CD-ROM and diskette is completely new for the 1987 Economic Censuses.

For other changes, see the "What's New for 1987" box under the headings for the individual censuses in the next chapter.

#### Figure 8. Major Data Items Published in Retail Trade Reports by Geographic Level

[Legend: • —Places, counties, MSA's, States, and national. M—MSA's, States, and national. N—National only. S—States and national. Z—Zip Codes and States]

The state of the state of					Serie					
Item	RC87 -A	RC87 -N	RC87 -SP	RC87 -Z	RC87 -S-1	RC87 -S-2	RC87 -S-3	RC87 -S-4	СВ	В
NUMBER OF ESTABLISHMENTS AND FIRMS			-							
All establishments .  Establishments with payroll .  Establishments without payroll (nonemployers)	•	2 2 2	M M M	z ! 8 17	N WILL		м	M		
Firms	with one b	ANY EPI	) tji t	.Nager	N N N	1887	of its	5757/DS	optimet	
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All employees, March 12.  Employment size of establishment  Employment size of firm	d 100gh	10 115	_ 11 to 11	z z	N N N	BUILDING TO A	h 241	М	onsyk) gnanot wani s	
PAYROLL STOPPING BY HIS MESSAGE BY		A. Lak	No series	en arre	- BO	978 7	a lut	381 754	rinan'i	
All employees, entire yearAll employees, first quarter	Tid et	-10 K	M	z enn ha	N N	N N		M	all mi	
SALES TRANSLE SYSTEM LIENS DEMORAL	er y yur	h (.)	Lanten	HWY 12	Jane British	II EUII	1.88	uni resi	rte (a)	
All establishments		. 2	N M N	z	N	N	м	M	died, er pre	Marie Land
Merchandise line Class of customer. Size of establishments. Size of firms	51	10 mg	N	z	N N	22	М	N	ibal .	
Item	RC87-S-2	BR	21 7/10		Item	1	114 11	THERE IS	INT NE	RC87-5
Shi taliana and a sanata		77.1					-			
OPERATING EXPENSES	VIII D		SPECIFIC KI	NDS OF BUS	SINESS					
otal	N		Auto and hom Automotive	ne supply sto	ores: ys					
ost of materials, etc	N		Vendors:		e a legiti			Account to		
Cost of electricity	N		Percent of	sales from ve	ending machine	s by product				
dvertising	N	10	Contract feed	ing						
tental payments, total	N N	18	Drug stores:					1-10		
Machinery and equipment	N	a 12	Prescription	s and pharm	nacists					
Communications services	N		Third-party	prescriptions	3					
Purchased repairs	N	BAIL	Eating and dr	inking places operations.						
CAPITAL EXPENDITURES				st per meal.						
Fotal	N				rvice					
New, total	N	1	Franchise I	nolders						
Buildings/equipment	N N		Seating cap	pacity						
Jsed, total	Più erio	II iaki	General merc	handise and	food stores:			de-2/16/10		
DEPRECIABLE ASSETS, GROSS VALUE OF BUILDING/EQUIPMENT	_	\$								
End of 1988	N		Fuel oil deale Gallon sale		other fuels					
End of 1987	N		Gasoline serv							
Depreciation (detail for buildings/equipment and/or total)	N		Vineral Contract Cont	THE STREET PROPERTY OF THE STREET						
Netirements	N				tions					
NVENTORIES			Self-service	stations						
EL SOCIEMPRO DE WORD PER NAVOSO - CONSERVADO.		323	Number of	automotive r	mechanics					
End of 1986 (previous period)	N	N	and accesso	ory stores:	s general merc					
OTHER				roleum gas d	caleis.					
Value added	N									
OTHER Value added	N N		Number se	lling bottle ga	as					
Value added	72.55	N	Number se	lling bottle gapacity						

<sup>&</sup>lt;sup>1</sup>For complete titles, see descriptions starting on page 27. <sup>2</sup>Data are presented for 19 States, 28 MSA's, and 4 cities (see p. 30).



### **Retail Trade**

#### WHAT IS RETAIL TRADE?

The census and surveys of retail trade cover establishments engaged in selling merchandise for personal or household consumption and rendering services incidental to the sale of the goods. By comparison, establishments in wholesale trade sell primarily to retailers (who may resell the goods to household consumers), to other wholesalers, or to other business and institutions for their own use. In principle, then, the difference between retail and wholesale trade is based on the type of customer—retailers sell primarily to individuals while wholesalers sell primarily to businesses and institutions.

In actual practice, there are gray areas between what is considered retail trade and wholesale trade, since some types of stores sell to both the general public and to businesses. Normally, a store is classified as retail if more than half of its sales are to the general public. Lumber yards; paint, glass, and wallpaper stores; and gasoline service stations can be classified as retail even when sales to businesses exceed sales to individuals. On the other hand, several types of establishments are counted in wholesale trade even if a higher proportion of their sales is made to individuals for personal or household consumption-stores primarily engaged in selling plumbing equipment, electrical supplies, used automobile parts, and office furniture. Since retailers are defined as businesses that buy goods for resale, farmers who sell only their own produce are not classified as retailers.

### HOW ARE RETAIL ESTABLISHMENTS CLASSIFIED?

In general, retail establishments are classified by kind of business according to the principal lines of commodities they sell (groceries, hardware, etc.), or the usual trade designations (drug store, cigar store, etc.). There are eight major industry groups in retail trade in the Standard Industrial Classification (SIC) system—

- 52 Building materials, hardware, garden supply, and mobile home dealers
- 53 General merchandise stores
- 54 Food stores
- 55 Automotive dealers and gasoline service stations

- 56 Apparel and accessory stores
- 57 Home furniture, furnishings, and equipment stores
- 58 Eating and drinking places
- 59 Miscellaneous retail

These major SIC groups are subdivided into three-digit industry groups, which in turn are subdivided into four-digit industries, as shown in appendix A.

Central administrative offices, warehouses, and other auxiliary establishments that primarily serve retail establishments within the same company are not included in the census of retail trade, but are included in the *Auxiliary Establishments* report (see p. 76).

#### **HOW ARE THE DATA COLLECTED?**

For the 1987 Census of Retail Trade, data were gathered through a combination of questionnaires, which were sent to all but the smallest firms, and the administrative records of other Federal agencies. There were 36 variants of the census questionnaire, permitting each kind of business to answer in terms of categories relevant to its operations. Questionnaires were mailed to all firms above a certain size cutoff (generally equivalent to four or more paid employees), and to a sample of smaller firms with paid employees. Information for firms with no employees and for small firms not in the sample were obtained from Federal administrative records, as discussed in chapter 1.

In addition to the regular census forms, a small sample of establishments were sent an additional questionnaire for 1987 covering operating expenses, capital expenditures, depreciable assets, and value added. The results are published as part of the census in the subject series (see below).

The Census Bureau also conducts monthly and annual retail trade surveys to obtain more current data. These surveys are based on samples of firms with employees identified in the census, supplemented with area samples of nonemployers and recent "births" (newly created firms) identified from administrative records during the years between the 5-year census. Most of the data are obtained by mail. These surveys concentrate on a much narrower set of data items than the census—i.e., monthly and annual sales, monthly and year-end inventories, and inventory/sales ratios.

What's New for 1987? Retail Trade

SIC changes. The 1987 SIC now identifies several new kinds of retail businesses separately, for example:

Computer and software stores (5734)

- Record and prerecorded tape stores (5735)

- Optical goods stores (5995)

Other adjustments include—

- Used motor vehicle parts were transferred from retail trade to wholesale trade (5015)

- Two types of retail bakeries were merged (5461)

- Furriers and fur shops have been combined with women's accessory and specialty stores (5632)

The impact of these changes can be explored in Geographic Area Series table 3, which shows 1982 data together with 1987 data classified on the 1982 system (see p. 27).

- No preliminary reports. To expedite the production of final reports, preliminary reports, such as were published for 1982, were dropped. Instead, selected final data are issued in the form of press releases to the media and via CENDATA<sup>TM</sup> several weeks before corresponding State reports are available.
- Nonemployer reports. Data for establishments with no paid employees are published in separate Nonemployer Statistics reports. Most other census reports cover only establishments with paid employees.
- Special report. A new report shows metropolitan statistical area (MSA) rankings on sales per capita, sales in central cities vs. balance of MSA, and MSA-level changes between 1982 and 1987.
- Different threshold for counties and places. Statistics by detailed kind of business in geographic area reports are provided for counties and places with 350 or more retail establishments with paid employees. The 1982 criterion was 500 or more establishments, including those without paid employees. Under the new criterion, there are data for about the same number of counties and places as in 1982.
- Expanded merchandise line information. The number of broad lines is increased from 34 to 41.
- Major retail centers (MRC's) dropped. Data on MRC's and central business districts (CBD's) were not collected.
- ZIP Code data. Limited data are issued for individual ZIP Codes, and ZIP Code statistics are now available for 1982 as well.
- Terminology. Retail census subject reports were labelled "industry reports" for 1982.

#### How Have Retail Trade Data Been Used?

A major food store chain uses census data as the basis for its estimates of potential weekly food store sales in the trade area for each of its stores—estimates that allow calculation of market share and other measures of performance for each existing store, and support evaluations of prospective sites for new stores. Since each store's trade area is defined in terms of census tracts and blocks, areas too small for retail trade statistics to be available, the chain calculates per capita weekly (PCW) food store sales from retail census data and population estimates for counties, then multiplies the appropriate PCW times the estimated population of the target trade area to estimate potential food store sales. They adjust PCW to reflect national changes in food store sales since the last census using Monthly Retail Trade.

An entrepreneur hoping to market an edible stirring straw for mixed drinks looked to retail and service census data about his potential customers, including liquor stores, hotels, and restaurants.

The publisher of Television News, a magazine designed to be given away free at retail stores, wanted the number of retail stores by ZIP Code in order to design sales territories. The ZIP Code data on CD-ROM proved especially useful, since they differentiated stores by sales and employment size; the publisher's sales people had found that owners of small stores were more willing to listen to their pitch than were owners of large stores.

The editor of a personal finance newsletter used historical census data on patterns of retail sales during the 1930's along with more recent statistics to compare depression years with current conditions.

A manufacturer of automobile parts and supplies, who had previously marketed his products primarily through new and used car dealers, was impressed by figures from the Merchandise Line Sales subject report, which showed that automobile supply stores, gas stations, and department stores sell far more automobile parts and supplies than do car dealers. Using data from the Geographic Area Series on the geographic distribution of these stores, he developed a new marketing program.

#### REPORTS

#### **Press Releases**

Press releases, A, are issued for each State report of the Geographic Area Series a few weeks before the availability of the corresponding reports. The releases highlight key findings and include data from tables 3 and 11 illustrated below.

#### **Final Reports**

• Geographic Area Series, RC87-A-1 to -52, □ ■ 🕏 ⊙ 🗸 🚨 . A separate report is issued for the United States, each State, and the District of Columbia. Each report contains

statistics for establishments with payroll (see below for nonemployer statistics) on the number of establishments, employment, payroll, sales, and number of proprietorships and partnerships, by kind of business. Each State report presents the basic data items by kind of business for the State, for each MSA, and for counties and places with at least 350 retail establishments with payroll (see table 8, below). The number of kinds of business shown depends on the number of establishments in each area. The reports also include more limited data (establishments and sales for 10 major kind-of-business groups) for all counties and for incorporated places with 2,500 or more inhabitants (see table 5, p. 28). The major counties and places are ranked by

#### Tables From Retail Geographic Area Series, RC87-A

#### Table 3. Comparative Statistics Based on 1972 Standard Industrial Classification for the State: 1987 and 1982—Con.

(Includes only establishments with payroll. For meaning of abbreviations and symbols, see introductory text. For explanation of terms and comparability of 1982 and 1987 censuses, including

1972 SIC code	1987	THE REST. LOSS OF THE REST.	Establis	hments	the second	Sales	Anno	ual payroll		Paid employe period in March	cluding	
SIC code	SIC code	Kind of business	1987 (number)	1982 (number)	1987 (\$1,000)	1982 (\$1,000)	Percent change 1982 to 1987	1987 (\$1,000)	1982 (\$1,000)	Percent change 1982 to 1987	1987 (number)	1982 (number)
57	57	Furniture and homefurnishings stores	12 417	11 076	10 448 777	5 914 096	76.6	1 315 306	784 183	67.7	86 611	62 883
5712	5712	Furniture stores	3 432	3 181	3 023 249	1 974 941	53.1	434 605	291 499	49.1	25 167	21 878
5713, 4, 9 5713 5714 5719	5713, 4, 9 5713 5714 5719	Homefurnishings stores Floor covering stores Drapery and upholstery stores Miscellaneous homefurnishings stores _	3 784 1 546 500 1 738	3 146 1 287 549 1 310	2 257 647 1 263-144 142 086 852 417	1 109 853 608 814 110 176 390 863	103.4 107.5 29.0 118.1	325 857 181 315 29 469 115 073	163 574 84 084 20 887 58 603	99.2 115.6 41.1 96.4	21 898 9 327 2 328 10 243	14 606 5 792 2 229 6 585
572	572	Household appliance stores	987	1 054	1 037 478	656 782	58.0	106 488	73 354	45.2	6 455	5 914
573 5732	573 5731	Radio, television, computer, and music stores	4 214 2 866	3 695 2 478	4 128 403 2 947 935	2 172 520 1 581 046	90.0 86.5	448 356 325 158	255 756 189 884	75.3 71.2	33 091 21 216	20 485 13 401
	5734	computer and software stores	2 265 601	(NA) (NA)	2 385 687 562 248	(NA) (NA)	(NA) (NA)	267 288 57 870	(NA) (NA)	(NA) (NA)	17 276 3 940	(NA) (NA)
5733	5735	Music stores	1 348	1 217	1 180 468	591 474	99.6	123 198	65 872	87.0	11 875	7 084
	5736	stores Musical instrument stores	810 538	615 602	829 025 351 443	321 733 269 741	157.7 30.3	77 065 46 133	29 861 36 011	158.1 28.1	8 705 3 170	3 872 3 212

#### Table 8. Summary Statistics for Metropolitan Statistical Areas: 1987

[Includes only establishments with payroll. For meaning of abbreviations and symbols, see introductory text. For explanation of terms and comparability of 1982 and 1987 censuses, including revised methodology for presenting establishment counts, see appendix A. For definitions of CMSA's, and CMSA's, and CMSA's, and CMSA's are proporty D.1.

	Laborat Market SC State Market Description Description and Appendix of	96	200		1 100	Paid employees	Unincorporated	businesses
1987 SIC code	Geographic area and kind of business	Estab- lishments (number)	Sales (\$1,000)	Annual payroll (\$1,000)	First quarter payroll (\$1,000)	for pay period including March 12 (number)	Individual proprie- torships (number)	Partner- ships (number)
	BAKERSFIELD, CA MSA	PAR		241445	Landin	HE MY	Frittenia i	West first
	Retail trade	2 745	2 762 816	335 191	79 395	32 031	1 134	412
52	Building materials and garden supplies stores	112	164 708	18 362	4 578	1 411	30	13
521, 3 521 523	Building materials and supply stores	57 42 15	This	format is a	lso used t	o show da	ta for-	
525 526 527	Hardware stores	26 19 10	Tabi Tabi Tabi	e 6, Plac	es with 35		nments or m	
53	General merchandise stores	70	Tabl		outside I		ISTITUETIUS OF	nore
531	Department stores (incl. leased depts.)1 2	17	237 078	(NA)	(NA)	(NA)	-1	-

#### Table 5. Summary Statistics for Counties and for Places With 2,500 Inhabitants or More: 1987

[Includes only establishments with payroll. For meaning of abbreviations and symbols, see introductory text. For explanation of terms and comparability of 1982 and 1987 censuses, including revised methodology for presenting establishment counts, see appendix A. For information on geographic areas followed by A, see appendix F]

	a alegation to bank of	9 soin		MIS EQIT	POLITICIES	in the same of	Unincorp		land	ol beur	Kind-of-bu	siness groups	aging.	Press
	Geographic area	Estab-		allout s	First	Paid employees for pay period	Individual	of the	and gard	g materials den supplies tores IC 52)	S	merchandise tores IC 53)		d stores IC 54)
	abriditishinamik Bir	lish- ments (number)	Sales (\$1,000)	Annual payroll (\$1,000)	quarter payroll (\$1,000)	including March 12 (number)	proprie- torships (number)	Partner- ships (number)	Number	Sales (\$1,000)	Number	Sales (\$1,000)	Number	Sales (\$1,000)
1	California	157 760	179 801 438	22 731 730	5 361 071	2 022 068	58 126	19 431	6 170	9 058 773	2 310	21 499 870	19 200	36 494 918
234567	Alameda County Alameda Albany Berkeley Dublin 4 Emeryville	664 95 877 31	8 160 878 699 992 92 119 830 837 65 304 86 920	94 575 12 610 134 154 6 417	258 136 21 759 3 089 31 913 1 473 2 992	89 283 8 745 917 11 669 418 999	2 552 169 45 332 7 24	968 61 19 143 4	234 10 2 26 1	353 408 5 408 (D) 39 674 (D) (D)	83 14 2 6	981 624 205 243 (D) (D)		1 655 317 102 420 (D) 158 085 (D) 4 148
89012	Fremont Hayward Livermore Newark Oakland	714 599 235 180 1 921	1 097 694 979 060 297 541 277 998 1 768 715	109 689 37 649 29 625	33 661 26 837 8 970 6 963 60 968	11 274 B 107 3 218 2 651 20 216	242 224 79 65 740	94 63 30 24 328	36 17 9 8 55	68 475 16 693 16 829 20 248 92 318	10 6 3 4 17	68 308 215 700 (D) 51 577 115 365	76 24 21	221 356 150 846 79 135 78 238 390 607

	ive dealers 5 ex. 554)		ervice stations 554)	sto	d accessory ores (56)	hometurnis	ure and things stores C 57)		Irinking places C 58)	sto	proprietary sres 591)	sto	eous retail ores ex. 591)
Number	Sales (\$1,000)	Number	Sales (\$1,000)	Number	Sales (\$1,000)	Number	Sales (\$1,000)	Number	Sales (\$1,000)	Number	Sales (\$1,000)	Number	Sales (\$1,000)
9 856	38 893 585	9 812	10 742 275	16 134	9 597 700	12 417	10 446 777	45 910	19 989 156	4 462	7 319 546	31 489	15 758 838
422 30 8 31 2 5	1 867 713 105 928 (D) 127 307 (D) (D)	364 17 2 28 - 3	404 768 18 337 (D) 25 802 - (D)	623 163 3 67 1	320 722 87 214 85 38 781 (D) (D)	542 48 11 73 8 8	483 208 26 713 7 772 63 283 13 122 4 213	2 183 173 38 284 10 28	874 564 63 733 12 525 115 566 (D) 18 552	179 12 1 19 -	379 700 31 410 (D) 23 790 (D)	1 469 137 18 239 9	839 854 53 596 6 456 (D) 6 275 6 968
53 65 20 10 92	369 988 313 837 73 444 11 653 377 873	42 47 19 8 99	57 847 41 794 20 674 6 443 106 375	33 30 15 18 160	19 011 19 442 8 428 12 523 60 736	69 42 20 10 127	71 083 51 124 10 461 13 296 95 687	214 195 63 61 622	98 300 76 827 26 838 19 106 248 721	15 16 7 4 58	44 079 38 716 19 470 (D) 110 624	139 105 55 36 369	79 247 54 081 (D) (D) 170 409

Table 11. Counties Ranked by Volume of Sales: 1987

[Includes only establishments with payroll. For meaning of abbreviations and symbols, see introductory text. For explanation of terms and comparability of 1982 and 1987 censuses, see appendix A. For information on geographic areas followed by A, see appendix F]

double to the same of the same	ANT I'V	Marine St.	Cumula	tive
Geographic area	Rank <sup>1</sup>	Sales (\$1,000)	Sales (\$1,000)	Percent of State total
California	(X)	179 801 438	179 801 438	100.0
Los Angeles	1	54 071 842	54 071 842	30.1
Orange	2	17 426 811	71 498 653	39.8
San Diego	3	15 213 106	86 711 759	48.2
Santa Clara	4	10 226 224	96 937 983	53.9
Alameda	5	8 160 878	105 098 861	58.5
San Bernardino	6	7 056 126	112 154 987	62.4
Sacramento	7	6 594 347	118 749 334	66.0
Riverside	8	5 839 231	124 588 565	69.3
San Francisco	9	5 512 987	130 101 552	72.4
San Mateo	10	4 980 666	135 082 218	75.1
Contra Costa	11	4 915 779	139 997 997	77.5
Ventura	12	4 251 343	144 249 340	80.3
resno	13	3 526 052	147 775 392	82.
	14	2 762 816	150 538 208	83.
KemSonoma	15	2 480 892	153 019 100	85.
San Joaquin	16	2 371 245	155 390 345	86.4
Santa Barbara	17	2 301 505	157 691 850	87.7
Stanislaus	18	1 977 745	159 669 595	88.
Marin	19	1 919 770	161 589 365	89.
Monterey	20	1 905 096	163 494 461	90.9
Solano	21	1 582 379	165 076 840	91.8
Santa Cruz	22	1 518 359	166 595 199	92.
Tulare	23	1 318 450	167 913 649	93.
San Luis Obispo	24	1 229 398	169 143 047	94.
Placer	25	1 185 560	170 328 607	94
		70 1407-501-6	110000000000000000000000000000000000000	
Butte	26	913 802	171 242 409	95.
Shasta	27	871 803	172 114 212	95.
Merced	28	686 666	172 800 878	96.
Yolo	29	669 125	173 470 003	96.

sales volume within each State (see table 11, p. 28). Comparative data are shown from the 1982 census only at the State level in "bridge" tables that show the relationships between old and new SIC's where changes have occurred (see table 3).

The U.S. Summary, RC87-A-52, provides corresponding data at the national level and serves as a convenient compendium of abbreviated data for States, MSA's, and the 250 top ranking counties and places.

Only selected data for States (tables 1 and 3) and counties (from table 5) are available on diskette ...

 Nonemployer Statistics Series, RC87-N-1 to -4, □ ■ ② ○ . A separate report for each of four geographic regions (see p. 11) presents statistics for establishments without payroll on number of establishments and sales by kind of business for the same areas as in the Geographic Area Series: States, MSA's, counties, and places with 2,500 or more inhabitants: While more detailed classifications are shown for States and MSA's, only 10 kinds of businesses appear for counties and places (see table 4, p. 29). Data also are presented in each regional report for the United States as a whole on all establishments, establishments with payroll, and establishments without payroll, by kind of business.

#### Nonemployer Statistics for Counties and for Places With 2,500 Inhabitants or More: Table 4.

[Includes only establishments without payroll. For meaning of abbreviations and symbols, see introductory text. For explanation of terms and comparability of 1982 and 1987 censuses, including revised methodology for presenting establishment counts, see appendix A. For information on geographic areas followed by \( \Delta \), see appendix F]

Section 198	Geographic area	Retail trade <sup>1 2 3</sup>		and supplie	Building materials and garden supplies stores (SIC 52)		General merchandise stores¹ (SIC 53)		Food stores (SIC 54)		Automotive dealers <sup>2</sup> (SIC 55 ex. 554)		Gasoline service stations (SIC 554)	
		Estab- lish- ments (number)	Sales (\$1,000)	Estab- lish- ments (number)	Sales (\$1,000)	Estab- lish- ments (number)	Sales (\$1,000)	Estab- lish- ments (number)	Sales (\$1,000)	Estab- lish- ments (number)	Sales (\$1,000)	Estab- lish- ments (number)	Sales (\$1,000)	
1	California	136 651	912 341	5 261	8 147 664	2 105	20 347 830	17 957	36 592 715	7 592	36 857 439	8 295	11 579 284	
23456	Alameda CountyAlamedaAlbanyBerkeleyDubin	43 606 664 95 877 31	54 071 842 699 992 92 119 830 837 65 304	1 291 10 2 26 1	2 284 242 5 408 (D) 39 674 (D)	574 14 2 6	6 262 732 205 243 (D) (D)	5 116 60 10 105	10 600 480 102 420 (D) 158 085 (D)	2 429 30 8 31 2	12 202 727 105 928 (D) 127 307 (D)	2 787 17 2 28 1	2 943 151 18 337 (D) 25 802	
7 8	Emeryville	73 714	86 920 1 097 694	4 36	(D) 68 475	1 10	68 308	103	4 148 221 356	5 53	(D) 369 988	3 42	(D) 57 847	

A	Apparel and accessory stores (SIC 56)		Furniture and homefurnishings stores (SIC 57)		Eating and drinking places (SIC 58)		Drug and proprietary stores (SIC 591)		Miscellaneous retail stores <sup>3</sup> (SIC 59 ex. 591)	
)	Estab- lish- ments (number)	Sales (\$1,000)	Estab- lish- ments (number)	Sales (\$1,000)	Estab- lish- ments (number)	Sales (\$1,000)	Estab- lish- ments (number)	Sales (\$1,000)	Estab- lish- ments (number)	Sales (\$1,000)
	16 134	9 597 700	12 417	10 446 777	45 910	19 989 156	4 462	7 319 546	31 489	15 758 838
	5 156 163 3 67 1	3 329 225 87 214 3 38 781 (D)	3 383 48 85 73 8	3 350 918 26 713 11 63 286 13 122	12 809 173 7 772 284 10	6 095 035 63 733 38 115 566 (D)	1 355 12 12 525 19 1	1 876 649 31 410 1 23 790	8 706 137 (D) 238 8	5 126 683 53 586 18 (D) 6 275
	1 33	(D) 19 011	8 69	4 213 71 083	28 214	18 552 98 300	1 15	(D) 44 079	19 139	6 968 79 247

- Special Report Series, RC87-SP, □ ② ⊙ 🚨 . The Selected Statistics report, new for 1987, profiles retail trade for the Nation as a whole, States, and MSA's, and includes selected ratios and rankings not included in other reports (e.g., MSA rankings on sales per capita, sales in central cities as compared to the balance of MSA's, etc.). This is the only economic census report where the geographic changes in MSA's between 1982 and 1987 are accounted for, and selected 1982 statistics are presented for MSA's as now defined.
- ZIP Code Statistics Series, RC87-Z, ♥ ⊙, includes data by retail SIC's for each five-digit ZIP Code on number of establishments in various sales-size and employment-size groups (see fig. 6 in ch. 4). These establishment counts by size class are not considered to be a disclosure of confidential information, so a data line is present for every kind of business with one or more establishments within a ZIP Code. Also included for each five-digit ZIP Code, for retail trade as a whole (not by kind of business), are statistics on sales, annual payroll, and number of employees.
- Subject Series, RC87-S-1 to -4:
  - 1. Establishment and Firm Size (including Legal Form of Organization), D . O . presents data on the number of establishments, sales, payroll,

- and employment, cross-tabulated by kind of business by size of establishment, by size of firm, and by legal form of organization, for the United States. Establishment data are presented by sales size and employment size; data for firms, by sales size (including concentration by largest firms), by employment size, and by number of establishments oper-
- 2. Measures of Value Produced, Capital Expenditures, Depreciable Assets, and Operating Expenses, □ ■ , presents data for the Nation as a whole, by major kind of business, on sales, purchases, inventories, capital expenditures, depreciable assets, gross margin, value added, net income produced, and operating expenses for retail stores with payroll. Separate estimates in more limited detail are shown for retail stores operated by corporations. These data are based on a sample of 20,000 retail firms selected prior to the census and, therefore, establishments are classified according to the old SIC, unlike other 1987 census reports.
- 3. Merchandise Line Sales. □ ♥ ⊙ . reveals what kinds of stores sell which kinds of merchandise and in what quantities. For example, it shows the different kinds of merchandise sold by radio and television stores as well as which other kinds of stores

#### Tables From Retail Trade Subject Series. RC87-S-3, Merchandise Line Sales

#### Table 1. Merchandise Lines by Kind of **Business: 1987**

[Includes only establishments with payroll. For meaning of abbreviations and symbols, see introductory text. For explanation of terms and comparability of 1977 and 1982 censuses, see appendix Al

	ATTO CONTROL MANAGE LANGUE		Sales of specified merchandise line					
ML			1.1	As percent of total sales of—				
	Kind of business and merchandise line	Establish- ments (number)	Amount (\$1,000)	Estab- lish- ments handling line	All estab- lish- ments			
Wig.	Retail trade	1 330 316	1 039 028 742	(X)	100.0			
100	Groceries and other foods	266 550	198 704 555	51.8	19.1			
120	Meals and snacks	391 216	92 676 874	40.9	8.9			
130	Alcoholic drinks	140 366	14 965 474	33.1	1.4			
140	Packaged alcoholic beverages	157 377	25 632 579	13.5	2.5			
150	Cigars, cigarettes, and tobacco	240 883	14 664 444	4.9	1.4			
160	Drugs, health aids, and beauty aids	187 219	42 337 314	12.4	4.1			
200	Men's and boys' wear, except footwear	104 078	29 461 020	17.7	2.8			
220	Vomen's and girls' wear, except footwear	145 965	57 552 B85	30.6	5.5			
260	Footwear, except infants' and	A AND DESCRIPTION	(TALL THE COLUMN	400				
270	Sewing, knitting, and needlework	111 607	17 016 801	12.3	1.6			
280	goodsCurtains, draperies, and dry goods	45 306 65 350	4 132 014 8 926 133	3.9 6.4	.9			
200	Cartains, drapenes, and dry goods	05 350	0 820 100	0.4				
300	Major household appliances	61 383	11 336 558	-10.1	1.1			
310	Small electric appliances	69 910	4 380 812	2.7	.4 .7			
320 330	TV's and video recorders and tapes Audio equipment and musical	58 735	6 841 209	6.1				
	Instruments and supplies	74 084	11 278 674	8.2	1.1			
340	Furniture and sleep equipment	67 720	19 086 032	14.4	1.8			
360	Floor coverings	56 540	6 907 682	6.2	.7			
380	Floor coverings Kitchenware and home furnishings	150 023	15 642 082	6.3	1.5			
400	Jewelry	95 026	12 133 233	8,1	1.2			
490	Optical goods	21 348	1 850 965	4.3	.2			
500	Sporting goods	70 468	13 038 094	11.4	1.3			
580 600	Recreational vehicles Hardware, tools, and plumbing and	5 918	2 957 381	20.8	.3			
-24	electrical supplies	102 938	13 977 928	8.2	1.3			
620	Lawn and garden equipment and supplies	94 938	11 189 200	7.5	1.1			
640	Lumber and building materials	74 070	32 179 299	26.1	3.1			
680	Mobile homes	4 935	3 795 092	90.8	.4			
700	Cars, trucks, and powered vehicles	48 863	139 687 212	83.9	13.4			
720	Automotive fuels	155 892	89 287 986	63.9	8.6			
730	Automotive lubricants	156 610	2 849 776	1.1	3			
740	Auto tires, batteries, and accessories	168 160	31 049 957	10.3	3.0			
780	Household fuels	20 667	14 791 363	65.5	1.4			
850	All other merchandise	268 919	52 892 408	14.8	5.1			
890	Unclassified merchandise	146 751	5 450 840	3.5	.5			
900	Nonmerchandise receipts	248 928	30 354 868	8.8	2.9			

#### Table 2. Kinds of Business by Broad Merchandise Line: 1987

[Includes only establishments with payroll. For meaning of abbreviations and symbols, see introductory text. For explanation of terms and comparability of 1977 and 1982 censuses, see appendix A)

SIC code	Merchandise line and kind of business	Establish- ments (number)	Sales (\$1,000)	Percent of sales accounted for by specified kind of business <sup>1</sup>
PULL OF	Groceries and other foods (ML 100)	266 550	198 704 555	100.0
53	General merchandise group stores	19 760	3 132 239	1.6
531 533 539	Department stores <sup>2</sup> Variety stores Miscellaneous general merchandise	7 311 6 692	2 487 453 239 730	1.3 .1
2191710	stores	5 757	405 056	.2
54	Food stores	176 219	189 848 375	95.5
541 542	Grocery stores Meat and fish (seafood) markets	128 494 10 995	177 232 953 5 141 388	89.2 2.6
546 5462 5463	Retail bakeries	17 580 15 693 1 887	3 433 668 3 062 953 370 715	1.7 1.5 .2
543, 4, 5, 9 543 544	Other food stores	19 150 2 943	4 040 388 1 269 604	2.0 .6
- (A)2	stores	5 113	760 903	.4

sell radios and televisions—important facts for marketers in related industries. Only national data are available in print. Computer tapes and CD-ROM contain data for States, for MSA's, and for the area within each State outside any MSA.

The illustration for table 1 shows the 41 broad lines presented. In addition, more detailed lines are shown for certain kinds of business in table 1. Table 2 reorganizes the data to feature the kinds of business that carry each broad line.

4. Miscellaneous Subjects, III III , presents specialized data for the Nation as a whole and, where feasible, for States and MSA's on the facilities and operating characteristics of eating and drinking places, gasoline service stations, liquefied petroleum (LP) gas dealers, and other subjects not published elsewhere.

#### Current Retail Trade Statistics (Current Business Reports)

- Advance Monthly Retail Sales, series CB-[year/month] m (subscription from Census Bureau) . An early report of monthly retail sales and trends by kind-of-business groups at the national level only. The figures are based on a subsample of the Census Bureau's retail trade survey sample. The series provides the following: advance estimates for the current month, preliminary and final estimates for the two preceding months, and final estimates for the same two months a year earlier. Each report is released about 2 weeks after the end of the month it covers.
- Monthly Retail Trade: Sales and Inventories, series BR-[year/month] 

  (subscription from Census Bureau) ■ A monthly report of sales estimates, including dollar volume and percentage changes, summarized by major kind-of-business groups for the United States, and summarized by a few selected kind-of-business groups for census regions and divisions, and for the most populous 19 States (CA, FL, IL, IN, LA, MD, MA, MI, MN, MO, NJ, NY, NC, OH, PA, TN, TX, VA, WI), 25 MSA's and CMSA's (see appendix B), 15 PMSA's, and 4 cities (New York, Los Angeles, Chicago, Philadelphia). Comparable data are shown for the prior 12 months, along with the percent change from the previous month, the same month in the previous year, and cumulative year to year. Separate sales figures are displayed for large firms operating 11 or more retail stores, with comparative data for previous comparative data for previous months. In addition, national estimates of endof-month inventories and inventory/sales ratios are presented for broad kind-of-business categories.

A 10-year time series of monthly and annual data is published each year as part of the same subscription package, a few months after the close of the calendar

#### Tables From Monthly Retail Trade, Series BR

Table 1. Estimated Monthly Retail Sales, by Kind of Business

(Data in millions of dollars)

SIC	Kind of business			19	189						1988			MORTH I	Total	6 mos
code	HIT OF DUSTICES	Jan.	Feb.	Mar.	Apr.	May	Junep	Jun.	July	Aug.	Sept.	Oct.	Nov.	Dec.	1989	1988
	Unadjusted											Hole	limens hi	West Ha	iii dini	III SIG
	Retail trade, total	122,467	118,891	139,759	137,924	148,165	146,939	139,051	135,371	140,201	133,000	135,898	140,249	170,811	814,145	773,620
	Total (excl. automotive group)	95,234	91,890	106,497	105,433	112,923	112,265	104,339	103,526	107,238	103,252	106,238	111,483		624,042	586,187
	Durable goods, total	48,038	45,146	53,784	53,754	58,971	58,316	57,196	53,020	55,153	51,076	51,113	51,683	59.847	316,007	308,651
52 521,3,5	Building materials group stores Building materials, supply stores,	5,880	5,491	6,774	7,865	9,069	8,748	8,476	7,814	8,150	7,811	7,878	7,318	7,255	43,827	42,670
521,3 525	hardware Building materials, supply stores Hardware stores	5,313 4,381 952	4,857 3,992 865	5,892 4,842 1,050	6,633 5,405 1,228	7,534 8,180 1,354	7,441 6,120 1,321	7,351 6,071 1,280	6,915 5,675 1,240	7,143 5,957 1,186	6,894 5,707 1,187	6,913 5,691 1,222	6,519 5,337 1,182	6,349 4,979 1,370	37,870 30,900 6,770	38,430 29,786 6,644
55 ex 554 551,2,5	Automotive dealers Motor vehicle and miscellaneous	27,233	27,201	33,262	32,491	35,242	34,674	34,712	31,845	32,963	29,748	29,660	28,766	28,613	190,103	187,433
6,7,9 551,2 551 553	automobile dealers	25,134 24,281 22,877 2,099	25,216 24,153 22,696 1985	30,818 29,352 27,545 2,444	29,965 28,120 28,371 2,526	32,516 30,440 28,438 2,726	31,972 29,817 28,016 2,702	31,910 29,850 28,224	29,200 27,380 25,878	30,188 28,566 27,001	27,161 25,909 24,300	27,073 25,637 24,127	26,281 25,276 23,898	26,180 24,802 23,395	175,621 166,163 155,943	172,887 163,314 154,638
57 571 5712 5713 5722,32 5722 5732	Furniture group stores  Furniture 6 home fum. stores  Furniture stores  Floor covering stores  Household appliance, radio & tv.  Household appliance stores  Radio and television stores	7,505 3,719 2,283 818 3,256 745 2,511	7,054 3,471 2,113 775 3,075 654 2,421	7,840 3,882 2,338 951 3,427 759 2,668	7,596 3,818 2,315 896 3,274 740 2,534	2,726 8,089 3,995 2,382 946 3,587 821 2,768	2,702 8,346 4,027 2,397 949 3,786 862 2,924	2,802 7,725 3,881 2,357 963 3,336 948 2,390	2,845 7,490 3,742 2,270 896 3,251 942 2,309	2,775 7,837 3,910 2,291 984 3,372 920 2,452	2,587 7,543 3,780 2,254 944 3,220 804	2,587 7,713 3,931 2,341 947 3,237 814	2,485 8,643 4,236 2,498 973 3,844 935	2,433 11,130 4,636 2,756 989 5,493 1,208	14,482 46,430 22,912 13,826 5,333 20,405 4,581	14,546 42,596 21,801 13,474 5,041 18,152 4,890
5941	Sporting goods stores and bicycle shops	1,028	1,083	1,257	1,256	1,351	1,350	1,368	1,264	1,359	2,418 1,155	2,423 1,075	1,275	4,285	7,325	13,462
5942	Book stores	542	366	368	380	409	404	411	368	499	515	392	453	822	2,489	7,023
5944	Jewelry stores	721	849	818	827	1,059	951	875	828	875	830	867	1,131	3,020	5,225	5,024

Table 9. Estimated Monthly Retail Sales, by Selected Kind of Business for Specified Areas and Cities

(Data in millions of dollars, not adjusted for seasonal variations, holiday, or trading day differences)

			198	29						1988			5.52	Pe	rcent char	100
Area and kind of business <sup>1</sup>			140		A.					1900	-			Jun. 198	89 from	6 mos 1989
	Jan.	Feb.	Mar.	Apr.	May	June <sup>p</sup>	Jun.	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jun. 1988	May 1989	from 6 mos 1988
Atlanta, GA MSA, total	1,738 1,019 115 120 343	1,677 1,025 119 124 345	1,926 1,184 175 179 442	1,851 1,130 176 180 431	1,962 1,184 193 197 479	1,910 1,170 184 188 480	1,848 1,105 173 178 438	1,783 1,092 156 162 407	1,865 1,153 185 191 460	1,798 1,108 177 183 433	1,836 1,184 198 202 464	1,914 1,251 238 244 544	2,354 1,525 359 371 842	+3.4 +5.9 +6.4 +5.6 +5.5	-2.7 -1.2 -4.7 -4.6 -4.0	+4.7 +5.3 +2.1 +.8 +2.6
Beitimore, MD MSA, total	1,088 695 78 81	1,069 695 83 87	1,241 803 105 110	1,226 782 118 121	1,294 817 120 125	1,316 831 116 121	1,250 734 110 114	1,178 722 97 101	1,238 747 107 111	1,190 749 113 118	1,222 784 121 128	1,302 827 156 162	1,619 1,083 251 259	+5.3 +13.2 +5.5 +6.1	+1.7 +1.7 -3.3 -3.2	+4.5 +10.9 +4.2 +4.4

year. For example, Revised Monthly Retail Sales and Inventories: January 1979 through December 1988, BR-13-88S, was published in April 1989.

 Annual Retail Trade, series BR-[year]-13 □ (part of monthly subscription) . An annual report of estimates of annual sales, year-end inventories, inventory/sales ratios, methods of inventory valuation, and accountsreceivable balances for the United States. Comparable data are shown for the previous year, along with yearto-year percentage changes. This report typically becomes available about 1 year after the end of the reference year.

For more information about retail trade, see also-

- Outlying Areas (p. 73)
- Enterprise Statistics (p. 76)
- Minority- and Women-Owned Businesses (p. 79)
- County Business Patterns (p. 83)
- Quarterly Financial Report (p. 85)
- Population and Housing (p. 96), for characteristics of persons employed in retail trade.

### Major Data Items Published in Wholesale Trade Reports by Geographic Level

[Legend: • —Places, counties, MSA's, States, and national. M—MSA's, States, and national. N—National only. S—States and national.]

Item	5 10 7		Serie	5	The state of the s	
	WC87-A	WC87-S-1	WC87-S-2	WC87-S-3	WC87-S-4	BW-[Yea
NUMBER OF ESTABLISHMENTS AND FIRMS			101		ran-best to MCI	THE
Establishments with payroll	van Land 🐽 🗀	N	Control of	Jane Comment	⁴N	
Single- and multiestablishments		N				
Firms		N			in any and	
Single- and multiestablishment	1	N	The State of the In-	1 12 A THE LOCAL PROPERTY OF THE LOCAL PROPE	ILLE POPER BY	
Concentration by major firms	TON SOCIAL PROPERTY.	N	VI CONSCI TIME	NETTER STATE	some marchaeld in of	
EMPLOYMENT	and Minn III	THE THE PARTY	THE REAL PROPERTY.	1 WELLOW	Next proops bett	
All employees, March 12	HET PAIL	2 <sub>N</sub>	1 Nº 2 190 0	SCHOOL STREET	o executives N	
Employment size of establishments	and set of	N		0.00		
Employment size of firms	100	N	2 1144 30 1	estrate y	1 - 1 - OHF 57 040	
Employment by principal activity	Mary Comment	11 1152 1415		100	N N	
PAYROLL	Section 1971	- Jr - \$1998   1 pc	EL CALLE THE P	. HEZE	- miles brown amar	
All employees, entire year		²N	2 <sub>N</sub>	Edite 1	Marie has study in it	
All employees, first quarter	S	<sup>2</sup> N		1135-15	The state of the s	
Supplemental labor costs, legally required and voluntary			2 <sub>N</sub>	277	The state of the same of the s	
AUGO DEGENERA OF MANUE OF GUIDALTING		The second second	1	and the	mercan debated with	
SALES, RECEIPTS, OR VALUE OF SHIPMENTS	W. W.		STATE OF THE REAL PROPERTY.	TOTAL CONTRACTOR		
Establishments with payroll	ary metals	N	<sup>2</sup> N	201	VIII.	1 200
Sales by— Commodity line		to law to	r Hilly Line	3 <sub>M</sub>	Series and the series	
Class of customer	9/1	a ga dipt		79	N	
Size of firms	- 18	N			Transfer III	
Size of firms	entra la territoria	THE NAME OF			× 11	
OPERATING EXPENSES	- 1	C All III	10.0	THE STATE OF		
Total	s	2N	<sup>2</sup> N	110 11		
Cost of materials, etc			2N 2N			
Cost of fuels			2 <sub>N</sub>			
Contract work	a	5 - 19 - N 2 - 1-1	<sup>2</sup> N	in dear - ngg	a of following fall	
Advertising			<sup>2</sup> N	and the same	a contract to the	
Rental payments, total			2N 2N			
Machinery and equipment			<sup>2</sup> N			
Communications services			<sup>2</sup> N			
Purchased repairs			<sup>2</sup> N			
CAPITAL EXPENDITURES				l l		
Total	god Tepal.	L 9.	2 <sub>N</sub>	AT - 1.5		
New, total			<sup>2</sup> N			
Buildings/equipment			2 <sub>N</sub>		and the second	
No. 12. Call Call Life Control of the Call		1	I I I	W 17 " 1	E 36 DH - 4 6 C	
DEPRECIABLE ASSETS, GROSS VALUE OF BUILDING/EQUIPMENT	ight that the	pri tr		B. C.	A CHARLES	
ACCORDING CONTRACTOR C	Alle Store		2N			
End of 1986		F-1	2 <sub>N</sub>		DATE OF THE PARTY OF	
Depreciation (detail for buildings/equipment and/or total)		199	2N	9 9		
Retirements	(5)	112	2N		117.48	
INVENTORIES						
End of 1986 (previous period)	s	N	s	through being in	I I I I I I I I I I I I I I I I I I I	N
LIFO <sup>4</sup> , non-LIFO, and reserves	retor in to a line	N.	N CENTRE	THEORY WALL	MARINET N END	NAME .
End of 1987 (current period)	s	· N	s	Chesty in paylo	usklub zavi N bis	PI ES N
LIFO, non-LIFO, and reserves.	of principals, in	N	N		N	
OTHER		TO FE	15 14 TE	THE PERME	A night Stores,	
Value added	Saller Shall "	I HOUSE SHI	N T	leanna na le	s prospinoso is	
Central administrative offices and auxiliaries	and the second	antis \	S S	holidown by a	ment action les	
Employment by principal activity	100	8701	-tu trous all	MARKET THE REST	N	
and brokers.	arki y mase =	alde to	A	The late of the second	N	
		DIDE IN	that pouls is	a care de entre	or asmenti ais Mr. 101 master	
SPECIFIC KINDS OF BUSINESS	- Unidativity	100	there in the case			
Petroleum bulk plants:  Bulk storage capacity by type of product	usiB dimessib	25(0)(0)	A ALESON IN	Men Engly Sn Vi	5.	
Gallon sales of petroleum by type of product	the many	- AT- 19	mail plat to h	and State of the	SOF MILE	
Method of receiving petroleum bulk liquid			2.		s	
products					5	

<sup>1</sup>For complete title, see descriptions starting on page 35, presented for petroleum bulk stations and terminals.

<sup>2</sup>Merchant wholesalers only.

<sup>3</sup>Fifteen States and 15 metropolitan statistical areas.

<sup>4</sup>Last in, first out.

<sup>5</sup>States and counties



## Wholesale Trade

#### WHAT IS WHOLESALE TRADE?

The census and current surveys of wholesale trade cover establishments engaged in selling merchandise to retailers; to industrial, commercial, institutional, farm, or professional users; or to other wholesalers; or acting as agents or brokers in buying merchandise for or selling merchandise to such persons or companies. In addition to selling, functions frequently performed by wholesale establishments include maintaining inventories of goods; extending credit; physically assembling, sorting, and grading goods in large lots; breaking bulk and redistributing smaller lots; delivery; refrigeration; and various types of promotion such as advertising and label designing.

As discussed in the section on retail trade, there are gray areas between what is considered wholesale trade (establishments selling primarily to businesses and institutions) and retail trade (establishments selling merchandise primarily for personal or household consumption). Normally a store is classified as wholesale if more than half of its sales are to businesses and institutions. Lumber yards; paint, glass, and wallpaper stores; and gasoline service stations can be classified as retail even when sales to businesses exceed sales to individuals. On the other hand, firms primarily engaged in selling such merchandise as plumbing equipment, electrical supplies, used automobile parts, and office furniture are classified in wholesale trade even if a higher proportion of their sales is made to individuals for household use. Establishments primarily engaged in wholesale distribution of used products (except automobile used parts, which has its own classification) are classified on the basis of the products sold.

Wholesale firms without employees were excluded from the census. In the census of retail trade, the sales of firms with no paid employees are derived from administrative records of other Federal agencies rather than from a direct mail canvass. These sources have proven impractical for wholesale firms without paid employees since these administrative records do not have consistent sales figures nor adequate classification by kind of business for wholesalers. Warehouses, administrative offices, and other auxiliary establishments that primarily serve wholesale establishments within the same company are not counted in the census of wholesale trade, but are included in the Auxiliary Establishments report (see p. 76).

#### HOW ARE WHOLESALE ESTABLISHMENTS CLASSIFIED?

#### By SIC

In general, wholesale establishments are classified by kind of business according to the principal lines of goods sold. There are 2 major Standard Industrial Classification (SIC) groups in wholesale trade, subdivided into 18 industry groups-

50	Durable goods wholesalers
501	Motor vehicles and motor vehicle parts and supplies
502	Furniture and home furnishings
503	Lumber and other construction materials
504	Professional and commercial equipment and supplies
505	Metals and minerals, except petroleum
506	Electrical goods
507	Hardware, and plumbing and heating equip men and supplies
508	Machinery, equipment, and supplies
509	Miscellaneous durable goods
51	Nondurable goods wholesalers
511	Paper and paper products
512	Drugs, drug proprietaries, and druggists' sundries
513	Apparel, piece goods, and notions
514	Groceries and related products
515	Farm-product raw materials
516	Chemicals and allied products
517	Petroleum and petroleum products
518	Beer, wine, and distilled alcoholic beverages

These major SIC groups are subdivided into four-digit industries, as shown in appendix A.

Miscellaneous nondurable goods

#### By type of operation

519

In addition to classification by SIC, the census of wholesale trade also categorizes establishments by type of operation, the principal types being-

 Merchant wholesalers who take title to the goods they sell, such as wholesale merchants or jobbers; industrial distributors; voluntary group wholesalers; exporters and importers; cash-and-carry wholesalers; drop shippers; truck distributors; retailer cooperative warehouses; terminal grain elevators; cooperative buying associations; and assemblers, buyers, or cooperatives engaged in the marketing of farm products.

- Sales branches and sales offices (but not retail stores) maintained by manufacturing, refining, or mining enterprises apart from their plants or mines for the purposes of marketing products that they manufacture or mine in the United States or its possessions.
- · Agents, merchandise or commodity brokers, and commission merchants who buy and sell goods on the account of others and receive a commission for the transaction.

Merchant wholesalers account for over 80 percent of all wholesale establishments, and for many users they are the main group of interest. Many of the more specialized statistics in the census of wholesale trade are collected only for merchant wholesalers. For all types of operation, the sales figures reported represent the total value of goods involved in transactions, even though agents and brokers may never handle funds beyond their own commissions.

#### **HOW ARE THE DATA COLLECTED?**

For the 1987 Census of Wholesale Trade, questionnaires were used to obtain the census data by mail from all firms with paid employees. (Those without paid employees are not included in the census.) There were 47 variants of the census questionnaire so that each kind of business could answer the items in terms of categories relevant to its operations.

In addition to the regular census reports, a small sample of establishments was sent an additional questionnaire for 1987 covering operating expenses, capital expenditures, and depreciable assets. The results are published as part of the census in the Subject Series.

The monthly and annual wholesale trade survey data also are collected by mail, but from a sample of merchantwholesaler firms only. The sample list from the census is updated with "births" obtained from administrative records during the years between censuses. These surveys concentrate on a much narrower set of data items than the census-i.e., monthly and annual sales, monthly and yearend inventories, and inventory and sales ratios.

#### What's New for 1987?

Wholesale Trade

• SIC changes. The 1987 SIC now identifies several new kinds of wholesale trade businesses separately, for example:

Office equipment (5044)

Computers and computer peripheral equipment and software (5045)

Other adjustments include—

Those used motor vehicle parts previously classified in retail trade were transferred to wholesale trade and combined with wholesale used motor vehicle parts (5015)

Several four-digit industries are grouped differently into three-digit industry groups

The impact of these changes can be explored in Geographic Area Series table 3, which shows 1982 data together with 1987 data classified on the 1982 system (see p. 36).

- No preliminary reports. To expedite the production of final reports, preliminary reports, such as were published for 1982, were dropped. Instead, selected final data are being issued in the form of press releases to the media and via CENDATA<sup>TM</sup> several weeks before corresponding State reports are available.
- Terminology. Wholesale census subject reports were labelled "industry reports" for 1982.

#### How Have Wholesale Trade Data Been Used?

A restaurant supply wholesaler calculated that it had roughly an 11-percent market share in its primary sales region in the northern Mountain States, and used that figure as a target when it expanded into Arizona and New Mexico.

An insurance company used counts of establishments and sales by kind of business on computer tape to redesign sales territories and set quotas and incentive levels for agents. By comparing census figures to their own records on customers by kind of business, company executives quantified the extent to which some kinds of business were better prospects than others.

#### REPORTS

#### **Press Releases**

Press releases, A, are issued for each State report of the Geographic Area Series several weeks before the availability of the corresponding reports. The releases highlight key findings and include data from table 1 illustrated below, as well as county rankings.

#### **Final Reports**

 Geographic Area Series, WC87-A-1 to -52, □ ■ ♥ ○ ■ □. A separate report is issued for the United States, each State, and the District of Columbia. Each State report provides data for the State, its MSA's, and counties and places with 200 or more wholesale establishments, on the number of establishments, sales, payroll, and employment by kind of business and type of operation (total, merchant wholesalers, other operating types). Data at the State level are more extensive, with the addition of statistics on inventories and operating expenses and detailed types of operation, such as country grain elevators and export agents. The report also includes statistics for wholesale trade in all counties and incorporated places with 2,500 inhabitants or more, but without any kind-of-business detail. Comparative statistics are shown from the 1982 census only at the State level in "bridge" tables which show the relationship between old and new SIC's where changes have occurred (see table 3).

The U.S. Summary report, WC87-A-52, offers corresponding data at the national level and serves as a convenient compendium of abbreviated data for States, MSA's, and the 250 top ranking counties and places.

Only selected data for States (tables 1 and 3) and counties (from table 5) are available on diskette .

- Subject Series, WC87-S-1 to -4.
  - 1. Establishment and Firm Size (including Legal Form of Organization),  $\square \equiv \emptyset \odot$ , presents data for the United States based on size of establishment, size of firm, and legal form of organization. Data are shown by kind of business and type of operation on the number of establishments and sales. For merchant wholesalers, the data include payroll, employment, operating expenses and inventories. Establishment data are provided by sales and employment size; data are presented for firms by sales size (including concentration by largest firms), by employment size, and by number of establishments operated.
  - 2. Measures of Value Produced, Capital Expenditures, Depreciable Assets, and Operating Expenses, □ ■ , presents data for the United States for merchant wholesalers with payroll by major kind-ofbusiness categories. Data are presented on capital expenditures, depreciable assets, gross margin, value added, and net income produced. These data are based on a sample of 5,100 wholesale firms

#### Tables From Wholesale Trade Geographic Area Series, WC87-A

Table 1. Summary Statistics for the State: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms and comparability of 1982 and 1987 censuses, including revised methodology for presenting establishment counts, see appendix A]

1987 SIC code	Type of operation and kind of business	Estab- lish- ments (number)	Sales (\$1,000)	Annual payroll (\$1,000)	First quarter payroll (\$1,000)	Paid employees for pay period including March 12 (number)	Operating expenses (\$1,000)	End-of-1986 inventories (\$1,000)	End-of-1987 inventories (\$1,000)
91214	Wholesale trade	7 100	29 971 953	1 770 867	431 410	76 393	3 526 721	1 730 576	1 784 730
	TYPES OF OPERATION			1-11/21/2	- 11 - 63	THE PROPERTY AND	man the	mentio lea	
	Merchant wholesalers	5 675	15 436 921	1 217 749	290 651	57 298	2 470 801	1 437 874	1 513 491
	Wholesale distributors and jobbers Importers Exporters Terminal grain elevators Country grain elevators Assemblers of farm products, except country grain	5 330 165 33 3 101	13 235 572 1 382 825 166 770 33 718 328 984	1 132 454 50 288 6 223 1 365 12 269	271 179 11 351 1 429 251 2 812	53 217 2 079 243 68 656	2 258 911 118 599 15 622 3 941 36 372	1 278 380 119 158 9 200 2 559 19 685	1 329 505 130 350 12 669 6 255 25 942
_	elevators.	43	289 052	15 150	3 600	1 035	37 356		8 770
	TYPES OF OPERATION BY KIND OF BUSINESS			70 (C)	-10 m	$\smile$	DI MAY U		
	Wholesale trade	7 100	29 971 953	1 770 867	431 410	76 393	3 526 721	1 730 576	1 784 730
50	Durable goods	4 830	16 578 433	1 145 521	281 797	47 175	2 231 657	1 206 217	1 202 832
501 5012 5013 5014 5015	Motor vehicles and motor vehicle parts and supplies Automobiles and other motor vehicles	683 127 381 66 109	5 440 305 4 373 275 820 634 214 581 31 815	137 060 48 072 68 483 13 275 7 230	33 077 12 054 15 883 3 405 1 735	6 721 2 106 3 439 613 563	278 339 95 887 136 361 32 151 13 940	242 862 119 292 93 494 27 353 2 723	244 021 119 790 95 024 26 361 2 846

## Table 3. Comparative Statistics Based on 1972 Standard Industrial Classification for the State: 1987 and 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms and comparability of 1982 and 1987 censuses, including revised methodology for presenting

1972 SIC	1987 SIC	senter count for some recorded	Establis	hments	to Jung	Sales	fords nive le	An	nual payroll	See A	Paid emple pay period March	including
code	code	Type of operation and kind of business	1987 (number)	1982 (number)	1967 (\$1,000)	1982 (\$1,000)	Percent change 1982 to 1987	1987 (\$1,000)	1982 (\$1,000)	Percent change 1982 to 1987	1987 (number)	1982 (number)
	Tarres I	Wholesale trade	7 038	6 667	29 957 807	26 879 561	11.5	1 767 666	1 478 017	19.6	76 107	76 868
50		Durable goods	4 733	4 432	16 536 525	14 443 096	14.5	1 140 411	964 528	18.2	46 752	47 631
501	an to	Motor vehicles and automotive parts and supplies	621	590	5 426 159	3 930 286	38.1	133 859	121 881	9.8	6 435	6 656
5012	5012	Automobiles and other motor vehicles	127	114	4 373 275	3 042 323	43.7	48 072	42 055	14.3	2 106	1 941
5013	5013 5015 pt.	Automotive parts and supplies  Motor vehicle supplies and new parts  Motor vehicle parts, used	428 381 47	408 380 28	838 303 820 634 17 669	658 895 646 757 12 138	27.2 26.9 45.6	72 512 68 483 4 029	63 396 61 861 1 535	14.4 10.7 162.5	3 716 3 439 277	3 888 3 751 137
5014	5014	Tires and tubes	66	68	214 581	229 068	-6.3	13 275	16 430	-19.2	613	827
502		Furniture and homefurnishings	251	266	672 218	591 177	13.7	47 871	53 685	-10.B	2 162	2 766
5021 5023	5021 5023	Furniture	123 128	120 146	293 551 378 667	260 409 330 768	12.7 14.5	23 221 24 650	27 780 25 905	-16.4 -4.9	1 021 1 141	1 341 1 425

### Table 8. Summary Statistics for Metropolitan Statistical Areas: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms and comparability of 1982 and 1987 censuses, including revised methodology for presenting establishment counts, see appendix A. For definitions of CMSA's, MSA's, see appendix D]

	or nearly grains in the purchast in	1110			a pion	in a	Merchant wi	holesalers		Other ope	rating types
1987 SIC code	Geographic area and kind of business	Estab- lish- ments (number)	Sales (\$1,000)	Annual payroll (\$1,000)	Paid employees for pay period including March 12 (number)	Estab- lish- ments (number)	Sales (\$1,000)	Annual payroll (\$1,000)	Paid employees for pay period including March 12 (number)	Estab- lish- ments (number)	Sales (\$1,000)
	COLORADO SPRINGS, CO MSA	,/114GE								C MAI	(83)
	Wholesale trade	537	986 408	88 777	4 483	465	650 314	64 371	3 654	72	335 094
50	Durable goods	416	672 511	66 381	3 233	369	423 321	47 493	2 646	47	249 190
501	Motor vehicles and motor vehicle parts and		10-11-						1.00		20000000
	supplies	69 12 33	104 756	7 064							(D)
5012 5013	Automobiles and other motor vehicles	12	69 959	1 730	Thi				lata fas		(D)
5014	Motor vehicle supplies and new parts Tires and tubes	33	17 841 12 772	3 158 996	THE	s ionnat is	also used	to snow c	iata ior –		(D)
5015	Motor vehicle parts, used	16	4 184	1 180	Tob	In C DI	anna with O	no antabil			Old St
	And the second s	1575	4 104	1 100	10 70 00	ALL THE STATE OF T	aces with 2				-
502	Furniture and homefurnishings	16	16 026	2 168	Tab	ole 7. Co	unties with	200 esta	blishments	s or more	والتود السبخ
5021	Furniture	7	12 772	1 815	Tah	le 9. Ar	ea outside	MCA'c	monte experience de la companya de l	The state of the s	Tion #
5023	Homefurnishings	9	3 254	353	l al	ne a, Al	ca outside	WION 5			7
503	Lumber and other construction materials	35	57 982	7 066							5 661
5031	Lumber, plywood, millwork, and wood panels	12	34 393	3 653	164	10	(D)	(D)	(D)	2	(D)

selected prior to the census and, therefore, establishments are classified according to the old SIC, unlike other 1987 census reports.

3. Commodity Line Sales, □ ■ ⊙ ○, shows which commodities are sold by which kinds of business, statistics essential for tracing the flow of goods from production through the various distribution channels. Only national data are available in print. Computer tape and CD-ROM include not only data at the national level but also 15 States (CA, CT, FL, GA, IL, MA, MI, MN, MO, NJ, NY, NC, OH, PA, TX) and 15 MSA's (see app. B). One set of tables shows sales by detailed commodity lines within kind of business. Another set of tables reorganizes the data to feature the kinds of business that carry each of 140 broad commodity lines. Table formats are

essentially the same as for retail merchandise line sales (see p. 30), except that there are separate tables for each of the three major types of operation.

4. Miscellaneous Subjects, 

mm, contains data by kind of business and type of operation for the United States on sales by class of customer, employment by principal activity, inventories by method of valuation, and commissions and gross selling value of agents and brokers. Special statistics for petroleum bulk stations and terminals report sales (in gallons and dollars) and storage capacities by type of product and facility for the United States, States, and selected counties.

#### Table From Wholesale Trade Subject Series, WC87-S-4

#### Table 1. Sales by Class of Customer for the United States: 1987

	Andrew Council Section 2	wallength.	Source	16-10	1,31	Percent	distribution	of sales by	class of c	customer <sup>1</sup>		0	
SIC code	Kind of business and type of operation	Estab- lish- ments (number)	Sales (\$1,000)	Farmers (for farm use)	Builders and con- tractors	For export	Retailers and repair shops	Whole- salers	House- hold con- sumers and indi- vidual users	Indus- trial users manu- factur- ing and mining	Institu- tional, commer- cial, and profes- sional, etc., users	Federal, State, and local govern- ments	Cov- er- age²
	Wholesale trade Merchant wholesalers Manufacturers' sales branches and	415 829 337 943	1 997 894 780 1 159 333 813	3.6 5.2	3.5 4.5	7.3 9.8	28.6 28.0	25.5 24.8	1.1 1.6	18.6 15.0	9.6 8.9	2.2 2.2	B
	offices Agents, brokers, and commission merchants	38 234 39 652	626 986 078 211 574 889	.7 4.5	2.4 1.6	3.1 6.9	32.5 19.7	22.6 37.5	6 3	24.5 19.6	11.3 8.1	2.3 1.8	В
50	Durable goods	256 103 209 326 22 098 24 679	881 212 118 476 818 459 320 745 138 83 648 521	1.9 3.5 .3 .3	7.4 10.5 4.1 4.0	4.9 5.2 4.3 5.5	25.6 22.2 31.6 19.2	18.7 20.5 14.7 25.9	1.2 2.0 .4 .3	25.5 22.4 27.6 33.6	11.8 10.7 14.0 8.8	3.0 3.1 3.0 2.5	CCBB
501	Motor vehicles and automotive parts and supplies Merchant wholesalers Agents, brokers, and commission merchants	39 460 36 438 1 633 1 389	187 607 295 91 394 201 87 247 526 8 965 568	.6 1.3 .1 .2	.9 1.8 .1 .1	1.8 1.7 1.9	64.5 42.5 88.4 37.7	21.8 37.2 5.9 31.2	1.9 3.7 .3 .3	3.4 3.6 1.3 22.9	3.8 6.1 1.3 5.9	1.4 2.1 .8 .8	8 8 8 8

#### Table From Monthly Wholesale Trade, Series BW

#### Table 1B. Unadjusted Estimated Monthly Sales, Inventories, and Stock/Sales Ratios of Merchant Wholesalers: 1989 and 1988

(Data not adjusted for seasonal variation or trading-day differences. Sales and Inventories in millions of dollars)

SIC	Kind of business				1989						19	88			Tot	tal 7 mos.
code	Kind of business	Jan.	Feb.	Mar.	Apr.	May	June	July	July	Aug.	Sept	Oct.	Nov.	Dec.	1989	1988
	Sales, Total	131,786	127,414	148,920	137,567	148,832	146,662	133,981	126,841	138,551	138,994	141,335	138,289	136,599	975,162	898,562
50	Durable goods	63,265	62,003	72,948	68,014	73,231	72,803	66,352	62,555	67,904	68,511	70,825	68,957	67,261	478,614	439,288
501 502 503 504	Motor vehicles & auto. equip Furniture & home furnishings Lumber & other construction mat Sporting, recreational, photographic	13,064 2,171 3,982	13,008 2,136 3,616	15,066 2,428 4,399	14,259 2,264 4,482	14,103 2,402 4,959	14,063 2,320 5,114	12,625 2,243 4,816	13,335 2,124 4,979	13,458 2,463 5,272	12,722 2,435 5,041	14,893 2,686 5,111	14,531 2,604 4,482	14,185 2,393 4,056	98,188 15,964 31,368	94,259 15,404 31,690
505 506 507	& hobby goods, toys & supplies	2,070 5,939 8,633	1,842 5,334 8,334	2,301 7,052 9,456	1,872 6,093 8,675	1,838 6,819 9,728	2,080 7,438 9,376	1,771 6,621 8,781	1,832 5,403 8,167	2,198 5,960 9,201	2,331 6,542 9,200	2,460 5,797 9,826	2,551 5,804 9,778	2,438 5,676 9,068	13,774 45,296 62,983	12,517 39,188 57,010
508 509	equipment	3,786 17,216 6,404	3,495 17,868 8,370	3,838 20,892 7,514	3,972 19,732 8,665	4,375 21,017 7,990	4,225 20,999 7,188	3,901 19,001 6,593	4,198 16,279 6,238	4,274 18,575 6,505	3,967 19,145 7,128	4,263 18,534 7,255	3,922 18,243 7,042	3,771 18,692 6,982	27,592 138,725 48,724	26,798 115,998 48,424

#### Current Wholesale Trade Statistics (Current **Business Reports**)

- Monthly Wholesale Trade: Sales and Inventories, series BW-[year/month], □ (subscription) ■ □ . A monthly report for selected kinds of business (three-digit SIC's classified on the 1972 system) for merchant wholesalers on sales, inventories, and stock (inventory)/sales ratios, with percentage changes and estimated dollar volume, for the United States only, issued 5 to 6 weeks after the end of the month. The January report contains all final data for the previous year.
- Annual Wholesale Trade, series BW-[year]-13 m (part of monthly subscription) . An annual report with estimates of annual sales, year-end inventories, sales/inventory ratios, method of inventory valuation, purchases,

and gross margins by selected three-digit SIC kinds of business, for merchant wholesalers for the United States. Comparable statistics are shown for the previous year, along with year-to-year percentage changes. The report is issued 8 to 9 months after the end of the year.

For more information about wholesale trade, see also-

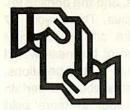
- Outlying Areas (p. 73)
- Enterprise Statistics (p. 76)
- · Minority- and Women-Owned Businesses (p. 79)
- · County Business Patterns (p. 83)
- Quarterly Financial Report (p. 85)
- · Population and Housing (p. 96), for characteristics of persons employed in wholesale trade.

## Figure 10. Major Data Items Published in Service Industries Reports by Geographic Level

[Legend: • —Places, counties, MSA's, States, and national. M—MSA's, States, and national. N—National only. S—States and national. Z—Zip Codes and States]

Item	A-6 SAFE	The reality and	The state of the s	Serie	98 <sup>1</sup>			
rimedaji in priiz planta siin	SC87-A	SC87-N	SC87-Z	SC87-S-1	SC87-S-2	SC87-S-3	SC87-S-4	BS
NUMBER OF ESTABLISHMENTS AND FIRMS								
All establishments		N	ner.	1	nutri	SV POLSK	Least territories	ASO.
Subject to Federal income tax	in the s	N	z	N		<sup>2</sup> M	<sup>2</sup> M	
Tax-exempt	М	120,001	1008-285	N		<sup>2</sup> M	<sup>2</sup> M	
Establishments without payroll	VS -75 •	N	(6V 6V0 )	N		2S	N	
Firms	The late	2- 22	SIGN ESCO.	N	Tree or Co	3	THE N	,
Single- and multiestablishment	714	1	201 990	N		and Continued	- A-1487	
Concentration by major firms	1 19	11 11 11 11 11	288 907	N				
All employees, March 12	s 8 .	1.6						
Employment size of establishment	The same		Z	N N	N	²S	<sup>2</sup> M	
Employment size of firm	10	4.4	172 814 1	N	- Linera	Marine Committee	- Train	
PAYROLL								
All employees, entire year	5 14 5	175	Z	N		<sup>2</sup> S	<sup>2</sup> M	
All employees, first quarter			367 170 1	N	= = 100 = f0	²S	<sup>2</sup> M	
TO COMPANY AND A CONTRACT OF THE CONTRACT OF T			1500 100		N			
RECEIPTS/REVENUES		(f) saw						
All establishments		N						
Receipts of taxable establishments	•	N	z z	N	N	2 <sub>M</sub>	2 <sub>M</sub>	N
Revenues of tax-exempt establishments	М			N	N	2S	<sup>2</sup> M	N
Establishments without payroll		: X(•)					<sup>2 3</sup> M	
Class of client	20 11 2 300	=- IIII0 M	o napozat	210x 1 1/33	ALLE PRESE	100	23M	
Type of service provided	-					<sup>2</sup> M	2 3 <sub>M</sub>	
Receipt size of establishments		MERRY -	Z	N N		14_1_1 (1.45)	S. MARKELLO	
Merchandise sales	-			N			2 <sub>N</sub>	
Exported services			711				4N	
Item	SC87-S-2	SC87-S-3	100	10	Item			SC87-S-4
OPERATING EXPENSES			ODEOUTIO WATE		de march		12. V 25301	
Total	2 <sub>N</sub>	2017		S OF BUSINESS-	-Con.		4.54	
Cost of fuels	N	DE LEN		and crematories: cash advances.				s
Cost of elecrticity.	N	-	Advertising ager				J 4500 (17.11)	
Advertising	N N							<sup>6</sup> M
Buildings and structures	N	THE PARTY	Help supply serv				-8 - 1 - ell!	7 - 1-7
Machinery and equipment	N			nnel supplied				<sup>6</sup> M
Communications services	N N	V. 34	Automotive park	ing: es				5 <sub>M</sub>
MACHINE LANGER 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A 19 4 19	T = 100	Motion picture th					·M
CAPITAL EXPENDITURES		_		nd capacity				5M
Total	N N		Number of scr	eens operated				<sup>5</sup> M
Buildings/equipment	N	(U) ITAL	Bowling centers:	No we come to			atti watiyy	
Used	N	time of the	Lanes operate	d and paid lanes t	oowled			S
DEPRECIABLE ASSETS, GROSS VALUE OF	/h/h = 541	oli . Ive ,	Hospitals:	are and nursing h	omo condoco		Annual Inc.	6 <sub>S</sub>
BUILDING/EQUIPMENT	F-622 / 4214	Z.11 (f)		tivities				
End of 1986	N	de e		organization for tax				s
End of 1987	N		Medical and den		esapelin to		Earlie 10	42 CK HIL-
Retirements	N		Personnel by o	occupation				S
	The Refine	Carrier 1	Legal services:	elachylpin	g Vall, albeite	BAB SAN	a de de la	HOS HIT WAS
CONTROL CONTRO				payroll by occupa of practice				5M 6M
A COLUMN TO SERVICE STATE OF THE SERVICE STATE STATE STATE OF THE SERVICE STATE STAT	- SI, 19						The second secon	
Hotels and motels:	- <u>1</u>	3м						
Hotels and motels:  Major sources of receipts		<sup>3</sup> M <sup>5</sup> M	Social services a	and membership or	ganizations:		2 hanni	N N
Hotels and motels:  Major sources of receipts.  Receipts from other sources.  Guestroom size	en i	⁵M N	Social services a Transferred co	and membership or	ganizations:	yn/m/este	.e. benint	erit m
Hotels and motels:  Major sources of receipts		<sup>5</sup> M	Social services a Transferred co Engineering, arch Personnel and	and membership or intributions hitectural services: payroll by occupa	ganizations:	Whitesto	(Charini (Charini)	erif m
Hotels and motels:  Major sources of receipts. Receipts from other sources. Guestroom size Number of guestrooms Organization affiliation Transient and residential occupancy.		5M N 3M	Social services a Transferred co Engineering, arch Personnel and	and membership or	ganizations:	Whitests	.e. Emint	eril to
Receipts from other sources.  Guestroom size  Number of guestrooms  Organization affiliation		5M N 3M 5M	Social services a Transferred co Engineering, arch Personnel and Fees by type of Accounting, audit	and membership or intributions hitectural services: payroll by occupa	ganizations: tion.		ie Emini in production (Control of the Control of t	in the N

<sup>&</sup>lt;sup>1</sup>For complete titles, see descriptions starting on page 41. <sup>2</sup>Selected industries. <sup>3</sup>United States, selected States, and selected metropolitan statistical areas. <sup>4</sup>26 kinds of businesses within advertising agencies, equipment rental, computer/data processing, legal services, engineering/management. <sup>5</sup>Selected metropolitan statistical areas and U.S. <sup>6</sup>United States and selected States.



## Service Industries

#### WHAT ARE SERVICE INDUSTRIES?

The census of service industries and the Service Annual Survey (SAS) cover establishments engaged in **providing services for individuals, business and government establishments, and other organizations**; for example, establishments providing personal, business, repair, amusement, health, legal, and engineering services. The census corresponds to one of the major SIC divisions, except for the exclusion of elementary and secondary schools; colleges; labor, political, and religious organizations; and private household services. At the same time, the service division of the SIC is much smaller than what is frequently referred to as the economy's service sector, which encompasses everything except agriculture, construction, manufacturing, and mining (the goods-producing sector).

Specialized services closely allied to activities in other sectors are classified in those SIC divisions rather than as service industries. For example, agricultural services such as veterinarians and farm labor contractors are classified in the agriculture sector (though not included in the census of agriculture); mining services such as oil well drilling are counted in the census of mineral industries; plumbing, painting, and electrical work are included in the census of construction industries; printing and services closely related to manufacturing such as gold plating and engraving are covered in the census of manufactures. Finance, insurance, and real estate constitute an SIC division of their own, which will not be covered until the 1992 Economic Censuses.

For further discussion of services as they may be performed in industries both inside and outside the services division of the SIC, see the *Guide to Service Industry Statistics and Related Data*, cited on p. 111.

## HOW ARE SERVICE ESTABLISHMENTS CLASSIFIED?

#### By SIC

In general, service establishments are classified by kind of business according to the principal services provided. There are 16 SIC major groups, but one major group and parts of two others are not covered in the census—

- 70 Hotels, rooming houses, camps, and other lodging places
- 72 Personal services
- 73 Business services

- 75 Automotive repair, services, and garages
- 76 Miscellaneous repair services
- 78 Motion pictures
- 79 Amusement and recreation services, except motion pictures
- 80 Health services
- 81 Legal services
- 82 Educational services (the census excludes 821, elementary and secondary schools; and 822, colleges, universities, professional schools, and junior colleges)
- 83 Social services
- 84 Museums, art galleries, and botanical and zoological gardens
- 86 Membership organizations (the census excludes 863, labor unions and similar organizations; 865, political organizations; and 866, reli gious organizations)
- 87 Engineering, accounting, research, manage ment, and related services
- 88 Private households (not covered)
- 89 Services, n.e.c.

These major SIC groups are subdivided into three-digit industry groups, which in turn are subdivided into four-digit industries, as shown in appendix A.

The scope of the Service Annual Survey is more limited than the census, excluding all of SIC's 82 to 86, 88, and 89 except for the following industries that are included: 824, vocational schools (taxable, see below); 835, child day-care services (taxable and tax-exempt); 833, job training and vocational rehabilitation (tax-exempt); 836, residential care (tax-exempt); and 8733 (old 892), noncommercial research organizations. In addition, the SAS includes SIC's 4722, arrangement of passenger transportation (covered in the census of transportation), and 653, real estate agents and managers (not covered in the economic censuses).

#### By tax status

In addition to classification by SIC, the census of service industries also differentiates those services which are subject to Federal income tax from those that are exempt. About 10 percent of service establishments with payroll are tax-exempt, accounting for over 15 percent of employment in service industries.

Most of the service industries do not have tax-exempt components, while a few, for example, SIC major group 86, membership organizations, are defined as tax-exempt. Some service industries include both taxable and taxexempt establishments, for example, SIC 806, hospitals, and 835, child day-care services.

Taxable and tax-exempt services are always summarized in separate tables, as illustrated by tables 1a and 1b on pages 41-42. Separate tables are required because the primary measure of the dollar volume of business for taxable service establishments is **receipts**, while for tax-exempt establishments it is **revenue**—i.e., operating receipts plus contributions, grants and other nonoperating revenues. In the census, statistics on tax-exempt services are presented for States and MSA's, but not for smaller geographic areas. Further, while there is a special report series for nonemployers subject to Federal income tax, there are no census statistics for tax-exempt nonemployers.

#### **HOW ARE THE DATA COLLECTED?**

For the 1987 Census of Service Industries, data were gathered through a combination of questionnaires, which

were sent to all but the smallest firms, and the administrative records of other Federal agencies. There were 37 variants of the census questionnaire and 10 different classification forms so that each kind of business would answer in terms of categories relevant to its operations. Questionnaires were mailed to all firms above a certain size cutoff (generally equivalent to four or more paid employees), and to a sample of smaller firms with paid employees. Information for firms with no employees and for small firms not in the sample were obtained from Federal administrative records, as discussed in chapter 1.

In addition to the regular census reports, a separate survey collected data on capital expenditures, depreciable assets, and selected operating expenses; the results are published as part of the census Subject Series.

The Service Annual Survey is based on a mail sample of firms covered by the census, updated with "births" reported in administrative records during years between economic censuses. The survey concentrates on receipts.

#### What's New for 1987?

#### Service Industries

- · Hospitals. The 1987 census is expanded to include hospitals, omitted in 1982 but included in the 1977 census.
- SIC changes. The number of service SIC's has expanded from 131 to 150. Among the most important changes are—
   Computer and data processing services—three SIC's expanded to nine.
  - Management and public relations—one SIC expanded to five.
  - Equipment rental and leasing—one SIC expanded to three, including videotape rental (7841).
  - A new major group 87—engineering, accounting, research, management, and related services—formed with components drawn from other areas.

The impact of these changes can be explored in Geographic Area Series tables 3a and 3b, which show 1982 data together with 1987 data classified on the 1982 system.

- New inquiries. For selected industries, data are reported by class of client (e.g., differentiating government from other clients). Export of services is reported for more industries than in 1982.
- No preliminary reports. To expedite the production of final reports, preliminary reports, such as were published for 1982, were dropped. Instead, selected final data are issued in the form of press releases to the media and via CENDATA<sup>TM</sup> several weeks before corresponding printed reports are available.
- Nonemployer reports. Data for service industries establishments with no paid employees (e.g., "mom and pop" stores) are published in separate reports. All other census reports cover only establishments with payroll.
- More kinds of business for small counties and places. Receipts for 10 kinds of business, up from 5 in 1982, are tabulated for all counties and places regardless of the number of establishments. More detailed kinds of business are provided for those counties and places with 350 or more service establishments with paid employees, as compared to a cutoff of 300 in 1982.
- ZIP Code data. Limited data are issued for individual ZIP Codes on computer tape and CD-ROM.
- Terminology. Service census subject reports were labelled "industry reports" for 1982.

#### How Have Service Industries Data Been Used?

A manufacturer of solar water heater panels sought to attract new investors. He found census data showing growth among the kinds of firms he thought would be his best customers: hotels, motels, and institutional health care facilities. He changed his prospectus to prominently feature that growth.

A beautician contemplated branching out and starting her own children's shop. Using the subject report, *Establishment and Firm Size*, she calculated payroll per employee and sales for firms with one to four employees. She used these figures as part of her estimates of startup costs and revenue.

A west coast purveyor of diskette duplication services is planning to use the numbers of businesses by ZIP Code on CD-ROM in assessing the completeness and coverage of its direct mail list of service and retail businesses. For industries where its coverage is poor, the purveyor may purchase other industry-specific mailing lists or purchase advertising space in appropriate trade periodicals.

#### **Press Releases**

Press releases, A, are issued for each State report in the Geographic Area Series several weeks before the availability of the corresponding reports. The press releases highlight key findings and include data similar to table 3b illustrated below, except for taxable establishments.

#### **Final Reports**

• Geographic Area Series, SC87-A-1 to -52, □ ■ ② ○ ■ . A separate report is issued for the United States, each State, and the District of Columbia. Each report contains statistics for establishments with payroll (see below for nonemployer statistics) on the number of establishments, receipts/revenue, payroll, and employment, by kind of business, for the State and its MSA's, and for counties and incorporated places with 350 or more taxable service establishments. In addition, each State report provides basic data for 10 kinds of taxable business for all counties and for incorporated places with 2,500 inhabitants or more. Basic data are also published by kind of business for tax-exempt industries for each State and MSA. Some comparative statistics from the previous census are shown.

The U.S. Summary, SC87-A-52, provides corresponding data at the national level and serves as a convenient compendium of abbreviated data for States, MSA's, and the 250 top ranking counties and places.

Only selected data for States (tables 1a, 1b, 3a, and 3b) and counties (from table 5) are available on diskette

- Nonemployer Statistics Series, SC87-N-1 to -4, ☐ ② ○. A separate report for each of four geographic regions (see p. 11) presents statistics on the number of establishments without payroll and their receipts by kind of business for the same areas as in the Geographic Area Series: States, MSA's, counties, and places with 2,500 inhabitants or more. While more detailed classifications are shown for States and MSA's, only 12 kinds of business are shown for counties and places (see table 4, p. 44). Establishments and receipts are also shown in each regional report for the United States as a whole on all establishments, establishments with payroll, and establishments without payroll by kind of business. Only firms subject to Federal income tax are included.
- ZIP Code Statistics Series, SC87-Z, ⊕ ⊙, includes data for employer service establishments by kind of business for each five-digit ZIP Code on number of establishments in various sales-size and employment-size groups. These establishment counts by size class are not considered to be a disclosure of confidential information, so there is a data line for every kind of business with one or more establishments within a ZIP Code. Also included for each five-digit ZIP Code, for service industries as a whole (not by kind of business), are statistics on number of establishments, receipts, annual payroll, and number of employees. Only firms subject to Federal income tax are included.

#### Tables From Service Industries Geographic Area Series, SC87-A

#### Table 1a. Summary Statistics for Firms Subject to Federal Income Tax for the State: 1987

[Includes only establishments with payroll. For meaning of abbreviations and symbols, see introductory text. For explanation of terms and comparability of 1982 and 1987 censuses, including revised methodology for presenting establishment counts, see appendix A]

1987	(a. (b. (a. (b. (b. (b. (b. (b. (b. (b. (b. (b. (b	15			Acres (A.A.	Paid employees	Unincorpo businessi operatio	es or
SIC code	Kind of business or operation	Establish- ments (number)	Receipts (\$1,000)	Annual payroll (\$1,000)	First quarter payroll (\$1,000)	for pay period including March 12 (number)	Individual proprie- torships (number)	Partner- ships (number)
	Total	25 250	10 639 463	4 011 254	979 596	243 999	7 852	1 753
70 ex. 704	Hotels, rooming houses, camps, and other lodging places (except membership lodging)	833	1 072 692	301 693	73 762	34 345	244	230
7011 7011 pt. 7011 pt. 7011 pt. 7011 pt. 7011 pt. 7011 pt. 7011 pt.	Hotels and motels  Hotels  Hotels, 25 guestrooms or more  Hotels, less than 25 guestrooms  Motels, motor hotels, and tourist courts  Motes, tourist courts  Motor hotels	699 270 230 40 429 360 69	1 030 663 816 770 809 781 6 989 213 893 149 890 64 003	293 781 246 004 244 321 1 683 47 777 30 493 17 284	71 968 61 065 60 758 307 10 903 6 351 4 552	33 437 27 129 26 950 179 6 308 3 862 2 446	199 48 32 16 151 137	192 81 74 7 111 88 23
702, 3 702 703 7032 7033	Other lodging places Rooming and boarding houses Camps and recreational vehicle parks Sporting and recreational camps Recreational vehicle parks and campsites	134 23 111 22 89	42 029 2 954 39 075 4 725 34 350	7 912 742 7 170 1 074 6 096	1 794 173 1 621 249 1 372	908 132 776 137 639	45 12 33 5 28	38 5 33 1 32
72	Personal services	2 655	453 973	167 027	40 847	17 416	1 340	262
721 7211 7213 7215 7215 pt 7215 pt 7216 7217 7218	Laundry, cleaning, and garment services  Power laundries, family and commercial*  Linen supply*  Coin-operated laundries and drycleaning  Coin-operated laundries and trycleaning stores  Coin-operated laundries and trycleaning stores  Drycleaning plants, except rug cleaning*  Carpet and upholstery cleaning  Industrial launderers*	640 19 18 155 147 8 252 125	174 640 4 682 33 280 28 165 (D) (D) 51 670 17 728 31 819	56 158 1 992 11 800 4 091 (D) (D) 18 526 6 761 10 417	13 552 444 2 601 985 (D) (D) 4 414 1 931 2 533	5 435 193 801 598 (D) (D) 2 084 747 720	298 6 2 92 88 4 102 66	74 1 1 25 25 - 29

### Table 1b. Summary Statistics for Firms Exempt From Federal Income Tax for the State: 1987

[Includes only establishments with payroll. For meaning of abbreviations and symbols, see introductory text. For explanation of terms and comparability of 1982 and 1987 censuses, including revised methodology for presenting establishment counts, see appendix A]

1987 SIC code	Kind of business or operation US SIZIECE	Establishments (number)	Revenue (\$1,000)	Annual payroll (\$1,000)	First quarter payroll (\$1,000)	Paid employees for pay period including March 12 (number)
1/2 T. T.	Total	2 020	3 241 019	1 327 806	319 599	75 849
7032, 704	Camps and membership lodging	33	5 007	1 035	203	162
7032 704	Sporting and recreational camps Organization hotels and lodging houses, on membership basis	16 17	2 424 2 583	694 341	112 91	97 65
792, 7991 pt., 7997, 7999 pt., 84	Selected amusement, recreation, and related services	139	113 213	42 581	10 228	3 722
792 7922	Theatrical producers (except motion picture), bands, orchestras, and entertainers.  Theatrical producers (except motion picture) and miscellaneous	24	Table 8	mat is also used	sal al hogen i	Autories V 50
7929	theatrical services Bands, orchestras, actors, and other entertainers and entertainment groups	11	l able 9	b, Area outside N	ISA S	57 1 0 1 2 1 2 1 3 3
7991 pt., 7997	Membership gymnasiums, sports and recreation clubs	71 L	are a second perfect	and the late of the	Edward State of Da	
7991 pt. 7997	Membership gymnasiums and athletic clubs	71	50 795	21 723	5 007	2 035
7999 pt.	Fairs	10	3 972	871	196	210
84 8412 8412 pt	Museums, art galleries, and botanical and zoological gardens	34 31 10 21	26 534 (D) 9 445 (D) (D) (D) (D)	9 825 (D) 3 444 (D) (D) (D)	2 424 (D) 891 (D)	687 (D) 259 (D) (D)

### Table 3b. Comparative Statistics Based on 1972 Standard Industrial Classification for Firms Exempt From Federal Income Tax for the State: 1987 and 1982

[Includes only establishments with payroll. For meaning of abbreviations and symbols, see introductory text. For explanation of terms and comparability of 1982 and 1987 censuses, including revised methodology for presenting establishment counts, see specific A. For explanation of changes in kind of business classifications between 1982 and 1987 also see appendix A. For explanation of changes in kind of business classifications between 1982 and 1987 also see appendix A.

1972	1967	Oher er and entered to be	Establis	hments	Ex	penses	25	Ann	ual payroll	, resta	Paid emplo pay period March	including
SIC code	SIC code	Kind of business or operation	1987 (number)	1982 (number)	1987 (\$1,000)	1982 (\$1,000)	Percent change 1982 to 1987	1987 (\$1,000)	1982 (\$1,000)	Percent change 1982 to 1987	1987 (number)	1982 (number)
		Total, except hospitals	1 945	1 656	859 870	478 713	79.6	357 864	207 118	72.8	29 833	21 551
7011 pt, 7032, 704	7032, 704	Hotels, camps, and membership lodging	33	(NC)	5 059	(NC)	00	1 035	(NC)	(X)	162	(NC)
7391, 2, 7	873 ex. 8733,	Research, testing, and consulting services	14	12	30 373	13 980	117.3	14 309	8 147	75.6	546	375
	874 ex. 8744											
7391	8731	Commercial physical and biological		100	u serveral d	1,0000	200000	95550	2000	3,70,840	A1980	
7392	8732.	Management, consulting, and public	7	3	(D)	(D)	(D)	(O)	(D)	(D)	(D)	(D)
	874 ex.	relations services	5	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

## Table 5. Summary Statistics for Firms Subject to Federal Income Tax for Counties and for Places With 2,500 Inhabitants or More: 1987

[Includes only establishments with payroli. For meaning of abbreviations and symbols, see introductory text. For explanation of terms and comparability of 1982 and 1987 censuses, including revised methodology for presenting establishment counts, see appendix A. For information on geographic areas followed by Δ, see appendix F]

Allebo	Constitution Constitution			ال يحال دا		See (	Unincon busines opera	ses or		Selected kin	nd-of-busin	ess or opera	lion group	s
100	Geographic area	Estab-		ijets.	First	Paid employees for pay period	Individual	1) 12 (1)	houses, o other lod (except r	rooming camps, and ging places nembership lging) ex. 704)		1 services C 72)		ss services IC 73)
100	NO CON OF THE ST	lish- ments (number)	Receipts (\$1,000)	Annual payroll (\$1,000)	quarter payroll (\$1,000)	including Merch 12 (number)	proprie- torships (number)	Partner- ships (number)	Number	Receipts (\$1,000)	Number	Receipts (\$1,000)	Number	Receipts (\$1,000)
	Arizona	25 250	10 639 463	4 011 254	979 596	243 999	7 852	1 753	833	1 072 692	2 655	453 973	4 180	2 165 35
Eagar St. Jo	County	83 10 13 60	16 596 1 511 1 698 13 387	4 409 527 510 3 372	1 016 129 149 738	430 37 45 348	40 5 8 27	9 1 1 7	13 - 13	6 527 6 527	9 - 2 7	945 (D) (D)	3 - 1 2	(C)
Bensi	se County one	417 29 42	98 720 2 302 5 430	36 647 609 1 926	8 765 155 477	2 936 83 235	197 20 22	36 2 6	37 6 6	14 267 742 2 041	57 4 9	4 979 229 361	33 - -	10 62

									47.	THE WE			
Automotiv services parki (SIC	s, and ing	Miscellaned servi (SIC	ces	Amuseme recreation including pictures and (SIC 78,	services, motion museums		services (2 80)	Legal se (SIC		Social si (SIC		research, m and relate (except nor research or	, accounting, nanagement, ad services ncommercial ganizations) ex. 8733)
Number	Receipts (\$1,000)	Number	Receipts (\$1,000)	Number	Receipts (\$1,000)	Number	Receipts (\$1,000)	Number	Receipts (\$1,000)	Number	Receipts (\$1,000)	Number	Receipts (\$1,000)
2 370	864 984	968	272 405	1 135	523 843	6 459	2 570 945	1 890	888 688	648	155 804	3 593	1 497 156
10	1 959	-	-	. 7	701	22	3 287 446	5	753	1	(D)	12	2 201
2 7	(D) (D) (D)	-	don I	1 5	(0)	13	794 2 047	1 4	(D) (D)	1	(D)	1 7	(D) (D) 1 456
50 4 2	6 556 (D) (D)	19	2 949 (D) 220	25 2	3 405 (D)	108 5 10	25 448 436 1 432	27 3 6	4 177 (D) 762	15 2	1 871 (D) (D)	42 2 3	24 236 (D) 199

## Table 6. Summary Statistics for Firms Subject to Federal Income Tax for Places With 350 Establishments or More: 1987

[includes only establishments with payroll. For meaning of abbreviations and symbols, see introductory text. For explanation of terms and comparability of 1982 and 1987 censuses, including revised methodology for presenting establishment counts, see appendix A. For information on geographic areas followed by A. see appendix FI

1987	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO	11	äh III	197	121	Paid employees	Unincorpo business operati	es or
SIC code	Geographic area and kind of business or operation	Establish- ments (number)	Receipts (\$1,000)	Annual payroll (\$1,000)	First quarter payroll (\$1,000)	for pay period including March 12 (number)	Individual proprie- torships (number)	Partner ships (number
	FLAGSTAFF							
	Total	467	135 818	41 476	9 635	3 490	202	49
70 ex. 704	Hotels, rooming houses, camps, and other lodging places (except membership lodging)	43	24 179	5 262	1 023	767	16	12
7011 7011 pt. 7011 pt. 702, 3	Hotels and motels	40 10 30 3	This f	ormat is also	o used to s	how data for	121	1
72	Personal services	42						
721 7211 7213 7215 7216 7217	Laundry, cleaning, and garment services Power laundries, family and commercial* Linen supply* Coin-operated laundries and drycteaning Drycteaning plants, except rug cleaning*	15 - 2 6 5	121777777	8a, MSA's 9a, Area c		0 establishm A's	ents or more	
7218 7212, 9	Carpet and upholstery cleaning Industrial launderers* Other laundry, cleaning, and garment services*	1	(D)	(D)	(D)	(D)	1=1	

## Table 11. Counties Ranked by Volume of Receipts of Firms Subject to Federal Income Tax: 1987

[Includes only establishments with payroll. For meaning of abbreviations and symbols, see introductory text. For explanation of terms and comparability of 1982 and 1987 censuses, see appendix A. For information on geographic areas followed by A, see appendix F]

	R	eceipts	Cumulative r	eceipts		Rec	ceipts	Cumulative r	eceipts
Geographic area	Rank <sup>1</sup>	Amount (\$1,000)	Amount (\$1,000)	Percent of State total	Geographic area	Rank <sup>1</sup>	Amount (\$1,000)	Amount (\$1,000)	Percen of State tota
Artzona	(X)	10 639 463	10 639 463	100.0	Artzona—Con.		1111	-410-350-11	
	39 100				Pinal	8	74 805	10 473 285	98.4
120 30	10 (750)	m destroyees			Navajo	9	61 168	10 534 453	99.0
Maricopa		7 765 068	7 765 068		Gila	10	39 752	10 574 205	99.
Pima	2	1 915 150	9 680 218		Santa Cruz	11	21 443	10 595 648	99.6
Coconino	3	220 368	9 900 588	93.1	Graham	12	16 608	10 612 256	99.7
Yuma A	4	154 962	10 055 548	94.5		STATE OF THE STATE			4 6867
Yayapai	5	129 244	10 184 792	95.7	Apache	13	16 596	10 628 852	99.
Mohave	6	114 968	10 299 760		Le Pez A	14	9 209	10 638 061	100.
Cochise	7	98 720	10 398 480			15	1 402	10 639 463	

### Table From Service Industries Nonemployer Statistics Series, SC87-N

## Table 4. Nonemployer Statistics for Counties and for Places With 2,500 Inhabitants or More: 1987

[Includes only establishments without payroll. For meaning of abbreviations and symbols, see introductory text. For explanation of terms and comparability of 1982 and 1987 censuses, including revised methodology for presenting establishment counts, see appendix A. For information on geographic areas followed by Δ, see appendix F]

Geographic area	Т	otal	houses, o other lod (except n	rooming camps, and ging places nembership ging) , ex. 704)		al services C 72)		s services C 73)	services,	tive repair, and parking C 75)	se	neous repair rvices IC 76)
	Estab- lish- ments (number)	Receipts (\$1,000)	Estab- lish- ments (number)	Receipts (\$1,000)	Estab- lish- ments (number)	Receipts (\$1,000)	Estab- lish- ments (number)	Receipts (\$1,000)	Estab- lish- ments (number)	Receipts (\$1,000)	Estab- lish- ments (number)	Receipts (\$1,000)
Arizona	136 651	912 341	5 261	8 147 684	2 105	20 347 830	17 957	36 592 715	7 592	36 857 439	8 295	11 579 284
Apache County	43 606 664 95 877	54 071 842 699 992 92 119 830 837	1 291 10 2 26	2 284 242 5 408 (D) 39 674	574 14 2 6	6 262 732 205 243 (D) (D)	5 116 60 10 105	10 600 480 102 420 (D) 158 085	2 429 30 8 31	2 787 105 928 (D) 127 307	943 151 17 2 28	5 156 18 337 (D) 25 802
Conchise County	73 714 599 235 180	65 304 86 920 1 097 694 979 060 297 541 277 998 1 768 715	1 4 36 17 9 8 55	1 68 475 16 693 16 829 20 248 92 318	1 1 10 6 3 4	1 4 68 308 215 700 (D) 51 577 115 365	(D) 4 148 103 76 24 21 322	221 356 150 846 79 135 78 238	(D) (D) 53 65 20 10	1 3 369 988 313 837 73 444 11 653 377 873	1 (D) 42 47 19 8 99	1 57 847 41 794 20 674 6 443 106 375

Amusement ar services, including and mus (SIC 78,	motion pictures seums	Health ser (SIC 8			I -	total purpose and the	Engineering, accounting, research, management, and	er mar son
Estab- lish- ments (number)	Receipts (\$1,000)	Estab- lish- ments (number)	Receipts (\$1,000)	Legal services (SIC 81)	Selected educational services (SIC 823, 4, 9)1	Social services (SIC 83) <sup>2</sup>	related services (except research, development and testing services) (SIC 87 ex. 873)	Service, n.e.c. (SIC 89) <sup>3</sup>
16 134	9 597 700	12 417	10 446 777	45 910	19 989 156	7 319 546	31 489	15 758 838
3 329 225 163 3 67	3 383 87 214 85 38 781	3 350 918 48 11 73	12 809 26 713 7 772 63 286	6 095 035 173 12 525 284	1 355 63 733 1 115 566	1 876 649 31 410 (D) 19	8 706 137 18 23 790	5 126 683 53 586 6 456 238
(D) (D) 33 30 15 18	8 19 011 19 442 8 428 12 523 60 736	13 122 4 213 69 42 20 10 127	10 28 71 083 51 124 10 461 13 296 95 687	(D) 18 552 214 195 63 61 622	98 300 76 827 26 838 19 106	1 (D) 15 16 7 4 110 624	8 19 44 079 38 716 19 106 36 369	6 275 6 968 79 247 105 69 540 (D) 170 409

#### Table 52. Major Sources of Revenue of Firms Exempt From Federal Income Tax for the United States and Selected States: 1987

[includes only establishments with payroll. For meaning of abbreviations and symbols, see introductory text. For explanation of terms and comparability of 1982 and 1987 censuses, including revised methodology for presenting establishment counts, see appendix A]

					Sources of re	evenue			A Table	S. BEBRU
	Ī	11	Receip	ts from custo	mers, patrons,	and contract fe	es	Other rece reveni		omo, /refel
Geographic area and kind of business or operation	Establish- ments (number)	Total (\$1,000)	Admissions (\$1,000)	Member- ship dues and fees (\$1,000)	Sales of food, refresh- ments, and alcoholic beverages (\$1,000)	Sales of other merchan- dise (\$1,000)	Other (\$1,000)	Govern- ment or private contribu- tions (\$1,000)	Other (\$1,000)	Revenue of establishments reporting sources of revenue as percent of total revenue
UNITED STATES		- N						_ Sil	lom/A 3	emplome III
Museums, art galleries, and botanical and zoological							lie lie	er in Gallety (Co.		PHI MANAGETTE
gardens	8 667	2 147 297	415 548	14 258	113 209	11 981	70 084	1 880 944	261 158	В
Commercial museums, art galleries, and botanical and	458	123 125	(S)	(S)	(S)	(S)	(S)	(S)	(S)	Langue E
zoological gardens Noncommercial museums, art gallenes, and botanical	1,150	223000000000000000000000000000000000000	A 40000	28040	-070.00	13/1.51	0.000.000	17.07	5000	SUSCESSION OF THE
and zoological gardens Noncommercial museums and art galleries	6 775 1 217	2 386 578 2 267 261	68 317 61 989	56 123 51 119	15 897 15 892	69 131 65 023	55 075 48 833	1 859 964 1 800 025	241 901 221 506	BASSA STATE
Noncommercial arboreta, botanical and zoological	1 217	2 207 201	01 909	75 36350	WC 88474	5000000	7m7a703a	100000000000000000000000000000000000000		
gardens	171	101 231	6 708	3 905	1 071	3 976	4 453	59 939	20 641	D
										MILLIVS
ALABAMA		l v		li li				Love		odraggine
Museums, art galleries, and botanical and zoological	43	5 113	5 414	321	(D)	(D)	157	986	775	u impunit
Commercial museums, art galleries, and botanical and	-35.70	6226,520	0.0250.05030.0	7,000	03.935	2000	1211	23.6		100
zoological gardens	1	(D)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	E

- Subject Series, SC87-S-1 to -4:
  - 1. Establishments and Firm Size (including Legal Form of Organization), □ ■ ② ⊙ , presents data for the United States based on size of establishment, size of firm, and legal form of organization. Information is provided for both taxable and taxexempt industries, by kind of business, on the number of establishments, receipts or revenues, payroll, and employment. Establishment data are published by receipts size and by employment size; data for firms are shown by receipts size (including concentration by largest firms), by employment size, and by number of establishments operated.
  - 2. Capital Expenditures, Depreciable Assets, and Operating Expenses, ... ... , provides data for the Nation as a whole on capital expenditures, depreciable assets, and selected operating expenses for service establishments by kind of business. These data are based on a sample of 19,000 service firms selected prior to the census and, therefore, establishments are classified according to the old SIC, unlike other 1987 census reports.
  - 3. Hotels, Motels, and Other Lodging Places, II m , shows data for the United States, States, and selected MSA's on the number of rooms and other facilities and operating characteristics of hotels, motels, and other lodging places. Specialized data include source of receipts, membership in franchise or co-ownership group, transient and residential occupancy, and merchandise sales.

4. Miscellaneous Subjects, □ ■, provides specialized data not published elsewhere on receipts by class of customer, merchandise sales, exported services, and personnel and payroll classified by occupation. Only selected service industries are covered (see fig. 10 for the items and their geographic levels).

#### Current Service Industries Statistics (Current **Business Reports**)

tion) . An annual report with estimates of receipts of selected service industries (see SIC categories under, "How are Service Establishments Classified" above). Data shown include current- and previous-year estimates, year-to-year percentage changes, and legal form of organization by kind of business based on pre-1987 SIC's. The report is issued about 9 months after the end of the survey reference year.

For more information about service industries, see also-

- Outlying Areas (p. 73)
- Enterprise Statistics (p. 76)
- Minority- and Women-Owned Businesses (p. 79)
- County Business Patterns (p. 83)
- Population and Housing (p. 96), for characteristics of persons employed in service industries.

### Figure 11. Major Data Items Published in Transportation Reports by Geographic Level

[Legend: M-MSA's, States, and national. N-National only. S-States and national]

Item	Water tealism	Seri	es <sup>1</sup>	
graduated companies and the contraction of the cont	TC87-A-1	TC87-S-1	TC87-1-52	BT <sup>2</sup> [yr
NUMBER OF ESTABLISHMENTS AND FIRMS				
Establishments with payroll.  By legal form of organization	M	M S N N	and a bay	
EMPLOYMENT		1.(e) [1-1/2]		
All employees, March 12. Employment size of establishment Employment size of firm.	М	S N N	11	
PAYROLL	100	1		
All employees, entire year	M	S	an and the first till	
REVENUE				
Establishments with payroll By source (type of activity) Revenue size of establishment. Operating revenue. By type of commodity. By size of shipment.	М	M M N		N N N
OPERATING EXPENSES			17.22	
Total			70.15	N
INVENTORIES				TOTAL P. C. S.
Revenue-generating equipment		Level In the	Service of Southern	. 721 1 11 12 N
TRUCKS, TRUCK MILES, AND AVERAGE MILES PER TRUCK		1 1 1 1 1 1 1	- "11	1 = 11/10
Major use Body type Annual miles. Range of operation Base of operation		E BOTH TO TO	S S S S	
Average weight Total length. Year model. Vehicle acquisition. Lease characteristics Operator classification	Marker of	Kena in beind nna jiliyetid o enemini ayahea ezak a rahanjid to a uni uni at	999999999	
Products carried. Hazardous materials carried Truck fleet size Miles per gallon Equipment type Fuel conservation equipment		diane par uni The pellecopy Sonia od ". Soni One TE St to 9 2 Tolske T into 20	S S S S S S S S	
Maintenance. Engine type and size Truck type and axle arrangement Cab type	12 13 ENG	teaming to the transition of the court of th	0000	

<sup>&</sup>lt;sup>1</sup>For complete titles, see descriptions starting on page 48. <sup>2</sup>Data for SIC 42 only.

<sup>&</sup>lt;sup>3</sup>Selected industries and selected areas only.



## Transportation

The 1987 Census of Transportation consists of two parts: establishment-based statistics for selected transportation industries and a survey of trucks and their uses. Another component of previous censuses, the Commodity Transportation Survey, was cancelled for budgetary reasons. There are also limited establishment statistics generated from one annual survey.

#### STATISTICS ON TRANSPORTATION **ESTABLISHMENTS**

The transportation establishment statistics correspond to those collected for other kinds of business in the other economic censuses. At the same time, they cover only three of the eight major groups in the transportationrelated part of the Standard Industrial Classification (SIC) system.

- Railroad transportation (not covered) 40
- 41 Local and interurban passenger transit (not covered)
- 42 Trucking and warehousing
- 43 U.S. Postal Service (not covered)
- 44 Water transportation
- 45 Transportation by air (not covered)
- 46 Pipelines, except natural gas (not covered)
- **Transportation services** 47

(The 1987 Economic Censuses also exclude SIC major groups 48, communications, and 49, electric, gas, and sanitary services.)

Major group 42 and industry group 472 are covered by annual surveys discussed below.

For many of the industries in the transportation census (e.g., trucking), the establishments have activities, workers, and equipment that may move from place to place. For the census, an establishment is a relatively permanent office, shop, station, terminal, or warehouse that is either (1) directly responsible for supervising such activities or (2) the base from which personnel operate to carry out these activities. Census figures for States and metropolitan areas reflect establishment location and not necessarily the location where the trucking or other activities take place.

The establishments counted in the census of transportation furnish services to the general public or to other business enterprises. Establishments that furnish similar services (e.g., warehousing) only to other establishments of the same company are classified as auxiliary to the establishments or units of the company which they serve. Data for auxiliaries are presented in a report issued as part of the Enterprise Statistics series (see p. 76), but not in the census of transportation.

The census excludes firms without paid employees. Thus, for example, many independent truckers are not included in the establishment statistics.

Two basic sources were used to obtain the census data: questionnaires and administrative records. Three different questionnaires and one classification form, allowing for the different types of transportation activities covered, were mailed to all firms above a certain size cutoff (generally equivalent to four or more paid employees), and to a sample of smaller employer firms; information for the balance was obtained from Federal administrative records.

The annual Motor Freight Transportation and Warehousing Survey is based on a mail sample of firms covered by the census, updated with "births" reported in administrative records during the years between censuses.

Annual statistics on receipts by type for SIC 472, arrangement of passenger transportation, are included in the Service Annual Survey (see p. 45).

#### TRUCK INVENTORY AND USE SURVEY

The Truck Inventory and Use Survey (TIUS), taken every 5 years as part of the economic censuses program, reports on the physical characteristics and operational use of the Nation's private and commercial trucks. Unlike other economic censuses programs, the coverage of TIUS cuts across SIC classifications and even personal use, although vehicles owned by Federal, State, and local government agencies are not covered. Some privately or commercially owned vehicles that do not have to be licensed (e.g., "off-highway" trucks used exclusively on private property) are also excluded.

The 1987 TIUS includes physical characteristics of the Nation's private trucking fleet, such as vehicle type, gross weight, type and size of engine, type of transmission, type of braking system, power steering, fuel conservation, air conditioning, type and size of body, power axles, axle arrangement of trailer units, and cab type. The survey also includes operational characteristics, such as base of operation; number of trucks, truck-tractors, and trailers operated from base of operation; area of operation; vehicle miles; miles per gallon; use of vehicle; and type of commodities carried, including hazardous cargo.

About 135,000 private and commercial trucks were sampled from approximately 44.8 million State vehicle registrations. One of two questionnaires was sent to the registered owner of each sampled truck.

• Expanded coverage. The 1987 coverage of SIC's 42, 44, and 47 is much broader than the 1982 coverage which included only parts of two of them: Public warehousing and storage (SIC 422) and arrangement of passenger transportation (new SIC 472).

SIC changes. While there were various changes to transportation SIC's, most have little effect on the census user given that 1982 data are not available for most transportation SIC's. New industries separately identified include-

- Travel agencies (4724) - Tour operators (4725)

- Passenger transport arrangement, n.e.c. (4729).
- Commodity Transportation Survey. This survey, last conducted in 1984 for 1983, was cancelled.

#### REPORTS

- Geographic Area Series—Selected Transportation Industries, Summary, TC87-A-1, □ ■ © ⊙ . The report presents data for establishments with payroll for selected transportation industries for the United States, each State, the District of Columbia, and MSA's. It provides general data on number of establishments, revenue, payroll, and employment by varied transportation classifications. Data are also provided on revenue and employees per establishment, and on revenue and payroll per employee. Comparative statistics showing percent changes in revenue and payroll between 1987 and 1982 also are shown for some kind-of-business classifications.
- · Subject Series, Miscellaneous Subjects, TC87-S-1, □ ■ . This report presents data for the Nation as a whole and, where feasible, for States and selected MSA's for establishments with payroll, based on size of establishment, size of company or firm, and legal form of organization. Establishments are given by revenue size and by employment size; statistics for firms, by revenue size (including concentration by largest firms), by employment size, and by number of establishments operated (single- and multiestablishment). Major sources of revenue and purchased transportation are provided for some

- kinds of business. Data are presented by kind of business on the number of establishments, revenue, and payroll.
- Truck Inventory and Use Survey, series TC87-1 to -52, □ . The publications—one for each State, the District of Columbia, and the United States as a whole -provide data on the number of vehicles and selected vehicle characteristics and use. Statistics include number of vehicles, number of truck miles, principal products carried, type of cab, fuel conservation equipment, power steering and air conditioning, type of transmission and braking system, engine size, classification of operator, acquisition (purchased new or used/leased or rented). area of operation (local, short range, or long range), type of fuel, single unit or combination and axle arrangement. vehicle size class, body type, model year, major use of vehicle (see tables 1 and 2), average weight, and length.
- the computerized files from other economic censuses programs, TIUS data on computer tape are not summary tables but are records for individual trucks, designed so that the users can create a wide variety of crosstabulations to meet their own needs. Certain truck characteristics have been consolidated or omitted to

### Table From Transportation Geographic Area Series, TC87-A

## Table 1. Summary Statistics for the United States and States: 1987

[includes only establishments with payroll. For meaning of abbreviations and symbols, see introductory text. For explanation of terms and comparability of 1982 and 1987 censuses, including revised methodology for presenting establishment counts, see appendix A]

	ter un't word care unifer une day brow Thurst		STOOL VICES	VICTOR I	10.20	Paid	Unincorporate	d businesses
1987 SIC code	Kind of business	Estab- lishments (number)	Revenue (\$1,000)	Annual payroll (\$1,000)	First quarter payroll (\$1,000)	employees for pay period Including March 12 (number)	Individual proprietorship (number)	Partnership (number)
42 421 4212 4212 pt.	Motor freight transportation and warehousing Trucking and courier services, except air Local trucking without storage Household cords main	17 947 222 1 520 201	17 785 206 1 899 200	17 778 201 1 569 196	16 132 127 1 619 122	15 689 147 1 223 144	1 654 79 280 78	2 089 54 346 52
4212 pt. 4212 pt. 4212 pt.	Household goods moving General freight Garbage and trash collection Dump trucking	616 49 1 420	608 49 1 291	690 48 879	453 36 1 167	527 41 696	156 13 125	163 7 183
4212 pt. 4212 pt. 4212 pt. 4212 pt.	Other local trucking without storage	150 13 390 48 1 796	154 13 390 49 1 836	148 13 368 38 1 604	106 12 289 20 1 654	104 12 117 23 1 278	1 101 29 182	1 251 15 326

#### Table From Transportation Truck Inventory and Use Survey, TC87-T

Table 2. Trucks, Truck Miles, and Average Annual Miles: 1987

[Data relate to State of registration. Detail may not add to total because of rounding. For meaning of abbreviations and symbols, see introductory text]

the letters when the state of the	Truc	ks and truck m	niles	Trucks ar pickups, pe	nd truck miles, anels, utilities, a wagons	excluding and station	_			uiT X =		
Vehicular and operational characteristics	Trucks (thousands)	Truck miles (millions)	Average miles per truck (thousands)	Trucks (thousands)	Truck miles (millions)	Average miles per truck (thousands)	н		standard rcent) fo		f estimat	
	A	В	С	D	Е	F	Α	В	С	D	E	F
Total trucks	597.5	7 070.1	11.8	62.0	1 158.2	18.7	.4	2.8	2.8	1.8	3.2	2.8
MAJOR USE  Agriculture Forestry and lumbering Mining and quarrying Construction Manufacturing	44.3 3.5 .9 66.8 9.9	413.0 99.8 10.4 1 049.8 233.8	9.3 28.9 12.0 15.7 23.7	11.6 2.6 .9 11.3 4.6	71.4 86.1 10.4 153.7 114.5	6.2 33.1 12.0 13.6 24.9	11.7 26.2 29.3 9.9 22.3	16.3 16.9 42.9 12.7 25.9	10.1 13.9 31.5 7.5 15.0	7.4 11.4 29.3 7.1 11.5	12.9 11.4 42.9 9.0 11.9	12.3 10.4 31.5 7.2 9.5
Wholesale trade	11.3 28.4 7.3 8.5 21.2	261.5 428.8 307.2 94.3 311.3	23.0 15.1 42.0 11.1 14.7	7.0 8.1 5.4 3.0 1.7	174.9 155.9 276.7 30.1 22.3	24.9 19.2 50.9 10.0 12.8	17.9 14.7 18.3 25.4 19.0	17.2 15.3 9.4 28.8 24.1	7.7 7.9 11.7 9.3 14.7	8.9 8.9 7.9 14.8 20.2	10.5 10.9 7.2 18.0 24.5	7.4 8.9 5.7 11.0 19.4
Daily rental One way rental Personal transportation Other Not in use Not reported	1.4 2.7 384.1 .9 6.6 (Z)	32.7 33.3 3 758.8 30.0 5.5 (Z)	23.3 12.5 9.8 35.0 .8 (Z)	.6 1.8 2.7 (Z) .6 (Z)	20.4 20.5 21.2 (Z) .3 (Z)	36.9 11.3 7.8 (Z) .5 (Z)	62.1 35.5 2.6 99.9 34.1 (Z)	42.2 41.3 4.8 99.9 94.1 (Z)	27.7 8.8 4.0 (Z) 87.2 (Z)	32.4 22.1 36.1 (Z) 36.9 (Z)	30.0 24.0 84.8 (Z) 97.8 (Z)	29.0 9.5 53.1 (Z) 89.4 (Z)

avoid disclosure of information about specific trucks or truck owners. Otherwise, all of the characteristics cited above, plus State of registration, are included on the files.

## Current Transportation Statistics (Current Business Reports)

For more information about transportation, see also-

- · Enterprise Statistics (p. 76)
- · County Business Patterns (p. 83)
- Foreign Trade Statistics (p. 87), for international transportation of imports and exports by vessel, air, or other modes)
- Population and Housing (p. 96), for characteristics of persons employed in transportation, and on transportation to work

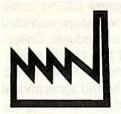
## Figure 12. Major Data Items Published in Manufactures Reports by Geographic Level

[Legend: • —Places, counties, MSA's, States, and national. M—MSA's, States, and national. N—National only. S—States and national. Z—ZIP Codes and States]

144-							Series <sup>1</sup>					_ !!	
Item	MC87- I(P)	MC87-I	MC87-A	MC87- LM	MC87-S- 1	MC87-S- 2	MC87-S- 3	MC87-S- 4	MC87-S- 5	MC87-S- 6	MC87-S- 7	AR87-1	AS
NUMBER OF ESTABLISHMENTS AND FIRMS	15	Lucionia			<b>;</b>	Last Jager	Lane 1			- 56			
Establishments with payroll.  Single- and multiestablishments  Establishments by legal form of organization.	N	N	100	²•, Z	M BEAUTI	period)	A A	7	2 2 2				
Firms	N	N	s	10	s	z ozo	IL/INC		N			abid in	
EMPLOYMENT	= ==											10911	troca to
All employees Production workers Employment related to manufactured exports	N N	s s	81	*1.00	M M	E176 E1	ALL FIT		N		N 	s	(New York
Employment size of establishments	N	N S	12.	²•, Z	S M	Vin y	100		N			S	
PAYROLLS		411	2.1			100						THE OWNER	e = 1701
All employees, entire year Production workers Supplemental labor costs, legally required and voluntary	2 2	S S N	· •	4.5	M M S	COM.		==	N			EURA, LINE	
VALUE OF SHIPMENTS	61		3	15	3	E							The second
Establishments with payroll	NN	N S	17.	136	M N	(file	Ta.	N	N		N	s	
By 7-digit product By size of establishments By class of customer. Shipments to Federal agencies Export shipments	N	N			N			N			N	s	
OPERATING EXPENSES		_			10	v-d/d1	Till =Tru	The s	mid	7 (1)	الين ه إ	the little	
Cost of materials, etc	N	S N	og po <del>č</del>	13,44	м	FLASE.		0.0	N	01.1		mwc-s	
/cost). Cost of fuels Energy consumed. Contract work	N	2 2 2 2	s s s	h= +	s s			100	-36	10.75	l svés		
Products bought or sold (resale)  Rental payments, total.  Buildings and structures  Machinery and equipment  Communications services.	50 h	2222	SSSSS		s s s		Mercan	M bir	10 16	- A	hogs Histori	1, 356 8-7-14	
Purchased repairs		N	s		š	ICHTYLT /	K =	nitalia	8 JT. 1	1 20 .0	me to	LEED	
CAPITAL EXPENDITURES		TALE	ar ergi	-		110 A	T. ME.	anting	031-27-1	II II II	in burgot	HUNG T	
Total New, total Buildings/equipment. Used, total.	N	N S N N	S . S	e i	S M S S			SIC A	N		e Dober red W.J. White.org	merc C ec	
Buildings/equipment		N	s	Talla .	S	ra-A	1910	ings)r	17 haz 2	-x44)-(	w. Ur	grold	
OF BUILDING/EQUIPMENT End of 1986 (previous year)		N	s		S	1000 m	100	arthum	21.00	31 884	Ulum)	in (the	
End of 1987 (reference year)		N	s		S							uni	
Retirements (detail for buildings/ equipment and/or total)		N N	s		s								
INVENTORIES		2370	٦										
End of 1986 (previous year)	N	N N	s s		s s			1	N		1		
OTHER										1101 20			
Value added	N N	S	1		M				N	N			
Water use Auxiliary establishments (including adminis- trative offices)			•		. s		s					-	
SPECIFIC INDUSTRIES			-				-						
Fabric weaving looms, broad and narrow, by type and width of loom						N						-	

<sup>&</sup>lt;sup>1</sup>For complete titles, see descriptions starting on p. 53.

<sup>&</sup>lt;sup>2</sup>No MSA summaries.



## **Manufactures**

#### WHAT IS MANUFACTURING?

The census and surveys of manufactures cover establishments engaged in the mechanical or chemical transformation of materials or substances into new products. These establishments are usually described as plants, factories, or mills and characteristically use power-driven machines and materials-handling equipment. Establishments engaged in assembling component parts of manufactured products are also considered manufacturing if the new product is neither a structure nor other fixed improvement. The blending of materials into new products, such as lubricating oils, plastics resins, or liquors, is also included.

Manufacturers normally sell their products through wholesalers or direct to industrial users, but not usually direct to household consumers. Some manufacturers in a few industries sell to household consumers through the mail or through sales persons, but, where possible, these activities and outlet stores are classified as separate retail establishments.

Not all activities classified as manufacturing are commonly recognized as such. Logging, for instance, is classified in manufacturing, not forestry. Newspaper, magazine, and book publishing is also classified as manufacturing. On the other hand, repackaging and bottling of bulk liquids are not manufacturing activities if they do not involve transforming raw materials into new products. Fabricating operations performed at a construction site by a contractor are classified as construction rather than manufacturing.

#### HOW ARE MANUFACTURING ESTABLISH-MENTS, PRODUCTS, AND MATERIALS CLASSIFIED?

### Manufacturing Establishments

In general, manufacturing establishments are classified by the principal type of products produced. There are 20 major groups in the Standard Industrial Classification (SIC) for manufacturing-

- Food and kindred products 20
- 21 Tobacco products
- 22 Textile mill products
- Apparel and other finished products made from 23 fabrics and similar materials
- 24 Lumber and wood products, except furniture
- Furniture and fixtures 25
- 26 Paper and allied products

- Printing, publishing, and allied industries 27
- Chemicals and allied products 28
- 29 Petroleum refining and related industries
- 30 Rubber and miscellaneous plastics products
- 31 Leather and leather products
- 32 Stone, clay, glass, and concrete products
- 33 Primary metal industries
- 34 Fabricated metal products, except machinery and transportation equipment
- Industrial and commercial machinery and 35 computer equipment
- Electronic and other electrical equipment and 36 components, except computer equipment
- 37 Transportation equipment
- Measuring, analyzing, and controlling instru-38 ments; photographic, medical, and optical goods; watches and clocks
- 39 Miscellaneous manufacturing industries

These major SIC groups are subdivided into three-digit industry groups, which in turn are subdivided into four-digit industries (as shown in appendix A).

Some surveys distinguish between durable goods manufacturing (SIC's 24, 25, and 32 to 39) and nondurable goods manufacturing (SIC's 20 to 23, and 26 to 31).

#### **Manufactured Products**

The Census Bureau has developed a system for classifying manufactured products into approximately 1,500 product classes (five-digit code) and 11,000 products (seven-digit code), in a manner consistent with the fourdigit SIC code for the industry from which those products typically originate. For example:

<ul> <li>Industry</li> </ul>	3861	Photographic equipment and supplies
<ul> <li>Product class</li> </ul>	38611	Still picture equipment
<ul> <li>Product</li> </ul>	38611 11	Hand-type cameras

Some changes occur in this product coding between censuses as obsolete products are combined into broader categories and new categories are identified for new products or to address marketing needs within the respective industries. Additional changes were made for 1987 where necessary to reflect changes in the SIC system and to increase comparability with the new "harmonized system" for classifying commodities in export and import statistics. (See discussion of foreign trade data, p. 87.)

#### Materials consumed

A separate set of six-digit codes is used to classify important raw materials consumed in the manufacturing process. Material categories are typically broader than those used for product statistics because manufacturers generally maintain less specific information at the establishment level on the materials they use than on the products they make.

#### **HOW ARE THE DATA COLLECTED**

In the 1987 Census of Manufactures, approximately 220,000 establishments reported by mail on one of 282 industry-tailored questionnaires. Data for an additional 150,000 small, single-establishment firms were obtained from Federal administrative records. Only establishments with payroll were counted. Data on water use reported in the Subject Series (see below) are being collected in 1990 (covering 1989 water use from a sample of manufacturing firms that reported on the census questionnaire that they used 20 million or more gallons of water in 1987).

The Annual Survey of Manufactures (ASM) collects data from a scientifically designed sample of about 55,000 of the 370,000 plants covered in the census. During census years, the establishments in the ASM sample receive a form more extensive than do establishments not in the sample, including extra detail on subjects such as assets and inventories. Estimates on these subjects are published in census reports in tables separate from those based on the full census (see table 3c, p. 54). During the 4 years between censuses each 5-year cycle, only the ASM establishments are surveyed. ASM reports include many of the same kinds of statistics found in census reports, albeit with much less geographic and product detail.

Data for the Current Industrial Reports (CIR's) come from nearly 100 separate surveys, most with scope restricted to the producers of a particular group of products. Collectively, the CIR's cover about 4,400 of the 11,000 sevendigit categories of manufactured products. Some of the CIR surveys are monthly, some quarterly, and some annual in frequency. These data are gathered by mail, using the complete list of producers as obtained in the census for the mailing list or sampling frame. CIR results are subjected to a three-way comparison with ASM and census figures for cross-validation or adjustment, since all three programs use the same concepts, definitions, and classification systems.

The CIR's typically present quantity and value of product shipments, and sometimes other measures, such as production and inventories, on detailed commodities and products. A few surveys provide specialized measures such as unfilled orders, receipts, and consumption. Most CIR's include comparative data on domestic production. exports, and imports of the products they cover, allowing the estimation of "apparent consumption" of commodities in the United States.

Where available, CIR statistics on quantity and value of shipments for 1987 are included in census reports, so that it was not necessary to collect detailed data on those product lines on the census of manufactures questionnaires. Consequently, census reports can be used as a guide to the coverage of CIR's, since the CIR-based statistics are identified as such.

The CIR series includes the monthly Survey of Manufacturers' Shipments, Inventories, and Orders (M3). These data, shown for 45 industry categories and other specialpurpose classifications, provide sensitive indicators of short-run changes in business conditions. In addition to the M3 survey, there are surveys of pollution abatement (MA-200) and plant capacity (MQ-C1), both with industry detail.

#### What's New for 1987?

Manufactures

SIC changes-

- Expanded detail for high-technology and expanding industries like computers, communications equipment, and plastics. For example, electronic computing equipment (old SIC 3573) has been subdivided into three new categories and parts of two more.

- Reduced detail (broader categories) for industries that now account for a smaller share of the economy, such as textiles.

The impact of these changes can be explored at the national level in tables 1c-1 and 1c-2 in the Industry Series reports, where 1987 data are shown according to both the old and new SIC classifications.

- Foreign content. For the first time, data were collected on the cost of materials, parts, and supplies purchased overseas. Results are reported by industry at the national level in the Industry Series reports.
- ZIP Code data. ZIP Codes are now added to the Location of Manufacturing Plants series on computer tape and CD-ROM.
- Preliminary Geographic Area Series dropped. Limited State totals are instead included in the Preliminary Summary report.

#### REPORTS

#### **Press Releases**

Press releases, A, are issued for each State a few weeks before the publication of corresponding Geographic Area Series reports, and in conjunction with several of the other reports.

#### **Preliminary Reports**

Data in preliminary reports are superseded by the final reports.

- Preliminary Industry Series, MC87-I-20A(P) to -39D(P),
   National data for the 459 manufacturing industries are covered in 83 bulletins that present general and historical statistics. Each bulletin covers one or more three-digit industry groups (see app. A). Preliminary totals are shown on each industry, on the quantity and value of product shipments for the products primary to the industry (similar to table 6a, p. 55), and on the quantity and cost of materials consumed by establishments classified in the industry (similar to table 7, p. 55).

#### **Final Reports**

• Industry Series, MC87-I-20A to -39D, □ ■ ② ○ ■ . Each report provides final data for the Nation as a whole, with limited data for States, for one of 83 groups of related industries. General statistics include number of establishments, number of firms, payroll, value of shipments, cost of materials, new capital expenditures, inventories, production hours worked, and value added by manufacture. Comparative data for earlier years are provided where available. Bridge tables (see tables 1c-1 and 1c-2, below) show 1987 data classified according to both the old and new SIC schemes.

For each industry, data on employment, payroll, value of shipments, capital expenditures, and value added by manufacture are also shown by employment-size class of establishment and degree of primary product specialization. Some of the most widely used statistics are the tables on shipments of specific products (see table 6a, p. 55) and consumption of various materials (see table 7, p. 55). Product data include shipments by all producers, not just those classified in the primary industry.

Each individual Industry Series report covers one or more three-digit industry groups.

Only the statistics on products and materials are available on diskette ...

## Tables From Manufactures Industry Series, MC87-I

Table 1c-1. 1987 Statistics for the Industry Showing the Distribution of the 1987 SIC-Based Industries Among the 1972 SIC-Based Industries

		All emplo	yees	Pro	duction workers		Value				
Industry	All estab- lishments (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	added by manu- factures (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expendi- tures (million dollars)	End-of-year inventories (million dollars)
New Industry 3363, Aluminum Die-	0.0				22.2	VILLEGE S	2000	10000000	W Care	72.50	A 1 A 1/2500
Old Industry 3361, Aluminum	245	24.2	496.9	19.6	37.3	371.2	850.7	795.6	1 655.1	79.3	154.4
Foundries	245	24.2	496.9	19.6	37.3	371.2	850.7	795.6	1 655.1	79.3	154.4
New Industry 3364, Nonferrous	ii .	Title 1	Ď0	177	10000	- 10.000,000		0	CHANGE MARKET	1911. 01=100222	
Die-Casting Excluding Aluminum Old Industry 3362, Brass,	149	10.5	183.5	8.6	16.0	128.0	322.32	300.3	626.2	19.4	162.5
Bronze, and Copper Foundries _ Old Industry 3369, Nonferrous	9	.2	3.6	2	.3	2.5	6.4	5.6	12.6	.3	82.7
Foundries, N.E.C.	140	10.3	179.9	8.4	15.7	125.5	315.9	294.7	613.6	19.1	79.8
New Industry 3365, Aluminum		12800		191					< 111		
Old Industry 3361, Aluminum	807	25.0	429.3	20.6	38.9	317.4	761.9	588.4	1 258.5	47.1	126.7
Foundries	807	25.0	429.3	20.6	38.9	317.4	761.9	588.4	1 358.5	47.1	126.7
New Industry 3366, Copper	)d	170	00	12.0					- Company	Personal Phil	
FoundriesOld Industry 3362, Brass,	490	11.6	198.2	9.0	16.3	136.0	375.5	306.0	689.6	19.0	91.0
Bronze, and Copper Foundries	490	11.6	198.2	9.0	16.3	136.0	375.5	306.0	689.6	19.0	91.0
New Industry 3369, Nonferrous		- 1									
Foundries, N.E.C	218	4.6	85.0	3.4	6.6	55.3	162.6	133.1	302.5	8.4	39.4
Foundries, N.E.C.	218	4.6	85.0	3.4	6.6	55.3	162.6	133.1	302.5	8.4	39.4

## Table 1c-2. 1987 Statistics for the Industry Showing the Distribution of the 1972 SIC-Based Industries Among the 1987 SIC-Based Industries

idw sikiniy a ve nolleV	201 101 617	All emplo	yees	Proc	duction workers	alia em la	Value added by	Service .	4 34	New capital	
industry and the industry	All estab- lishments (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	manu- facture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	expendi- tures (million dollars)	End-of-year inventories (million dollars)
Old Industry 3361, Aluminum	4 101		ALT HERE						100	2010	en 70 710
Foundries New Industry 3363, Aluminum	1 052	49.2	926.2	40.2	76.2	688.6	1 612.6	1 384.0	3 013.6	826.4	281.1
Die-Casting	245	24.2	496.9	19.6	37.3	371.2	850.7	795.6	1 655.1	79.3	154.4
Foundries	807	25.0	429.3	20.6	38.9	317.4	761.9	588.4	1 358,5	47.1	126.7
Old Industry 3362, Brass, Bronze, and Copper Foundries	499	11.8	201.8	9.2	16.6	138.5	381.9	311.6	702.2	19.3	173.7
Aluminum	9	.2	3.6	.2	.3	2.5	6.4	5.6	12.6	.3	82.7
New Industry 3366, Copper Foundries	490	11.6	198.2	9.0	16.3	136.0	375.5	306.0	689.6	19.0	91.0
Old Industry 3364, Nonferrous Die- Casting Excluding Aluminum New Industry 3369, Nonferrous	140	10.3	179.9	8.4	15.7	125.5	315.9	294.7	613.6	19.1	79.8
Foundries, N.E.C.	218	4.6	85.0	3.4	6.6	55.3	162.6	133.1	302.5	8.4	39.4

## Table 2. Industry Statistics for Selected States: 1987 and 1982

[Excludes data for auxiliaries. Includes data for States with 150 employees or more. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes

mbounts ed bio non	ant						1987			TOO BIRT	of Fragilia	Applia.	19	082
programmy grant on self-	FILE	All establi	shments	All emp	loyees	Pro	duction work	ers	25 (35 384)	rus, yuni	months of	cruar	Misla I	Maha
Industry and geographic area	E	Total (no.)	With 20 employ- ees or more (no.)	Number <sup>2</sup> (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	capital expend- itures (million dollars)	All employ- ees² (1,000)	Value added by manufac- ture (million dollars)
INDUSTRY 2051, BREAD, CAKE, AND RELATED PRODUCTS			me i	in ext	William I		DC -		is i	Thing	all pode		A TOTAL A	
United States	E1	2 305	1 074	170.7	3 249.6	88.9	175.1	1 520.1	7 861.1	5 282.7	13 143.3	382.4	178.0	5 370.4
AlabamaArtzonaArkansasCaliforniaColorado	- - E1	19 30 15 273 44	14 9 13 122 18	FF EE EE 18.2 EE	(D) (D) (D) 432.0 (D)	(D) (D) (D) 9.2 (D)	(D) (D) (D) 17.3 (D)	(D) (D) (D) 197.8 (D)	(D) (D) (D) 961.3 (D)	(D) (D) (D) 583.7 (D)	(D) (D) (D) 1 544.0 (D)	(C) (C) (C) (C) (C) (C) (C) (C) (C) (C)	FF EE EE 16.8 EE	(D) (D) (D) 598.8 (D)
Connecticut Delaware District of Columbia	=	44 4 6	21 2 2	4.0 BB CC	70.2 (D) (D)	2.3 (D) (D)	6.6 (D) (D)	37.9 (D) (D)	157.2 (D) (D)	146.3 (D) (D)	303.4 (D) (D)	12.7 (D) (D)	FF BB EE	(D) (D) (D)

## Table 3c. Supplemental Industry Statistics Based on Sample Estimates: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

				Meat packing (SIC 201		Sausages and other meat process (SIC 20	lucts	Poultry slaughtering and processing (SIC 2015)		
- modeli editoriale notice	ICAMO IAIII APADO AFAI ISAMO Y	Item	extreolar accomplete and the second of the	Amount (million dollars)	Relative standard error of estimate¹ (percent)	Amount (million dollars)	Relative standard error of estimate¹ (percent)	Amount (million dollars)	Relative standard error of estimate <sup>1</sup> (percent)	
Building:	rchased services for s and other structures onse coverage ratio	es		63.0 9.8 68.1 63.3 71.3 21.4	47 (X) 55 (X)	43.2 11.9 61.4 35.4 68.1 12.0	7 24 (X) 10 (X) 7	18.9 15.2 70.2 43.2 72.3 12.5	3 (A) (X) (X) (X)	
Automobile Computers All other	es, trucks, etc s and peripheral			75.1 1 078.3 14.0 4.6 130.0	(X) 2 13 27 5	68.8 978.2 8.8 2.4 76.6	(X) 2 12 17 11	68.6 874.3 3.3 .8 68.4	(X) 1 8 18 2	
Materials   Materials	purchased or transfe purchased or transfe	erred from foreign source erred from domestic source	ees	71.3 63.0 19.7 43.3	(X) 4 6 5	68.1 43.2 15.6 27.6	(X) 7 10 9	72.3 18.9 5.8 13.1	(X) 3 3 5	

## Table 6a. Product and Product Classes—Quantity and Value of Shipments by All Producers: 1987 and 1982

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see introductory text.]

	MARGINE HOLDER 101 ROKE BURNED TELEW ID	-TEIG/BIC	1987	epal ,5 u,		1982	
1987 product	B1 th eterring against to shorts smith us	Number of companies	Product ship	ments <sup>1</sup>	Number of companies	Product ship	oments1
code	reduced such as the political reductions and the reductions are the reductions and the political reductions are the reductions	with shipments of \$100,000 or more	Quantity <sup>2</sup>	Value (million dollars)	with shipments of \$100,000 or more	Quantity <sup>2</sup>	Value (million dollars)
2043- —	CEREAL BREAKFAST FOODS	noibale.	um enterio	TO SHOW OF THE	n niewood	NAME OF THE PARTY	STATES OF
	Total	(NA)	(00)	5 081.1	(NA)	(X)	3 111.5
20430 —	Cereal breakfast foods: Ready to serve:		to yedralin	an Tulni		HEATER CHIEF	resource
20430 11	Corn flakes and other corn breakfast foods	9	804.9	1 302.3	6	705.3	044.0
20430 12	Wheat flakes and other wheat breakfast foods	10	844.7	1 359.6	10	719.8	811.2 811.1
20430 15	Oat breakfast foods do	10	380.4	706.9	9		
20430 17	Hice breakfast foodsdo	9	256.9	518.1	7	(D) 275.8	(D) 394.2
20430 21	Preparations of other grains and mixed grains, except infants' cereals do	13	366.0	743.1	alstol 13	-1115 / 900	
20430 23	Infants' cereals, all types of grains do To be cooked before serving:	4	(D)	(D)	13	289.0	339.5
20430 55	Faring and other wheat foods, except instant cerealsmil lb	151			1 1911202 41	ONE YEAR DIS	* Lacin
20430 57	Rolled oats and oatmeal except instant cereals	9	82.0	60.2	8	118,7	84.3
20430 61	Rolled oats and oatmeal, except instant cereals do Preparations of other grains and mixed grains, except	10.19	287.7	120.5	5 s	(D)	(D)
20430 63	instant cereals do_ Instant hot cereals, all types of grain (mix-and-eat type) do_	3	9.8	9.0	3	9.2	7.2
20430 00		3	(D)	(D)	22722	1000	
20.00	with 10 employees or more (see note)	(NA)	~	0.0	(NA)	(x)	2.4
20430 02	Cereal breakfast foods, n.s.k. typically for establishments	(NA)	(X)	6.2		1-11	
	with 10 employees or more (see note)  Cereal breakfast foods, n.s.k., typically for establishments with less than 10 employees (see note)	(NA)	(X)	9.7	(NA)	(%)	3.1
2044- —	RICE MILLING amo to mot Israel Ling (Inam	10.90	t riecios	ext of be-	Strange Of	I PID BES	
	18 Total	(NA)	(X)	41 257.4	(NA)	(X)	41 797.0
20440 —	Milled rice and byproducts:	ministr	SALIBARIO SALI			Waymin C	- TEVE
20440 11	Packed in bags 100 lb or more mil lb	27	**5 357.7	£477	05	F 404 7	005.0
20440 15	Head rice not packaged with other ingredients: Packed in bags 100 lb or more mill b Packed in containers 3 lb or less do Packed in all other containers do	12	651.8	517.7 106.1	25 17	5 491.7 554.0	935.3 176.5
20440 17	Packed in all other containersdo	15	*3 321.7	446.3	19	2 229.2	492.4
20440 21	Second heads do	14	480.8	30.3	13	348.5	38.6
20440 35	Second heads do Screenings and brewers' rice do	14	622.4	33.1	16	542.8	47.0
20440 51	Brando 1	14		14.8	16	997.7	29.7
20440 99	All other milled rice and byproducts, including rice flour do Milled rice products, n.s.k., typically for establishments with	12	(S) (S)	65.0	15	4 050.1	46.8
20440 00	Milled rice products, n.s.k., typically for establishments with	227737		E a series occombane	10 10 10 10 10 10 10 10 10 10 10 10 10 1	and the second second	
20440 02	10 employees or more (see note) Milled nce products, n.s.k., typically for establishments with less than 10 employees (see note)	(NA)	(X)	27.3	(NA)	(X)	24.4
~~	less than 10 employees (see note)	(NA)	00	40.5	4111	- 00	2000
	1 con that to employees (see thirty	(NA)	(X)	16.8	(NA)	(X)	8.2

### Table 7. Materials Consumed by Kind: 1987 and 1982

[includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see Cost of Materials in appendix. For meaning of abbreviations and symbols, see introductory text]

1987	Malagori official abition is happened	1987	TO THE PARTY OF TH	1982	
material code	Material	Quantity <sup>1</sup>	Delivered cost (million dollars)	Quantity <sup>1</sup>	Delivered cost (million dollars)
	INDUSTRY 2043, CEREAL BREAKFAST FOODS  Materials, Ingredients, containers, and supplies	o illeanni acture (x)	1 423.7	(x)	1 250.7
011111 011241 011931 203415 204110	Wheat         mil bushels           Rice, rough         mil b           Oats         mil bushels           Dried fruits and nuts (including raisins)         1,000 cwt           Wheat flour         do	29.4 282.5 42.8 1 803.8 4 022.5	68.3 30.6 46.7 163.1 31.0	11.8 265.1 (D) 797.9 3 577.3	68.2 50.7 (D) 78.9 42.1
204001 206011 207003 190003 265001 970099 971000	Flour other than wheat and prepared flour mixes	4 069.2 408.2 86.2 (X) (X) (X)	47.8 198.7 23.0 90.7 313.6 407.9 2.3	2 965.8 328.4 (D) (X) (X) (X) (X) (X)	45.1 161.3 (D) 55.9 257.2 382.1 1.4
011241 970099 971000	INDUSTRY 2044, RICE MILLING  Materials, Ingredients, containers, and supplies	(X) 11 733.2 (X)	<b>796.1</b> 737.4 43.2 15.5	(NA) (NA) (NA) (NA)	(NA) (NA) (NA) (NA)

- Geographic Area Series, MC87-A-1 to -51, □ ② ■ These reports, issued for each State and the District of Columbia, present data by industry on the number of establishments, payroll, employment, value of shipments, expenditures for new capital equipment, hours worked, and value added by manufacture, together with comparative statistics for earlier years. Statistics for auxiliary establishments are shown within each geographic area wherever they account for significant employment. Similar totals are also shown by industry for MSA's, counties, and incorporated places with a minimum number of manufacturing employees. Some statistics, including assets, rents, inventories, and cost of materials, are presented in statewide totals only. The number of establishments is shown by employment size class for twodigit major SIC groups at the county level. Only the county-level summary totals are available on diskette .
- Location of Manufacturing Plants, MC87-LM, ♥ ⊙. These files, not available in print, present the number of establishments by employment-size class by four-digit SIC for States, counties, places, and ZIP Codes, as illustrated on page 57. These establishment counts by size class are not considered to be a disclosure of confidential information, so a data line is present for every industry with one or more establishments within the area. Thus, they provide much more industry detail than can be shown in the Geographic Area Series.
- Subject Series, MC87-S-1 to -7, □ ■. This series provides seven separate detailed reports, with data at the national level except where noted otherwise.
  - 1. General Summary: Industry, Product Class, and Geographic Area Statistics consolidates into a single volume many of the key statistics previously published in the industry and geographic area series along with any subsequent corrections or revisions. Most data are at the national level, but limited data are also reported for States and MSA's. (Also ♥ ⊙ )

- 2. Textile Machinery in Place provides data on the number and type of textile machinery in place in textile mills.
- 3. Water Use in Manufacturing presents data by industry on the intake, recirculation, and discharge of water during 1989 for establishments that used 20 million gallons of water or more in 1987. Separate tables show the source, type, and purpose of the water used and the point of discharge of both treated and untreated water for the Nation by industry, and for each State and 19 water resource regions by two-digit major industry groups.
- 4. Distribution of Sales by Class of Customer provides information on the primary channels through which manufacturers distributed their products, for example, through retailers, wholesalers, or other manufacturers. Shipments to other establishments within the same company are tallied separately. The data are based on a survey of companies conducted as part of the census of manufactures. Comparable data were last published for 1977.
- 5. Type of Organization provides statistics by industry on type of organization (single- or multiestablishment) and legal form of organization (corporation, individual proprietorship, partnership, and other).
- 6. Concentration Ratios in Manufacturing presents measures of the share of individual activity accounted for by the largest companies. Concentration measures are shown for each four-digit industry, with time series data across as many censuses as have comparable statistics. (Also ♥ ⊙ )
- 7. Manufacturers' Shipments to Federal Government shows estimates from a special survey on the value of manufactured goods shipped to the Department of Defense, the Department of Energy, the National Aeronautics and Space Administration, and all other Federal agencies, for 69 four digit industries that tend to have large Federal contacts.

#### How Have Manufactures Data Been Used?

A Fort Worth man planning to form a new company to specialize in frozen Mexican foods looked to the manufactures Industry Series report on the frozen food industry to tell him the value of frozen specialty products already being produced and where existing establishments were located.

A community action corporation in western Pennsylvania used census of manufactures data on the steel industry and its customers at the State and national level to determine the feasibility of local efforts to reopen a steel plant closed a few years earlier. Census figures helped convince them that this was not a good investment, despite local enthusiasm for the project.

A major bank in North Carolina sought to diversify its base of investments rather than remaining dependent on textile and furniture manufacturers. It used census of manufactures data to identify promising industries that were not yet heavily represented in the State.

A professor at the Boston University School of Medicine used data on the geographic distribution of meat processing plants from the Location of Manufacturing Plants on computer tape in his study of the spread of brucellosis, an infection in livestock.

The marketing department of a chemical manufacturing company looked to the subject report Water Use in Manufacturing for information on industries that might use its products for water treatment and purification. Census data on water use by different industries and by State were used to determine the size of the market, to assign market areas, and to allocate resources for contacting potential product users.

### Tables From Manufactures Geographic Area Series, MC87-A

## Table 5. Statistics by Selected Industry Group and Industry for the State: 1987

[Includes operating manufacturing establishments and auxiliaries. Includes industry groups and industries with 150 employees or more. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

	Ser Investor June		All establis	hments <sup>2</sup>	All emp	loyees	Proc	duction worke	ers				
SIC	Industry	E1	Total (no.)	With 20 employ- ees or more (no.)	Number <sup>3</sup> (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)	Value added by manufac- ture <sup>4</sup> (million dollars)	Cost of mater- ials <sup>5</sup> (million dollars)	Value of ship- ments <sup>5</sup> (million dollars)	New capital expend- itures (million dollars)
	All industries	E1	47 625	14 467	2 005.0	42 636.4	1 209.4	2 317.9	20 564.8	94 374.0	105 592.9	199 704.1	8 443.6
20	Food and kindred products	-	2 536	1 208	173.5	3 286.0	127.9	240.7	2 159.7	10 936.5	20 339.9	31 263.3	906.3
201 2011 2013	Meat products Meat packing plants Sausages and other prepared	E2 E2	260 86	139 43	18.7 4.6	318.8 99.3	15.5 3.7	31.0 7.4	243.8 77.4	720.5 218.2	3 019.5 1 583.5	3 747.9 1 809.9	91.7 (D)
2016 2017	meats Poultry dressing plants Poultry and egg processing	E1 E2 E3	127 32 15	65 24 7	5.6 8.2 .3	117.5 98.0 4.0	4.0 7.5 .3	7.6 15.5 .6	78.3 85.1 3.0	332.5 161.5 8.2	849.4 554.6 32.1	1 180.5 717.5 40.1	13.5 (D)

### Table 7. Statistics by Selected Industry Group and Industry for Selected Counties:

[Includes operating manufacturing establishments and auxiliaries. Includes counties with 950 employees or more and industry groups and industries with 950 employees or more within counties, except those that would disclose data for individual companies. For information on geographic areas followed by  $\Delta$ , general geographic information, and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

	destruction and adjust the transfer		All establ	ishments <sup>2</sup>	All employees		es Production workers		duffield.	autity z	1812 AST		
SIC	Geographic area and industry	E'	Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)	Value added by manufac- ture <sup>3</sup> (million dollars)	Cost of mater- ials <sup>4</sup> (million dollars)	Value of ship- ments <sup>4</sup> (million dollars)	capita expend iture: (million dollars
	Alameda County	E1	2 202	671	76.4	1 757.2	45.6	887.1	916.2	3 637.8	4 248.8	7 948.6	247.
20	Food and kindred products	-	181	86	11.9	259.5	7.4	13.7	147.8	977.1	1 383.2	2 370.6	32.4
201 2013	Meat products	E3 E2	25 18	12 10	.8 CC	10.4	erior de Sving J	ni sanje Alivuda	estl mio	nt sisb	no bes	anasy w ad tanta	1.: (D
202 2026	Dairy products Fluid milk	E2	17 6	9 4	EE	(3,500.7)	MARKET V			w data for			00
203 2032 2033	Preserved fruits and vegetables Canned specialties Canned fruits and vegetables	10 E	10 3 2	6 2 2	1.4 CC CC	Tabl Tabl				rith 450 en vith 950 er			2.6 (D)
204 2043	Grain mill products Cereal breakfast foods	nl-	16 2	6 2	.9	(D) I	(D) [	(D) I	(D) I	(D) I	(D) [	(D)	3.3 (D

### Display From Location of Manufacturing Plants Files, MC87-LM

LABEL	SIC	ESTABS	E1T019	E20T049	E50T099	E100T0249
United States	2641	574	276	124	74	61
Alabana	2641	100 miles 3	1	2	0	0
Cullman County	2641	lal ens 1	9	1	0	0
Jefferson County	2641	1	1011	8	0	32510 678 0
Lee County	2641	1	0	1	0	0
Arizona "	2641	2	2	0	0	0
faricopa County	2641	manab 1	1	0	0	0
Pima County	2641	1	1	1 0	0	0
rkansas	2641	2	8M18	0	ar tuoliga	ger philocopy
Duachita County	2641	1 00000	2.21	0	0	W DESCO
Jhite County	2641	trailes 1	0	8	1 minute 1 m	0
California	2641	67	42	13	6	6
lameda County	2641	9	3	2	2	2
Contra Costa County	2641	1	1	ā	ē	9
Il Dorado County	2641	memap 1	1	0	Ø	Ø
os Angeles County	2641	27	18	7	Ö	2
Monterey County	2641	- 1	0	1	0	Ø

Establishments with 1 to 19 employees

Table 5a. Manufacturing Industries—Shipments and Employment Related to Manufactured Exports for States by Major Group: 1986

			Value of m	anufacturers'	shipments	new market min and		Manufa	acturing emplo	yment	V 0 11	Rela	tive
SIC	Geographic area and major group	Total¹ (million dollars)	Direct exports <sup>2</sup> (million dollars)	Supporting exports <sup>3</sup> (million dollars)	Total export related <sup>4</sup> (million dollars)	Total export related as percent of total shipments	Total <sup>5</sup> (1,000)	Direct export related <sup>6</sup> (1,000)	Supporting exports? (1,000)	Total export related <sup>6</sup> (1,000)	Total export related as percent of total employment	estim (percer colum	dard r of late <sup>9</sup> nt) for
132	Liver established on	BASSEL A	В В	C	D	9- 0-20E	PULIF	≡w G	шн	- E	examen IVI. J	В	G
	United States	2 260 314.6	159 376.8	134 962.7	294 339.5	13.0	18 371.2	1 060.9	1 257.3	2 318.2	12.6	5005	1
-	Alabama	36 537.2	1 684.9	2 725.0	4 409.9	12.1	328.9	12.1	19.6	31.7	9.6	2	4
20 21 22 23	Food and kindred products_ Tobacco products Textile mill products Apparel and other textile	3 836.0 34.6 2 755.8	222.6 (D) 69.6	65.1 (D) 160.7	287.7 (D) 230.3	7.5 (D) 8.4	25.3 .5 32.0	1.1 (D) .8	.3 (D) 1.6	1.4 (Z) 2.4	5.5 (Z) 7.5	5 (X) 9	9 1 10
24	products	2 418.2	92.1	23.4	115.5	4.8	56.3	.8	.4	1.2	2.1	1	1
	products	2 051.4	75.9	100.5	176.4	8.6	22.7	.8	1.2	2.0	8.8	53	56

#### **Analytical Reports**

Analytical Reports include information from the census of manufactures and related sources.

Exports From Manufacturing Establishments, AR87-1, □ ■ ♥ ○ ■, presents information on the value of direct and indirect export shipments and estimates of the employment required to manufacture these products, reported by two- and three-digit SIC codes for the Nation as a whole and for States.

For years other than census years, this report is published based on data from the Annual Survey of Manufactures, but with only two-digit SIC detail for States. ASM reports also do not feature the counts of establishments that export, as shown in the following report.

- Selected Characteristics of Manufacturing Establishments That Export, AR87-2 □ ② □, publishes the number of establishments that export by "export intensity" (percent of goods produced that are exported) by two- or three- digit SIC for States and separately by employment-size class.
- Indexes of Production, AR87-3, □ ■, is designed to measure the change in physical output of manufacturing and mineral industries between 1982 and 1987. Price deflators used in converting the value of shipments to constant dollars are presented at the four- and five-digit levels. This is the only report from the economic censuses where the topic of adjusting the data for inflation is discussed (see also p. 110).

The corresponding report for the 1982 census was released in 1989 as a "working paper." (Contact Industry Division, Bureau of the Census, Washington, D.C. 20233.)

#### **Current Manufactures Statistics**

Annual Survey of Manufactures, series M[year] (AS)-1 to -3, □ ■ ② . The ASM is published for years other than census years (e.g., 1988-1991). Census years are excluded

because census reports include statistics normally collected in the ASM. These reports typically are published 15 to 18 months after the close of the reference year.

- Statistics for Industry Groups and Industries, similar to the general statistics in the census Industry Series but less detailed, at the national level, with comparable data for the previous year.
- Value of Product Shipments, featuring approximately 1,500 product classes, with comparable data for the previous few years.
- Geographic Area Statistics, presents general statistics for States by three-digit industry, with comparable data for the previous year. Prior to 1985, the ASM also included data on the origin of exports of manufactured products. The data are now published in separate reports in the Analytical Report series (see above).
- Current Industrial Reports, 
  ☐ (subscription) ☐ , also ☐ where indicated on page 59. The various publications series include monthly, quarterly, annual, and biennial reports. Some monthly and quarterly series are linked to separate annual reports; those that are not have annual summaries within the same series. Titles and frequency are listed on page 59, along with an indication of those reports that include State data. (The list is subject to change from time to time, since many of the surveys depend for funding on outside sponsors.)

CIR's are generally commodity reports, covering selected products. Many include import and export data, as collected separately (see "Foreign Trade Data," p. 87), allowing the estimation of "apparent consumption" of commodities in the United States. Report numbering generally includes the two-digit SIC for the major industry group.

There are also several general purpose reports not restricted to one industry group:

#### **CURRENT INDUSTRIAL REPORTS**

Report series	Fre- quency <sup>1</sup>	n 2/8 minUw protessor bareinen en	Report series	Fre- quency <sup>1</sup>	
		SPECIAL SURVEYS			PRIMARY METALS
MQC1	Α	Survey of Plant Capacity	Mona	former me	
MA200	Α	Pollution Abatement Costs and Expenditures	M33A	М	Iron and Steel Foundries
		THE DESIGNATION WAS A SECOND OF THE PROPERTY OF THE PARTY	MA33A	A	Iron and Steel Foundries
	1909	ALL MANUFACTURING INDUSTRIES	МАЗЗВ	A	Steel Mill Products
M3	М	Manufacturers' Shipments, Inventories, and Orders	M33E	М	Nonferrous Castings   □
		FOOD (87 le) advict at 8 bandpet time a 1	MA33E	A	Nonferrous Castings
		The state of the s	M33J	М	Steel Mill Shapes and Forms (Producers' Net Shipments
M20A	М	Flour Milling Products <sup>2</sup>	мззр		and Inventories)
MA20D	A	Confectionery	MA33L	M A	Aluminum Ingot and Mill Products  Insulated Wire and Cable
M20J	М	Oilseeds, Beans, and Nuts (primary processors)2	MAGGE	^	A REVOLUCIO MARCOLLO DE ATRADAS
M20K	М	Fats and Oils—Production, Consumption, and Stocks			INTERMEDIATE METAL PRODUCTS
		TEXTILE MILL PRODUCTS	MQ34E	Q	Plumbing Fixtures
M22D	М	Consumption of Fibers in Woolen Spinning and	MQ34H	Q	Closures for Containers
Hoani		Production of Tops and Noils and Tow to Top	MQ34K	Q	Steel Shipping Barrels, Drums, and Pails
MA22F.1	Α	Textured Yarn Production			MACHINERY AND EQUIPMENT
MA22F.2	Α	Spun Yarn Production <sup>2</sup>		EL BUE S	
MA22G	Α	Narrow Fabrics	MA35A	Α	Farm Machinery and Lawn and Garden Equipment
MA22K	Α	Knit Fabric Production	MQ35D	Q	Construction Machinery
MA22M	В	Stocks of Wool and Related Fabrics	MA35D	Α	Construction Machinery Shipments
M22P	М	Cotton, Manmade Fiber Staple, and Raw Linters	MA35F	Α	Mining Machinery, Mineral Processing Equipment
	1555	(Consumption and Stocks and Spindle Activity)2	MA35L	Α	Internal Combustion Engines
MQ22Q	Q	Carpet and Rugs	MA35N	Α	Fluid Power Products, Including Aerospace
MA22Q	Α	Carpet and Rugs	MA35P	Α	Pumps and compressors
MQ22T	Q	Broadwoven Fabrics (Gray)	MA35Q	Α	Antifriction Bearings
MQ23X	Q	Sheets, Pillowcases, and Towels	MQ35W	Q	Metalworking Machinery
		APPAREL	MA35X	Α	Robotics
20000	26		MA37D	Α.	Aerospace Orders
MA23A	Α	Apparel	M37G	M	New Complete Aircraft and Aircraft Engines, Except
MQ23A	Q	Apparel			Military  ■
MA23D	Α	Gloves and Mittens	M37L	М	Truck Trailers
M31A	M	Footwear			INDUSTRIAL EQUIPMENT AND CONSUMER GOODS
MA31A	Α	Footwear	MA34N	Α	
		WOOD AND PAPER PRODUCTS	MA35J	A	Selected Heating Equipment Selected Industrial Air Pollution Control Equipment
MA24F	Α	Hardwood Plywood	MA35M		Petrigoration and Air Conditioning Control Equipment
MA24H	A	Softwood Plywood	MAGOM	A	Refrigeration and Air-Conditioning Equipment, Including Warm Air Furnaces
MA24T	A	Lumber Production and Mill Stocks <sup>2</sup>	MA35U	Α	Coin-Operated Vending Machines
MA26A	A	Pulp, Paper, and Board	MA36E	A	Electric Housewares and Fans
			MA36F	Ä	Major Household Appliances
		OFFICE FURNITURE, SUPPLIES, AND RELATED PRODUCTS	MA36L	A	Electric Lighting Fixtures
	AMERICA		MA36M	A	Radio Receivers and Television Sets, Phonographs and
MA25H	A	Office Furniture	INITIOON		Record Players, Speakers, and Related Equipment
		CHEMICALS AND RELATED PRODUCTS	MA35R	Α	Computers and Office and Accounting Machines
M28A	М	Inorganic Chemicals	MA36P	Α	Communication Equipment, Including Telephones and
MA28A	A	Inorganic Chemicals <sup>2</sup>			Other Electronic Systems and Equipment
M28B	М	Inorganic Fertilizer Materials and Related Products  ■	MA36Q	A	Semiconductors, Printed Circuit Boards, and Other
MA28B	A	Inorganic Fertilizer Materials and Related Products <sup>2</sup>	1974-01570-015		Electronic Components
M28C	M	Industrial Gases 4	MA36R	Α	Electromedical Equipment and Irradiation Equipment
MA28C	A	Industrial Gases <sup>2 3</sup>			(Including X-Ray)
M28F	M	Paint, Varnish, and Lacquer Products			SWITCHGEAR AND INDUSTRIAL CONTROLS
MA28F	A	Paint and Allied Products	MA36A	Α	Switchgear, Switchboard Apparatus, Relays, and
MA28G	Ä	Pharmaceutical Preparations, Except Biologicals		-17 1	Industrial Controls
	25.8		MA38B	Α	Selected Instruments and Related Products
	124	RUBBER AND PLASTICS PRODUCTS			ELECTRICAL AND ELECTRONICS
MA30A	A	Rubber	MOCD		
MA30B	Α	Rubber and Plastics Hose and Beltings	M36D	M	Electric Lamps
MA30C	A	Rubber Mechanical Products	MQ36B	Q	Electric Lamps
MA30E	Α	Plastics Bottles	MQ36C	Q	Fluorescent Lamp Ballasts
		GLASS, CLAY, AND RELATED PRODUCTS			MOTORS, GENERATORS, AND ELECTRICAL DISTRIBUTION EQUIPMENT
MQ32A	Q	Flat Glass			DISTRIBUTION EQUIPMENT
MA32C	Α	Shipments of Refractories	МАЗ6Н	Α	Motors and Generators
M32D	M	Clay Construction Products <sup>2</sup> <sup>3</sup> □	MA36K	Α	Wiring Devices and Supplies
MA32E	A	Consumer, Scientific, Technical, and Industrial Glassware			AEROSPACE
M32G	М	Glass Containers □	144075		Markers Ballicox - World Markers Advisor - 1972/1 Avg - 197
MA32J	A	Fibrous Glass	MA37D	Α	Aerospace Industry (Orders, Sales, and Backlog)

<sup>&</sup>lt;sup>1</sup>Frequency of publication: M, monthly; Q, quarterly; A, annual; B, biennial). <sup>2</sup>Includes data for some or all States. <sup>3</sup>Includes data for census regions.

- Manufacturers' Shipments, Inventories and Orders, M3-1, □ ■ □ , provides these three key measures of manufacturing activity at the national level. This report is issued about 30 days after the end of the reference month.
- Survey of Plant Capacity, MQ-C1, □ □, presents fourth-quarter data for the United States by industry on capacity utilization rates and reasons plants operated at less than 100 percent of capac ity. Data are issued roughly 14 months after the close of the year.
- Pollution Abatement Costs and Expenditures, MA-200, Plant Capacity, MQ-C1, □ m, presents annual data on total operating costs, capital expenditures, and cost recovered by manufacture for air, water, and solid-waste pollution abatement in the United States during the year. Data for establishments with 20 or more employees are shown by four-digit SIC for the United States and by two-digit SIC for States. The report appears about 14 months after the close of the reference year.

- Survey of Manufacturing Technology, SMT(88)-1, mm, a one-time survey conducted in 1988, shows manufacturers' current use and plans for acquiring and implementing specific technologies, such as robotics, computer-aided design, and computerassisted manufacturing within SIC major group 34 to 38.

For more information about manufactures, see also-

- Outlying Areas (p. 73)
- Enterprise Statistics (p. 76)
- Minority- and Women-Owned Businesses (p. 79)
- · County Business Patterns (p. 83)
- Quarterly Financial Report (p. 85)
- Plant and Equipment Expenditures Survey (p. 86)
- · Foreign Trade (p. 87), with statistics on the import and export export of manufactured goods.
- Agriculture (p. 90), including cotton ginnings.
- · Population and Housing (p. 96), for characteristics of persons employed in manufacturing.

### Table From Current Industrial Report M3-1, Manufacturers' Shipments, Inventories and Orders

#### Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES (Millions of dollars)

		Se	asonally	adjusted	1				Not seasonally adjusted <sup>1</sup>								
Industry		Monthly		Per	cent Ch	ange		Mon	thly		Percent	Year t	o date				
Na Communication of the Area o	July 1989 <sup>p</sup>	June 1989	May 1989	June- July <sup>p</sup>	May- June <sup>r</sup>	Apr May	July 1989 <sup>p</sup>	June 1989 <sup>r</sup>	May 1989	July 1988	change July 89/88 <sup>p</sup>	1989P	1988				
All manufacturing industries .	226,933	231,236	233,071	-1.9	-0.8	-0.4	208,628	245,779	233,725	199,670	+45	1,603,254	1,481,762				
Manufacturing industries with unfilled orders	126,109	128,182	128,363	-1.6	-0.1	-0.3	114,099	137,090	127,503	108,677	+5.0	880,636	816,404				
Durable goods industries With unfilled orders Stone, clay, and glass products .	117,688 98,908 5,289	121,720 101,142 5,466	122,962 101,168 5,404	-3.3 -2.2 -3.2	-1.0 0.0 +1.1	-0.3 -0.1 -0.9	104,870 88,676 5,028	131,766 109,350 5,915	124,193 100,808 5,556	101,393 84,419 4,999	+3.4 +5.0 +0.6	847,544 693,812 37,342	786,936 640,554 36,472				
Primary metals  Blast furnaces, steel mills  Iron and steel foundries  Nonferrous and other primary	12,117 4,862 807	12,179 4,858 843	12,250 5,048 875	-0.5 +0.1 -4.3	-0.6 -3.8 -3.7	-1.9 -1.6 -2.9	11,080 4,478 696	12,955 5,208 900	12,537 5,239 939	10,728 4,641 715	+3.3 -3.5 -2.7	87,673 35,947 6,097	80,934 35,811 5,892				
metals	6,448	6,478	6,327	-0.5	+2.4	-2.0	5.906	6.847	6.359	5.372	+9.9	45.629	39.231				

### Table From Current Industrial Report M28A, Inorganic Chemicals

Table 2. PRIMARY PRODUCTION AND STOCKS OF INORGANIC CHEMICALS

(Short tons)

	Mobiles, Washing York Man In Company of the Company	June 1	989	May 19	89	June 1988	
Product code	Product description	Quantity produced	Stocks at producing plants	Quantity produced	Stocks at producing plants	Quantity produced	Stocks at producing plants
	Chlorine and alkalies:		ontrosenticos de	count duty fution to	in I court have a liber	alaumiti in	
	Chlorine (100%):	CL WALL S			ALI MODELLOI	The state of the s	
28121 11	Gas 1	910,411	(NA)	930,238	(NA)	903,590	(NA)
28121 15	Liquid	677,092	(NA)	717,825	(NA)	704,779	(NA)
	Sodium hydroxide (caustic soda) (100%) (all processes):		Turryla	2004	ux. Hinco	in dissilities ( , v	
28123 50	Liquid <sup>2</sup>	972,189	(NA)	987,834	(NA)	957,082	(NA)
28123 67	Dry (all forms)	a14,295	(NA)	820,258	(NA)	18,740	(NA)
28125 21	Potassium hydroxide (caustic potash) (88 to	CONTROL OF THE PARTY OF THE PAR			VECCOEAT -		
	92%), liquid1	31,459	(NA)	31,281	(NA)	28,996	(NA)



## **Mineral Industries**

#### WHAT ARE MINERAL INDUSTRIES?

The census of mineral industries enumerates establishments primarily engaged in mining—extracting minerals that occur naturally, whether in solid, liquid, or gaseous form; preparing them on site as necessary; and exploring and developing mineral properties.

Mineral industries do not include the purification and distribution of water, classified under transportation and public utilities, and the bottling and distribution of natural spring and mineral waters, classified under wholesale trade. Crushing, grinding, or otherwise preparing clay, ceramic, and refractory minerals, barite, and miscellaneous nonmetallic minerals other than fuels is classified as manufacturing unless performed in conjunction with mining and quarrying operations. Dressing of stone or slabs is classified as manufacturing whether or not mining is done at the same establishment.

Mining operations carried on as secondary activities at manufacturing establishments (such as sand and gravel operations at ready-mixed concrete plants) are also not within the scope of this census. However, selected data (production workers' wages and hours; total cost of supplies, fuels, electric energy, and contract work; and quantity of production for mined products) on such mining activities have been obtained in the 1987 Census of Manufactures and are included in census of mineral industries reports.

## HOW ARE MINERAL ESTABLISHMENTS, PRODUCTS, AND MATERIALS CLASSIFIED?

#### Mineral Industries Establishments

In general, mining establishments are classified by the principal mineral produced or, if there is no production, on the basis of the principal mineral for which exploration or development work is in progress. There are four major groups in the Standard Industrial Classification (SIC) for mineral industries—

- 10 Metal mining
- 12 Coal mining
- 13 Oil and gas extraction
- 14 Mining and quarrying of nonmetallic minerals, except fuels

These major groups are broken down into 19 three-digit industry groups and 31 four-digit industries as shown in appendix A.

Central administrative offices, warehouses, and other auxiliary establishments that primarily serve mining establishments are classified at the four-digit SIC level and are included in all tallies of establishments, employment, and payroll. This is different from the other economic censuses, where auxiliaries are either excluded or shown separately. Auxiliaries are very important to mining operations, since many operating establishments (mines) have little administrative support on site. Additional characteristics of auxiliaries are shown in an Enterprise Statistics report (see p. 76).

#### **Mineral Products**

The Census Bureau has developed a system for classifying the products of mineral industries into a hierarchical structure of 76 product classes (five-digit code) and 180 products (seven-digit code). These codes are consistent with the four-digit SIC code for the industry from which those products typically originate. For example—

Industry
 Product class
 Product
 1011
 Crude iron ores
 Direct-shipping ores

Some changes occur in this product coding between censuses as obsolete products are combined into broader categories and new categories are defined in response to the development of new products, new technologies, and changing marketing needs within the respective industries. Additional changes were made for 1987 where necessary to reflect changes in the SIC system and to increase comparability with the "harmonized system" for classifying commodities in export and import statistics. (See discussion of foreign trade data, p. 87.)

#### **Materials Consumed**

A separate set of six-digit codes is used to classify important raw materials consumed by mining establishments.

#### **HOW ARE THE DATA COLLECTED?**

The census data were collected by mail directly from about 22,000 single and multiestablishment companies using 11 variants of the census questionnaire. Limited data (employment, payroll, and receipts) for the approximately 11,000 additional small firms, those below a cutoff that varied by industry, were obtained from administrative records of other Federal agencies.

Data on water use reported in the Subject Series (see below) are being collected in 1990 (covering water use during 1989) from mining establishments that reported on the 1987 census questionnaire that they used at least 20 million gallons of water.

## Figure 13. Major Data Items Published in Mineral Industries Reports by Geographic Level

[Legend: • —Counties, States, and national. N—National only. S—States and national]

MIC87-I(P)  N  N  N  N  N  N  N	MIC87-I S N S S S N S S N S S N	MIC87-A	MIC87-S-1  S N N N S S S N S N S N N S S N N S	MIC87-S-2	MIC87-S-
22 22	z sss z ssz s	· - Y •	N		
22 22	z sss z ssz s	· - Y •	N		
N N N N	\$\$\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	· - Y •	N N N S S N S S N S S N		
N N N N	\$\$\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	· - Y •	N S S S N S S N		
N N N N	8 8 N 8 8 N 8 8 N 8 8 N 8 N 8 N 8 N 8 N	· - Y •	\$ \$ \$ N \$ \$ \$ N		
N N N N	8 8 N 8 8 N 8 8 N 8 8 N 8 N 8 N 8 N 8 N	· - Y •	S S N S S N		
N N N N	8 8 N 8 8 N 8 8 N 8 8 N 8 N 8 N 8 N 8 N	· - Y •	S S N S S N		
N N N	N	· - Y •	N S S N		
N N N	S N S S S N	· - Y •	s N		
N N N	S N S S S N	· - Y •	s N		
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<sup>&</sup>lt;sup>1</sup>For complete titles, see descriptions starting on p. 63.

SIC Changes—

- Detail has been reduced through combining a number of relatively minor industries into broader categories. For example, bauxite and aluminum ores and mercury ores are combined into metal ores, not elsewhere classified (SIC 1099).
- Anthracite coal mining has been moved into the same two-digit SIC major group as bituminous coal mining.
   Underground and surface bituminous coal mining are now differentiated.

The extra detail in the old SIC classifications is shown for 1987 at the national level in table 1c in the Industry Series reports.

• Survey dropped. The Annual Survey of Oil and Gas, which was begun in 1973, was discontinued after 1982.

#### REPORTS

#### **Preliminary Reports**

Data in preliminary reports are superseded by the final reports.

- Preliminary Industry Series, MIC87-I-10A(P) to -14E(P),
   Each of the 12 reports furnishes general statistics for the United States for a group of related industries, with information by State insofar as there are significant operations in the State. Preliminary totals are also shown for quantity and value of shipments for the products primary to the industry. The data are similar to those in the final reports (below), but in less detail.

#### **Final Reports**

 Industry Series, MIC87-I-10A to -14E, □ ■ ♥ ○ . Each of the 12 reports provides statistics for the Nation as a whole for a group of industries (e.g., oil and gas field exploration services). Final figures are provided for each of 31 four-digit SIC industries on the number of establishments and companies; payroll; employment; hours worked; quantity and value of products shipped and supplies used; cost of purchased machinery; capital expenditures; assets; depreciation, amortization, and depletion; rents; inventories; quantity and cost of fuels produced and consumed; value added by mining; and mineral development and exploration costs. Comparative statistics for earlier years are included. Bridge tables (see table 1c) show 1987 data classified according to both the old and new SIC's. General statistics are shown by State and offshore area, type of operation (surface or underground mining and method of ore concentration or preparation), and size of establishment.

### Table From Mineral Industries Industry Series, MIC87-1

#### Table 6a. Products or Services for Selected States: 1987 and 1982

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

Product	and the number of establishments by analogym	1987 shipments servi		1982 shipments servi	
service code	Geographic area and product or service	Quantity	Value (million dollars)	Quantity	Value (million dollars)
	CRUDE PETROLEUM AND NATURAL GAS				
	Texas Signature respect asket respect to the forested a	ni (Evropt			
	Total	(x)	26 213.6	(x)	45 515.8
13111 00	Crude petroleum, including lease condensate (volumes corrected to 60º263 F) shippedmil bbl_ From stripper well leasesdo	783.6 166.4	13 447.5 (X)	797.9 131.1	24 996.7 (X)
13111 07	Lease condensate produced (volumes corrected to 60º263 F)do	51.4	(X)	57.4	(X)
13115 00	Natural gas (volumes adjusted to pressure base of 14.73 pounds absolute at 60°263 F) shipped to consumersbil cu ft	5 632.0	8 694.9	5 580.9	14 299.8
13110 00	Crude petroleum and natural gas, n.s.k1	(X)	4 071.3	(x)	6 219.3
	Utah separata iunah presesom dibu ye ésa presew dibe histo Utah separatanna aritumpyyyaka (no) rombi is u adi ni histori i	a, en o ro Allemakina date form	Abenian las Emicaeki servadī u	en film m Snew art Admoran	
	Total	(X)	812.7	(X)	1 027.5
13111 00	Crude petroleum, including lease condensate (volumes corrected to 60°263 F) shippedmil bbl	31.6	558.5	23.1	672.3

#### Table From Mineral Industries Geographic Area Series MIC87-A

#### Table 5. Industry Group Statistics for Counties: 1987 and 1982

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1987 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

	1 - Indicasa familiano	14,311.3						1987						198	32
CIO	en mgi manansi	10		nents during ear	All emp	ployees Production, development, and exploration workers	Cost of supplies	intereds on the	DE SERVICE	Arting					
SIC	Geographic area and industry group	E1	Total (number)	With 20 employees or more (number)	Number <sup>2</sup> (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by mining (million dollars)	purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)	All em- ployees (1,000)	Value added by mining (million dollars)
	lowa	E2	216	26	2.1	38.2	1.6	3.3	27.4	103.5	66.5	153.1	16.9	2.9	87.6
	Linn County	E3	11	4	.3	5.7	.2	.4	3.7	12.9	6.7	16.3	3.3	(NA)	(NA)
14	Nonmetallic minerals, except fuels	E3	9	21/10/4	ВВ	(D)	(D)	(O)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
142	Crushed and broken stone, including riprap	E3	6	4	.3	5.4	.2	.4	3.4	11.9	6.2	15.0	3.2	(NA)	(NA)
100	Monroe County	1	21,074	WE YEAR	ZZ	(D)	(D)	(D)	(D)	(D)	(0)	(0)	(D)	(NA)	(NA)

# Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1987

[Data for the crude prtroleum and natural gas and mining services industries were not collected by county in 1987 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment- size class <sup>1</sup>	All mineral indus- tries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas ex- traction (SIC 13)	Non- metallic minerals mining (SIC 14)
lows	216	2	10	23	181
0 to 4 employees 5 to 9 employees 10 to 19 employees 20 to 49 employees 50 to 99 employees 100 to 249 employees	100 53 37 21 3 2	1 =	5 1 2 1	20 2 1 -	74 49 35 19 2
Adair County	- 4		-	2	2
0 to 19 employees	3 1	Ξ	1 2	2	1
Allamakee County	1	192		-	1
0 to 19 employees	-1				1
Appanoose County	5	-	1	-	4
0 to 19 employees 20 to 99 employees	4	-	1 -	= =	3 1

• Geographic Area Series, MIC87-A-1 to -9, □ ■ ♥ ⊙. These nine reports present data for the States and for offshore areas grouped according to the nine census geographic divisions (see p. 11) on the number of establishments, payroll, employment, hours worked, value of shipments, cost of supplies, capital expenditures, assets, rental payments, inventories, and value added by mining. Comparative 1982 data on employment and value added by mining are provided at the State level. Selected data are shown for each of the four-digit industries insofar as they have significant operations in the State, and by type of operation (surface or underground mining and method of ore concentration or preparation).

Two types of data are presented for counties and for the offshore areas under each State's jurisdiction: General statistics for two- and three-digit industries with 450 or more employees in the county (see table 5, above) and the number of establishments by employment-size class for two-digit major industry groups with no size cutoff (see table 6).

#### How Have Mineral Industries Data Been Used?

A manufacturer of mine safety equipment used Geographic Area Series information by state on the types of mining operations, and by county on size of mining establishments in a review of its marketing plans. While past sales contacts had been only with relatively large companies, the manufacturer wanted to explore the feasibility of targeting small mining establishments with their new line of safety equipment.

A new manager of a sand and gravel mine in Texas was concerned about efficiency. She consulted the census Industry Series report, and found that the industry averages for both shipments and capital expenditures relative to payroll were higher than was true for her own mine. This information helped her convince the mine owners that the plant would need a modernization program to stay competitive.

A number of Federal agencies are concerned with water usage by both mines and manufacturers: The Corps of Engineers, the Water Resource Management Branch of the U.S. Geological Survey, and the Environmental Protection Agency, among others. They use data from the subject report *Water Use in Mineral Industries*, as well as its counterpart for manufacturing, noting changes over the years since the previous census. These trends in water use by industry are combined with projections of past trends in the expansion or decline of the industries themselves to project future industrial water demand.

- Subject Series, MIC87-S-1 to -3, □
  - 1. General Summary presents summary totals for all 31 mineral industries nationally. The report also contains information that previously appeared in the 1982 report Gross Book Value of Depreciable Assets, Capital Expenditures, Retirements, Depreciation, and Rental Payments. (Also ♥ ○ )
  - 2. Fuels and Electric Energy Consumed presents quantity and cost of purchased fuels and electric energy used by mineral establishments to produce heat and power. Data are presented nationally by two-, three-, and four-digit SIC and by State.
  - 3. Water Use in Mineral Industries presents data by industry on the intake, recirculation, and discharge of water during 1989, for establishments using 20million gallons of water or more annually. Data are shown by industry, by State and by U.S. Geological Survey water resource regions.

For more information about mineral industries, see also-

- Census of Manufactures (p. 51) covers oil and gas refining and ore smelting; the Indexes of Pro duction report (p. 58) covers both manufacturing and mineral industries.
- Enterprise Statistics (p. 76)
- Minority- and Women-Owned Businesses (p. 79)
- County Business Patterns (p. 83)
- · Foreign Trade (p. 87), with statistics on the import and export of mineral products.
- Population and Housing (p. 96), for characteristics of persons employed in mineral industries.

## Figure 14. Major Data Items Published in Construction Industries Reports by Geographic Level

[Legend: M—MSA's with 500,000 inhabitants or more, States, national. N—National only. S—States and national]

Security AND 1975 To a litem loss safe emillions in	C. Company	The state of the	Series <sup>1</sup>	The state of the s				
All the second of the second o	CC87-I(P)	CC87-I	CC87-I-28	CC87-A	CC87-S-			
NUMBER OF ESTABLISHMENTS AND FIRMS	ge he upoli							
All establishments .  Establishments with payroll .  Establishments without payroll .  Establishments by legal form of organization .  Single- and multiestablishments .	N N	s	N N N N N N N N N N N N N N N N N N N	S M S	t-Geuñ .: Var-se Var-se			
EMPLOYMENT	of Pharmacol	or yearsh at	TO THE THE PLAN	and have se	MI AND			
All employees  Construction workers  Construction worker hours.  Employment size of establishments.	N N N N	S S S N	A cinetrius oraci restroulation, qu	M S S S	3, iWaler I			
PAYROLLS	march - O e	Bram sta	COMPAND TO	riset farming ;				
All employees, entire year  All employees, first quarter  Construction workers  Supplemental labor costs, legally required and voluntary.	N N N	S N S N	of the way of the common section of the comm	M S S S	Ituwolis Silk 2:5 Fisheri			
VALUE OF CONSTRUCTION WORK DONE	20							
All establishments  Establishments with payroll  Establishments without payroll  By type of construction  By size of establishment	N N	S	N N N	S M S S	6			
OPERATING EXPENSES								
Cost of materials, etc. Cost of fuels. Contract work. Rental payments, total Buildings and structures Machinery and equipment Communications services Purchased repairs	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	S S S S Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z		M M S S S S	N			
CAPITAL EXPENDITURES	"	N	1	5				
Total New, total. Buildings/equipment Used, total Buildings/equipment		5 N N N		M S S S				
DEPRECIABLE ASSETS, GROSS VALUE BUILDING/EQUIPMENT				82.5				
End of 1986		N S N N		s s s				
INVENTORIES .				- A				
End of 1986		N N		s				
OTHER		536		333				
Business receipts by kind of business activity.  Value added .  Specialization by type of construction  Proprietors and working partners in establishments with payroll .  Value of construction work subcontracted to others .  Repairs to buildings and other structures .  Repairs to machinery and equipment .  Number of establishments in business at end of year .  Auxiliary establishments (including administrative offices) .	2 2222	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		M sssss	N N N			
SPECIFIC INDUSTRIES								
Operative builders; land subdividers and developers:  Land receipts.  General building contractors:  Work in progress and finished units not sold: Inventories	N	N N						

<sup>&</sup>lt;sup>1</sup>For complete titles, see descriptions starting on p. 68.



# Construction Industries

#### WHAT ARE CONSTRUCTION INDUSTRIES?

The census of construction industries enumerates establishments engaged primarily in constructing new homes and other buildings; heavy construction, such as highways; and special trades, such as plumbing and electrical work. In addition, the construction census covers land subdividers and developers, which the SIC system categorizes as real estate rather than construction.

Most construction establishments are described as contractors (general contractors and special trades contractors), but the census also includes operative builders who construct buildings or other structures on their own account to be sold when completed. Investment builders who engage in construction on their own account for rent or lease are not included within the scope of the census. Similarly, construction undertaken by homeowners or by nonconstruction businesses is not covered.

Construction activities are usually administered or managed from a fixed place of business, but the actual construction work is performed at one or more different sites. Because data are reported by establishment rather than by construction site, census figures on the distribution of establishments do not reflect where the construction was performed. (Only one table shows value of construction put in place by State.)

While this census describes establishments primarily engaged in construction, current surveys in that sector relate to all construction activities regardless of who performs the work. Most of these focus on residential construction.

## HOW ARE CONSTRUCTION ESTABLISHMENTS CLASSIFIED?

In general, construction establishments are classified by kind of business according to the principal work performed. There are three major Standard Industrial Classification (SIC) groups in construction industries—

- 15 Building construction—general contractors and operative builders
- 16 Heavy construction other than building construction—contractors
- 17 Special trade contractors

These major SIC groups are subdivided into 13 three-digit industry groups which in turn are subdivided into 26 four-digit industries, as shown in appendix A.

The construction census covers an additional four-digit industry, which the SIC system defines as part of SIC Major Group 65, real estate—

6552 Land subdividers and developers, except cemeteries

#### **HOW ARE THE DATA COLLECTED?**

At the time of the 1987 census, there were about 1.4 million construction establishments, and about one third of them had paid employees. Establishments without paid employees, typically one-person operations or partnerships, were not sent a questionnaire, but limited data were obtained from the administrative records of other Federal agencies. Statistical information for the establishments with paid employees was obtained by mail, using 24 variants of the census questionnaire. These were sent to all medium and large-size employers and to a sample of the smaller firms. Because of the extensive use of sampling, most data tables indicate the relative impact of sampling variability for each measure.

Prior to 1987, the census published receipts as the primary measure of construction activity. For 1987, the census is publishing the "value of construction work done" as the primary measure. This conceptual change was made because receipts during a calendar year may include advance payments or payments for work done in a prior year, and thus not accurately reflect construction work done during the census year. For certain key industries, such as operative builders and developers, receipts and work done may also differ because receipts do not include work contractors perform for their own account and use, which can be substantial.

Unlike the other economic programs, the current surveys in the construction sector are not integrated with the census. The reports and sampling frames for these surveys are based on public records, such as building permits, and they relate to all construction activities regardless of who performs the work. Much of the current survey data is collected by the Census Bureau's field staff.

The current surveys focus on the level and characteristics of construction activity. Most involve various aspects of residential construction, but one monthly survey measures the value of all types of construction.

#### What's new for 1987?

#### **Construction Industries**

- SIC changes. Two components previously classified as part of highway and street construction were moved to other industries:
  - Recreational facilities and trailer camp construction became part of SIC 1629, heavy construction, n.e.c.
  - Culverts and curbs was moved to SIC 1771, concrete work.
- "Value of construction work done" replaces receipts as the primary measure of construction activity. Differences
  between the two concepts occur because work can be done in one year with payment received either before or after
  the year, and because some contractors perform work on their own account, as with operative builders and
  developers.
- New detail—
  - Additions, alterations, or reconstruction are collected for all industries.
  - Federal, State and local detail are collected for government-owned construction.
  - On- and off-highway usage of gasoline and diesel fuel are collected.
  - Dollar volume of business done is broken down by more categories of construction and other activities within each industry.

#### How Have Construction Industries Statistics Been Used?

A distributor of electrical supplies consulted the Industry Series report for *Electrical Special Trades Contractors* to determine receipts of electrical contractors by State and to examine trends in their payments for materials and supplies.

An engineer in the Boston area seeking job advancement examined census data about a number of construction industries where he thought his skills could be used. After studying statistics, he concentrated his job search on the industries that had grown the most between the last two censuses.

#### REPORTS

#### **Press Releases**

Press releases # are issued for selected reports.

#### **Preliminary Reports**

Data in preliminary reports are superseded by final reports.

Preliminary Industry Series, CC87-I-1(P) to -28(P), m, includes a report for each four-digit industry, featuring two tables prior to their reissuance in the final Industry Series: detailed statistics for 1982 and 1987, and value of construction work done by type of construction, all at the national level. This is followed by the Summary, CC87-I-28(P) m.

#### **Final Reports**

• Industry Series, CC87-I-1 to -28, □ ■ ② ○ . Separate reports (CC87-I-1 to -27) present data for the Nation as a whole and for States for establishments with payroll in each of the 27 industries included in the census. Each industry report provides 1987 data on the number of construction establishments; value of construction work done; payroll; employment; hours worked; payments to subcontractors; payments for materials, components, supplies, and fuels; payments for selected purchased services; payments for the rental of structures, machinery, and equipment; value added; capital expenditures during the year; depreciable assets; and inventories. Statistics on type of construction and kind of business

activity within each industry show details beyond simple classification by SIC. Key data for 1972, 1977, and 1982 are also included. General statistics are shown for the industry by State and separately by size of employment and dollar value of business done. One table shows value of construction work by State where the work was performed. A bridge table in the introductory text presents 1987 data classified according to both the old and new SIC's.

The Summary (CC87-I-28) republishes key data for establishments with payroll as presented in the 27 individual industry reports and presents new information on establishments without payroll. Preliminary data on separate auxiliary establishments also are shown. Final and more detailed auxiliary data are included in the enterprise statistics report Auxiliary Establishments (see p. 76).

• Geographic Area Series, CC87-A-1 to -10, □ ■ ⊙ ⊙. There are nine reports (CC87-A-1 to -9) for States grouped according to the nine census geographic divisions (see p. 11). Some of the Geographic Area Series data are the same as in the Industry Series, except that they are organized by State rather than by industry. General statistics are presented for MSA's with 500,000 or more inhabitants. Limited data for 1972, 1977, and 1982, and for establishments with no payroll are shown, as well as selected data for establishments classified by size of employment and dollar value of business done.

The *U.S. Summary* (CC87-A-10) summarizes the data, as presented in the nine individual reports, for establishments both with and without payroll.

## Table 2. Detailed Statistics for Establishments With Payroll: 1987 and Earlier Census Years

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

Item	-						dard er (percen	
nem	1987	1982	1977	1972	1987	1982	1977	1972
Number of establishments in business during year	20 188	24 815	23 896	19 820	1	1	2	2
Number of establishments in business at end of year	19 511	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Proprietors and working partners	10 954	19 568	20 444	17 932	2	2	3	3
All employees**	120 600	152 167	165 580	144 935	1	1	2	- 1
Construction workers:  March  May  August  November  Average	93 633 111 019 115 403 108 733 109 576	124 832 148 859 154 352 142 600 142 797	136 579 157 245 168 130 154 054 156 395	120 174 140 163 148 644 135 262 138 203	1 1 1	1 1 1	2 2 2 2 2	
Other employees:  March  May  August  November  Average	10 940 29 559 36 982 39 930 36 269	8 810 (NA) (NA) (NA) (NA)	8 745 (NA) (NA) (NA) (NA)	6 634 (NA) (NA) (NA) (NA)	2 2 1 1	1 (NA) (NA) (NA) (NA)	3 (NA) (NA) (NA) (NA)	(NA) (NA) (NA) (NA)
Dollar value of business done  Value of construction work'  Value of construction work subcontracted in from others  Land receipts2  Other business receipts	10 954 120 600 93 633 111 019 115 403	19 568 152 167 124 832 148 859 154 352	20 444 165 580 136 579 157 245 168 130	17 932 144 935 120 174 140 163 148 644	2 1 1 1 1	2 1 1 1 1	. 2 2 2 2	

## Table 7. Value of Construction Work for Establishments With Payroll by Type of Construction: 1987 and 1982

		Value of cons	truction work <sup>1</sup>		De	lativo etan	dard error	
Type of construction	Total	New construction	Additions, alterations, or reconstruction <sup>2</sup>	Maintenance and repair			(percent)	3
	A	В	С	D	Α	В	С	
1987								
Value of construction work	4 109 576	3 142 797	856 395	4 138 203	1	1	2	9
Building construction	3 10 940	3 8 810	668 745	346 634	2	1	3	
Single-family houses	639 250	629 559	781 890	951 159	2	2	3	- 3
Single-family houses detached	136 982	768 497	621 282	147 215	2 2 3	2 2 3	4	
Single-family houses, attached	239 930	268 907	237 106	31 801	3	3	4	
Apartment buildings with two or more apartments	136 269	128 822	115 231	13 590	2	2	5	- 9
Hotels and motels	142 739	707 332	583 400	123 922	1	1	1	
Hotels and motels	669 479	603 626	497 788	105 838	1	1	1	
Other residential buildings including hotels and motels	102 596	103 696	85 612	18 084	4	4	8	3
Office buildings	44 907	10 773	8 185	2 588	13	12	17	1
Industrial buildings and warehouses		690 172	552 279	137 893	1	2	4	- 9
Industrial buildings	651 370		310 777	816 889	1	1	1	1
Warehouses	550 759	493 214	310 777	010 003	- 40	35.0		19
Other commercial buildings such as stores, restaurants, public garages, and	1	000 007	400.040	58 683	1	4	2	
automobile service stations	344 228	350 307	199 012	58 538	1	- 41	5	
Religious buildings	206 530	142 907	111 765		3	5	2	3
Educational buildings	56 934	85 349	62 401	25 123		3	3	3
Hospitals and institutional buildings	286 650	279 356	200 189	41 862	3	3	2	
Amusement, social, and recreational buildings	230 188	124 815	123 896	19 820	1	1	6	
Other nonresidential buildings	19 511	35 089	29 400	5 688	6	6	٥	1
Nonbuilding construction	10 954	19 568	20 444	7 932 144 935	2	2	3 2	
Highways, streets, and related facilities	120 600	152 167	165 580		- 1	i	2	
Power and communication transmission lines, towers, and related facilities	93 633	124 832	136 579	120 174	- 1		- 4	
Sewage treatment and water treatment plants	136 982	768 497	621 282	147 215	2	2 3	21	
Sewage treatment plants	239 930	268 907	237 106	31 801	3	3	4	
Water treatment plants	136 269	128 822	115 231	13 590	2	2	2	
Blast furnaces, petroleum refineries, and chemical complexes	142 739	707 332	583 400	123 922	1		1	
Power plants	669 479	603 626	497 788	105 838	1	1	- 1	
Power plants, nuclear	102 596	103 696	85 612	18 084	4	4	4	
Power plants, nuclear	1 44 907	3 10 773	8 185	2 588	13	12	17	1
Other nonbuilding construction	2 651 370	2 690 172	552 279	137 893	1	2	4	
and the state of t	2 031 010		E AND ENGLISH					
Construction work, n.s.k.	1 550 759	1 493 214	310 777	816 889	1	1	2	
By the frequency of the angles of	7							
1982	T		-2 '	2.1		_//69	21	
Total construction receipts‡¹	344 228	350 307	199 012	58 683	1	1	2	
Building construction	206 530	142 907		58 538 25 123	1 3	1 5	2 4	
Single-family houses	56 934	85 349		41 B62	3	3	3	
Apartment buildings with two or more apartments	286 650	279 356	200 189	41 802	J		0	

#### Table From Construction Industries Geographic Area Series, CC87-A

Table 3. General Statistics for Establishments With Payroll by Industry: 1987 and 1982

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

			100			1987			
1987	1 (4)		Emplo	yees**	Pay	roll			
SIC	Industry	Number of establish- ments	All	Construction workers	All employees	Construction workers	Construction worker hours (thousands)	Value of construction work	Net value o construction work
		А	В	С	D	Е	F	G	
	Construction Industries and subdividers and developers	1 391	15 618	13 086	296 027	245 224	23 080	1 497 170	1 065 26
5,16, 17	Construction Industries:	1 -		- 11		10			
5	Building construction—General contractors and operative builders:	4-3		x=+ -			-		- (
2 21 22	General contractors, residential buildings: Single-family houses Other residential buildings	243 19	1 105 211	921 110	11 505 2 070	8 500 190	1 432 15 586	65 951 8 832	48 18: 5 05:
31	Operative builders	39	385	297	7 068	5 243	465	139 080	21 9f
4 41 42	General contractors, nonresidential buildings: Industrial buildings and warehouses	29 55	626 647	509 502	10 968 12 327	7 833 8 489	949 844	65 673 98 753	31 830 37 021
	Heavy construction other than building construction—contractors:			-				J.	,
11	Highway and street construction	40	1 078	872	20 850	15 824	1 595	92 006	77 87
2 22 23 29	Heavy construction, except highway: Bridge, tunnel, and elevated highway construction Water, sewer, and utility lines Heavy construction, n.e.c.	3 16 26	(D) 645 1 367	(D) 581 1 290	(D) 11 397 (D)	(D) 9 501 (D)	(D) 1 283 (D)	(D) 33 545 (D)	31 201 (D

_		iii	1987-	Con.				1982					
)	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted to others	Rental cost of machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Total construction receipts1	Value added††	Relative standard error of estimate (percent) for column—		198 SIC cod	
_		J	к	L	м	N	0	- Р	q	В	н	М	
)	602 031	492 511	431 908	15 132	17 989	218 485	17 826	1 067 681	402 371	2	1	4	
			-				2.24						15,16, 17
\		Į		2	i Ant	i	- 1						15
)	30 583 3 961	18 234 6 754	17 769 92	439 78	591 56	4 996 1 866	1 660 (D)	62 635 (D)	26 071 (D)	11 2	16 2	14 9	152 1521 1522
	13 332	8 956	17 114	207	557	26 661	396	37 981	11 509	14	16	20	1531
	17 266 22 270	15 122 15 606	33 843 61 732	321 903	588 998	4 674 9 002	972 776	49 477 51 468	6 133 15 344	6 12	5 9	7 2	154 1541 1542
	-				-				-				16
	61 327	(D)	14 135	2 756	3 467	52 803	949	41 083	22 233	5	4	6	1611
	(D) 22 827 (D)	(D) (D) (D)	(D) 2 344 (D)	(D) 692 (D)	(D) 3 177 1 119	(D) 22 847 13 147	358 706 (D)	21 430 27 924 (D)	10 247 18 961 (D)	5	6	- 6 (W)	162 1622 1623 1629

• Subject Series, Legal Form of Organization and Type of Operation, CC87-S-1, □ ■. This one report presents for the Nation as a whole selected data (number of establishments, number of proprietors and working partners, and total employment) for construction establishments with and without payroll and for the aggregate, classified by industry and by

legal form of organization. The report also contains selected statistics (number of establishments, employment, payroll, payments to subcontractors, and value added) for construction establishments with payroll, classified by industry, type of operation (single- or multiestablishment), and legal form of organization.

#### **Current Construction Reports**

- monthly report presenting statistics for the United States on new privately owned housing units started by type of structure (single and multifamily) and purpose of construction (sale, rent, etc.). Totals are also included for census regions and for area inside and outside MSA's. Additional detail by region is presented quarterly. Other statistics cover unused permits, selected characteristics of apartment buildings, and mobile home shipments. Mobile homes are excluded from housing starts. Press releases are scheduled 2 weeks after the end of the month; reports appear 4 to 6 weeks later.
- New Residential Construction in Selected Metropolitan Statistical Areas, series C21 (subscription) = . A quarterly report containing statistics for 40 CMSA's, PMSA's, and MSA's (see app. B) on new housing units authorized; authorized but not started; started, under construction; and completed. Reports appear 4 months after the end of the quarter.
- A monthly report providing statistics for the United States on new privately owned housing units completed and under construction, by type of structure, plus totals for census regions and for area inside and outside MSA's. Includes additional detail by region on a quarterly basis. Press releases are scheduled 5 weeks after the end of the month; reports appear 4 to 6 weeks later.
- New One-Family Houses Sold and for Sale, series C25 (subscription) = . A monthly report containing national and regional totals for new privately owned

- one-family houses sold and for sale. Data include the ratio of houses for sale to those sold; the number sold and for sale, by stage of construction; and median and average sales prices. Quarterly supplements provide additional information on sales prices and type of financing. Press releases appear 3 weeks after the end of the month; reports, 3 to 5 weeks later.
- Characteristics of New Housing, series C25 m (part of C25 subscription, see above) # . An annual report containing detailed information for the United States, census regions, and area inside and outside MSA's for selected physical and financial characteristics of new one-family houses completed and sold, including squarefoot area, number of bedrooms and bathrooms, type of fuel used, heating systems, price, down payment, etc. Also includes selected characteristics for multifamily buildings. Reports are publish in June or July of the following year.

A public-use microdata file ♥ of the survey records can be obtained from Construction Statistics Division, Bureau of the Census, Washington, D.C. 20233. This file allows users to design and produce their own tabulations.

Price Index of New One-Family Houses Sold, series C27 (subscription) = . A quarterly report that provides a measure of change over time in the national sales prices of new one-family houses (including land) that are the same with respect to 10 important characteristics as houses sold in 1982, including floor area, number of bathrooms, central air conditioning, parking, and geographic location. Regional data are provided

#### Table From Housing Starts, Series C20

Table 1. New Privately Owned Housing Units Started (Thousands of units. Detail may not add to total because of rounding)

	ilna godalldunas isonis	old wis	ion Freni	In structur	es with-	Ē.	E.		1			
nell'ill selmi	Period	Total	1 unit	2 units	3 and 4 units	5 units or more	Inside MSA's <sup>1</sup>	Outside MSA's <sup>1</sup>	North- east	Midwest	South	West
	ANNUAL DATA	atab b	entelldub	rrei erroe	E	t.		2				
1980 . 1981 . 1982 . 1983 . 1984 . 1985 . 1986 .	MONTHLY DATA	1,745.1 1,292.2 1,084.2 1,062.2 1,703.0 1,749.5 1,741.8 1,805.4 1,620.5 1,488.1	1,194.1 852.2 705.4 682.6 1,067.6 1,084.2 1,072.4 1,179.4 1,146.4 1,081.3	56.1 48.8 38.2 31.9 41.8 38.6 37.0 36.1 27.8 23.4	65.9 60.7 52.9 48.1 71.7 82.8 56.4 47.9 37.5 35.4	429.0 330.5 287.7 319.6 522.0 544.0 576.1 542.0 408.7 348.0	1,240,6 913,6 759,8 784,8 1,351,1 1,414,6 1,493,9 1,546,3 1,372,2 1,243,0	504.6 378.7 324.3 277.4 351.9 334.9 247.9 259.1 248.2 245.1	177.9 125.4 117.3 116.7 167.6 204.1 251.7 293.5 269.0 235.3	349.2 218.1 165.2 149.1 217.9 243.4 239.7 295.8 297.9 274.0	747.5 642.7 561.6 591.0 935.2 866.0 782.3 733.1 633.9 674.9	470.5 306.0 240.0 205.4 382.3 438.0 468.2 483.0 419.8 403.9
No	ot Seasonally Adjusted			l							-	
1988:	January February. March April May June	78.2 90.2 128.8 153.2 140.2 150.2	55.8 64.0 99.9 106.1 104.0 113.6	1.0 1.5 1.3 2.7 2.0 2.7	2.6 2.2 3.8 2.7 2.8 3.3	18.8 22.5 23.8 41.7 31.4 30.6	69.0 77.6 109.7 129.4 114.1 125.4	9.2 12.6 19.1 23.8 26.1 24.8	14.4 12.1 21.7 24.9 20.0 26.3	7.6 10.8 18.4 31.6 30.3 31.7	32.1 41.5 52.9 59.3 54.4 54.9	24.1 25.8 35.7 37.4 35.6 37.3
	July	137.0 136.8 131.1 135.1	100.3 101.4 91.7 97.7	2.2 1.7 2.4 2.1	2.5 4.0 2.7 3.5	32.0 29.6 34.4 31.8	112.2 112.6 108.1 111.7	24.8 24.2 23.0 23.4	24.7 23.9 19.6 18.4	28.2 25.2 26.0 26.4	49.5 49.0 49.7 49.8	34.5 38.7 35.8 40.5

- annually. Preliminary data appear in a press release 5 weeks after the end of the quarter; final reports, 10 to 12 weeks after the quarter.
- Value of New Construction Put in Place, series C30. □ (subscription) ■ □ . A monthly report on the total value of new private and public construction put in place: residential and nonresidential buildings, public utilities, nonbuilding construction, and residential additions and alterations. Includes unadjusted and seasonally adjusted figures in both current and constant dollars. Press releases are scheduled 4 weeks after the reference month; reports, 2 to 4 weeks later.
- Housing Units Authorized by Building Permits, series C40, (subscription) # 8 . This monthly report provides information on new housing units authorized for the United States, census regions and divisions, each State, 131 selected MSA's, and approximately 4,700 of the more active permit-issuing places. Monthly reports typically appear 6 to 8 weeks after the end of the month. The annual report includes all MSA's and about 17,000 permit-issuing places, and is published about 6 months after the end of the year. These reports exclude hotels, motels, and other group residential structures, as well as mobile homes.

#### Table From Housing Authorized by Building Permits and Public Contracts, Series C40

Table 4. New Privately Owned Housing Units Authorized in Selected Permit-Issuing Places: July 1989

[Nu	mber	of	uni	ts

Permit-issuing places	Current m	onth	Year to date				
reminissing places	Total	1 unit	451 470	Total	1 unit		
ALABAMA		Section .			OH OU.		
Baldwin County Bay Minette Fairhope Gulf Shores	2 3 7	2 3 5		5 43 38	5 43 30		
Barbour County Eufaula	3	3		35	33		
Blount County Oneonta	2	2		11	11		
Calhoun County Anniston Jacksonville	(NA)	(NA)	(06)	53 45	33 23		

 Expenditures for Residential Upkeep and Improvements, series C50, m (subscription) m. Quarterly and annual reports for the United States. The quarterly reports cover expenditures of residential property owners, by number of units on the property. The annual report shows expenditures made by owners of all types of residential properties and by owner-occupants of one-housing-unit properties, by type of construction, type of property, and region. Reports appear about 6 months after the end of the quarter.

For more information about construction industries, see also—

- 1987 Census of Retail Trade (p. 29). Construction receipts of certain kinds of retail establishments (e.g., lumber dealers) are reported separately in Merchandise Lines Sales.
- 1987 Census of Manufactures (p. 51). Force-account construction is reported for several industries.
- The construction industries use a variety of products. See those products which are classified in wholesale trade (p. 33) as well as in manufactures (p. 51).
- Outlying Areas (p. 73)
- Enterprise Statistics (p. 76)
- Minority- and Women-Owned Businesses (p. 79)
- County Business Patterns (p. 83)
- Population and Housing (p. 96), for characteristics of persons employed in construction, and for characteristics of the existing housing stock and new construction.
- · Governments (p. 93) for expenditures for highway construction
- The Bureau of Industrial Economics issues the monthly Construction Review. This report republishes selected Census Bureau information described above under "Current Construction Reports", and also includes some unpublished data on nonresidential building permits.



# **Outlying Areas**

#### **DEFINITION AND SCOPE**

Economic censuses of retail trade, wholesale trade, some service industries, construction industries, and manufactures (but not mineral industries and transportation) are conducted in Puerto Rico, the U.S. Virgin Islands, Guam, and the Northern Mariana Islands. Collectively, these enumerations are known as the 1987 Economic Censuses of Outlying Areas.

The most detailed data collections were in Puerto Rico, where both English- and Spanish-language questionnaires

were used to gather the necessary data. In Puerto Rico, the principal means of data collection was by mail, although statistics were collected from a sample of nonemployers by personal interview. For the U.S. Virgin Islands, Guam, and the Northern Mariana Islands, enumerators visited each establishment.

The economic censuses of outlying areas generally have fewer inquiries and publish less detailed results than their United States counterparts.

#### What's New for 1987?

**Outlying Areas** 

 Commercial Regions in Puerto Rico. The censuses of retail trade and service industries present statistics for commercial regions, nine groups of municipios (county equivalents) that collectively cover Puerto Rico, instead of MSA's.

#### **How Have Outlying Areas Data Been Used?**

As one analyst put it, "The American pharmaceutical industry is alive and well and living in Puerto Rico." His trade association showed special interest in data for the industry as shown in the census report for manufacturing in Puerto Rico. Apparently because of lower labor costs and favorable trade laws, pharmaceuticals in Puerto Rico have grown to exceed 10 percent of stateside production.

#### REPORTS

There are no preliminary reports; the following are all final series.

- Retail Trade, Wholesale Trade, Service Industries—Puerto Rico: Geographic Area Statistics, OA87-E-1, □ ■. This report presents data for Puerto Rico as a whole, commercial regions (retail trade and services only), MSA's and PMSA's (wholesale trade only), and municipios for establishments with payroll in retail trade, wholesale trade, and some service industries, by varied kind-of-business detail. The report provides data on the number of establishments, sales (or receipts), payroll, employment, number of working partners and proprietors, and unpaid family workers. Data on operating expenses and inventories are also presented for wholesale trade. Data for all establishments (with and without payroll) in retail trade and covered service industries are presented for the Commonwealth as a whole and commercial regions.
- Subject Statistics, OA87-E-2, Part 1, Establishment and Firm Size, Legal Form of Organization, and Corporate Ownership, Design provides data (similar to

value added, and capital expenditures. The tables also show payments for materials, components, and supplies; selected purchased services; rental or lease of machinery, equipment, and structures; power, fuels, and lubricants; and payments to subcontractors. The report also shows detailed information on construction receipts by type of structure, summary information by geographic location of establishments and by legal form of organization, and general statistics by employment size of establishments. A summary chapter presents totals derived from the industry and area tabulations for the Commonwealth as a whole, MSA's, PMSA's and municipios. The geographic area chapter provides data for MSA's, PMSA's, and municipios.

- Construction Industries, Manufactures, Wholesale Trade, Retail Trade, Service Industries — Virgin Islands of the United States, OA87-E-5, □ ■. This report presents statistics for the territory as a whole, the island

of St. Croix, the islands of St. John and St. Thomas combined, and the major towns, by kind of business, on the number of establishments, employment, number of working partners and proprietors, unpaid family workers, payroll, and sales or receipts. Summary statistics are presented by legal form of organization, employment size, and sales or receipts size. Detailed data are provided for hotels and motels for the islands as a whole.

- Construction Industries, Manufactures, Wholesale Trade, Retail Trade, Service Industries—Guam, OA87-E-6, □ ■. The statistics in this report, for Guam as a whole and its election districts, are the same as in the U.S. Virgin Islands report.
- Construction Industries, Manufactures, Wholesale Trade, Retail Trade, Service Industries—Northern Mariana Islands, OA87-E-7, □ ■. The statistics in this report, for the territory as a whole and its four municipalities, are the same as in the Virgin Islands report, except that there is no separate table for hotels and motels.

For more information about economic activity in outlying areas, see also—

· County Business Patterns (p. 83) for Puerto Rico

## Table From Outlying Areas Series, OA87-E-4 (Puerto Rico, Manufactures, by Industry and Geographic Area)

Table 2. Detailed Statistics by Industry Groups and Industries: 1987

(Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A)

August Sing Loon of the Augus	Men's and boys' separate trousers (SIC 2327)	Men's and boys' work clothing (SIC 2328)	Men's and boys' clothing, n.e.c. (SIC 2329)	Women's and misses' outerwear (SIC 233)	Women's and misses' blouses and waists (SIC 2331)	Women's and misses' dresses (SIC 2335)	Women's and misses' suits and coats (SIC 2337)	Women's and misses' outerwear, n.e.c. (SIC 2339)
ALL ESTABLISHMENTS	ikiy biy <sub>e</sub> a	renemal		THE CHI	I SIBELLON	M. THERE	THE EXE	E PARTY
Totalnumber	13	26	7	67	10	38	7	12
With less than 10 employeesdo	6	3	2	17	4	10	2	1
With 10 employees or moredo	7	23	5	50	6	28	5	11
Proprietors and partners, workingdo	7	state that a	(D)	7	2	4	NO SUBLISH	i-m omon
Unpaid family workersdo	ov.r. natif.	b y list	10%	-q .(edq15,	Er TO DEL	a adminis	side en 1	180xTILII (*
Average for yeardo	449	4 052	(D)	4 642	381	1 883	427	1 951
Marchdo	471	4 232	(D)	4 830	370	1 995	435	2 030
Maydo	508	4 055	(D)	4 645	391	1 828	429	1 997
Augustdo	395	3 930	(D)	4 412	376	1 718	430	1 888
Novemberdo	420	3 983	(D)	4 665	385	1 981	413	1 886
Annual payroll	2 620	29 655	(D)	34 839	2 190	13 795	3 541	15 313
First quarter payrolldo	493	6 771	(D)	7 639	572	2 840	933	3 294
Cost of materials, etcdo	5 634	85 990	(D)	48 034	2 387	22 495	1 626	21 526
Value of shipmentsdo	12 015	145 751	(D)	109 637	7 111	49 779	4 575	48 172
Value added by manufacturedo	5 664	59 648	(D)	61 735	4 755	27 080	2 924	26 976
ESTABLISHMENTS WITH 10 EMPLOYEES OR MORE	van mis an	and his	YES	AND DESCRIPTION	1 6.50	Deliver.	Stellerits	
All employees, average for yearnumber	416	4 047	(D)	4 557	363	1 833	(D)	(n)
Payroll for year, all employees\$1,000	2 460	29 630	(D)	34 403	2 111	13 534	(D)	(D)
First quarter payrolldo	448	6 764	(D)	7 545	522	2 789	(D)	(D)

#### Table From Outlying Areas Series, OA87-E-5, Virgin Island of the U.S.

#### Table 5a. General Statistics by Selected Industry Group and Kind of Business for the Islands of St. Thomas and St. John: 1987

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

1987 SIC code	Selected industry group and kind of business	Establishments (number)	Sales and receipts <sup>1</sup> (\$1,000)	Annual payroll (\$1,000)	First quarter payroll (\$1,000)	Paid employees for pay period including Mar. 12 (number)	Proprietors and partners <sup>2</sup> (number)	Unpaid family workers (number)
8. 9.	Total	1 562	863 545	104 117	25 940	10 779	880	273
-	Construction and subdividers and developers	89	66 639	13 859	3 715	1 248	36	16
15 16 17	General building contractors Heavy construction, except building Special trade contractors	35 9 45	30 660 23 074 12 905	5 374 4 758 3 727	1 428 1 307 917	525 335 388	16 2 18	10
5552	Land subdividers and developers, except cemeteries _	30	10 395	1 111	714	352	16	2
20-39	Manufacturing	28	19 762	4 000	993	325	5	
20 27	Food and kindred products Printing and publishing	6 5	6 234 3 176	1 255 1 245	310 306	86 107	ī	1
387	Watches, clocks, watchcases, and parts	_	_		31 B <u>1</u>			F '''



# **Enterprise Statistics**

#### STATISTICS ABOUT COMPANIES

The enterprise statistics program regroups data from the economic censuses for establishments under common ownership or control in order to show various economic characteristics of the owning or controlling firms. The program's primary contribution to the economic analysis of the U.S. industrial organization is in its unique ability to relate each company's data directly with its component establishment statistics. Enterprise statistics allow analysis of industrial organization in terms of the company's primary industrial activity, employment and sales size, industry concentration, and other economic characteristics, including those of the establishments they own or control. These data also support the study of historical shifts in the relative economic importance of large and small businesses, the changing patterns of diversification among large industrial firms, and similar economic characteristics by broad industry groupings.

#### **AUXILIARY ESTABLISHMENTS**

The Enterprise Statistics Program also yields separate data about auxiliary establishments. An auxiliary is an establishment whose employees are primarily engaged in supportive services for other establishments of the same company (e.g., its mines, factories, retail stores), rather than for the general public or for other business firms. Most auxiliary establishments perform administrative functions (e.g., management, accounting, purchasing) for the company, but auxiliaries also include such diverse activities as central warehouses for the company's merchandise; research, development, and testing laboratories of manufacturing firms developing new or improved products primarily with the company's own funds; and electronic data processing.

Sales branches and sales offices of manufacturing and mining companies are not classified as auxiliaries but as wholesale trade establishments. Similarly, commercial laboratories primarily engaged in research, development, and testing of products for other business firms on a fee or contract basis are classified as service establishments, not auxiliaries.

In addition to the auxiliary establishments report cited below, auxiliaries are reported separately in County Business Patterns (by sector), the census of manufactures (Geographic Area Series and *General Summary* only), and the census of construction industries (Industry Series: *Summary* only). The census of mineral industries includes auxiliaries in all counts of establishments, employment, and payroll. On the other hand, none of the data products

from the censuses of retail and wholesale trade, service industries, and transportation include auxiliary establishments, so that the auxiliary establishments report is necessary for a complete look at employment and payroll in those sectors.

#### **HOW ARE COMPANY DATA CLASSIFIED?**

The SIC system discussed in chapter 2 was designed for the classification of individual establishments. A broader, less detailed classification is more useful for companies, since many four-digit SIC's are dominated by establishments owned by companies primarily engaged in other closely related industries. The Census Bureau's Enterprise Industrial Classification (EIC) provides an intermediate level of detail tailored to company classification, with codes that include the first two digits of corresponding SIC codes, plus a letter code identifying different combinations of three- or four-digit industries within the two-digit major group. For example, new and used car dealers EIC 55A corresponds to SIC's 551 (motor vehicle dealers, new and used) and 552 (motor vehicle dealers, used only).

#### **HOW ARE THE DATA COLLECTED?**

Each multiestablishment company that had 500 or more employees was mailed a special enterprise summary report to obtain unduplicated, consolidated company totals for selected statistics. For those multiestablishment companies that had fewer than 500 employees, the sales and receipts, capital expenditures, and inventory data were derived from aggregates of the reported establishment data. Reports from single-establishment firms were used directly.

# HOW COMPARABLE ARE THESE DATA TO OTHER ECONOMIC CENSUS DATA ON COMPANIES?

Each of the separate economic censuses includes a subject report with limited data for firms. The user should recognize that those reports treat a firm as all establishments under common ownership or control within the scope of one particular census. The enterprise statistics treat the company in entirety, even including components that may be outside the scope of any economic census, for example, a company primarily engaged in retail trade but with subsidiaries in insurance or finance. Each company is counted only under its primary industry classification, although some tabulations differentiate single-industry from multi-industry companies.

#### What's New For 1987?

#### **Enterprise Statistics**

- · Coverage. The 1987 Enterprise Statistics reports cover transportation for the first time. At the same time, they no longer cover agriculture, although their 1982 counterparts did.
- State data. New company-level data are published for States, featuring the statistics for all companies operating in the State; those companies entirely within the State; and those companies also operating elsewhere (with separate data for operations inside and outside the State).
- New report titles. The report entitled General Report on Industrial Organization in previous censuses is being published as two reports for 1987: Large Companies and Company Summary. The statistics on large companies have greater detail than in 1982.

#### **How Have Enterprise Statistics Been Used?**

A soft drink bottler considered expanding into two related beverage manufacturing operations: fluid milk and alcoholic beverages. Data from the Company Summary shed light on industry specialization, employment, and company size. Figures on many expense and receipt items compared favorably to bottling industry statistics and encouraged the bottler to diversify.

A consultant in economic development found in the census of manufactures Geographic Area Series that nearly a quarter of manufacturing employment in the Detroit area was in auxiliary establishments. He turned to the Auxiliary Establishments report for a better understanding of the range of functions (administration, research and development, data processing, etc.) performed by manufacturing auxiliaries in Michigan. He used figures from that report in projecting the economic impact to the State of various cost-cutting efforts within major industries which he felt would disproportionately affect expenditures at auxiliary establishments.

A trade association used information from the Company Summary in an information packet for its convention. It examined trends toward corporate ownership, as well as financial information on inventories, assets, and expenditures.

The Small Business Administration relies on data from the Company Summary in determining size standards for small businesses.

#### REPORTS

- Large Companies, ES87-1, □ . This report presents data for companies with 500 or more employees covered by the 1987 Economic Censuses. Data include number of companies, number of employees, annual payroll, sales and receipts, beginning and end-of-year inventories, capital expenditures, assets, depreciation charges, and selected operating expenses. Data are shown by enterprise industrial classification categories at the national level. In 1982, most of these data were issued as part of the General Report on Industrial Organization.
- Auxiliary Establishments, ES87-2, □ ♥ . This report supplies information for the United States and States on separately operated central administrative offices and other auxiliary establishments (i.e., warehouses, research and development laboratories, etc.) of multiestablishment firms. State figures show the number of auxiliaries and payroll, plus the number of employees classified by the type of service performed (administration, warehousing, etc.). National figures show the same data by two- or three-digit SIC of the establishments serviced. Other
- subjects include sales or receipts, end-of-year inventories, rental payments, capital expenditures by type (structures, vehicles, computers, etc.), gross value of fixed assets, selected operating expenses, and research and development costs. The report also provides information on the enterprise industrial classification, company size, and other economic characteristics of the firms that operate these auxiliary establishments.
- . Company Summary, ES87-3, □ . This report, previously part of the General Report on Industrial Organization, offers data for the Nation as a whole and by State. by enterprise industrial classification, on employment and sales size, legal form of organization, and company/establishment cross tabulations. Data include the number of companies, number and primary industry of owned or operated establishments, number of employees, annual payroll, and sales or receipts.

For more information on companies, see also-

Quarterly Financial Report (p. 85)

## Table From Enterprise Statistics Series, ES87-2, Auxiliary Establishments

## Table 3. Employees by Type of Work Performed for States: 1987

[For meaning of abbreviations and symbols, see introductory text]

ac	# :E0	All auxiliaries			En	aployees by type o	f work performed	1.000	
Geographic area and industry division of establishment serviced	Number	Employees (number)	Annual payroli (\$1,000)	Administration (number)	Research, development, and testing (number)	Warehousing (number)	Electronic data processing (number)	Sales to customers directly from this location (number)	Other activities (number)
United States	35 986	2 569 063	70 058 572	1 569 150	239 775	267 503	133 619	157 349	201 667
Mineral industries  Construction industries  Manufacturing Wholesale trade  Retail trade  Selected service industries	1 471 391 10 026 6 219 12 867 5 012	149 226 22 961 1 232 599 279 691 712 557 172 029	5 314 962 663 016 38 069 065 7 430 357 14 412 997 4 168 175	112 001 16 640 737 133 165 109 426 835 111 432	12 333 989 196 957 13 453 2 143 11 900	879 187 48 861 47 630 164 226 5 720	9 698 1 040 71 113 15 119 23 601 13 048	1 679 889 80 496 21 922 45 340 7 023	12 636 3 201 96 039 16 458 50 412 22 906
Alabama	384	12 903	257 567	6 638	512	2 839	508	852	1 554
Mineral industries Construction industries Manufacturing	12 6 102 66	E C 4 735 1 446	(D) (D) 104 862 29 086	D C 2 070 677	B A 490 2	B A 540 558	A A 314 49	A A 531 88	C A 790 72
Retail tradeSelected service industries	136 62	5 112 784	77 494 18 884	2 648 672	-	1 670 15	112	207	475 78

#### Table From Enterprise Statistics Series, ES87-3, Company Summary

## Table 1. Company Statistics by Classification Status of Owned Establishments: 1987

[For meaning of abbreviations and symbols, see introductory text]

Code	Industry of company and classification status of owned establishments	Com- panies (number)	Owned estab- lishments (number)	Employees (number)	Annual payroll (mil. dol.)	Sales and receipts (mil. dol.)	Value added (mil. dol.)	New capital expen- ditures (mil. dol.)	End-of-year Inventories (mil. dol.)
	ALL INDUSTRIES								
	All companies.	4 256 243	5 014 025	61 660 233	913 861.7	5 362 011.0	(NA)	(NA)	(NA)
	Establishments: In same category In other categories Auxiliary and sales branch Industry specialization ratio	4 256 243 39 099 16 856 (X)	4 690 141 247 069 76 815 95.5	49 175 227 9 020 158 3 464 848 84.5	655 898.4 166 180.7 91 784.4 79.8	4 257 747.2 1 184 622.1 695 830.6 78.1	(AA) (AA) (AA) (AA)	(NA) (NA) (NA) (NA)	(AA) (AA) (AA) (AA)
	Single-Industry companies	4 217 144	4 447 303	35 516 074	422 363.5	2 551 732.3	(NA)	(NA)	(NA)
	Establishments: In same category	4 217 144 8 844		35 280 993 235 081	417 121.9 5 241.0	2 543 814.4 25 093 8	(NA) (NA)	(NA)	(NA)



# Minority- and Women-Owned Businesses

#### **DEFINITION AND SCOPE**

The 1987 Survey of Minority-Owned Business Enterprises determines the extent of business ownership by specific minority groups in the United States:

- Blacks
- Hispanics (persons of Spanish origin)
- Asian Americans
- American Indians
- Other minorities

A parallel series reports on business ownership by women.

Generally, a firm falls within the scope of these programs if the sole owner or one-half or more of the partners are women or members of minority groups. A "Subchapter S" corporation is counted if at least 50 percent of the stockholders are women or minorities. (Subchapter S businesses are corporations that elect to be taxed like partnerships, in that their income or loss is reported on the individual income tax returns of their shareholders, avoiding corporate income tax. This arrangement is most advantageous for small firms likely to have tax losses.)

These statistics do not include regular corporations because there are no uniform records for classifying their stockholders by sex or minority status. Consequently, statistics on minority- and women-owned businesses concentrate on those smaller firms that have not found it advantageous to file regular corporate tax returns.

#### HOW ARE THE DATA COLLECTED?

Under strict confidentiality standards, the Census Bureau matched business tax returns (Internal Revenue Service forms 1040-Schedule C, 1065, and 1120S) to race and sex identifiers in Social Security Administration (SSA) records to identify minority- and women-owned businesses. These sources were supplemented by a survey to locate additional Hispanic and other minority-owned businesses not well identified in SSA files. The resulting lists of minority- and women-owned businesses were matched to

census records to supply SIC code, geographic location, legal form of organization, number of employees, annual payroll, and sales or receipts.

## COMPARABILITY WITH DATA FROM THE ECONOMIC CENSUSES

Statistics on minority- and women-owned businesses are useful for studying the characteristics and distribution of those businesses. On the other hand, comparisons of their characteristics to totals from other economic census reports should be made with caution, even though the key statistics are taken directly from other economic census records.

First, by excluding regular corporations (those that file IRS form 1120), these statistics exclude the largest and most profitable firms. At the other end of the spectrum, the minority- and women-owned business data include firms without paid employees, while nonemployers are omitted from most economic census data. The censuses of retail trade, service industries and construction industries do feature separate tabulations of those nonemployers with gross business receipts of \$1,000 or more, while minority-and women-owned business tabulations include firms with receipts as low as \$500.

Second, there is some difference in industrial scope. These surveys include agricultural services; public utilities; finance, insurance, and real estate; and parts of the transportation sector that are not covered in the censuses.

Finally, the censuses report data in terms of establishments while the business tax returns on which these reports are based summarize data for firms. That difference is not as significant as it may seem, since relatively few of the firms within the scope of these surveys have more than one establishment.

Minority- and women-owned business reports for 1987 include statistics for the corresponding universe (i.e., the total number of businesses other than regular corporations, along with their employment, payroll, and receipts) for the Nation, States, and MSA's. These figures make it possible to calculate minority- or women-owned businesses as a percentage of all businesses in the same universe.

#### What's New for 1987?

#### Minority- and Women-Owned Businesses

- Changed scope. These reports exclude regular corporations, while reports from earlier surveys of minority-owned business included corporations identified as minority-owned by various private directories or other contacts. (Statistics on women-owned businesses have never included regular corporations.)
- Denominators. Comparative information for all businesses in this universe are now published for the Nation, States, and MSA's.
- Summary report. The new Summary presents data for all minorities together and identifies duplication among the minority groups.

#### Reports

- Minority-Owned Businesses—Black, MB87-1, □ ♥ ○ ■ □ ; Minority-Owned Businesses—Spanish Origin, MB87-2, □ ■ ♥ ⊙ ■ □; and Minority-Owned Businesses—Asian American, American Indian, and Other Minorities, MB87-3, II II O O II I. These three reports provide statistics for the United States, States. the District of Columbia, and those MSA's, counties, and places with 100 or more firms owned by the specified minority. National-level data present general statistics (see table 1, p. below) by two-digit industry, legal form of organization (sole proprietorships, partnerships, and small corporations), and receipt size and employment size of firm. Data for States and MSA's are confined to general statistics by nine broad economic sectors. Data for counties and places are presented without industry detail (see table 5, p. 81). Files on tape and CD-ROM include records for all MSA's, counties, and places, including those with fewer than 100 minority-owned firms.
- Minority-Owned Businesses—Summary, MB87-4, □ ■

   ⊕ □ . This new report provides totals for all minorities together and identifies the duplication among minority groups at the State level.
- Women-Owned Businesses: 1987, WB87-1, □ ② □. This report provides statistics for the United States, States, the District of Columbia, and those MSA's, counties, and places with 100 or more women-owned firms. Tables correspond directly to those in the MB87 reports. Files on tape and CD-ROM include all MSA's, counties, and places.

For more information about minorities and women, see also—

- Characteristics of Business Owners (below)
- Agriculture (p. 90) for characteristics and distribution of farms operated by minorities and women.
- Population and Housing (p. 96) for characteristics of workers and self-employed persons by race, Spanish origin, and sex.

## Table From Minority-Owned Businesses—Black, MB87-1

Table 1. Major Industry Statistics: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

	the magnitude program has been a supposed that the	All firm	ns and an area	Firms with paid employees					
SIC	Industry division, industry group, and industry	Firms (number)	Sales and receipts (\$1,000)	Firms (number)	Employees for pay period including March 12 (number)	Annual payroll (\$1,000)	Sales and receipts (\$1,000)		
	All Industries	2 884 450	98 291 513	311 662	1 354 588	11 156 389	65 347 449		
	Agricultural services, forestry, and fishing	21 344	685 728	2 843	8 998	77 475	408 226		
07 08 09	Agricultural services	16 650 3 468 735	562 030 87 757 15 200	2 487 526 35	7 960 1 561 94	67 137 11 983 909	355 269 53 064 4 024		
	Mining	301	36 651	42	323	5 384	25 908		
10 11 12 13 14	Metal mining Anthracite mining	11 10 1 257 22	553 848 1 31 214	2 (D) 34 5	(D) (D) 259 (D)	(D) (D) 4 411 (D)	(D) - (D) 22 029 (D)		

#### Table From Women-Owned Businesses, WB87-1

#### Table 5. Statistics for Counties With 100 or More Women-Owned Firms: 1987

[For meaning of abbreviations and symbols, see introductory text]

	All firms		Firms with paid employees						
Geographic area	Firms (number)	Sales and receipts (\$1,000)	Firms (number)	Sales and receipts (\$1,000)	Employees (number)	Annual payroli (\$1,000)			
ALABAMA	e Aminima in			780000	DO MARANON SO				
Autauga Baldwin Barbour Bibb Blount	270 1 009 217 100 210	7 161 34 862 9 345 4 092 8 174	35 117 37 14 35	4 267 21 422 5 865 2 573 4 858	119 457 67 44 105	7 426 2 358 579 242 531			
ButlerCalhourChambersCherokeeChilton	143 1 012 201 133 241	7 286 30 641 8 323 25 435 12 307	27 124 38 35 36	4 878 20 836 5 077 22 831 8 056	242 531 103 568 154	1 391 4 162 692 6 345 941			

#### **How Have These Statistics Been Used?**

A reporter for the Seattle Post-Intelligencer compared Asian-owned businesses with those of other races as background for an article on business and race in the area.

Federal and State agencies look to the Survey of Minority-Owned Business Enterprises to help them gauge the effectiveness of various government programs, including the development of contracting guidelines for minority businesses.



# Characteristics of **Business Owners**

#### **DEFINITION AND SCOPE**

While the minority- and women-owned business reports yield only the narrow range of data items discussed above. the Characteristics of Business Owners Survey explores demographic, social, and financial characteristics not traditionally available from economic censuses. Separate samples are included for businesses owned by Blacks, Hispanics, other minorities, women, and a comparison group of nonminority males. Responses from the questionnaires are matched to economic censuses data about the firm.

Each of the following characteristics is presented at the national level cross-tabulated by nine industry divisions. receipt size, employment size, and legal form of organiza-

- Owner characteristics: Age, marital status, educational background, veteran status, work experience, hours worked, and percent of owner's income derived from the business.
- · Acquisition and financing: Year and method by which business was acquired, whether based in the home, starting capital requirements, percent and sources of borrowed capital, and sources of equity capital.
- Business operations: Net income, percent women employees, percent minority employees, and percent minority customers.

#### COMPARABILITY

Comparability with other census figures is affected by the same factors discussed for the minority- and womenowned business reports above. The scope of the survey excluded all regular corporations and Subchapter S corporations with 10 or more shareholders, but at the same time included some businesses outside the scope of the economic censuses, such as real estate.

The sample design for 1987 allows tabulation of data for all businesses within that universe. Samples for each group within the 1982 survey were drawn independently, so that those data did not account for the overlap that occurs among the various minority categories and women. Thus, the 1982 report included no overall totals, and if a user simply added up the data for minorities, women, and nonminority men, the result was a modest overstatement of businesses in the survey universe.

#### REPORT

 Characteristics of Business Owners: 1987. series CBO87, □ ■. This report presents demographic and financial characteristics of Black, Hispanic, other minority (including Asian American and American Indian), women, and nonminority male business owners and their businesses at the national level. The primary characteristics are listed in the text above. In addition, the total number of firms and their sales or receipts are presented for each of the five groups at the State level, and by two-digit SIC at the national level.

#### Table From Characteristics of Business Owners: 1982, CBO82

## Table 4a. Educational Background of Owner by Industry Division: 1982

[All data are shown as percents, except firms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

				Own	er's highest leve	of of formal act	coling complet	led <sup>1</sup>	
	Type of firm and industry division	Firms (number)	Less than 9 years	9 to 11 years	12 years or high school equivalent	1 to 3 years of college	4 years of college	5 years or more of college	Not reported
		A	В	С	D	Е	F	G	н
1	Hispanio-owned businesses	248 141	19.0	11.4	27.3	19.5	7.2	11.7	4.0
2 3 4 5 5	Agricultural services, forestry, fishing, and mining	7 640 26 699 4 364 13 155 3 623	33.8 28.2 14.9 31.5 14.9	15.5 15.6 9.8 16.0 10.1	22.5 30.0 32.0 28.1 23.7	13.3 15.8 21.3 13.9 24.6	4.9 3.7 8.8 3.4 10.8	4.9 2.8 7.8 2.0 8.9	5.0 4.0 5.4 5.0 7.0
7 8 9 0	Retail trade	58 274 11 123 98 279 24 983	20.7 2.4 14.5 21.1	11.9 3.3 10.3 11.5	30.0 23.0 26.1 25.0	20.1 31.2 19.6 19.2	6.2 18.2 7.8 7.6	6.9 19.2 18.1 11.7	4.2 2.8 3.6 3.9



# Other **Related Statistics**



## **County Business Patterns**

#### DEFINITION AND SCOPE

County Business Patterns (CBP) presents economic data every year for States and counties nationwide and also for Puerto Rico. CBP covers nearly the entire economy, including two sectors not covered in the 5-year economic censuses-agricultural services, forestry, and fisheries; and finance, insurance, and real estate-and parts of two others-religious organizations within the service sector; and local and interurban ground transportation, air transportation, pipelines, communication, and public utilities within the transportation and public utilities sector. Coverage is spelled out in figure 3, p. 9.

The data in the CBP reports represent types of employment covered by the Federal Insurance Contributions Act (FICA) and are obtained from several different sources, including Federal administrative records, an annual company organization survey, and the economic censuses. The basic tabulations in the reports exclude establishments without paid employees, farm and domestic-service workers, railroad employment subject to the Railroad Retirement Act, employment on oceangoing vessels or in foreign countries, and government employees. (Prior to 1985, Federal civilian employment and payroll were shown.)

The printed reports show State and county figures to the extent that each industry has 50 or more employees in the given area. Computerized files include data records for all four-digit industry categories with one or more employees. The published data items include—

- Employment as of March 12
- Payroll, first-quarter and annual
- · Number of establishments in nine employment-size categories.

Auxiliary establishments are summarized in separate records within each sector (e.g., manufacturing) for each State and county, and are included in sector-level totals. Auxiliaries are also shown at the two-digit SIC level in the U.S. Summary report.

Establishment classification by SIC is updated once every 5 years, after each census. CBP reports for 1987 reflect the old SIC system (see ch. 2). Statistics for 1988 are based on the new 1987 SIC, and 1988 reports include revised 1987 totals at the State level updated to the new SIC system, serving the same function as the "bridge" tables discussed for the various censuses. (Revised 1987 data may be issued on tape and CD-ROM at the State and county level during 1990.)

Special tabulations have also been created by ZIP Code, including the number of establishments by employmentsize class, but not the employment and payroll figures provided in the regular publications. These tabulations do not reflect any editing, and invalid ZIP Codes could be present. Two-digit SIC data for metropolitan areas are also available as a special tabulation. These special tabulations are available on a cost-sharing basis through the Economic Surveys Division, Bureau of the Census.

#### USING CBP TO UPDATE CENSUS DATA

CBP data are used for many of the same applications as economic censuses data, as long as statistics on sales or receipts are not required. They are particularly useful in studying employment across sectors.

When estimates of sales or other measures of business activity are required, users frequently employ "synthetic estimation," where CBP payroll figures for the latest available year are compared with corresponding CBP figures for the preceding census year, and the resulting percent increase or decrease is applied to the available census figures for sales or shipments. Synthetic estimation should be performed with caution, however, since relationships between payroll and other variables may change over time, as in the reduction of employment in some industries due to automation or contracting out, even while production is maintained or increased. In addition, for any SIC which changed for 1987, it may be necessary to use 1987 State-level totals as published in the 1988 reports, since the county-level data in 1987 reports classified on the old SIC basis are not directly comparable with either the census data or CBP data for 1988 or subsequent years. (Revised 1987 data according to the new SIC may be issued down to the county level on tape and CD-ROM during 1990.)

#### How Have CBP Data Been Used?

United Way agencies use CBP statistics by industry in targeting their efforts at raising charitable donations through office campaigns. Payroll figures help them set goals for contributions and measure giving rates within each type of business. They also look for year-to-year changes in the number of large establishments, since they send out campaign workers to help set up the solicitations at larger businesses. This helps them allocate workers among the industries or areas to be visited.

#### Reports

• County Business Patterns, CBP-[year]-1 to -53 □ ■ ♥ ○ ■ ■ . A report for the United States, each State, the District of Columbia, and Puerto Rico. The individual State reports present State- and county-level data on the number of establishments, employees, payrolls, and the number of establishments by employment-size class. A data line is present for every SIC category with 50 or

more employees in the area. The *U.S. Summary*, CBP [year]-1, includes data by four-digit SIC level and auxiliary establishments by two-digit SIC for the United States; it also includes one-line totals for States.

Data on tape @ and CD-ROM @ are more extensive than those in print since they include all industries with one or more employees in each county.

Data on diskette include full detail for States, but only two-digit SIC summaries for counties.

#### Table From County Business Patterns, CBP-86

#### Table 2. Counties—Employees, Payroll, and Establishments by Industry: 1986

[Excludes government employees, railroad employees, self-employed persons, etc. Size class 1 to 4 includes establishments having payroll but no employees during mid-March pay period. (D) denotes figures withheld to avoid disclosing data for individual companies. For meaning of abbreviations and symbols and explanation of terms, see introductory text)

	Epipula, Versian distus, Mini-	Numb		F	ayroll (	\$1,000)			Total			Numb	er of esta	blishmen	ts by emp	loyment-	size clas	38	
SIC	Industry  VENATACI ZUZIFIEG EFFACIO	inclu	yees week iding h 12	First qu	First quarter Annual		number of establish- ments		ly/le	to 4	5 to 9	10 to	20 to 49	50 to 99	100 to 249	250 to 499	500 to 999	1,000 or more	
am ya	BARNSTABLE AND SALTER VINE MAINTENANCE OF THE SALTER VINE VINE VINE VINE VINE VINE VINE VINE	remis	e//6	el eli	960	gh-		THE	1/8	12/19	yE	B 1517	0260		SIP IN	ê.A		Brit	APPL
	muran primitata dangent nu totad	PSIEL	1311	dipen	ion.				1911			nva -							
	Total	55	165	192	179	903	876	6	987	4 4	74	1 253	666	441	95	47	6	4	1
	Agricultural services, forestry, and fisheries	PIEI	667	7112 D	950	13	436	ROI	185	1	30	34	18	fond				-	15)
07	Agricultural services	A COUNT	607	1	755	12	222	130	167	1	17	31	17	2	myete	ms-	2/12	10.00	ner-
074	Veterinary services	DESCRIPTION	107	DO TO	402	1	741	1 10	14		4	5	5	may.	00 14	3 2	1/11-	-	ignor-
078	Landscape and horticultural services	10 18	445	1	217	9	805	York	138	1	04	21	11	2	anne.		1,-	- 80	Jeet.
	Mining	Billo	51	13 103	285	1	268	rl s	6		4	JUG1	ons e	881	oris a	100-	bea	19 2	T :
	Contract construction	4	159	18	309	84	607	arti c	856	5	72	167	83	33	1,014	uni-	Be-	2112	EEXI-
15	General contractors and operative builders	1	613	7	667	33	511	5.0	332	2	26	61	30	15	besi=	1004	00-	016-	BVID
151	General building contractors	1	057	5	372	22	784	189	143	mo.	73	33	24	13	nog 2	in is	mit-		huot
153	Operative builders	200	142	MIRIC	736	3	694		25		17	4	2	2	ame.	atr4	no-	lide-	BHT



## **Quarterly Financial Report**

million or more in assets). QFR data are published by Enterprise Industrial Classification major industry groups and some subgroups. This classification is consistent with, but less detailed than the SIC.

#### DEFINITION AND SCOPE

The Quarterly Financial Report for Manufacturing, Mining, and Trade Corporations (QFR) provides current estimates of income, assets, liabilities, stockholders' equity, and related financial and operating ratios, classified by industry and asset size. This is the only Census Bureau program that collects profit and loss information.

These data are based on a national sample of about 10,500 corporations (7,900 manufacturing companies with \$250,000 or more in assets; and 350 mining, 850 retail trade, and 1,400 wholesale trade companies with \$50

#### Reports

· Quarterly Financial Report for Manufacturing, Mining, and Trade Corporations (subscription) = | | This report provides data on earnings, assets, liabilities. stockholders' equity, and selected ratios for the current and four previous quarters. Data are provided by Enterprise Industry Classification major industry groups and for some subgroups. Reports for the first three guarters of each year are scheduled to be available 75 days after the close of the quarter. Fourth-quarter reports appear 95 days after the end of the guarter.

#### Tables From Quarterly Financial Report

#### TABLE 4.0—INCOME STATEMENT FOR CORPORATIONS INCLUDED IN SIC MAJOR GROUPS 27 AND 28

Sporter	od ni asan	Printing	and Publishin	g¹	agramita
ter as a superse we will have a large of purposes.	1Q 1988	2Q 1988	3Q 1988	4Q 1988	1Q 1989
and such as and assumed to the succession made state and the second	an Amelia	(million do	ollars)		11/1/3
Net sales, receipts, and operating revenues	29,495 1,118	30,213 1,109	31,662 1,173	34,330 1,241	32,190 1,264
general, and administrative expenses	25,788	26,019	27,146	29,856	28,044
Income (or loss) from operations	2,588	3,085	3,343	3,233	2,882
Net nonoperating income (expense)	424	17	(236)	(589)	(126)
Income (or loss) before income taxes	3,012	3,102	3,108	2,643	2,756
Less: Provision for current and deferred domestic income taxes	1,033	1,166	1,082	1,093	1,096
Income (or loss) after income taxes	1,979	1,936	2,025	1,550	1,660
Cash dividends charged to retained earnings in current quarter	651	480	451	593	576
Net Income retained in business	1,328	1,457	1,574	957	1,084
Retained earnings at beginning of quarter Other direct credits (or charges) to retained earnings (net), including stock and other	34,293	34,661	36,093	37,664	38,435
noncash dividends, etc	(181)	144	(343)	(358)	(797)
Retained earnings at end of quarter	35,440	36,262	37,324	38,263	38,722

## TABLE B PROFITS PER DOLLAR OF SALES, BY DIVISION AND MAJOR GROUP

(Cents)

PARKET MARKET SEE STORY OF SELL MARKET	Inc	ome befo	re income	taxes1 2	ASSESSED A	Income after income taxes <sup>2</sup>					
Industry	1Q 1988	2Q 1988	3Q 1988	4Q 1988	1Q 1989	1Q 1988	2Q 1988	3Q 1988	4Q 1988	1Q 1989	
All manufacturing corporations	8.3	9.0	8.3	7.7	8.0	6.0	6.4	5.9	5.5	5.7	
Nondurable manufacturing corporations	9.5	9.8	9.6	9.0	9.2	6.9	6.7	6.8	6.2	6.3	
Food and kindred products	7.1	9.4	8.2	7.3	5.8	5.2	6.5	5.6	4.7	3.9	
Tobacco manufactures <sup>3</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Textile mill products	5.1	5.4	3.6	4.4	4.3	3.3	3.7	2.5	3.0	3.1	
Paper and allied products	10.6	12.0	12.6	10.2	11.0	6.8	8.1	8.1	7.1	7.3	
Printing and publishing	10.2	10.3	9.8	7.7	8.6	6.7	6.4	6.4	4.5	5.2	

#### How Have QFR Data Been Used?

- The Department of Commerce regularly uses QFR data as an important component in determining the gross national product (GNP) and national income estimates.
- The Federal Reserve Board uses the QFR to assess industrial debt structure, liquidity, and profitability.
- The Department of the Treasury estimates aggregate corporate tax liability through use of QFR data.
- The Council of Economic Advisers and congressional committees use key indicators derived from QFR data as they
  design economic policies and draft legislation.
- The Federal Trade Commission uses the series as a basic reference point in analyzing the financial performance of American industries.
- Banking institutions and financial analysts draw upon the series in making investment evaluations.



## Plant and Equipment Expenditures Survey

The Plant and Equipment Expenditures Survey is a company-based, quarterly survey which estimates actual and planned capital expenditures by business. These estimates are adjusted for systematic biases in the reported investment plans of businesses, for seasonality, and for price changes.

The survey covers all industries except farming and public administration. Data are classified generally by sector and within manufacturing by major group.

There is no formal report series. A quarterly press release  $\blacksquare$  is issued about 3 months after the end of the reference quarter. Data are also available on computer tape files  $\odot$  and printouts, including extensive time series.

#### Table From Plant and Equipment Expenditures Press Release

Table 2. New Plant and Equipment Expenditures by Business in Current Dollars
Billions of dollars; quarters seasonally adjusted at annual rates

	1987	1988	19895	88:1	88:2	88:3	88:4	89:1	89:25	89:35	89:45
All industries1	389.67	429.67	472.08	412.02	426.94	436.01	443.71	457.64	467.50	478.79	484.38
Hanufacturing	145.90	165.70	179.35	158.60	161.69	168.91	173.61	175.83	177.10	182.70	181.79
Durable goods	71.01	78.12	82.13	75.70	76.87	79.48	80.42	81.71	80.21	84.08	82.54
Primary metals2	8.71	10.98	12.06	10.38	10.59	11.81	11.14	11.19	11.12	12.59	13.32
Blast furnaces, steel works	4.69	6.16	7.09	5.52	5.98	6.75	6.40	6.24	6.50	7.56	8.07
Nonferrous metals	2.16	2.77	2.83	2.85	2.59	2.87	2.77	2.91	2.60	2.83	2.98
Fabricated metals	4.02	4.32	4.54	4.36	4.49	4.30	4.12	4.44	4.65	4.51	4.56
Electrical machinery	15.28	18.29	18.32	17.45	18.08	19.19	18.44	18.30	18.39	19.14	17.46
Machinery, except electrical	13.85	15.22	15.07	15.40	15.46	14.13	15.89	16.40	15.18	14.95	13.73
Transportation equipment2	16.62	15.36	17.48	14.77	14.77	15.84	16.06	16.67	16.60	18.09	18.55
Motor vehicles		10.61	12.21	10.03	10.08	11.16	11.16	10.41	11.60	13.05	13.80
Aircraft	3.54	3.43	3.83	3.43	3.41	3.44	3.46	4.72	3.61	3.71	3.29
Stone, clay, and glass	3.37	3.59	4.01	3.51	3.64	3.53	3.68	4.00	3.82	3.99	4.23
Other durables3		10.37	10.66	9.84	9.85	10.67	11.10	10.71	10.45	10.81	10.68



## Foreign Trade

Statistics on exports and imports are an important complement to economic census data on production. The strength of exports is widely regarded as a measure of the competitive effectiveness of industries or regions. Analysts compute "apparent consumption" of specific commodities by adding imports and subtracting exports from census figures on the products of domestic manufacturers. Businesses study patterns of exports and imports when seeking markets for their own products and services.

In concept, official U.S. merchandise trade data reflect a monthly "census" (i.e., complete count) of American export and import transactions, based on the official documents that shippers and receivers must file with the U.S. Customs Service in connection with each individual shipment. The Census Bureau receives these documents or their computerized counterparts from the Customs Service and shippers, reviews and edits them, and compiles the data into statistical reports.

These figures reflect the flow of merchandise, but not intangibles like services and financial commitments. (The 1987 Census of Service Industries does include limited information on exported services for 26 kinds of business most likely to have foreign customers [see p. 45], but these services are not included in the merchandise trade data.) The trade figures trace commodity movements out of and into U.S. Customs jurisdiction, which includes Puerto Rico and the U.S. Virgin Islands as well as the 50 States and the District of Columbia. (Data are published separately on trade between the United States and Puerto Rico, the U.S. Virgin Islands, and other U.S. possessions.)

Both import and export data exclude merchandise shipped in transit through the United States from one foreign country to another. Exports include intracompany shipments and also foreign aid, military sales, and agricultural assistance commodities; but they exclude certain shipments made by the Federal Government.

#### CONTENT

The key variables in foreign trade reports are-

- · Export value calculated free alongside ship (f.a.s.)
- Import value, presented either as customs value alone or with insurance and freight added in (c.i.f.)

- Specific commodities (classification discussed below)
- Foreign country of origin (for imports) or destination (exports)

Additional variables shown selectively include—

- SIC-based product codes (regrouped from the more detailed commodity classification)
- · Method of transportation (air, sea, or other)
- · State of origin of movement for exports
- · U.S. Customs District of export or import
- · U.S. and foreign ports for sea shipments
- Quantities shipped (units of measure vary from commodity to commodity)
- · Shipment weight for air and sea shipments

#### CLASSIFICATION

Prior to 1989, exported and imported commodities were classified according to two different systems, both based generally on the type of materials of which they were made. This is in contrast to product classifications used in the censuses of manufactures and mineral industries, which are generally organized according to the industry producing them, and which use an independent set of codes. With the implementation of the new "harmonized system" of trade classification at the beginning of 1989, export and import classifications are now based on a system also used by most other major trading countries. Further, some of the industrial (SIC) and product classifications used in the 1987 Economic Censuses were adjusted to enhance comparability with the new harmonized system.

Tabulations showing value of exports by State of origin of movement are another new feature of the trade statistics. These are an important complement to the *Exports from Manufacturing Establishments* reports (see p. 58), not only because they specify country of destination of exports (in addition to classification by two-digit SIC-based product codes), but also because the trade figures are generated much more quickly and more frequently than is possible in the censuses and annual surveys of manufactures. It should be recognized, however, that the origin of movement is the point where the commodity began its export journey, not necessarily the point where the goods were manufactured, grown, or mined. For nonmanufactured goods, such as agricultural commodities or petroleum, the origin of export movement is often the port of export.

What's New? Foreign Trade

- With the conversion to the "harmonized system" for trade classification as of January 1989, many changes were
  made to the publication program.
- Starting with 1987, quarterly statistics on State of origin of movement for exports by two-digit SIC-based commodity classification and by country of destination are available on tape.

#### SELECTED REPORTS

 Summary of U.S. Export and Import Merchandise Trade, FT-900, (order subscription from Foreign Trade Division, Bureau of the Census, Washington, D.C. 20233) . Closely watched monthly report of trade balance, value of exports and imports, with and without adjustment for seasonal variation. Report includes selected commodity groups and trading countries. Monthly and cumulative year to date. Released 6 weeks after end of reference month.

The same subscription also includes the FT-900 Supplement m . , with tables showing "State of origin of movement" for manufactured and nonmanufactured merchandise exports; and imports, exports and trade balance by SIC-based product classification and by country. Issued 8 weeks after end of reference month.

- FT-925, U.S. Merchandise Trade: Exports, General Imports, and Imports for Consumption; SITC Commodity by Country ... This report includes more detailed commodity and country classifications than FT-900 each month. (This report replaces reports FT-410 and FT-135.)
- FT-895, U.S. Trade with Puerto Rico and U.S. Pos-

More detailed or specialized data are issued on computer tape and microfiche, including-

- EM-545, Exports Data Bank ® ⊙ . Parts also in two microfiche m series. Monthly.
- IM-145, Imports Data Bank ♥. Parts also in three microfiche m series. Monthly.

An updated Guide to Foreign Trade Statistics may be published in early 1990.

#### RELATED REPORT

 Trade and Employment, TM-[qtr]-[yr], □ ■ . This quarterly report republishes import and export data classified by two- and four-digit SIC-based commodity groups in a manner designed to highlight year-to-year changes. Special tables present import and export commodity groups rank-ordered on the percent change to the current quarter from the same quarter a year ago. Complementary tables show employment at the national level for the same periods and with similar measures of change, based on data from the Bureau of Labor Statistics.

#### Tables From FT-900 Supplement: Report on U.S. Merchandise Trade

EXHIBIT 2. EXPORTS, IMPORTS AND MERCHANDISE TRADE BALANCE BY SELECTED SIC-BASED PRODUCT CODE, NOT SEASONALLY ADJUSTED: 1989

In millions of dollars. Details may not equal totals due to rounding and other statistical procedures. (-) Represents zero. (X) - Not applicable. (Z) - Less than one half unit of measurement shown.

angan ka sterik sa angan ka sa angan	Trade	balance		orts s. value)	Imports	for consumpt	ion (Cust	oms value)
Rithte Union all to June 1 and Store a		1			To	tal	Calcul	ated duty
SIC-Based Product Code Description	June	Cumulative, January to date	June	Cumulative, January to date	June	Cumulative, January to date	June	Cumulative January to date
Grand total	-8,828.5	-48,369.2	31,159.0	182,186.2	39,987.5	230,555.4	1,405.2	7,699.4
Agricultural, forestry & fishery products (Domestic)	1,007.4	6,794.5	2,010.6	13,980.3	1,003.2	7,185.8	10.9	108.0
Agricultural products, total	1,403.4 -36.6 -73.5	9,131.2 -348.8 -533.9	1,811.0 49.0 19.0	12,632.6 379.3 154.7	407.7 85.7 92.5	3,501.5 728.1 688.6	8.6 1.1 0.4	93.8 8.6 1.9
products	-285.8	-1,453.9	131.6	813.7	417.4	. 2,267.6	0.8	3.7
Mineral commodities,total(Domestic)	-3,001.2	-15,998.0	647.0	3,226.2	3,648.2	19,224.3	17.3	94.8
Metallic ores and toncentrates	-6.0	-69.8	123.9	581.0	129.9	650.7	(Z)	0.3
Bituminous, lignite and anthracite coal	403.0	2.072.7	411.5	2.114.1	8.5	41.4	(-)	(-)
Crude petroleum and natural gas	-3,409.3	-18,012.1	18.3	50.9	3,427.6	18,063.0	16.9	92.1
Normetallic minerals, except fuels	11.1	11.2	93.3	480.4	82.2	469.1	0.3	2.4
Manufactured commodities,total(Domestic)	-7,638.0	-43,178.1	26,376.2	153,294.5	34,014.4	196,472.4	1,376.9	7,493.2
Food and kindred products	-51.0	419.7	1,201.6	7,660.0	1,252.6	7,240.3	42.3	272.3
Tobacco manufactures	298.4	1,564.3	304.9	1,602.9	6.5	38.6	4.0	21.8
Textile mill products	-458.6	-1,894.0	245.2	1,376.8	703.7	3,270.8	109.0	441.7

EXHIBIT 3. ORIGIN OF MOVEMENT OF U.S. EXPORTS OF MERCHANDISE BY STATE, BY SIC-BASED PRODUCT CODE GROUPINGS, NOT SEASONALLY ADJUSTED: JUNE 1989

In millions of dollars. Foreign Trade Zone (FTZ) shipments are included in the U.S. total, and distributed among individual states and territories. Separate FTZ total line is for reference only. Details may not equal totals due to rounding and other statistical procedures.

nont of the blank Event one	nontral 2	SIC-B	DE SAL D	iw ylmani	ERIO CAROLE				
ad bis world balat shows	Manufact	ured Commodi	ties	Non-Manufa	ctured Commod	ities (1)	Total Solding		
A CLEEK INDIANA ON THE PARTY Se P. 11-10)	Current	Cumulative	to date.	Current	Cumulative t	o date.	Current	Cumulative,	
a ison e d <b>item</b> b a moi a	month	Total	Percent		Total	Percent	month	Jan to date	
U.S. Total	27,402.2	159,134.0	100.0	3,756.8	23,052.3	100.0	31,159.0	182,186.2	
(Foreign trade zone)	565.0	3,194.1	2.0	6.6	45.4	0.2	571.6	3,239.5	
AlabamaAlaska	225.4 116.5	1,218.2 523.7	0.8	33.0 65.9	243.8 374.9	1.1 1.6	258.4 182.4	1,462.0 898.6	
ArizonaArkansasCalifornia	241.1 62.8 3,187.4	1,456.0 321.1 17,874.7	0.9 0.2 11.2	23.6 5.7 295.1	165.4 20.6 1,542.4	0.7 0.1 6.7	264.7 68.5 3,482.5	1,621.4 341.7 19,417.1	

EXHIBIT 5. EXPORTS AND GENERAL IMPORTS BY COUNTRY AND AREA, NOT SEASONALLY ADJUSTED: 1989 AND 1988

In millions of dollars. Details may not equal totals due to rounding and other statistical procedures. (X) Not applicable.

and hetteridoupher endi-		balance ms imports)	Sta	Domestic and foreign exports, f.a.s. basis			Afficially	iii nollasii	Gen	eral impor	ts	S N
		Cumulative Jan. to de			Cumulati Jan. to		C	ustoms basi	s		C.i.f. basi	s
	-	Julii to u						Cumulati	ALTONOMIC STREET		Cumulati	
Country and Area			391	(augul q	wilkship	V a		Jan. to	date		Jan. to	date
same tout the se	ul southe	ustan orfo	R	ilo, sesni	101 0 201	R	model to	subjection	R	Groen or	Indian A	R
the subpolupion of the by	June	Total	a	June	Total	a n	June	Total	n	June	Total	n
che auders dese minles	to and an		k	plumevi	radigither	k		tonşamu	k	cateluc	a, bne is	k
ne notionately ban 0.0	elif no en	h gartings l	) neilb	Little (ASSE)	1989	rolto	HMC1 lude	auvironnie	er)	ים בינותר ומר עמות	paster y	
Grand Total Country:	(9,121.5)	(50,041.1)	00	31,159.0	182,186.2	00	40,280.5	232,227.3	00	41,913.0	241,757.6	CXC
Algeria	(77.7)	(642.5)		57.2	326.4	51	134.9	968.9	32	145.0	1,045.2	
Angola	(133.3)	(864.7)	18	3.9	43.4	73	137.2	908.1	33	146.3	980.5	95595
Argentina	(70.2)	(144.0)	37	67.7	530.8	38	137.9	674.8	42	153.8	747.6	40
Aruba	8.5	49.3	59	8.7	50.1	71	0.2	0.8	81	0.2	0.9	81
Australia	358.7	1,995.3	78	690.7	3,839.1	11	332.0	1,843.8	23	360.0	1,985.3	23
Austria	(33.9)	(136.9)	39	59.1	385.9	47	93.0	522.8	44	96.9	545.8	

#### How Have Foreign Trade Data Been Used?

The Federal Government uses the foreign trade data to-

- · Develop merchandise-trade figures in the balance-of-payments accounts
- Appraise and analyze major movements and trends in international trade
- Implement operations under various international agreements

Nongovernment users in industry, finance, transportation, and in research institutions use the statistics

- Appraise the general trade situation and outlook
- Conduct share-of-the-market analyses and market-penetration studies
- · Undertake product and market development
- Measure the impact of competition



## **Agriculture**

Since 1982, the census of agriculture has been conducted concurrently with the economic censuses. As a result, census on the Nation's entire food and fiber system, including agricultural production ufactures), and distribution (retail and wholesale trades). Agriculture census data also yield information about farms as markets for the output of the rest of the economy, such as farm supplies and equipment.

The agriculture census is the only source of uniform agricultural data at the county level. Data include the number and size of farms; land use and ownership; livestock, poultry, and crops; value of products sold; irrigated land; type of organization; corporate structure; operator's characteristics; machinery and equipment; fertilizer and chemical usage; energy expenditures; production expenditures; and farm program participation.

The 1987 census was conducted in the 50 States, Puerto Rico, Guam, and the U.S. Virgin Islands. Agriculture data also are being collected in American Samoa and the Northern Mariana Islands at the time of the 1990 Census of Population, for later publication in the 1987 Census of Agriculture report series.

Three surveys (i.e., 1988 Farm and Ranch Irrigation Survey, 1988 Census of Horticulture Specialties, and 1988 Agricultural Economics and Land Ownership Survey), described further under "Reports" below, are published in conjunction with the 1987 Census of Agriculture.

Most current surveys dealing with agriculture are conducted by the U.S. Department of Agriculture. Exceptions include the cotton ginnings reports listed below, and the Current Population Survey (CPS) reports on the farm population (P-27 series, see p. 100).

For statistical purposes, a farm is defined as a place from which \$1,000 or more of agricultural products were sold or normally would have been sold during the census year. This definition is compatible with the economic census definition of an establishment, except that most economic census tabulations omit nonemployers, an exclusion that would be unreasonable in a census of farms.

While the coverage of the census of agriculture corresponds to SIC major groups 01 and 02, only a few census tabulations present statistics by SIC. Agricultural services such as crop harvesting and veterinary services are not covered.

The Guide to the 1987 Census of Agriculture and Related Statistics III further describes the publication program.

#### How Have Agriculture Data Been Used?

A marketing representative sought information for a business client who manufactures livestock feed and water containers. He obtained from the Geographic Area Series data on computer tape the number of livestock per county by type, and calculated the number of cattle, sheep, and other livestock per square mile as one of the factors determining where to put a distributor.

A researcher with the Environmental Protection Agency (EPA) studied census data on the size and distribution of farms operated by tenants, as part of a study to determine whether tenant farms are more likely to cause environmental problems than are owner-operated farms.

#### REPORTS

#### 1987 Census of Agriculture

- Advance Reports, AC87-A-01(A) to -51(A) □ ♥ □ . A separate report is issued for States and each county with 10 or more farms, but the printed reports are sold only in State packages. There is also a U.S. Summary. These reports contain highlights of the final data in a convenient profile format.
- Volume 1, Geographic Area Series, State and County Data, AC87-A-1 to -56 □ @ 0 ■ . A separate report for the United States, each of the 50 States, Puerto Rico, Guam, the U.S. Virgin Islands, American Samoa, and the Northern Mariana Islands. County-level data in these reports are more detailed than in the advance reports, and include the number of farms, land in farms, land use, irrigation, crops, livestock, poultry, value of farm products sold, expenses and operator characteristics.

State-level data are much more extensive, featuring cross-tabulations by size of farm, tenure of operator, type of organization, age and principal occupation of operator, and SIC.

- Volume 2, Subject Series, AC87-S-1 to -6.
  - 1. Agricultural Atlas of the United States I illustrates the Nation's agriculture by dot and multicolor pattern maps.
  - Coverage Evaluation 

    estimates coverage (e.g., omissions, duplications) of the census from an independent enumeration for regions, and selected States or groups of States.
  - 3. Rankings of States and Counties In a shows the 20 leading States and 100 leading counties ranked for market value of agricultural products sold, production and acres of major crops, and so forth.

- 4. History in describes the planning and conduct of the census in detail and includes copies of the questionnaires.
- 5. Government Payments and Market Value of market value of agricultural products sold by Government payments received at the national level, with selected State data.
- 6. ZIP Code Tabulations 

  ⊕ ⊙ 

  □ reports the number of farms, market value of agricultural products sold, and a frequency distribution of number of farms by size by ZIP Code. These files appear on the same CD-ROM with ZIP Code data from the 1987 censuses of retail trade, service industries, and manufactures.
- Volume 3, Related Surveys, AC87-RS-1 and -2.
  - 1. 1988 Farm and Ranch Irrigation Survey □ ♥ ■ ■ supplements the basic irrigation data collected from all farm operators in the 1987 Census of Agriculture. The survey provides data on acreage irrigated, crops, method of 1987 farm-water distribution, source of water used, energy used, and irrigation practices.

- 2. 1988 Agricultural Economics and Land Ownership Survey I & provides economic and land ownership data on farm land owned and leased, land use, amount and source of debt, production contracts, taxes, assets, and off-farm income. The survey, last conducted for 1979, also includes data on landlords providing type of ownership and their characteristics.
- Volume 4, 1988 Census of Horticulture Specialties, AC87-HOR-1 □ 👽 🗷 . Conducted every 10 years, this census provides data on florist cut flowers, potted plants, florist greens, bedding plants, foliage plants, sod, and other horticultural specialties by county and State.

#### CURRENT AGRICULTURE STATISTICS

• Cotton Ginnings, A-10, A-20, and A-30 □ ■ . The A-10 reports are published biweekly for States, the A-20 monthly for counties, and the A-30 annually for States and counties on cotton ginnings during the ginning season. These data can be related to others in a Current Industrial Report for textile mill products (see p. 59) for cotton in subsequent stages of processing, and to cotton exports in annual foreign trade series.

#### Table From Agriculture Advance State Report, AC87-A

## Farms, Land in Farms, and Selected Items: 1987 and 1982

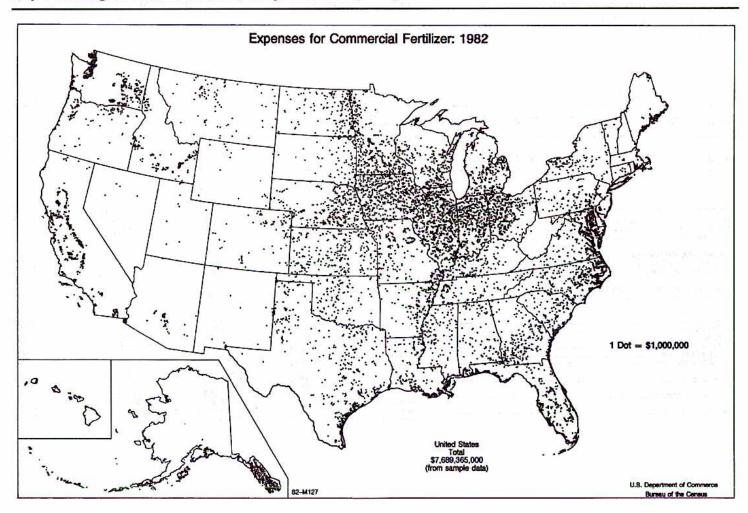
	All farms		Farms with sales of \$1	0,000 or more
ltem .	1987	1982	1987	19821
Farmsnumber Land in farmsacres Average size of farmacres	36 556	36 352	14 667	14 754
	11 194 090	12 814 216	9 358 893	10 818 508
	306	353	638	733
Value of land and buildings:2 Average per farm dollars Average per acre dollars	543 B30	552 586	1 096 096	1 130 664
	1 790	1 576	1 717	1 552
Estimated market value of all machinery and equipment <sup>2</sup> Average per farm dollars dollars	34 799	30 895	68 938	61 715
Farms by size: 1 to 9 acros	7 300	6 790	1 968	1 628
	13 346	12 981	3 919	3 556
	8 379	8 711	3 274	3 662
	4 255	4 409	2 706	2 944
	1 598	1 660	1 279	1 354
	1 678	1 801	1 521	1 610
Total cropland	29 386	30 565	12 994	13 300
	3 790 599	4 093 583	3 118 414	3 438 745
	22 677	24 396	11 859	12 267
Irrigated landacres	2 240 831	2 643 147	2 082 244	2 462 593
	11 981	10 550	7 788	6 952
	1 622 750	1 585 080	1 567 861	1 519 015

#### Table From Agriculture Volume 1, Geographic Area Series, AC87-A

Table 18. Selected Characteristics of Farms by Standard Industrial Classification: 1987

[For meaning of abbreviations and symbols, see introductory text] Value of selected capital assets<sup>1</sup>, average per farm (dollars) Market value of agricultural products sold (\$1,000) SIC code Crops, including nursery and greenhouse Livestock, poultry, and their products in farms (acres) Land and buildings Machinery and equipment Total crops Farms 1 342 588 410 891 210 777 38 325 405 484 157 828 247 656 6 269 3 380 747 291 233 463 303 505 75 034 156 081 154 811 1 270 Crops (01) ..... Cash grains (011) \_\_\_\_ Wheat (0111) \_\_\_\_ Rice (0112) \_\_\_\_ Com (0115) \_\_\_\_ 25 171 740 272 265 47 541 6 104 (D) (D) 2 520 720 254 000 85 333 Soybeans (0116) \_\_\_\_\_ Cash grains, n.e.c. (0119) \_\_\_\_\_ (D) (D) 21 911 5 673 43 884 769 61 274 032 106 131 105 349 782 475 249 177 609 292 396 98 338 1 730

#### Map From Agriculture Volume 2, Subject Series (1982)





#### Governments

Governments at all levels purchase goods and services, employ consumers, levy taxes, invest in capital equipment and construction, and in some cases even engage in manufacturing. Thus, statistics on governments help round out a picture of the economy, as well as provide key information on an important market segment for many businesses.

The Census Bureau conducts a census of governments for the same years as the economic censuses (those ending in "2" and "7") that covers all governments: Federal, State, county, municipal, township, school district, and special district. Annual and quarterly surveys cover the same principal subjects, but only for States and the larger local governments.

The coverage of the census of governments is broader than the SIC division for public administration (major groups 91 through 97), including, for instance, many activities classified in the service sector (e.g., education, health care). Figures on government employment and payroll do not generally overlap employment and payroll as counted in the economic censuses, but government expenditures include amounts for activities—from road construction to child day care—contracted out to private firms within the scope of the economic censuses. On the other hand, the economic censuses cover two economic activities of governments: State-run liquor stores in the census of retail trade and government-owned hospitals in the census of service industries.

#### How Have Governments Data Been Used?

A manufacturer of reflectorized materials for marking highways and signs uses the annual government finances data file to determine which governments are spending the most money on streets and highways. The census of governments directory file then, in effect, provides an address list for their sales prospects.

The Jet Propulsion Laboratory used government employment data to determine the market in nonmetropolitan areas for land mobile radio systems—satelliteto-ground radio links substituting for cellular telephone systems. The Compendium of Public Employment provided the numbers of certain types of workers, by county, who would be prime users for mobile systems - for example, police officers and firefighters. (Complementary statistics on private-sector employment in industries likely to be good prospects were obtained from County Business Patterns.)

#### REPORTS

- Government Organization, GC87-1-1 and -2.
  - 1. Government Organization 

    me presents detailed data on governmental units and public school systems as of the beginning of 1987 for the United States, States, and counties. The report shows

- county, municipal, and township governments by type and population size; school systems by enrollment, area served, grades provided, and number of schools operated; and special districts by services performed. A list of all local governmental units identified in the census (approximately 83,000), by name and address is available on tape .
- 2. Popularly Elected Officials 

  meta provides data for the Nation and by State on the number of officials directly elected by the voters, by type of office and by type of government. Also included is the number of officials that are directly elected by the voters in each county. The report also includes a tabular presentation of elective offices authorized by State constitutions and general laws, with information for each office on length of term, geographic area, and method of compensation.
- aggregate gross and net assessed valuations for all taxable real and personal property in the United States. It also provides numbers of locally assessed taxable real properties and related assessed values, by property use category, for over 2,000 sampled counties and large
- Government Employment, GC87-3-1 to -4.
  - 1. Employment in Major Local Governments □ ♥ provides employment, payroll, and average earnings as of October 1987 for individual county governments, municipal governments (and township governments in selected States) having 10,000 or more population within their jurisdictions, school systems having 5,000 or more enrollment, and special districts having 100 or more full-time employees.
  - Compendium of Public Employment □ ♥ contains national and State-by-State data on Federal, State, and local government employment and payroll, by function and type of government. Local government data also are presented by county area and government-size group.
  - 3. Labor-Management Relations in State and Local Governments □ ■ Treports on State and local government labor relations policies, number of organized employees, labor-management agreements, and employee bargaining units by State and type of government.
  - 4. Government Costs for Employee Benefits □ ♥ presents summary and State-by-State statistics on State and local government employer costs for major employee benefits: Social Security, retirement, disability insurance, unemployment insurance, hospital/medical insurance, uniform/equipment allowances, and employee bonuses and cash awards.
- Government Finances, GC87-4-1 to -6 □ ♥. This series presents detailed data for fiscal year 1986-1987: revenue by source and type, expenditure by function and

object, indebtedness and debt transactions, and cash and security holdings. Each part provides national and State summaries. In addition, each of the six parts presents data for individual governments or areas related to that report.

- Finances of Public School Systems includes data for systems with 5,000 or more enrollment.
- Finances of Special Districts shows data for selected large districts.
- Finances of County Governments includes each county government.
- Finances of Municipal and Township Governments displays data for municipalities and selected townships with 10,000 or more persons.
- Compendium of Government Finances includes derivative statistics and a summary of local governments in each county area.
- Employee Retirement Systems of State and Local Governments shows membership, receipts, expenditures, and assets for large individual government systems.
- Topical Studies, GC87-5 □ ■, contains four sections. The first part, "Historical Statistics on Government Finances and Employment," recapitulates data from the finance and employment parts of the 1987 and prior censuses. The second segment, "State Payments to Local Governments," describes the financial grant and reimbursement programs to local governments in each State and the amounts paid under each programs. The third, "Government Statistics for Puerto Rico," provides summary findings on the organization, employment and finances of governments in Puerto Rico. The final part, "Graphic Summary," compiles charts and maps first issued in other census reports.

#### **Annual and Quarterly Surveys**

- Government Employment, GE □ ♥ □ . (annual)
- Government Finances, GF □ ♥ □ . (annual)
- Quarterly Summary of Federal, State, and Local Tax Revenue, GT □ .

Two other reports in the governments area are of interest to some economic-data users—

- Federal Expenditures by State for Fiscal Year [year]
  □ ② . Annual reports covering, by State or territory, such items as grants to State and local governments, salaries and wages, procurement, direct payments for individuals, and certain other major programs (such as agricultural stabilization) for which figures are available geographically. Per capita and percentage distributions of expenditures by State and territory are included. The data are collected from Federal departments and agencies.
- Federal Assistance Award Data System ⊕. Quarterly data by State, county, and place on Federal domestic financial assistance programs, including grants and payments to State and local governments; direct, guaranteed, and insured loans to individuals, small businesses, and other qualified recipients; direct payments for a specified use, such as subsidies, or for unrestricted use, such as pensions or veterans' benefits (reported primarily at the county level); and insurance or other types of financial assistance. There are no publications associated with this quarterly survey. Data are available on computer tape or though special requests only.

## Table From Government Employment, GE, No.1

Table 12. Full-Time Equivalent Employment of State and Local Governments Per 10,000 Population, by Function and by States: October 1987

intle by State and type a	primer's	n' eavoi	June In		Educ	ation			APPROX.	Functions	other than ed	lucation
State		_fer ac	потен	gher education	on	Elementary	and seconda	ry education	adrito li	ollog (el	grown a	M. III
T Water officers series	All functions	Total	Total	Instruc- tional employees	Other employees	Total	Instruc- tional employees	Other employees	Other educa- tion (State)	Total	Libraries (local)	Public welfare
United States, total	491.6	242.7	56.1	19.4	36.8	182.6	126.9	55.8	3.9	248.9	3.5	17.
Alabama Alaska Artzona Arkansas California	497.0 770.3 486.0 461.6 461.2	248.5 335.7 259.3 246.9 214.8	62.4 71.4 67.5 51.1 55.7	20.9 25.0 25.1 17.0 19.2	41.5 46.4 42.4 34.0 36.5	175,4 256,4 183,6 187,9 157,6	120.6 172.8 124.7 131.3 106.8	54.8 83.6 58.9 56.6 50.8	10.7 7.9 8.1 8.0 1.6	248.5 434.6 226.7 214.7 246.3	1.7 5.2 2.7 1.3 3.8	11.9 28.9 13.3 12.7 13.8
Colorado	529.4 472.0 524.1 817.1 454.4	280.6 239.8 261.5 196.1 206.3	79.7 40.4 80.6 22.7 40.3	35.8 13.0 23.7 9.0 14.9	44.0 27.4 56.8 13.7 25.5	197.9 189.2 177.0 173.4 164.0	132.3 142.2 121.0 100.9 99.0	65.6 47.0 56.0 72.5 65.0	3.0 10.3 3.9 -	248.8 232.2 262.6 621.0 248.0	3.8 4.4 1.3 6.4 2.6	13. 15. 27. 30. 11.

#### Table From Government Finances, GF, No. 4 (City Governments)

## Table 6. Per Capita Amounts of Financial Items for Individual City and Selected Urban Town and Township Governments Having 50,000 Population or More: 1986-87

Turkensyn resultanish			Alabam	а	ds line	ensiment a	Alaska	Arizona
ltem	Birmingham	Dothan	Huntsville	Mobile	Montgomery	Tuscaloosa	Anchorage	Glendale
Revenue, total	914.40	1 222.08	1 993.72	747.27	500.46	560.94	3 142.61	741.10
General revenue	801.11 131.66 27.84 70.56 435.21 69.34 365.87 234.25	421.48 44.42 9.94 28.85 240.56 17.76 222.79 136.51	1 707.51 114.97 16.91 85.01 337.64 53.10 284.53 617.91	681.19 56.15 20.15 25.00 336.30 25.15 311.15 288.74	376.40 62.87 16.72 40.68 239.53 36.87 202.66 74.00	464.40 156.87 9.33 68.38 190.81 36.11 154.70 116.82	2 733.00 1 250.15 1 185.18 64.60 579.20 513.71 65.49 903.65	646.72 273.29 158.87 108.11 153.30 41.66 111.62 220.12
Expenditure, total	823.77	1 241.08	2 107.13	584.37	488.73	439.76	3 487.36	621.20
General expenditure, total	785.68 497.49	511.10 338.73	1 052.36 718.34	504.00 314.56	366.51 295.48	355.29 267.93	2 898.44 2 177.77	540.22 265.08

#### Table From Federal Expenditures by State For Fiscal Year 1988

#### Table 2. Federal Government Grants to State and Local Governments by Agency and for Selected Programs by State and Territory: Fiscal Year 1987

Thousands of dollars. For meaning of symbols, see text1

State and territory		Department of Agriculture											
	INTERNATION	and the		Cooperative	of vester	رقد العرابات	Farmer	rs Home Admini	stration	Jane0			
	Total	Total	Agricultural Marketing Service— cooperative projects in marketing	State Research Service – agriculture experiment stations	Extension Service – extension activities	Mutual and self-help housing	Rural community fire protection	Rural development	Rural housing for domestic farm labor	Rural water and waste disposal			
United States, total	107 962 463	10 730 955	916	268 007	303 855	5 787	2 335	10 261	8 801	157 080			
Alabama	1 559 202 623 914 623 914 1 008 653 11 005 940	229 731 23 877 23 877 140 522 989 627	15 15 -	7 486 1 042 1 042 4 984 12 272	9 969 1 116 1 116 7 238 9 324	- - 175 1 977	48 57 57 - 30	244 311	- - - 4 916	2 824 1 466 45 9 334 1 263			
Colorado	1 151 955 1 489 038 301 429 1 514 779	104 631 86 086 25 530 32 702	40 - - -	3 835 2 345 2 691 701	3 241 2 184 1 543 908	127 68 -	61 22 16	224 58 165	Loolo 108	319 314			



## **Population and Housing**

Census and surveys about population and housing provide economic census users important information about the consumer marketplace and about the labor force available to business establishments.

At the simplest level, population figures provide denominators for calculations of retail sales per capita and similar measures. More detailed figures make possible estimates of the size and distribution of the consumer market in general, as well as markets segmented by age, household composition, ethnicity, education, income, or a host of other variables.

Population data also provide important characteristics of the labor force by industry, occupation, age, sex, education, race and ethnicity, disability, and transportation to work. These statistics can help in decisions on locating new plants, as well as in preparing affirmative action plans with regard to equal employment opportunities.

Data on housing, including tenure (home ownership), age of structure, single-family homes versus multiunit structures, and value or rent reflect the market for many housing-related products or services. Characteristics of new housing reflect the output of parts of the construction industry.

#### **DECENNIAL CENSUS**

Censuses of population and housing, taken every 10 years (those ending in "0"), provide a detailed source of demographic, socioeconomic, and housing statistics for the United States. (Subjects included are shown in figure 15.) Further, the census's richness of geographic detail is unparalleled in other statistical data bases, with extensive statistics for the Nation, States, metropolitan areas, counties, county subdivisions, cities and census designated places, ZIP Code areas, census tracts, block groups, and individual city blocks. Indeed, even the geographic tools associated with collecting census data in such geographic detail have important commercial applications as well, including the TIGER (Topologically Integrated Geographical Encoding and Referencing) data base developed for the 1990 census, with its address-coding capability and computerized mapping applications.

#### CURRENT DEMOGRAPHIC PROGRAMS

Two types of current programs complement the 10-year census: population estimates and surveys. The total population of the United States is estimated monthly; the

population of States, counties, and metropolitan areas is estimated annually; and the population of places and other governmental units is estimated every 2 years—based on statistical analysis of administrative records of various Federal and State government agencies. Limited projections of future population are made at the national and State levels.

The Census Bureau's many household surveys update population and housing characteristics primarily at the national level, but sometimes also yield data for States and metropolitan areas. These surveys also obtain many characteristics not included in the 10-year censuses. The Current Population Survey is taken monthly, but most other surveys are annual or less frequent. Of great interest to marketers is the annual Consumer Expenditures Survey, the data for which are collected by the Census Bureau but published by the Bureau of Labor Statistics.

In addition to the tabulations published in printed reports, many household surveys are also released as public-use microdata files on computer tape— files of records for individual respondents that have been edited to remove identifying information, but which users can summarize with their own statistical software to examine relationships not included in the printed reports.

#### COMPARABILITY

Population census figures on employment by industry may differ from economic survey or *County Business Patterns* figures for the same year for any of the following reasons:

- While economic data on employment are geographically classified by place of work, most population census employment figures are in terms of place of residence (exception: limited statistics are reported by place of work in *Census Tracts* reports and a transportationoriented special tabulation).
- While economic censuses generally determine industry based on the product mix as reported for each establishment, household surveys must depend on the respondent to describe the kind of business in which he or she works. Some workers may lack enough knowledge of a business's range of activities to precisely identify the industry. Population census and survey classifications correspond roughly to three-digit SIC detail.
- The 1980 census industrial classifications correspond to SIC's as identified for 1972 to 1982. The 1990 census will classify industries consistent with the 1987 SIC.

#### Figure 15. Items Collected in the 1980 Census

[Asterisk (\*) denotes items dropped for the 1990 census]

#### 100-percent population items

Household relationship

Sex

Race

Age

Marital status

Hispanic origin

#### Sample population items

School enrollment

Education attainment

State or foreign country of birth

Citizenship and year of immigration

Language spoken at home and ability to speak English

Ancestry

Place of residence 5 years ago

Activity 5 years ago

Veteran status and period of service

Work disability

Public transportation disability

Children ever born

Marital history

Employment status last week

Hours worked last week

Place of work

Travel time to work

Means of transportation to work

Persons in carpool

Year last worked

Industry

Occupation

Class of worker

Weeks worked/usual hours in 1979

Weeks looking for work in 1979

Amount of income by source in 1979

#### 100-percent housing items

Number of housing units at address

Complete Plumbing facilities

Number of rooms in unit

Tenure (owner-occupied or rented)

Condominium identification

Value of home (for owner-occupied units and condo-

miniums)

Rent (for renter-occupied units)

Vacant for rent, for sale, etc., and period of vacancy

#### Sample housing items

Number of units in structure

Stories in building and presence of elevator

Year unit built

Year moved into this house

Source of water

Sewage disposal

Heating equipment

Fuels used for home heating, water heating\*, and

cooking\*

Cost of utilities and fuels

Complete kitchen facilities

Number of bedrooms

Number of bathrooms

Telephone

Air conditioning

Number of vehicles available

Homeowner shelter costs for mortgage, real estate

taxes, and hazard insurance

#### New items added for the 1990 census

Total years of military service Disability limiting mobility Disability limiting personal care Pension income

Congregate housing (meals included in rent) Second mortgage Condominium fee/mobile home fee

#### Derived items (illustrative examples)

**Families** Family type and size Family and household income Poverty status

Population density Household size Persons per room ("overcrowding") Institutions and other group quarters Farm residence

#### How Have Population and Housing Data Been **Used With Economic Data?**

The owner of a chain of automobile accessory stores compared the sales figures from the census of retail trade with population, family income, and vehicle ownership from the population and housing census for several neighboring metropolitan areas. He found that the ratio of accessory sales to family income in his own area was already well above national averages. Concluding that the local market for automobile accessory stores might already be saturated, he decided to expand into a nearby metropolitan area with a lower ratio of sales to family income instead of adding another store locally.

An entrepreneur used census data to support her loan application, as she sought financing to start a tailoring and alterations shop for women executives. She used data from the census of service industries on her line of business in conjunction with data on women in professional and managerial occupations from the population census for the neighborhood where she planned to locate.

#### REPORTS

Detail varies by series according to subject and geographic coverage; for more information, see the Census Catalog and Guide or the 1980 Census of Population and Housing: Users' Guide, PHC80-R1 mm. The Users' Guide consists of a text and several supplements, including a glossary and table-finding guides. A similar guide for 1990 is in preparation.

#### 1980 Census

State reports—Unless otherwise noted, the following reports are issued by State and include statistics for standard metropolitan statistical areas (SMSA's), counties, and places (subject to certain minimum population thresholds). Some also include data for county subdivisions, American Indian reservations, and urbanized areas. U.S. summary reports are published in each series, and in most cases there are also reports for Puerto Rico, the U.S. Virgin Islands, American Samoa, Guam, the Northern Mariana Islands, and the Trust Territory of the Pacific Islands (excluding the Northern Mariana Islands). Where report may also be retrieved from more detailed summary tape files. (See "Computerized Files" below.)

- Number of Inhabitants, PC80-1-A □ ♥. This series includes population counts with a historical perspective.
- General Population Characteristics, PC80-1-B □ ♥. This series includes 100-percent data items (see fig. 15).

- General Social and Economic Characteristics, PC80-1-C mm &. This series presents estimates for 100percent and sample characteristics (see fig. 15), including occupation, industry, and class of worker for employed persons by race and ethnicity.
- Detailed Population Characteristics, PC80-1-D □ ■. This series provides detailed cross-tabulations of subjects for States and sometimes also for SMSA's with 250,000 or more inhabitants, including employed persons by detailed occupation, industry by occupation, occupation and industry by earnings, age and education by occupation, and so forth. (Counterpart data for 1990 will be published in the Subject Report series; see below.)
- General Housing Characteristics, HC80-1-A □ ♥. This series presents data for the 100-percent housing items (see fig. 15).
- Detailed Housings Characteristics, HC80-1-B □ ♥. This series provides estimates for the 100-percent and sample housing characteristics (see fig. 15).
- Metropolitan Housing Characteristics, HC80-2 □ ■. This series presents detailed cross-tabulations of housing subjects for States and SMSA's. Data for SMSA's are published in separate reports. (No counterpart reports are planned for 1990; see Subject Report series below.)
- Summary Characteristics for Governmental Units and Standard Metropolitan Statistical Areas, PHC80-3 mm. This series presents selected 100-percent and sample population and housing data for each of some 40,000 general-purpose governments in the United States.
- Congressional Districts of the 98th Congress, PHC80-4 □ ■ ②. This series provides selected 100-percent and sample data on the characteristics of persons and housing units by congressional district.

Reports issued by SMSA—The following reports concentrate on small-area statistics:

- . Block Statistics, PHC80-1 . This series provides selected 100-percent data by census block within all urbanized areas and all other places with 10,000 or more inhabitants. Five States were entirely blocked, urban and rural areas alike. (The entire Nation will have block statistics in the 1990 census.)
- Census Tracts, PHC80-2 □ ② . This series presents 100-percent data and sample estimates for most of the 1980 population and housing subjects for census tracts (locally defined areas averaging 4,000 population) in all SMSA's and other areas in which census tracts were defined. The reports include county-or city-of-work data for workers residing in each census tract.

#### Table 178. Industry of Employed Persons for Counties: 1980—Con.

[Data are estimates based on a sample; see Introduction. For me

Counties Counties	Cleburne	Cleveland	
Employed persons 16 years and over Agriculture Forestry and fisheries Mining Construction	324 27 13	2 697 96 24 7 310	7
Manufacturing Nondurable goods Food and kindred products Textile mill and finished textile products Printing, publishing, and allied industries Chemicals and allied products Durable goods Furniture, kumber, and wood products Primary metal industries. Fabricated metal industries, including ordnance Machinery, except electrical Electrical mochinery, equipment, and supplies Transportation equipment.	539 168 144 51 11 841 191 61 385	913 292 38 126 12 - 621 397 42 18 25 104	$\left\langle \right\rangle$
Transportation, communications, and other public utilit Railroads Trucking service and warehousing Other transportation Communications Utilities and sanitary services	98 83 46	364 124 68 53 31 88	(
Wholesale trade	988	50 270 50	)

## Table 185. Occupation of Employed Persons by Race and Spanish Origin for Counties:

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see

due to bodelous sub-sucress	Croigheod							
Counties	Roce	State	1					
[400 or More of the Specified Racial or Spanish Origin Group]	Mhite	Black	Spanish origin'					
Employed persons 16 years and ever  Managerial and professional specialty occupations  Executive, administrative, and managerial occupations Officials and administrators, public administration  Management related occupations Engineers and natural scientists  Engineers Health diagnosing occupations Health assessment and treating occupations Teachers, librarians, and counselors Teachers, elementary and secondary schools	26 451 4 987 2 344 118 467 2 643 233 151 145 341 1 382 936	895 89 18 - 7 71 6 - - 11 42 26	81 12 - - 12 - - - 7 7	$\left\langle \right\rangle$				
Technical, sales, and administrative support occupations	7 369 299 225 2 937 540 803 1 594 501 3 908 93 1 141	173 30 7 22 	igospi eare- inthet- savis- etrisit h	$\left(\right)$				

#### Table From Population and Housing, PHC80-2, Census Tracts

#### Table H-7. Structural, Equipment, and Household Characteristics of Housing Units: 1980

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendixes A and B]

Census Tracts		Lincoln County		de . W =	Lincoln Co	unty	LODEL C	Warren County		
	Tracted remainder		Warren County	Tract 8101	Tract 8102	Tract 8103	Tract 8104	Tract 8201	Tract 8202	
Year-round housing units	14 551	8 518	6 033	1 264	2 165	3 149	1 840	3 898	2 135	
SELECTED CHARACTERISTICS		tura emi	nt la	rodsuny	us grifni ar	1 (Bao)	commen	anaz de		
Complete kitchen facilities	13 889 1 826 2 998 8 748 5 157	8 134 1 030 1 554 5 184 2 813	5 755 796 1 444 3 564 2 344	1 327 164 217 866 356	1 953 247 352 990 524	3 039 399 655 2 120 1 303	1 815 220 330 1 208 630	3 754 490 891 2 406 1 578	2 001 306 553 1 158 766	
companySewage disposal, public sewer	17 016 4 836	4 229 2 477	2 787 2 359	852 670	360 200	1 971 1 159	1 046 448	2 266 1 973	521 386	
UNITS IN STRUCTURE		Director (Brit	5	no aldi Bi	minus ens	atmasila n	t. Profit	10000		
1, detached or attached	11 562 209 242 223 193	6 954 110 141 44 59	4 608 99 101 179 134	1 150 18 30 9	1 861 8 8 -	2 528 41 89 30 42	1 415 43 14 5	2 812 95 45 149 102	1 796 4 56 30 32	
Mobile home or trailer etc.	2 122	1 210	912	157	288	419	346	695	217	

#### National reports

- Subject Reports, PC80-2 and HC80-3 mm. These reports provide detailed characteristics on specific subjects, such as lifetime and recent migration; living arrangements of adults and children; journey to work; characteristics of persons with a work disability; occupation by industry; and earnings by occupation and education. Housing reports include such topics as mobile homes, condominium housing, and mover households.
- Supplementary Reports, PC80-S1 and HC80-S1 □ ■. These reports are generally reprints of selected tables

- from U.S. summary or subject reports, plus a few special topics, such as gross migration for counties: 1975-1980.
- report presents estimates for the United States and its four regions on the characteristics of the changes (such as conversions to more units, mergers to fewer units, from nonresidential use, demolitions or disaster losses, etc.) that occurred in the housing inventory between 1973 and 1980.
- estimates for the United States and its four regions on

the financing of nonfarm homeowner and rental properties, as well as the characteristics of mortgages, properties, and owners.

#### Computerized files

- Summary Tape Files (STF's) ②. Virtually all of the population and housing census data published for sub-State areas also appear on computer tapes, in considerably greater detail than in the printed reports, and for small geographic areas for which no data are available in print. Most STF's are issued by State, although there also are some consolidated national files. Two of the STF's (numbers 1 and 3) are also displayed on microfiche ■. (Counterparts to STF's 1 and 3 from the 1990 census will also be issued on CD-ROM ⊙.)
- Equal Employment Opportunity (EEO) File ② . A
  tabulation of race/Spanish origin and sex for the civilian
  labor force by approximately 500 detailed occupation
  categories, also race/Spanish origin and sex by education and age, for counties and places of 50,000 or more
  inhabitants.

#### Geographic Files for the 1990 Census

TIGER/Line Files ⊕ ⊙. These geographic files produced in conjunction with the 1990 census have boundary coordinates for all census geographic areas nationwide, as well as address ranges related to each street segment in urbanized areas. These files can be used in computer mapping and to assign geographic codes to customer or other records with street addresses. Precensus files were issued in mid-1989.

#### Population—Current Statistics

Population Estimates and Projections, P-25 
 □ ■ □.
 Includes monthly estimates of the United States population; annual estimates by age and components of

change (births, deaths, and net migration); and annual estimates of State populations by age group and components of change; and population projections for the Nation and States.

- Local Population Estimates, P-26, □ ♥ . Includes—
  - Annual estimates of the population by county and metropolitan area. (Preliminary county estimates for 1987 appear in P-26, No. 87-A; revised 1987 estimates appear in P-26, No. 88-A. Estimates for 1982 and 1987 are included in economic CD-ROM Volume 1.)
  - Biennial population and per capita income estimates for States, counties, and incorporated places.
     (The reports for July 1986 population (1985 income) are published by region, with the Midwest in two volumes, in P26, No. 86 NE-SC, ENC-SC, WNC-SC, S-SC, and W-SC. Reports featuring July 1988 population and 1987 per capita income are being published in early 1990.)
- The following series are all based on the annual supplements to the monthly CPS. For more information on specific titles, see the Census Catalog and Guide.
   Public-use microdata of are also available.
  - Population Characteristics, P-20 □ .
  - Special Studies, P-23 □ .
  - Farm Population, P-27 □ .
  - Consumer Income, P-60 □ ■
- Economic Characteristics of Households in the United States, P-70 □ ■. This series is based on the Survey of Income and Program Participation, which collects highly detailed information on income, labor force activity, participation in government assistance programs, and related topics, such as assets, liabilities, health insurance coverage, child care, taxes, pensions, etc. Longitudinal public-use microdata ⊕ are available that allow the study of changes in household composition and economic well-being over a 2 1/2-year period.

#### **Housing—Current Statistics**

- - The H-150 reports are based on a national sample conducted once every 2 years. They furnish housing statistics comparable to the census plus many other items, such as indicators of housing and neighborhood quality, more detailed financial characteristics, and energy subjects. Six volumes cover different subject areas. All data are shown for the Nation and its four regions by metropolitan/nonmetropolitan and central-city residence.

- The H-170 reports are based on samples of 44 individual metropolitan areas, one fourth of which are surveyed each year on a rotating basis. Each report covers a specific metropolitan area and includes the same topics as in the H-150 reports.
- Market Absorption of Apartments, H-130 ☐ Ⅲ.
   Quarterly reports show the percentage of new rental apartments rented (absorbed) nationally and regionally 3, 6, 9, and 12 months after completion, by such characteristics as monthly rent and number of bedrooms. Similar data are available for cooperative and condominium apartments, including asking price of the condominiums.

#### Table From Current Population Reports, P-26

## Table 1. County Population Estimates: July 1, 1988, 1987, and 1986, and Components of Change, 1980-88

[A dash "-" represents zero or rounds to zero. Includes corrections to 1980 census counts. Estimates are consistent with special censuses since 1980; see text. Percents are based on 1980 census.

State and county	Es	timate as of July	1.huta-u	TH LOT	Change, 19	80-88	Components of change					
	a sistem	ing near	Welst	23/110	Data de la compa	VIII TARK	The straight of	or and	Net migra	ation		
	1988	1987 (revised)	1986 (revised)	April 1, 1980 (census)	Number	Percent	Births	Deaths	Number	Percent		
United States	245 803 000	243 416 000	241 104 000	226 542 204	19 261 000	8.5	30 528 000	16 835 000	5 568 000	2.5		
Alabama	4 103 000	4 084 000	4 051 000	3 894 025	209 000	5.4	496 000	300 000	13 000	0.3		
Autauga County Baldwin County Jarbour County Jarbour County Jount County Slount County Sullock County Juster County	35 700 96 400 25 700 16 900 38 400 11 000 22 200	35 100 94 700 25 600 16 800 38 100 10 900 22 400		32 259 78 556 24 756 15 723 36 459 10 596 21 680	3 400 17 900 900 1 100 1 900 400 500	10.7 22.8 3.7 7.3 5.2 3.4 2.5	4 100 10 800 3 400 2 000 3 700 1 700 3 100	2 100 6 500 2 200 1 400 2 600 1 100 2 100	1 400 13 600 -300 500 900 -200 -500	4.4 17.3 -1.1 3.5 2.4 -2.3 -2.3		

#### Table From American Housing Survey, H-170

## Table 2-7. Additional Indicators of Housing Quality - Occupied Units

[Numbers in thousands. ... means not applicable or sample too small. - means zero or rounds to zero.]

Characteristics	1300000	Tenure		Housing unit characteristics					Househo	old charac		Selected subareas <sup>1</sup>			
	Total occu- pied units	Owner	Renter	New construction 4 yrs	Mobile homes	Physical problems									
						Se- vere	Mod- erate	Black	His- panic	Elderty (65+)	Moved in past year	Below poverty level	Area one	Area two	Area three
Total	1 487.9	884.2	623.7	59.2	7.6	19.3	49.9	71.2	33.5	334.5	237.4	126.2	234.5	30.2	32.4
Porch, deck, balcony, or patio	1 409.5 504.5	663.4 832.5 443.0 560.8	330.0 1.1 577.0 61.5 173.0	45.1 54.4 26.6 30.5	3.9 6.3 .4 2.9	9.1 16.2 1.8 3.8	32.1 .4 46.5 10.8 18.6	39.5 62.0 7.7 22.4	20.8 .3 28.5 4.8 9.5	209.5 .3 313.6 89.1 157.4	133.5 .7 221.8 56.3 85.4	65.2 .3 111.8 14.0 37.0	125.2 216.2 35.7 89.2	13.3 .3 29.5 4.2 7.9	20.7 29.4 7.5 14.2
With 2 or more living rooms or recreation rooms, etc.  Garage or carport included with home	7.3	493.1 483.8 378.2 330.2 2.6 2.3	91.8 76.6 545.3 361.0 4.6 1.7	23.8 28.3 31.0 25.1	2.8 .8 6.8 6.8	2.2 2.6 16.7 5.2	13.4 10.7 39.3 22.7	14.6 10.8 60.0 25.9 1.3	6.1 6.4 27.1 14.9 .4	103.8 125.2 208.2 157.2 1.4 1.1	52.5 51.7 185.3 130.3 2.7 .4	17.0 20.4 105.7 63.7 .7	47.3 37.9 195.0 66.9 2.9 1.5	3.8 3.5 26.7 10.0	11.0 9.0 23.4 19.5



## Statistical Compendia

Statistical compendia republish data from a number of sources in convenient volumes. All include selected data from recent economic censuses and many related data sets produced inside and outside of the Census Bureau.

- · Statistical Abstract of the United States: [year] in selection of social, political, and economic statistics from the publications and records of government and private agencies. The 1989 edition contains over 1,500 tables and charts with data from over 200 agencies. In contrast to most census publications, the Statistical Abstract presents key tables in a time-series context, usually with data for several years for comparison. In addition, special notes link the data with those found in Historical Statistics of the United States, Colonial Times to 1970 (see below). The abstract also includes a guide to sources listing over 1,000 publications, State rankings, and a section with comparative international statistics.
- · Historical Statistics of the United States, Colonial Times to 1970 . The two-part clothbound set contains more than 12,500 statistical series on subjects ranging from population and land area to production figures for crops and manufactured products. Over 300 pages of text cover definitions of terms, development

- and reliability of the data, and reference to other sources. The original printing is exhausted, but the work has been reprinted commercially and is available from Kraus International Publications, White Plains, N.Y. (phone 800/247-8519).
- . County and City Data Book: 1988 □ ♥ ⊙ . This one-volume compendium, published every 5 years, presents social and economic data from recent censuses and from other government agencies and private sources. It provides statistics for every city with a population of 25,000 or more, as well as all counties and States, and a limited selection of population and income data for all places with 2,500 or more people. The County and City Data Book serves as a convenient compendium of small-area data from each of the economic censuses. although 1982 were the latest available at the time of this publication. The publication also features ranking tables, maps of every State, and handy appendixes.
- State and Metropolitan Area Data Book, 1986 □ ♥ . This volume presents a variety of statistical information for States, census regions and divisions, and metropolitan statistical areas (MSA's) and their component counties and central cities, from economic and other censuses and 60 other governmental and private agencies. This is the only source of selected 1982 Economic Censuses data summarized in terms of the current MSA definitions. (The 1982 censuses publications used thencurrent SMSA's). The next edition, tentatively scheduled for 1990 or 1991, will include data from the 1987 Economic Censuses.

#### Table From State and Metropolitan Area Data Book, 1986

Table A. Metropolitan Areas

## Service Industries, Banking, and Elections

PMSA = Primary MSA. Data for New England county metropolitan areas (NECMA's), not New England MSA's, are s. All areas defined as of October 12, 1984. See appendix 2 for alphabetic listing of PMSA's with parent CMSA] [MSA = Metropolitan statistical area. CMSA = Consolidated MSA. presented in this table; see appendix 3 for data for New England MSA's.

	Taxable	service	industries –	establishme	ents with pa	yroll, 1982-	-Con.	Bank de	posits, <sup>5</sup> Ju	ne 1983		Elections, 1984		
		ai)		Receipts	2 Trib	IN MI	ton Ingwi	Ten file		Savings				
			s	elected kind	ds of busine	ess (Mil. do	1.)				and loan asso-			
States, metropolitan statistical areas, and component counties	Total <sup>1</sup> (Mil. dol.)	Rank <sup>2</sup>	Hotels, motels, and other lodging places	Auto- motive repair, services, and garages <sup>3</sup>	Amuse- ment and recreation services <sup>4</sup>	Health services, except hospitals	Legal services	Total (Mil. dol.)	Percent change, 1982- 1983	savi cap Si Time <sup>6</sup> 19	ciations, savings capital, Sept. 1963 <sup>7</sup> (Mil. dol.)	Total vote cast for President	Vote for leading party (Percent)	
de la lan lan	286	287	288	289	290	291	292	293	294	295	296	297	298	
UNITED STATES	426 982.0 383 824.3 43 157.7	××	33 214.8 D D	30 694.9 D D	33 115.0 D D	95 609.7 D D	34 325.4 D D	1 600 625.5 1 299 684.6 300 940.9	10.9 11.1 10.1	1 130 128.3 896 385.1 233 743.2	644 519.5 NA NA	92 652 842 70 782 979 21 869 863	R-58.8 R-57.8 R-62.0	
ALABAMA Metropolitan areas Nonmetropolitan areas	4 338.9 3 639.1 699.9	×××	223.9 D D	406.4 334.5 71.9	145.9 D D	1 316.3 D D	293.4 251.9 41.5	16 786.3 10 965.5 5 820.8	7.9 7.9 7.7	11 246.3 7 034.9 4 211.4	5 171.4 3 941.8 1 229.6	1 441 713 917 571 524 142	R-60.5 R-61.7 R-58.5	
ANNISTON, AL MSA† (Calhoun) BIRMINGHAM, AL MSA Blount Jefferson St. Clair Shelby Walker COLUMBUS, GA-AL MSA (see data under GA)	84.4 1 582.7 10.6 1 469.9 11.7 44.2 46.4	268 44 X X X X	7.8 D D 51.4 D D D	8.6 131.0 1.1 120.2 1.1 2.7 5.9	2.8 35.6 .3 33.3 .4 .4	D 403.7 4.6 359.0 4.6 13.2 22.4	4.4 119.5 .7 113.9 .7 1.2 2.9	484.5 4 551.9 114.6 3 903.6 101.8 165.5 266.4	8.7 6.4 6.1 5.5 12.7 16.0 12.0	364.6 2 759.4 89.4 2 295.9 70.9 113.9 189.3	70.5 1 567.0 12.6 1 358.6 30.4 23.7 141.8	38 082 345 504 12 482 266 547 14 654 28 068 23 753	R-61.2 R-61.4 R-68.2 R-59.4 R-71.0 R-77.9 R-54.1	
DOTHAN, AL MSA Dale Houston	136.0 25.7 110.4	230 X X	5.4 D D	12.3 .9 11.4	D D 4.8	55.7 6.0 49.7	5.6 1.5 4.1	533.5 128.3 405.2	8.3 9.2 8.0	362.8 86.4 276.4	197.9 20.9 177.1	41 177 13 692 27 485	R-75.7 R-75.4 R-75.8	



# Acquiring and Using the Data

#### **ACQUIRING THE DATA**

#### **Primary Sales Outlets for Economic Reports**

As with other Census Bureau data products, economic census and survey reports, computer tapes, and other products are sold by mail order through the U.S. Government Printing Office (GPO) or by the Census Bureau's Customer Services unit.

#### Products sold

## Printed reports (1987 censuses plus subscriptions to most periodic reports)

Computer tapes
CD-ROM
Flexible diskettes
Microfiche
Printed reports
(1982 and earlier
censuses, if still in
print, or single copies of subscription
publications)

#### Address

Superintendent of Documents U.S. Government Printing Office Washington, DC 20402 (202) 783-3238 (7:30 a.m. to 4 p.m. e.s.t.) FAX: (202) 275-0019 Teletype: TWX 710-822-9413 ANSWERBACK USGPOWSH

Customer Services
Data User Services Division
Bureau of the Census
Washington, DC 20233
(301) 763-4100
(8:30 a.m. to 4:30 p.m. e.s.t.)
FAX: (301) 763-4794

Both GPO and the Census Bureau accept telephone orders (voice) or by facsimile transmission (FAX), but both require that such orders be charged either to a major credit card (VISA, MasterCard) or to a deposit account arranged with that agency in advance. (The Census Bureau can accept credit card orders on tapes, CD-ROM, diskettes, and fiche, but not on printed reports.) All orders must be prepaid, and purchase orders from outside the Federal Government are not accepted.

While GPO sells reports from the 1987 Economic Censuses and subscriptions to the various monthly, quarterly, and annual survey reports, GPO no longer stocks most reports from 1982 and earlier censuses, nor does it service requests for a single issue of a monthly or quarterly subscription publication. For these items, contact Census Customer Services.

Census reports for 1987 are priced somewhat higher than their 1982 counterparts, not only due to increased printing costs, but also so that reports can be sent by first-class mail instead of third or fourth class as was done in the past.

#### How to Find Out What is Available and When

Publication order forms (POF's)—.Order forms for major groups of products are distributed free of charge by Census Customer Services and may be requested by telephone (see above). The order forms supplement this Guide by listing specific titles, prices, expected release dates and, where applicable, the GPO stock numbers or subscription series identifiers. The time schedules for data release as projected in the order forms are tentative and subject to some change.

Most 1987 census products may be ordered in advance. Orders may be placed for individual reports or entire series, with the assurance that publications will be sent as soon as they are available. In fact, subscribing to an entire series of geographic area or industry reports results in significant cost savings, 15 percent or more off the sum of single copy prices.

single copy prices.

Where individual titles have been ordered in advance, GPO routinely sends confirmations of back orders every 90 days. To avoid confusion, customers should keep their own records of what they have ordered and its projected availability.

The 1987 Economic Censuses order forms present price and ordering information, with GPO order blanks for printed reports and instructions for ordering tapes, CD-ROM, and diskettes. Separate forms are issued for the following groups of census reports:

- 1987 Censuses of Retail Trade, Wholesale Trade, and Services Industries and Transportation
- 1987 Censuses of Manufactures and Mineral Industries
   Preliminary reports (for use only during 1989)
  - Final reports
- 1987 Census of Construction Industries
- Other economic census reports, including Enterprise Statistics, Minority- and Women-Owned Businesses, and Characteristics of Business Owners, and Economic Censuses of Outlying Areas

Special forms also summarize the economic census data available on computer tape, CD-ROM, and diskette as they are issued.

Order forms will be reissued if changes are made to prices or the list of publications. Anyone may request to be placed on a mailing list to receive future order forms by calling Census Customer Services or by completing the form at the end of this document.

There are also order forms available for each of the following related series:

- Current Business Reports
- Current Construction Reports
- Current Industrial Reports (CIR's)
- Annual Survey of Manufactures (ASM)
- County Business Patterns (CBP)
- Foreign Trade
- · Census of Agriculture
- Census of Governments

Census Catalog and Guide: [year] □ (1989 edition: \$21, GPO stock number 003-024-07009-0) ■ . The Catalog is a cumulative annual volume describing all Census Bureau publications, computer tapes, and other products. The 1989 volume, for example, lists all products issued from 1980 to the end of 1988, including all reports of the 1982 Economic Censuses, as well as those from all current surveys. In addition, the Catalog incorporates many lists users need for reference, such as the locations of the GPO bookstores, Census Bureau regional offices, State data centers, depository libraries, and key statistical contacts in other Federal Government agencies. The Catalog is issued in the middle of the year in the title.

Monthly Product Announcement (MPA) □. The MPA updates the Catalog by giving titles, price, and ordering information for all census reports and other products issued during a particular month. These reports are not cumulative, so it is necessary to maintain back issues at least until coverage of the most recent Catalog takes over, although cumulative listings of 1987 Economic Census reports are included from time to time. A subscription to the MPA is available free of charge from Census Customer Services.

Census and You (GPO subscription, \$12 per year; see the order form at the end of this document). This monthly newsletter, formerly entitled Data User News, describes activities, products, and services from the Census Bureau. Articles highlight important features of particular publications, discuss plans for new censuses and surveys, describe applications of the data, and spotlight statistical products from other Federal agencies.

CENDATA<sup>TM</sup>, the Census Bureau's on-line service, discussed in chapter 4, maintains a cumulative list of 1987 census products currently available, along with price and ordering information, updated on a daily basis. For current surveys and other reports, CENDATA<sup>TM</sup> lists only the reports issued within the previous 2 or 3 months, long enough so that it covers all reports issued since the closing date for the most recent issue of the MPA. For information on access fees, contact either of the two private vendors directly.

CompuServe 5000 Arlington Centre Blvd. Columbus, OH 43220 (800) 848-8199 DIALOG 3460 Hillview Avenue Palo Alto, CA 9430 (800) 334-2564

Economic census electronic bulletin board—The Census Bureau maintains an electronic bulletin board accessible to anyone with a computer and modem. While most of the bulletin board's features are oriented toward support of the State data center system, there are several "conferences" or sections of the board that are open to all census users. Like CENDATATM, the "ECON" conference on the bulletin board maintains a cumulative and frequently updated list of available 1987 Economic Censuses reports and other products. Unlike CENDATATM, the bulletin board also lists bulletins of a more technical nature, and offers the opportunity for two-way communication via a "messaging" system with Census Bureau experts. The board does not offer access to detailed data files. To access the board, call (301) 763-1568; for more information via a voice line, call (301) 763-1580.

Telephone inquiries—Customer Services, a branch of the Census Bureau's Data User Services Division, provides product price and availability information by telephone ([301] 763-4100). Customer Services offers order forms and other information not only about the computer tapes, CD-ROM's, diskettes, and microfiche sold by the Census Bureau, but also about the printed reports sold by the Government Printing Office. For reports from previous censuses no longer in stock at GPO, Customer Services can sometimes provide printed copies, and in other cases can sell microfiche or paper copy blown back from microfiche.

#### **GETTING ASSISTANCE**

#### Seminars and Workshops

Conferences, seminars, and workshops are being held across the country to introduce the 1987 Economic Censuses and to train people in their use. For information about forthcoming sessions in your area, or to request a presentation for your own group, contact the nearest Census Bureau regional office or State data center (see below). In the Washington, DC area, you may also contact—

User Training Branch
Data User Services Division
Bureau of the Census
Washington, DC 20233
(301) 763-1510

#### Census Bureau Regional Offices

The Census Bureau has regional offices in 12 cities around the country (see appendix D), and each has a substantial library of census publications for reference.

Information specialists are available to assist users in locating, understanding, and using Census Bureau products and services. They also conduct workshops on censusrelated topics and are available to make presentations to local or regional groups.

#### **Economic Subject-Matter Specialists**

While information services specialists at the 12 regional offices and at Customer Services at Census Bureau headquarters can answer general questions about available data, subject specialists at Census Bureau headquarters can provide detailed information concerning specific problems or data requirements (see appendix E).

#### State Data Centers

Under a cooperative agreement with the Census Bureau, each State maintains a State data center that redistributes census data and information about the data within the State. Each center has a network of affiliates within the State (e.g., city and regional planning agencies, local libraries, chambers of commerce, etc.) which, in turn, have basic sets of census publications and provides training in their use. These affiliates serve as statistical resource centers in their respective communities. Most State data centers can prepare, on a fee basis, printouts or other extracts of computerized economic census data tailored to meet particular needs-e.g., a floppy disk containing selected data downloaded from a CD-ROM.

A special initiative, called the Business and Industry Data Center program, is underway in a number of States, specializing in economic data and other needs of business data users.

State data centers are listed in appendix D, and a list of their local affiliates appears in the Census Catalog and Guide.

#### National Clearinghouse for Census Data Services

The clearinghouse is a list of public and private organizations offering services to data users. Some of these organizations offer quite sophisticated services, such as interrelating census data with client data or projecting future trends. Organizations in the clearinghouse are listed in the Census Catalog and Guide. More information about the clearinghouse is available by calling (301) 763-1580.

#### **Depository Libraries**

About half of the 1,400 Federal depository libraries (typically major public and university libraries) maintain substantial collections of census documents. Most collections are open to general use or can make their holdings available to smaller libraries via interlibrary loan. There are also about 130 census depository libraries. While most of these libraries maintain data only in printed reports and microfiche, an increasing number can provide limited access to data on CD-ROM. A list of the libraries is included in the Census Catalog and Guide.

The Census Bureau library maintains an extensive collection of historical census publications, available to other libraries through interlibrary loan, or for onsite reference.

Bureau of the Census Library Reference Room 2475, Federal Building 3 Suitland and Silver Hill Roads Suitland, MD (Mail: Washington, DC 20233) (301) 763-5042

#### WORKING WITH THE DATA

#### Finding the Data You Need

The charts in chapter 5 show which data items appear in what report series. Table locators found in most reports direct the user to specific tables within them, as illustrated in figure 16 below.

Figure 16. Example of "Users' Guide" in Economic Census Reports

ougherizag (CA)D, 158-	Table							B UIO		
Information shown in tables	behing 1	2	3	4	9/105	6	7	8 7 8	9	2 en 10
GEOGRAPHIC AREAS	aluborated	erra erran	del	reassir	to Siction	強力到	KDA BBI	of Isun	SELCE ME	PATE TO
The State	X	×	×				De IIIe	x	X	X
SCSA's in the State	igh mid	dans.	FEE.	X	BHIR D.S	81198 0	1910	Complete	Dis Committee	
MSA's in the State	otion and I	Marin	102	X	x	313 WITH	ATRIBUE.	mes sn	Dimen	
Counties in the State	C. march	Sign.	i description of the second	SILEN'S I	15 5 (3)	1X	1X	X <sup>2</sup> X	×	2X
DATA ITEMS				VOLUME -	cretifica	DULL BUT	and the last	nie vo v	Sale March	
All establishments:	OFFICE THE	arti bir	)	Phyla C	PE ST	9 年 17月	Y5.Illia	11927 VE	15Ubstř	
Establishments	X	X		X	X	X	X	X	AEUN Y	
Sales	×	×		×	×	X	×	×	no q est	indust servin

#### 357 COMPUTER AND OFFICE EQUIPMENT

#### 3571 Electronic Computers

Establishments primarily engaged in manufacturing electronic computers. Electronic computers are machines which: (1) store the processing program or programs and the data immediately necessary for execution of the program; (2) can be freely programmed in accordance with the requirements of the user; (3) perform arithmetical computations specified by the user; and (4) execute, without human intervention, a processing program which requires them to modify their execution by logical decision during the processing run. Included in this industry are digital computers, analog computers, and hybrid digital/analog computers. Establishments primarily engaged in manufacturing machinery or equipment which incorporate computers or a central processing unit for the purpose of performing functions such as measuring, displaying, or controlling process variables are classified based on the manufactured end product.

Computers: digital, analog, and hybrid Mainframe computers Microcomputers Minicomputers Personal computers

#### 3572 Computer Storage Devices

Establishments primarily engaged in manufacturing computer storage devices.

Auxiliary computer storage units Computer storage units Disk drives, computer Drum drives, computer Magnetic storage devices for computers Optical storage devices for computers Recorders, tape: for computers Tape storage units, computer

The following references provide additional aids in locating data for specific industrial, product, or geographic categories:

The second major section is an alphabetic index to SIC's, and includes close to 20,000 references, as illustrated in figure index entries are more detailed than the SIC itself, so it is necessary to refer to the first part of the SIC Manual to see how the category of interest relates to the SIC as defined.

The third section of interest is a series of appendixes, which define the relationships between the 1987 SIC categories and their counterparts in the 1972 SIC and its 1977 supplement.

#### Figure 18. SIC Manual Alphabetic Index

3695	Computer software tape and disks, blank:
	rigid and floppy—mfg
8243	Computer software training

7371 Computer software writers, free-lance 5961 Computer software, mail-order—retail

3572 Computer storage units—mfg

5734 Computer stores—retail

3575 Computer terminals—mfg 5045 Computer terminals—wholesale

7374 Computer time brokerage 7374 Computer time-sharing

7373 Computer-aided design (CAD) systems services

7373 Computer-aided engineering (CAE) systems services

7373 Computer-aided manufacturing (CAM) systems services

3845 Computerized axial tomography (CT/CAT scanner) apparatus—mfg

357,1 Computers: digital, analog, and hybrid—

mfg

5045 Computers—wholesale

2087 Concentrates, drink: except frozen fruit—

mfg

and the 1987 Census of Mineral Industries. The products are presented in hierarchical/numerical sequence: seven-digit products sequenced within five-digit product classes, within four-digit SIC industries. The manual also includes

#### Figure 19. SIC Manual: Relationship of 1977 to 1987 SIC Industries

(For all industries other than those listed below, 1987 SIC industries are the same as in 1977 or the changes in the industries will affect the classification of few, if any, establishments)—Con.

	1977 industry	1987 industry			
Code	Short title	Code	Short title		
3572	Typewriters	Part 3579	Office machines, nec		
	N/Cil	3571	Electronic computers		
	E 17470	3572	Computer storage devices		
B573 Electronic comp	Electronic computing eguipment	Part 3575	Computer terminals		
	Date	3577	Computer peripheral equipment		
	one volt contempt block, deservicine, unit sivil a new	Part 3695	Magnetic and optical recording media		
3574 <sup>2</sup>	Calculating and accounting machines	3578	Calculating and accounting equipment		
3576 ²	Scales and balances, exc. laboratory	3596	Scales and balances, exc.		
3579	Office machines, nec	Part 3579	Office machines, nec		

Figure 20. SIC Manual: Relationship of 1987 to 1977 SIC Industries

(For all industries other than those listed below, 1987 SIC industries are the same as in 1977 or the changes in the industries will affect the classification of few, if any, establishments)—Con.

	1987 industry	1977 industry			
3571	Electronic computers	Part 3573	Electronic computing equipment		
3572	Computer storage devices				
3575	Computer terminals	LUMBS MAN	a favori uniteranno per atrib la neces		
	Terminals	Part 3573	Electronic computing equipment		
	Teletypewriters	Part 3661	Telephone and telegraph apparatus		
3577	Computer peripheral equipment, nec	Part 3573	Electronic computing equipment		
3578 <sup>2</sup>	Calculating and accounting equipment	3574	Calculating and accounting machines		
	bayod airiopapeen (2) andfiniteb Innor	3579	Office machines, nec		
3579	Office machines, nec	A second methods	nevil utienmen e medicultar s		
		3572	Typewriters		

cross-references to reports in the Current Industrial Reports series that provide more frequent product information.

 Since this document was originally designed as a coding manual for internal Census Bureau use, it includes some information, such as check digits and form numbers, that is superfluous for outside use.

 1987 Economic Censuses Geographic Reference Manual, EC87-R-1 
 □ (\$5.50 from Census Customer Services) 
 ≡ . As discussed in chapter 3, this manual lists the names and geographic codes for every named entity recognized in the 1987 Economic Censuses: States, metropolitan statistical areas, consolidated metropolitan statistical areas, primary metropolitan statistical areas, counties and places (incorporated cities and selected

H6. RETAIL TRADE—ALPHABETIC INDEX TO MERCHANDISE LINES

Broad line code	Detail line code	ode Type of merchandise					
	A THE STATE	atri A	15-3				
380	381, 385, 387, 391	Accessories, kitchen					
640	652,658,662-63,665-66	Acrylic sheets, window					
200	213	Active sportswear, men's					
220	228	Active sportswear, women's					
370	375, 376	Adding machines					
640	652,658,662-63,665-66	Adhesives, glues					
900	965 <sup>1</sup>	Advertising, direct mail					
300	303	Air-conditioners, room, self-contained					
850	854, 879	Aircraft: include engines, accessories, and parts-new	Y				
850	855, 879	Aircraft: include engines, accessories, and parts-used					
850	879	Alarm signal systems					
140	141	Alcoholic beverages, distilled spirits: off-premises consumption					
140	142	Alcoholic beverages, wine: off-premises consumption					
140	143	Alcoholic beverages, beer and ale: off-premises consumption					
130	अवस्य सम्बद्धाः ।	Alcoholic drinks, served at this establishment					
140	143	Ale, off-premises consumption					
380	381, 385, 387, 391	Aluminumware, kitchen					
640	644,652,662-63,665-66	Aluminum windows, doors, and screens					
500	507, 516-518	Ammunition and firearms					
330	331, 334	Amplifiers, audio and household					
500	507, 516-518	Animal traps					
320	321	Antennas, television: include satellite dishes					
740	742, 743, 754	Antifreeze, automobile					
850	857, 879	Antiques, include furniture					
460	463	Antiquing kits, wood					
300	301-303	Appliances, household					

towns and townships in the Northeast). The manual does not include ZIP Codes since there are no separate names for them.

For the user of data on computer tape or CD-ROM, knowing what codes represent what areas can be handy in making simple searches on those media. At the same time, data files on computer tape include geographic names, and on CD-ROM and diskette, separate name files are always present, so using the manual is a convenience rather than a necessity. Even for the user of printed reports, the manual may be of some use in presenting a comprehensive list of all geographic areas recognized for census purposes.

#### Comparability Issues

The fact that census data can be compared over time, with most series available back to the early 1950's and some much further, is one of the most important features of the economic censuses. Census reports for 1987 include only a few comparisons to 1982 and earlier census statistics, so it is largely up to the user to find corresponding figures in the earlier reports. As noted in chapter 4, while most are out of print, all reports from the 1967 to 1982 censuses can still be purchased on microfiche or as paper prints reproduced from the microfiche from Census Customer Services. Access to 1982 and earlier reports in

printed form is available only through certain major libraries. Computer tapes can be purchased with major files from each census starting with 1972. CD-ROM's from the 1987 Economic Censuses include selected files with historical data from 1982 and 1977.

Making comparisons between 1987 and 1982 data involves working with four areas of potential comparability problems: (1) industry and product coding, (2) establishment definition, (3) geographic boundaries, and (4) changes in the value of the dollar.

SIC Comparability. As discussed in chapter 2, many of the SIC categories changed between 1982 and 1987, the first major change since 1972.

Three sources give three different levels of detail about the SIC changes. At the simplest level, appendix A in this guide denotes with a special symbol (#) all SIC's which were changed in definition for 1987. To get any idea of what changed, the user needs to refer to the SIC Manual. Figures 19 and 20 illustrate that the SIC Manual shows what industry parts were split, combined, or readjusted and where components went or came from. Still, the manual gives little idea of the relative impact of the changes, except that the old SIC codes were changed and not reused in most cases where the change was significant (expected to affect 20 percent or more of the old classifications).

To provide more precise information, certain key 1987 census reports present "bridge" tables (i.e., bridging between the old and new classifications) for affected industries. These bridge tables show 1987 data classified according to the 1972-1982 SIC system, with subdivisions as necessary to clarify which components went to which new industries. This allows direct comparison with 1982 data in the 1982 census reports. The reclassification of 1987 data is possible because the 1987 data were collected and coded with that objective in mind. At the same time, it is not generally possible to recode 1982 data to fit the 1987 classifications; in many cases this would require information that was not collected in 1982.

These bridge tables give specific information on the impact of the changes in the classification system. One could determine, for instance, what percentage of an old industry was moved to a new one. For the most part, however, the bridging information is not available for detailed geography.

The specific bridge tables and their contents are listed below, and most are illustrated in chapter 5.

- Census of Retail Trade, Geographic Area Series, table 3.
- · Census of Wholesale Trade, Geographic Area Series,
- · Census of Service Industries, Geographic Area Series, tables 3a and 3b.

Data in the above bridge tables are presented at the State and national levels. The 1987 data are classified according to the old SIC system, and 1982 numbers are included where possible.

- Census of Manufactures, Industry Series, tables 1c.1 and 1c.2.
- Census of Mineral Industries, Industry Series, tables 1b.1 and 1b.2.

Data in these bridge tables are shown at the national level only, grouped by both old and new classifications.

 Census of Construction Industries, Industry Series; table is in the introductory text of the affected reports.

> Data in this table are at the national level only, grouped by both the old and new SIC classifica-

Not all Census Bureau programs have changed to the new definitions at the same time. County Business Patterns reports will present data according to the 1987 SIC's starting with reports for 1988. Reports for retail trade, wholesale trade, and service industries based on sample surveys retain the old SIC codes in effect when the samples were drawn. Thus, reports from the Assets and Expenditures Survey (see pp. 29, 35, and 45) published in

the census subject report series and all Current Business Reports (see pp. 30, 37, and 45) will continue to use the old SIC codes until the samples are redrawn prior to the 1992 censuses.

Change in Establishment Definition. For all of the 1987 Economic Censuses, an establishment is counted if it was in business at any time during calendar year 1987.

For 1982 and earlier censuses, the censuses of retail trade, wholesale trade, and service industries included in establishment counts only those locations that were still in business at the end of the calendar year. On the other hand, sales and payroll figures included data for all establishments in business at any time during the year, including some that had gone out of business or were sold to someone else during the year. The establishment counts were broadened for 1987 for comparability with data from other censuses and County Business Patterns.

Establishment counts for 1982 and 1987 as presented in bridge tables in 1987 reports are comparable, since 1982 data were retabulated for that purpose using the new establishment definition. On the other hand, comparisons of 1987 data with 1982 data as originally published in reports or on computer tape may show a spurious increase in establishment counts due to the broader definition in 1987. This difference tends to be greater for kinds of business that have a high rate of failure or change of ownership, such as restaurants.

Geographic Area Series reports for each of the affected censuses feature a special appendix (appendix G) that serves to bridge between the different establishment definitions in the same way that the bridge tables discussed above interrelate the old and new SIC categories. The appendix shows the number of establishments for 1987 and 1982 by kind of business at the State level for both the old and new definitions: establishments in business any time during the year (current definition) and establishments in business at the end of the year (previous definition).

Geographic Comparability. Statistics for counties and places in reports of the 1987 Economic Censuses refer to their boundaries as of January 1, 1987. The reference date for MSA's was June 30, 1987. Data from the publications of earlier censuses have corresponding reference dates at the beginning or middle of the nominal year. While the definitions of States have not changed and county changes have been very few in recent years, many MSA's, places, and ZIP Codes have changed during the 1982-to-1987 and prior intervals. Users should take these changes into account in making any comparisons between censuses.

Metropolitan statistical areas (MSA's)-As noted in chapter 3, the terminology for metropolitan areas changed between 1982 and 1987, from standard metropolitan statistical areas (SMSA's) and standard consolidated statistical areas (SCSA's) to MSA's, consolidated metropolitan statistical areas (CMSA's), and primary

metropolitan statistical areas (PMSA's). Nonetheless, for two thirds of all metropolitan areas, the boundaries remained the same, so data in 1982 and 1987 reports are comparable.

For the remaining third, denoted with an asterisk (\*) in appendix B, some boundary change was made after 1982, or the MSA came into being after 1982. Most frequently, the boundary changes involved the addition of one or more whole counties, although some MSA's lost counties during the interval. Definition changes for MSA's in New England involved the addition or deletion of individuals cities and towns rather than whole counties.

To determine which areas were added to or deleted from MSA's between 1982 and 1987, the user may compare the lists of components as shown in appendixes in the 1982 and 1987 Geographic Area Series reports. The 1987 Economic Censuses Geographic Reference Manual shows both 1987 MSA and 1982 SMSA codes for counties in 1987 MSA's, but that reference does not show which counties may have been dropped from 1982 SMSA's. The county reference file included on the economic census CD-ROM volume 1 is more complete, since it has both 1982 SMSA and 1987 MSA codes for each county.

In many cases, the user can add or subtract the appropriate county-level data from 1982 SMSA summaries or add 1982 county-level summaries to match the 1987 MSA boundaries. That is not always possible, however, since some detailed county-level data are suppressed to avoid disclosure of confidential company information. Also, MSA's in New England are defined in terms of towns and cities, rather than whole counties, and data may not be available for towns transferred into or out of an MSA between 1982 and 1987.

The SMSA boundaries in effect for the 1982 censuses had remained unchanged since the 1977 and 1972 censuses, except for the creation of a number of new SMSA's during the period.

Only one census report, the retail trade Special Series report, presents 1982 data alongside 1987 data for MSA's in terms of 1987 boundaries.

Counties-There were only two changes in county definitions between 1982 and 1987: (1) the subdivision of Yuma County, AZ, into La Paz County and Yuma County, (2) and the incorporation of the Northwest Arctic Borough in Alaska, replacing Kobuk census area, which covered essentially the same area.

Places—The lists of incorporated places reported in the 1987 and 1982 censuses are essentially the same because they both include places which had a 1980 census population of 2,500 or more. The few additions for 1987 primarily represent new incorporations. Roughly half of the covered incorporated places changed boundaries between the 1982 and 1987 censuses, generally through the annexation of relatively small parcels of land.

ZIP Codes—ZIP Codes are designated for the administrative convenience of the U.S. Postal Service, and they change boundaries whenever the Postal Service finds it expedient. Many of the changes are easily handled, as in the subdivision of one ZIP Code area into two. There have also been wholesale changes, however, as in the redefinitions of ZIP Codes across much of Florida.

Private vendors of ZIP Code maps may be able to assist in determining which ZIP Codes are not comparable between 1982 and 1987.

Adjusting for Changes in the Value of the Dollar-Statistics in economic censuses reports are presented in current dollars. Most measures of dollar volume of economic activity show increases between 1982 and 1987 simply because of inflation during the intervening years. How, then, should the user subtract the impact of inflation to obtain a true measure of the change in activity? There are several possible answers, but they are not uniformly satisfactory for different applications.

The most commonly used measure of inflation is the consumer price index (CPI), measured monthly and annually by the Bureau of Labor Statistics (BLS). By that measure, across all goods sold at retail, 1987 dollars could be adjusted backward to 1982 dollars by reducing them by 15 percent. (To "inflate" 1982 dollars to 1987 dollars, add 17.6 percent.) Separate indexes are available for a number of different types of consumer goods. For example, during the 1982-to-1987 interval, the consumer price index for medical care rose over 40 percent while the index for energy costs dropped 8 percent.

Another alternative is to use one of the price indexes created for the deflation of goods and services for the gross national product (GNP), as published monthly by the Bureau of Economic Analysis (BEA) in the Survey of Current Business.

More detailed figures are also available for the study of specific industries. The BLS publishes the producer price index (PPI) for individual commodities. The BEA constructs weighted averages of the PPI at the two-, three-, and four-digit SIC levels, usable for deflating manufacturing and wholesaling activity in general and retailers' inventories. (The CPI is more appropriate for deflating retail sales.)

More information is contained in publications of the BLS's Monthly Labor Review and Consumer Price Index Detailed Report and the BEA's Survey of Current Busi-

The Census Bureau publishes some of the basic material used to develop these indexes. The 1982 Indexes of Production report is being published as an informal "working paper". (Contact Industry Division, Bureau of the Census, Washington, DC 20233, phone [301] 763-1503.) The 1987 report will be published in the Analytical Report series (see p. 58). These reports are primarily of methodological interest, however, since their findings become available only well after the census reference year.

#### OTHER REFERENCES

Introduction to the Economic Censuses, EC87-R-4 □ (free from Customer Services). This concise brochure. an update of A Preview to the 1987 Economic Censuses, presents the most basic facts on the coverage, subject matter, and timing of 1987 Economic Censuses reports and computerized products. The brochure has several useful reference charts.

Videotape: An Introduction to the 1987 Economic Census (\$10 from Customer Services). This 17-minute VHS videotape provides a quick overview of the economic censuses and related statistics. It is especially useful in staff training and college classrooms.

Guide to Service Industry Statistics and Related Data (free from Customer Services). This booklet describes the data available about the service sector of the economy, and much of its content is similar to that of the present document. Its unique contribution is its discussion of secondary service activities of establishments classified outside of the "service industries" division of the SIC, and the data about those activities that may be available in other economic census reports. For example, a table shows that it is possible to find information not only about establishments primarily engaged in car washing (SIC 7542) in the census of service industries, but also about car washing as a secondary activity of gasoline stations in a retail trade subject report. A bibliography is included.

History of the 1982 Economic Censuses □ = (\$19, GPO stock number 003-02406243-7). This report documents the procedures employed in collecting the 1982 censuses, from planning through publication. Appendixes include facsimiles of key questionnaires. The 1987 volume will likely be published in 1992.

1982 Economic Censuses and Census of Governments: Evaluation Studies III (\$6 from Census Customer Services) . This report documents the 1982 censuses programs to evaluate reporting errors, coverage errors, errors due to nonresponse, errors due to the use of administrative data in lieu of reported data, and errors committed in the geographic assignment of establishments to local areas. One of the objectives of these studies was to help users interpret census and survey estimates by providing information on their limitations. A corresponding report of evaluation studies conducted in connection with the 1987 census may be published in 1991 or 1992.

Government Information Quarterly, Volume 4, Number 3 (1987). A special issue of this commercially published periodical featured a "Symposium on the Economic Censuses," including the following articles:

- · "U.S. Economic Censuses, 1810 to the Present," by Frederick G. Bohme
- · "Uses of Economic Census Data," by Gaylord Worden
- · "Determining the Content of the Economic Censuses," by John R. Wikoff and Pamela Powell-Hill
- "Conducting the Economic Censuses," by Lawrence A. Blum, James E. Bowman, and John M. Sullivan
- "Making Economic Census Data Available," by Paul T. Zeisset
- "Economic Censuses Around the World," by Michael J. Hartz, James M. Ray, and Linda A. Schlueter

Factfinder for the Nation III (single copies free from Census Customer Services). This series of brochures, updated irregularly, provides brief descriptions of different census program areas. The brochures on economic topics are less detailed than this guide. Some Factfinders bring together information from a number of census areas. especially numbers 4, 5, 8, 18, and 22.

- 1. Statistics on Race and Ethnicity
- 2. Availability of Census Records About Individuals
- 3. Agricultural Statistics
- 4. History and Organization
- 5. Reference Sources
- 6. Housing Statistics
- 7. Population Statistics
- 8. Census Geography-Concepts and Products
- 9. Construction Statistics
- 10. Retail Trade Statistics
- Wholesale Trade Statistics
- 12. Statistics on Service Industries
- Transportation Statistics
- 14. Foreign Trade Statistics
- 15. Statistics on Manufactures
- 16. Statistics on Mineral Industries
- 17. Statistics on Governments
- 18. Census Bureau Programs and Products
- 19. Enterprise Statistics
- 20. Energy and Conservation
- 21. International Programs
- 22. Data for Small Communities

Economic Data Product Primer, No. 13, "County Business Patterns", and No. 14, "Census of Retail Trade". (\$1 each from Customer Services.) These brochures were prepared primarily for college-level instructors, but may also be used for self-study. They contain student exercises, lecture outlines, and background information.

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## APPENDIX A. Standard Industrial Classification (SIC) Short Titles

[†—Denotes SIC's not covered in the 1987 Economic Censuses, and this presentation excludes detail below the two-digit level. #—Denotes SIC's which changed for 1987. \*—Denotes change in number only. See the SIC Manual for the nature of the change. Four-digit SIC's are omitted where they are the same as corresponding three-digit SIC's; the fourth digit is "1" except where noted]

A	AGRICULTURE, FORESTRY,	В	MINING—Con.	D	MANUFACTURING
	AND FISHING		The second second second	23	Allower space and an army be
		4.474	ar one beam and bowlets.	20	Food and Kindred Products
2007	THE STREET STREET STREET	1474	Potash, soda, and borate minerals	201	Meat Products
01	Agricultural Production—	1475	Phosphate rock	2011	Meat packing plants
	Crops †	1479#	Chemical and fertilizer mining,	2013	Sausages and other prepared
02	Agricultural Production—	4.40	n.e.c.	2015 "	meats
	Live stock †	148	Nonmetallic Minerals Services	2015#	Poultry slaughtering and processing
07	Agricultural Services †	149#	Miscellaneous Nonmetallic Minerals	202	Dairy Products
08	Forestry †		(1499)	2021	Creamery butter
09	Fishing, Hunting, and			2022	Cheese, natural and processed
	Trapping †			2023	Dry, condensed, evaporated
	territorio de la compania del compania de la compania del compania de la compania del la compania de la compania del la compania de la compan				products
	The second of th	_	CONCEDUCTION	2024	Ice cream and frozen desserts
В	MINING	С	CONSTRUCTION	2026	Fluid milk
		-	AMERICAN CONTRACTOR OF THE PROPERTY OF THE PRO	203#	Preserved Fruits and Vegetables
				2032#	Canned specialties
22	TOTAL TOTAL CONTRACTOR OF THE PARTY OF THE P			2033	Canned fruits and vegetables
10	Metal Mining	15	General Building Contractors	2034#	Dehydrated fruits, vegetables,
101	Iron Ores	152	Residential Building Construction		soups
102	Copper Ores	1521	Single-family housing construction	2035	Pickles, sauces, and salad
103	Lead and Zinc Ores	1522	Residential construction, n.e.c.		dressings
104	Gold and Silver Ores	153	Operative Builders	2037	Frozen fruits and vegetables
1041	Gold ores	154	Nonresidential Building Construc-	2038#	Frozen specialties, n.e.c.
1044	Silver ores		tion bloomshoel	204	Grain Mill Products
106	Ferroalloy Ores, Except Vanadium	1541	Industrial buildings and warehouses	2041	Flour and other grain mill products
108	Metal Mining Services	1542	Nonresidential construction, n.e.c.	2043	Cereal breakfast foods
109#	Miscellaneous Metal Ores			2044	Rice milling
1094	Uranium-radium-vanadium ores			2045	Prepared flour mixes and doughs
1099#	Metal ores, n.e.c.	16#	Heavy Construction, Ex. Building	2046	Wet corn milling
		161#	Highway and Street Construction	2047#	Dog and cat food
12	Coal Mining	162#	Heavy Construction, Except	2048#	
122	Bituminous Coal and Lignite		Highway	205#	Bakery Products
	Mining	1622	Bridge, tunnel, and elevated	2051	Bread, cake, and related products
1221#	Bituminous coal and lignite—		highway	2052	Cookies and crackers
	surface	1623	Water, sewer, and utility lines	2053#	
1222#		1629#	Heavy construction, n.e.c.	22272	bread was a street of the street
123#	Anthracite Mining		MATERIAL MARKETON LAST	206#	Sugar and Confectionery Products
124#	Coal Mining Services			2061	Raw cane sugar
10	Oil and Can Extraction	17#	Special Trade Contractors	2062	Cane sugar refining
13 131	Oil and Gas Extraction	171	Plumbing, Heating, Air-Conditioning	2063	Beet sugar
	Crude Petroleum and Natural Gas	172	Painting and Paper Hanging	2064#	
132	Natural Gas Liquids	173	Electrical Work	2222	products
138	Oil and Gas Field Services	174	Masonry, Stonework, and	2066#	Chocolate and cocoa products
1381	Drilling oil and gas wells	1 388 &	Plastering	2067	Chewing gum
1382	Oil and gas exploration services	1741	Masonry and other stonework	2068#	
1389	Oil and gas field services, n.e.c.	1742	Plastering, drywall, and insulation	207	Fats and Oils
14	Nonmetallic Minerals, Except	1743	Terrazzo, tile, marble, mosaic work	2074	Cottonseed oil mills
2.7	Fuels	175	Carpentry and Floor Work	2075	Soybean oil mills
141	Dimension Stone	1751	Carpentry work	2076	Vegetable oil mills, n.e.c.
142	Crushed and Broken Stone	1752	Floor laying and floor work, n.e.c.	2077	Animal and marine fats and oils
1422	Crushed and broken limestone	176	Roofing, Siding, and Sheet Metal	2079	Edible fats and oils, n.e.c.
1423	Crushed and broken granite	III	Work	208	Beverages
1429	Crushed and broken stone, n.e.c.	177#	Concrete Work	2082	Malt beverages
144	Sand and Gravel	178	Water Well Drilling	2083	Malt
1442	Construction sand and gravel	179	Misc. Special Trade Contractors	2084	Wines, brandy, and brandy spirits
1446	Industrial sand	1791	Structural steel erection	2085	Distilled and blended liquors
145	Clay, Ceramic, and Refractory Min-	1793	Glass and glazing work	2086	Bottled and canned soft drinks
140	erals	1794	Excavation work	2087	Flavoring extracts and syrups,
					n.e.c.
1455	Kaolin and hall clay	1795	Wrecking and demolition work	32500000000	
1455 1459#	Kaolin and ball clay Clay and related minerals, n.e.c.	1795 1796	Wrecking and demolition work Installing building equipment, n.e.c.	209# 2091#	Misc. Food and Kindred Products

D	MANUFACTURING—Con.	D	MANUFACTURING—Con.	D	MANUFACTURING—Con.
2092	Fresh or frozen prepared fish	2386	Leather and sheep-lined clothing	2674#	Bags: uncoated paper and multiwal
2095	Roasted coffee	2387	Apparel belts	2675*	Die-cut paper and board
2096#		2389	Apparel and accessories, n.e.c.	2676*	Sanitary paper products
2097 2098	Manufactured ice Macaroni and spaghetti	239 2391	Misc. Fabricated Textile Products	2677* 2678*	Envelopes
2099#		2392	Curtains and draperies Housefurnishings, n.e.c.	2679#	Stationery products Converted paper products, n.e.c.
	VI. SURVEY BUTCH SURFERED TO THE CONTROL OF THE CON	2393	Textile bags		Converted paper products, n.e.c.
21	Tobacco Products	2394	Canvas and related products	27	Printing and Publishing
211 212	Cigarettes	2395	Pleating and stitching	271	Newspapers
213	Cigars Chewing and Smoking Tobacco	2396	Automotive and apparel trimmings	272 273	Periodicals Books
214	Tobacco Stemming and Redrying	2397 2399	Schiffli machine embroideries Fabricated textile products, n.e.c.	2731 2732	Book publishing Book printing
22 221	Textile Mill Products	24#	Lumber and Wood Products	274	Miscellaneous Publishing
222	Broadwoven Fabric Mills, Cotton Broadwoven Fabric Mills, Manmade	241#	Logging	275#	Commercial Printing
23	Broadwoven Fabric Mills, Wool	242#	Sawmills and Planing Mills	2752	Commercial printing, lithographic
224	Narrow Fabric Mills	2421 # 2426	Sawmills and planing mills, general Hardwood dimension and flooring	2754# 2759#	
25#	Knitting Mills	2420	mills	276	Manifold Business Forms
2251	Women's hosiery, except socks	2429	Special product sawmills, n.e.c.	277	Greeting Cards
2252 2253	Hosiery, n.e.c.	243#	Millwork, Plywood & Structural	2771	Greeting cards
2253	Knit outerwear mills Knit underwear mills	0404.//	Members	2782	Blankbooks and looseleaf binders
2257	Weft knit fabric mills	2431 # 2434	Millwork Wood kitchen cabinets	2789	Bookbinding and related work
2258#	Lace and warp knit fabric mills	2434	Wood kitchen cabinets Hardwood veneer and plywood	279# 2791	Printing Trade Services Typesetting
2259	Knitting mills, n.e.c.	2436	Softwood veneer and plywood	2796#	Platemaking services
226	Textile Finishing, Except Wool	2439	Structural wood members, n.e.c.		Visited to a Vibration Calcino to
2261	Finishing plants, cotton	244	Wood Containers	28	Chemicals and Allied Products
2262 2269	Finishing plants, manmade Finishing plants, n.e.c.	2441	Nailed wood boxes and shook	281#	Industrial Inorganic Chemicals
227#	Carpets and Rugs	2448	Wood pallets and skids	2812 2813	Alkalies and chlorine Industrial gases
228	Yarn and Thread Mills	2449 245	Wood containers, n.e.c. Wood Buildings and Mobile Homes	2816	Inorganic pigments
2281#	Yarn spinning mills	2451	Mobile homes	2819#	Industrial inorganic chemicals,
2282#	Throwing and winding mills	2452	Prefabricated wood buildings	MARIE ATRIONS	n.e.c.
2284#		249#	Miscellaneous Wood Products	282	Plastics Materials and Synthetics
229# 2295	Miscellaneous Textile Goods	2491	Wood preserving	2821	Plastics materials and resins
2296	Coated fabrics, not rubberized Tire cord and fabrics	2493#	Reconstituted wood products	2822 2823	Synthetic rubber Cellulosic manmade fibers
2297	Nonwoven fabrics	2499#	Wood products, n.e.c.	2824	Organic fibers, noncellulosic
2298	Cordage and twine	25	Furniture and Fixtures	283	Drugs
2299#	Textile goods, n.e.c.	251	Household Furniture	2833	Medicinals and botanicals
23	Apparel and Other Textile Prod-	2511	Wood household furniture	2834	Pharmaceutical preparations
	ucts	2512 2514	Upholstered household furniture Metal household furniture	2835# 2836#	Diagnostic substances
231	Men's and Boys' Suits and Coats	2515	Mattresses and bedsprings	284	Biological products exc. diagnostic Soap, Cleaners, and Toilet Goods
232	Men's and Boys' Furnishings	2517	Wood TV and radio cabinets	2841	Soap and other detergents
2321#		2519	Household furniture, n.e.c.	2842	Polishes and sanitation goods
2322#	Men's and boys' underwear and nightwear	252#	Office Furniture	2843	Surface active agents
2323	Men's and boys' neckwear	2521 2522#	Wood office furniture	2844	Toilet preparations
2325#		253	Office furniture, except wood Public Building and Related	285 286#	Paints and Allied Products Industrial Organic Chemicals
1161	slacks	200	Furniture	2861	Gum and wood chemicals
2326#	Men's and boys' work clothing	2531	Public building and related furniture	2865	Cyclic crudes and intermediates
2329 233	Men's and boys' clothing, n.e.c. Women's and Misses' Outerwear	254#	Partitions and Fixtures	2869#	Industrial organic chemicals, n.e.c.
2331	Women's and misses' blouses and	2541	Wood partitions and fixtures	287	Agricultural Chemicals
.551	shirts	2542#	Partitions and fixtures, except wood Miscellaneous Furniture and Fix-	2873	Nitrogenous fertilizers
2335	Women's, junior's, and misses'	259#	tures	2874 2875	Phosphatic fertilizers Fertilizers, mixing only
	dresses	2591	Drapery hardware and blinds and	2879	Agricultural chemicals, n.e.c.
2337	Women's and misses' suits and		shades white the same and the s	289	Miscellaneous Chemical Products
2339	women's and misses' outerwear,	2599#	Furniture and fixtures, n.e.c.	2891	Adhesives and sealants
.505	n.e.c.	26#	Paper and Allied Products	2892	Explosives
234	Women's and Children's Undergar-	261#	Pulp Mills	2893	Printing ink
	ments	262#	Paper Mills	2895 2899	Carbon black
2341	Women's and children's underwear	263#	Paperboard Mills	2033	Chemical preparations, n.e.c.
342 35#	Bras, girdles, and allied garments	265	Paperboard Containers and Boxes	29	Petroleum and Coal Products
36	Hats, Caps, and Millinery (2353) Girls' and Children's Outerwear	2652 2653	Setup paperboard boxes	291	Petroleum Refining
361	Girls' and children's dresses,	2655	Corrugated and solid fiber boxes Fiber cans, drums and similar	295	Asphalt Paving and Roofing Materials
000 #	blouses		products	2951	Asphalt paving mixtures and blocks
369#	Girls' and children's outerwear, n.e.c.	2656#	Sanitary food containers	2952	Asphalt felts and coatings
37	Fur Goods	2657# 267#	Folding paperboard boxes	299	Misc. Petroleum and Coal Products
38	Miscellaneous Apparel and Acces-	267# 2671#	Misc. Converted Paper Products Paper coated and laminated, pack-	2992	Lubricating oils and greases
	sories	2011#	aging	2999	Petroleum and coal products, n.e.c.
381	Fabric dress and work gloves	2672#	Paper coated and laminated, n.e.c.	30#	Rubber and Misc. Plastics
2384	Robes and dressing gowns	2673#	Bags: plastics, laminated, and		Products
2385	Waterproof outerwear		coated	301	Tires and Inner Tubes

D	MANUFACTURING—Con.	D	MANUFACTURING—Con.	D	MANUFACTURING—Con.
302	Rubber and Plastics Footwear	33	Primary Metal Industries/	3471	Plating and polishing
305#	Hose and Belting and Gaskets and Packing	331	Blast Furnace and Basic Steel Products	3479 348	Metal coating and allied services Ordnance and Accessories, N.E.C.
3052*	Rubber and plastics hose and	3312	Blast furnaces and steel mills	3482	Small arms ammunition
	belting	3313	Electrometallurgical products	3483	Ammunition, exc. for small arms,
053*	Gaskets, packing and sealing	3315	Steel wire and related products	0404	n.e.c.
06#	devices Fabricated Rubber Products, N.E.C.	3316 3317	Cold finishing of steel shapes Steel pipe and tubes	3484 3489	Small arms Ordnance and accessories, n.e.c.
061#		332	Iron and Steel Foundries	349#	Misc. Fabricated Metal Products
069#	Fabricated rubber products, n.e.c.	3321	Gray and ductile iron foundries	3491#	Industrial valves
08#	Miscellaneous Plastics Products,	3322	Malleable iron foundries	3492#	Fluid power valves and hose
081#	N.E.C. Unsupported plastics film and	3324 3325	Steel investment foundries Steel foundries, n.e.c.	3493	fittings Steel springs, except wire
001#	sheet	333	Primary Nonferrous Metals	3494#	Valves and pipe fittings, n.e.c.
082#	Unsupported plastics profile shapes	3331	Primary copper	3495	Wire springs
083#		3334	Primary aluminum	3496	Misc. fabricated wire products
084#	Plastics pipe Plastics bottles	3339#		3497 3498	Metal foil and leaf
086#		334 335	Secondary Nonferrous Metals Nonferrous Rolling and Drawing	3499	Fabricated pipe and fittings Fabricated metal products, n.e.c.
087#		3351	Copper rolling and drawing		
	resins in uch a caldos	3353	Aluminum sheet, plate, and foil	35#	Industrial Machinery and Equip-
	Plastics plumbing fixtures	3354	Aluminum extruded products	351	ment Engines and Turbines
089#	Plastics products, n.e.c.	3355	Aluminum rolling and drawing,	3511	Turbines and turbine generator se
		3356	n.e.c. Nonferrous rolling and drawing,	3519	Internal combustion engines, n.e.o
1000	Leather and Leather Products	3330	n.e.c.	352	Farm and Garden Machinery
11	Leather Tanning and Finishing	3357	Nonferrous wiredrawing and	3523	Farm machinery and equipment
13	Footwear Cut Stock	enva	insulating	3524 353	Lawn and garden equipment Construction and Related
14	Footwear, Except Rubber	336	Nonferrous Foundries (Castings)	333	Machinery
142 143	House slippers Men's footwear, except athletic	3363# 3364#		3531#	Construction machinery
144	Women's footwear, except athletic	3304#	aluminum	3532	Mining machinery
149	Footwear, except rubber, n.e.c.	3365#	1 (47) 1 (47) 1 (47) 1 (47) 1 (47)	3533	Oil and gas field machinery
15	Leather Gloves and Mittens	3366#		3534	Elevators and moving stairways
16	Luggage	3369#		3535	Conveyors and conveying equipment
161	Luggage	339	Miscellaneous Primary Metal Products	3536#	Hoists, cranes, and monorails
17	Handbags and Personal Leather Goods	3398	Metal heat treating	3537#	Industrial trucks and tractors
171	Women's handbags and purses	3399	Primary metal products, n.e.c.	354#	Metalworking Machinery
172	Personal leather goods, n.e.c.		and plum it doubt in fact and faire and faire	3541 3542	Machine tools, metal cutting types Machine tools, metal forming type
19	Leather Goods, N.E.C. (3199)			3543*	Industrial patterns
		34#	Fabricated Metal Products	3544	Special dies, tools, jigs and fixture
32#	Stone, Clay, and Glass Products	341	Metal Cans and Shipping	3545	Machine tool accessories
21	Flat Glass	2000000	Containers	3546	Power-driven handtools
322	Glass and Glassware, Pressed or	3411	Metal cans	3547 3548#	Rolling mill machinery Welding apparatus
	Blown	3412 342#	Metal barrels, drums, and pails Cutlery, Handtools, and Hardware	3549#	Metalworking machinery, n.e.c.
3221	Glass containers	3421	Cutlery	355#	Special Industry Machinery
3229 323	Pressed and blown glass, n.e.c. Products of Purchased Glass	3423#	Hand and edge tools, n.e.c.	3552	Textile machinery
324	Cement, Hydraulic	3425	Saw blades and handsaws	3553	Woodworking machinery
25	Structural Clay Products	3429	Hardware, n.e.c.	3554 3555#	Paper industries machinery
3251	Brick and structural clay tile	343#	Plumbing and Heating, Except Electric	3556#	
253	Ceramic wall and floor tile	3431	Metal sanitary ware	3559#	
255 259	Clay refractories Structural clay products, n.e.c.	3432#		356#	General Industrial Machinery
26#	Pottery and Related Products	3433#		3561#	
261	Vitreous plumbing fixtures	344#	Fabricated Structural Metal	3562	Ball and roller bearings
3262	Vitreous china table and kitchen-	3441	Products Fabricated structural metal	3563 3564	Air and gas compressors Blowers and fans
	ware	3442#		3565#	
263 264#	Semivitreous table and kitchenware	3443	Fabricated plate work (boiler	3566#	
269 269	Porcelain electrical supplies Pottery products, n.e.c.	Recollections.	shops)	3567#	
27	Concrete, Gypsum, and Plaster	3444#		3568	Power transmission equipment,
	Products	3446 3448	Architectural metal work Prefabricated metal buildings	3569#	n.e.c. General industrial machinery, n.e.
271	Concrete block and brick	3449#		357#	Computer and Office Equipment
272	Concrete products, n.e.c.	345	Screw Machine Products, Bolts,	3571#	
3273 3274	Ready-mixed concrete Lime		Etc.	3572#	Computer storage devices
3275	Gypsum products	3451	Screw machine products	3575#	
328	Cut Stone and Stone Products	3452	Bolts, nuts, rivets, and washers	3577#	[한 1시 사용 전 1일 1일 (10 10 시간 10 기업 10 10 10 10 10 10 10 10 10 10 10 10 10
329	Misc. Nonmetallic Mineral Products	346 <i>#</i> 3462	Metal Forgings and Stampings Iron and steel forgings	3578*	n.e.c. Calculating and accounting
3291	Abrasive products	3463	Nonferrous forgings	3070	equipment
3292	Asbestos products Minerals, ground or treated	3465	Automotive stampings	3579#	Office machines, n.e.c.
3295 3296	Minerals, ground or treated Mineral wool	3466	Crowns and closures	358#	Refrigeration and Service
3297	Nonclay refractories	3469#	Metal stampings, n.e.c. Metal Services, N.E.C.	3581	Machinery Automatic vending machines
		347		345047	AUTOMATIC VENDING MACRINAS

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D	MANUFACTURING—Con.	D	MANUFACTURING—Con.	E	TRANSPORTATION AND PUBLIC UTILITIES
3582	Commercial laundry equipment	3715	Truck trailers	11 <u></u>	
3585#	Refrigeration and heating equip- ment	3716	Motor homes	3991	Brooms and brushes
3586	Measuring and dispensing pumps	372 <i>#</i> 3721	Aircraft and Parts Aircraft	3993	Signs and advertising specialities
3589	Service industry machinery, n.e.c.	3724	Aircraft engines and engine parts	3995	Burial caskets
359#	Industrial Machinery, N.E.C.	3728#	Aircraft parts and equipment, n.e.c.	3996	Hard surface floor coverings, n.e.c.
3592	Carburetors, pistons, rings, valves	373	Ship and Boat Building and Repair-	3999#	Manufacturing industries, n.e.c.
3593#	Fluid power cylinders and actuators	0,0	ing		
3594#		3731	Ship building and repairing	40	Railroad Transportation †
3596*	Scales and balances, exc. labora-	3732	Boat building and repairing		
	tory	374	Railroad Equipment (3743)	41	Local & Interurban Passenger
3599#	Industrial machinery, n.e.c.	375	Motorcycles, Bicycles, and Parts		Transit †
20.4		376	Guided Missiles, Space Vehicles,	999	na anti antief la armonguent la 1966
36#	Electronic and Other Electric		Parts	42	Trucking and Warehousing
361#	Equipment Electric Distribution Equipment	3761	Guided missiles and space vehicles	421	Trucking and Courier Services, Ex.
3612	Transformers, except electronic	3764	Space propulsion units and parts	4212#	Air
3613#	Switchgear and switchboard appa-	3769	Space vehicle equipment, n.e.c.	4212#	Local trucking, without storage Trucking, except local
SEC. 3.7.11	ratus	379	Miscellaneous Transportation	4214	Local trucking with storage
362#	Electrical Industrial Apparatus	2702	Equipment	4215#	Courier services, except by air
3621	Motors and generators	3792	Travel trailers and campers	422	Public Warehousing and Storage
3624	Carbon and graphite products	3795 3799	Tanks and tank components Transportation equipment, n.e.c.	4221	Farm product warehousing and
3625#	Relays and industrial controls	3199	тапаропалоп ефирмент, п.е.с.		storage
3629	Electrical industrial apparatus,	38#	Instruments and Related	4222	Refrigerated warehousing and stor-
	n.e.c.		Products	.,	age
363#	Household Appliances	381#	Search and Navigation Equipment	4225	General warehousing and storage
3631	Household cooking equipment	200000	(3812)	4226#	Special warehousing and storage,
3632	Household refrigerators and	382#	Measuring and Controlling Devices		n.e.c.
ocoo	freezers	3821#	Laboratory apparatus and furniture	423	Trucking Terminal Facilities
3633 3634	Household laundry equipment Electric housewares and fans	3822	Environmental controls		
3635	Household vacuum cleaners	3823 3824	Process control instruments	43	U.S. Postal Service †
3639#		3825	Fluid meters and counting devices		Spring - Supplied (V) - Hill
364#	Electric Lighting and Wiring Equip-	3826#	Instruments to measure electricity	44	Water Transportation
00411	ment clothe Lighting and Willing Equip-	3827#	Analytical instruments Optical instruments and lenses	441#	Deep Sea Foreign Transportation
3641#	Electric lamps	3829#	Measuring & controlling devices,		of Freight (4412)
3643	Current-carrying wiring devices	OOLO #	n.e.c.	442#	Deep Sea Domestic Transportation
3644	Noncurrent-carrying wiring devices	384#	Medical Instruments and Supplies		of Freight (4424)
3645	Residential lighting fixtures	3841	Surgical and medical instruments	443#	Freight Trans. on the Great Lakes
3646	Commercial lighting fixtures	3842	Surgical appliances and supplies	444.11	(4432)
3647	Vehicular lighting equipment	3843	Dental equipment and supplies	444#	Water Transportation of Freight,
3648	Lighting equipment, n.e.c.	3844#	X-ray apparatus and tubes	448#	n.e.c. (4449) Water Transportation of
365	Household Audio and Video Equip-	3845#	Electromedical equipment	440#	Passengers
	ment	385	Ophthalmic Goods	4481#	
3651	Household audio and video equip-	3851	Ophthalmic goods	11011	ferry
OCEO	ment	386	Photographic Equipment and Sup-	4482#	Ferries
3652 366#	Prerecorded records and tapes Communication Equipment	0004	plies	4489#	Water passenger transportation,
	Telephone and telegraph apparatus	3861	Photographic equipment and sup-		n.e.c.
3663#	Radio and TV communications	387	plies	449#	Water Transportation Services
0000 #	equipment	307	Watches, Clocks, Watchcases and Parts	4491*	Marine cargo handling
3669#			raits	4492*	Towing and tugboat service
367#	Electronic Components and Acces-	22	Park Country of the C	4493#	Marinas
	sories	39	Miscellaneous Manufacturing	4499#	Water transportation services,
3671#	Electron tubes	201	Industries		n.e.c.
3672#		391	Jewelry, Silverware, and Plated Ware	AE	Transportation by Air 4
3674	Semiconductors and related	3911	Jewelry, precious metal	45	Transportation by Air †
0075	devices	3914	Silverware and plated ware	46	Pipelines, Except Natural Gas †
3675	Electronic capacitors	3915	Jewelers' materials and lapidary	40	ripellies, Except Natural Gas T
3676	Electronic resistors	2.7.1.7	work	47	Transportation Services
3677	Electronic coils and transformers	393	Musical Instruments	472#	Passenger Transportation Arrange-
3678	Electronic connectors	3931	Musical instruments	SE 1985 1984 1	ment
3679# 369#	Electronic components, n.e.c. Misc. Electrical Equipment and	394	Toys and Sporting Goods	4724#	Travel agencies
303 #F	Supplies	3942	Dolls and stuffed toys	4725#	Tour operators
3691	Storage batteries	3944	Games, toys, and children's	4729#	Passenger transport arrangement,
3692	Primary batteries, dry and wet	00.45	vehicles	470 #	n.e.c.
3694	Engine electrical equipment	3949	Sporting and athletic goods, n.e.c.	473#	Freight Transportation Arrangement
3695#	Magnetic and optical recording	395	Pens, Pencils, Office, and Art Sup-	474# 478	Rental of Railroad Cars
	media	2054	plies	4/0	Miscellaneous Transportation Ser- vices
3699#	Electrical equipment & supplies,	3951 3952	Pens and mechanical pencils	4783	Packing and crating
	n.e.c.	3952	Lead pencils and art goods Marking devices	4785#	Inspection and fixed facilities
27.4	Transportation Faultan	3955	Carbon paper and inked ribbons	4789	Transportation services, n.e.c.
<b>37</b> # 371	Transportation Equipment	396#	Costume Jewelry and Notions		The state of the s
	Motor Vehicles and Equipment Motor vehicles and car bodies	3961	Costume jewelry	48	Communication †
2711				22.5%	LANDEDICATION T
3711				40	Communication
3711 3713 3714	Truck and bus bodies Motor vehicle parts and	3965#	Fasteners, buttons, needles, and pins	49#	Electric, Gas, and Sanitary

F #					
	WHOLESALE TRADE	F #	WHOLESALE TRADE—Con.	G #	RETAIL TRADE—Con.
50#	Wholesale Trade—Durable	5139	Footwear	559#	Automotive Dealers, N.E.C. (5599)
	Goods	514 5141	Groceries and Related Products Groceries, general line	56	Appaarel and Accessdory Stores
501#	Motor Vehicles, Parts, and Supplies	5142	Packaged frozen foodseb	561	Men's and Boys' Clothing Stores
5012	Automobiles and other motor	5143	Dairy products, exc. dried or	562	Women's Clothing Stores
	vehicles		canned	563#	Women's Accessory and Specialty
5013#	[2] [1] [1] [1] [1] [1] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2	5144	Poultry and poultry products		Stores (5632)
	parts	5145	Confectionery	564	Children's and Infants' Wear Stores
5014	Tires and tubes	5146	Fish and seafoods	565	Family Clothing Stores
5015#		5147	Meats and meat products	566	Shoe Stores
502 5021	Furniture and Homefurnishings Furniture	5148	Fresh fruits and vegetables	569	Misc. Apparel & Accessory Stores
5023	Homefurnishings	5149	Groceries and related products,		(5699)
503	Lumber and Construction Materials		n.e.c.	57	Furniture and Homefurnishings
5031	Lumber, plywood, and millwork	515	Farm-Product Raw Materials	٥,	Stores
5032#		5153	Grain and field beans	571	Furniture and Homefurnishings
5033#	Roofing, siding, and insulation	5154	Livestock Farm-product raw materials, n.e.c.		Stores
5039#		516	Chemicals and Allied Products	5712	Furniture stores
504#	Professional and Commercial	5162#		5713	Floor covering stores
	Equipment		Chemicals and allied products,	5714	Drapery and upholstery stores
5043	Photographic equipment and	3103#	n.e.c.	5719	Misc. homefurnishings stores
	supplies	517	Petroleum and Petroleum Products	572	Household Appliance Stores (5722)
5044#		5171	Petroleum bulk stations and	573	Radio, Television, and Computer
5045#		10-500 M/M	terminals		Stores
E0.10 #	software	5172	Petroleum products with no storage	5731#	Radio, TV, and electronic stores
5046#		518	Beer, Wine, and Distilled	5734#	
5047#			Beverages	5735#	
5048#		5181	Beer and ale	5736#	stores
5049#	Professional equipment, n.e.c.	5182	Wine and distilled beverages	5/30#	Musical instrument stores
505	Metals and Minerals, Except Petroleum	519	Misc. Nondurable Goods	58	Eating and Drinking Places
5051	Metals service centers and offices	5191	Farm supplies	581	Eating and Drinking Places
5052	Coal and other minerals and ories	5192#		5812	Eating places
506#	Electrical Goods	E400 #	newspapers	5813	Drinking places
5063#		5193#		"	Sea Britishe's fut the
5064	Electrical appliances, TV and	5194	Tobacco and tobacco products	59#	Miscellaneous Retail
	radios	5198 5199#	Paints, varnishes, and supplies	591	Drug Stores and Proprietary Stores
5065#	Electronic parts and equipment	5199#	Nondurable goods, n.e.c.	592	(5912)
507	Hardware, Plumbing and Heating	64	2000B - 2000B	592 593#	Liquor Stores Used Merchandise Stores (5932)
	Equipment	- 4		594	Miscellaneous Shopping Goods
	Hardware	G #	RETAIL TRADE	334	
5072		<b>u</b> "	HEIME HIMDE		Stores
5072 5074	Plumbing and hydronic heating	<u> </u>	TIETRIE THADE	5941	Stores Sporting goods and bicycle shops
5074	Plumbing and hydronic heating supplies			5941 5942	Sporting goods and bicycle shops
	Plumbing and hydronic heating supplies Warm air heating and air-	52		5942	Sporting goods and bicycle shops Book stores
5074 5075	Plumbing and hydronic heating supplies Warm air heating and air- conditioning	1	Building Materials and Garden Supplies		Sporting goods and bicycle shops Book stores Stationery stores
5074	Plumbing and hydronic heating supplies Warm air heating and air- conditioning Refrigeration equipment and	1	Building Materials and Garden	5942 5943	Sporting goods and bicycle shops Book stores Stationery stores Jewelry stores
5074 5075 5078	Plumbing and hydronic heating supplies Warm air heating and air-conditioning Refrigeration equipment and supplies	52 521	Building Materials and Garden Supplies Lumber and Other Building Materials	5942 5943 5944	Sporting goods and bicycle shops Book stores Stationery stores
5074 5075	Plumbing and hydronic heating supplies Warm air heating and air-conditioning Refrigeration equipment and supplies Machinery, Equipment, and	52 521 523	Building Materials and Garden Supplies Lumber and Other Building	5942 5943 5944 5945 5946	Sporting goods and bicycle shops Book stores Stationery stores Jewelry stores Hobby, toy, and game shops Camera and photographic supply stores
5074 5075 5078 508#	Plumbing and hydronic heating supplies Warm air heating and air-conditioning Refrigeration equipment and supplies Machinery, Equipment, and Supplies	52 521 523 525	Building Materials and Garden Supplies Lumber and Other Building Materials Paint, Glass, and Wallpaper Stores Hardware Stores	5942 5943 5944 5945	Sporting goods and bicycle shops Book stores Stationery stores Jewelry stores Hobby, toy, and game shops Camera and photographic supply stores Gift, novelty, and souvenir shops
5074 5075 5078 508# 5082	Plumbing and hydronic heating supplies Warm air heating and airconditioning Refrigeration equipment and supplies Machinery, Equipment, and Supplies Construction and mining machinery	52 521 523 525 526	Building Materials and Garden Supplies Lumber and Other Building Materials Paint, Glass, and Wallpaper Stores Hardware Stores Retail Nurseries and Garden Stores	5942 5943 5944 5945 5946 5947	Sporting goods and bicycle shops Book stores Stationery stores Jewelry stores Hobby, toy, and game shops Camera and photographic supply stores Gift, novelty, and souvenir shops Luggage and leather goods stores
5074 5075 5078 508# 5082 5083	Plumbing and hydronic heating supplies Warm air heating and air-conditioning Refrigeration equipment and supplies Machinery, Equipment, and Supplies Construction and mining machinery Farm and garden machinery	52 521 523 525	Building Materials and Garden Supplies Lumber and Other Building Materials Paint, Glass, and Wallpaper Stores Hardware Stores	5942 5943 5944 5945 5946	Sporting goods and bicycle shops Book stores Stationery stores Jewelry stores Hobby, toy, and game shops Camera and photographic supply stores Gift, novelty, and souvenir shops Luggage and leather goods stores Sewing, needlework, and piece
5074 5075 5078 508# 5082 5083 5084#	Plumbing and hydronic heating supplies Warm air heating and air-conditioning Refrigeration equipment and supplies Machinery, Equipment, and Supplies Construction and mining machinery Farm and garden machinery Industrial machinery and equipment	52 521 523 525 526 527	Building Materials and Garden Supplies Lumber and Other Building Materials Paint, Glass, and Wallpaper Stores Hardware Stores Retail Nurseries and Garden Stores Mobile Home Dealers	5942 5943 5944 5945 5946 5947 5948 5949	Sporting goods and bicycle shops Book stores Stationery stores Jewelry stores Hobby, toy, and game shops Camera and photographic supply stores Gift, novelty, and souvenir shops Luggage and leather goods stores Sewing, needlework, and piece goods
5074 5075 5078 508# 5082 5083 5084# 5085	Plumbing and hydronic heating supplies Warm air heating and air- conditioning Refrigeration equipment and supplies Machinery, Equipment, and Supplies Construction and mining machinery Farm and garden machinery Industrial machinery and equipment Industrial supplies	52 521 523 525 526 527 53	Building Materials and Garden Supplies Lumber and Other Building Materials Paint, Glass, and Wallpaper Stores Hardware Stores Retail Nurseries and Garden Stores Mobile Home Dealers  General Merchandise Stores	5942 5943 5944 5945 5946 5947 5948 5949	Sporting goods and bicycle shops Book stores Stationery stores Jewelry stores Hobby, toy, and game shops Camera and photographic supply stores Gift, novelty, and souvenir shops Luggage and leather goods stores Sewing, needlework, and piece goods Nonstore Retailers
5074 5075 5078 508# 5082 5083 5084# 5085 5087	Plumbing and hydronic heating supplies Warm air heating and air-conditioning Refrigeration equipment and supplies Machinery, Equipment, and Supplies Construction and mining machinery Farm and garden machinery Industrial machinery and equipment Industrial supplies Service establishment equipment	52 521 523 525 526 527 53 531 #	Building Materials and Garden Supplies Lumber and Other Building Materials Paint, Glass, and Wallpaper Stores Hardware Stores Retail Nurseries and Garden Stores Mobile Home Dealers General Merchandise Stores Department Stores	5942 5943 5944 5945 5946 5947 5948 5949 596	Sporting goods and bicycle shops Book stores Stationery stores Jewelry stores Hobby, toy, and game shops Camera and photographic supply stores Gift, novelty, and souvenir shops Luggage and leather goods stores Sewing, needlework, and piece goods Nonstore Retailers Catalog and mail-order houses
5074 5075 5078 508# 5082 5083 5084# 5085	Plumbing and hydronic heating supplies Warm air heating and air-conditioning Refrigeration equipment and supplies Machinery, Equipment, and Supplies Construction and mining machinery Farm and garden machinery Industrial machinery and equipment Industrial supplies Service establishment equipment Transportation equipment and	52 521 523 525 526 527 53 531 #	Building Materials and Garden Supplies Lumber and Other Building Materials Paint, Glass, and Wallpaper Stores Hardware Stores Retail Nurseries and Garden Stores Mobile Home Dealers General Merchandise Stores Department Stores Variety Stores	5942 5943 5944 5945 5946 5947 5948 5949 596 5961 5962	Sporting goods and bicycle shops Book stores Stationery stores Jewelry stores Hobby, toy, and game shops Camera and photographic supply stores Gift, novelty, and souvenir shops Luggage and leather goods stores Sewing, needlework, and piece goods Nonstore Retailers Catalog and mail-order houses Merchandising machine operators
5074 5075 5078 508# 5082 5083 5084# 5085 5087	Plumbing and hydronic heating supplies Warm air heating and air-conditioning Refrigeration equipment and supplies Machinery, Equipment, and Supplies Construction and mining machinery Farm and garden machinery Industrial machinery and equipment Industrial supplies Service establishment equipment Transportation equipment and supplies	52 521 523 525 526 527 53 531 #	Building Materials and Garden Supplies Lumber and Other Building Materials Paint, Glass, and Wallpaper Stores Hardware Stores Retail Nurseries and Garden Stores Mobile Home Dealers  General Merchandise Stores Department Stores Variety Stores Misc. General Merchandise Stores	5942 5943 5944 5945 5946 5947 5948 5949 596 5961 5962 5963	Sporting goods and bicycle shops Book stores Stationery stores Jewelry stores Hobby, toy, and game shops Camera and photographic supply stores Gift, novelty, and souvenir shops Luggage and leather goods stores Sewing, needlework, and piece goods Nonstore Retailers Catalog and mail-order houses Merchandising machine operators Direct selling establishments
5074 5075 5078 508 # 5082 5083 5084 # 5085 5087 5088	Plumbing and hydronic heating supplies Warm air heating and air-conditioning Refrigeration equipment and supplies Machinery, Equipment, and Supplies Construction and mining machinery Farm and garden machinery Industrial machinery and equipment Industrial supplies Service establishment equipment Transportation equipment and	52 521 523 525 526 527 53 531 #	Building Materials and Garden Supplies Lumber and Other Building Materials Paint, Glass, and Wallpaper Stores Hardware Stores Retail Nurseries and Garden Stores Mobile Home Dealers General Merchandise Stores Department Stores Variety Stores	5942 5943 5944 5945 5946 5947 5948 5949 596 5961 5962 5963 598#	Sporting goods and bicycle shops Book stores Stationery stores Jewelry stores Hobby, toy, and game shops Camera and photographic supply stores Gift, novelty, and souvenir shops Luggage and leather goods stores Sewing, needlework, and piece goods Nonstore Retailers Catalog and mail-order houses Merchandising machine operators Direct selling establishments Fuel Dealers
5074 5075 5078 508# 5082 5083 5084# 5085 5087 5088 509# 5091*	Plumbing and hydronic heating supplies Warm air heating and air- conditioning Refrigeration equipment and supplies Machinery, Equipment, and Supplies Construction and mining machinery Farm and garden machinery Industrial machinery and equipment Industrial supplies Service establishment equipment Transportation equipment and supplies Miscellaneous Durable Goods Sporting and recreational goods	52 521 523 525 526 527 <b>53</b> 531 # 533 539 #	Building Materials and Garden Supplies Lumber and Other Building Materials Paint, Glass, and Wallpaper Stores Hardware Stores Retail Nurseries and Garden Stores Mobile Home Dealers  General Merchandise Stores Department Stores Variety Stores Misc. General Merchandise Stores (5399)	5942 5943 5944 5945 5946 5947 5948 5949 596 5961 5962 5963 598 # 5983	Sporting goods and bicycle shops Book stores Stationery stores Jewelry stores Hobby, toy, and game shops Camera and photographic supply stores Gift, novelty, and souvenir shops Luggage and leather goods stores Sewing, needlework, and piece goods Nonstore Retailers Catalog and mail-order houses Merchandising machine operators Direct selling establishments Fuel Dealers Fuel oil dealers
5074 5075 5078 508# 5082 5083 5084# 5085 5087 5088	Plumbing and hydronic heating supplies Warm air heating and air-conditioning Refrigeration equipment and supplies Machinery, Equipment, and Supplies Construction and mining machinery Farm and garden machinery Industrial machinery and equipment Industrial supplies Service establishment equipment Transportation equipment and supplies Miscellaneous Durable Goods	52 521 523 525 526 527 53 531 # 533 539 #	Building Materials and Garden Supplies Lumber and Other Building Materials Paint, Glass, and Wallpaper Stores Hardware Stores Retail Nurseries and Garden Stores Mobile Home Dealers  General Merchandise Stores Department Stores Variety Stores Misc. General Merchandise Stores (5399)  Food Stores	5942 5943 5944 5945 5946 5947 5948 5949 596 5961 5962 5963 5984 5983 5984	Sporting goods and bicycle shops Book stores Stationery stores Jewelry stores Hobby, toy, and game shops Camera and photographic supply stores Gift, novelty, and souvenir shops Luggage and leather goods stores Sewing, needlework, and piece goods Nonstore Retailers Catalog and mail-order houses Merchandising machine operators Direct selling establishments Fuel Dealers Fuel oil dealers Liquefied petroleum gas dealers
5074 5075 5078 508# 5082 5083 5084# 5085 5087 5088 509# 5091*	Plumbing and hydronic heating supplies Warm air heating and air-conditioning Refrigeration equipment and supplies Machinery, Equipment, and Supplies Construction and mining machinery Farm and garden machinery Industrial machinery and equipment Industrial supplies Service establishment equipment Transportation equipment and supplies Miscellaneous Durable Goods Sporting and recreational goods Toys and hobby goods and supplies	52 521 523 525 526 527 53 531 # 533 539 #	Building Materials and Garden Supplies Lumber and Other Building Materials Paint, Glass, and Wallpaper Stores Hardware Stores Retail Nurseries and Garden Stores Mobile Home Dealers  General Merchandise Stores Department Stores Variety Stores Misc. General Merchandise Stores (5399)  Food Stores Grocery Stores	5942 5943 5944 5945 5946 5947 5948 5949 5961 5962 5963 598# 5983 5984 5989#	Sporting goods and bicycle shops Book stores Stationery stores Jewelry stores Hobby, toy, and game shops Camera and photographic supply stores Gift, novelty, and souvenir shops Luggage and leather goods stores Sewing, needlework, and piece goods Nonstore Retailers Catalog and mail-order houses Merchandising machine operators Direct selling establishments Fuel Dealers Fuel oil dealers Liquefied petroleum gas dealers Fuel dealers, n.e.c.
5074 5075 5078 508# 5082 5083 5084# 5085 5087 5088 5099# 5092*	Plumbing and hydronic heating supplies Warm air heating and air- conditioning Refrigeration equipment and supplies Machinery, Equipment, and Supplies Construction and mining machinery Farm and garden machinery Industrial machinery and equipment Industrial supplies Service establishment equipment Transportation equipment and supplies Miscellaneous Durable Goods Sporting and recreational goods Toys and hobby goods and sup-	52 521 523 525 526 527 53 531 # 533 539 #	Building Materials and Garden Supplies Lumber and Other Building Materials Paint, Glass, and Wallpaper Stores Hardware Stores Retail Nurseries and Garden Stores Mobile Home Dealers  General Merchandise Stores Department Stores Variety Stores Misc. General Merchandise Stores (5399)  Food Stores Grocery Stores Meat and Fish Markets	5942 5943 5944 5945 5946 5947 5948 5949 5961 5962 5963 5988 5988 5989 5989 5989	Sporting goods and bicycle shops Book stores Stationery stores Jewelry stores Hobby, toy, and game shops Camera and photographic supply stores Gift, novelty, and souvenir shops Luggage and leather goods stores Sewing, needlework, and piece goods Nonstore Retailers Catalog and mail-order houses Merchandising machine operators Direct selling establishments Fuel Dealers Fuel oil dealers Liquefied petroleum gas dealers Fuel dealers, n.e.c. Retail Stores, N.E.C.
5074 5075 5078 5084 5082 5083 5084 # 5085 5087 5088 5094* 5092* 5093 5094	Plumbing and hydronic heating supplies Warm air heating and air- conditioning Refrigeration equipment and supplies Machinery, Equipment, and Supplies Construction and mining machinery Farm and garden machinery Industrial machinery and equipment Industrial supplies Service establishment equipment Transportation equipment and supplies Miscellaneous Durable Goods Sporting and recreational goods Toys and hobby goods and supplies Scrap and waste materials Jewelry and precious stones and metals	52 521 523 525 526 527 53 531 # 533 539 #	Building Materials and Garden Supplies Lumber and Other Building Materials Paint, Glass, and Wallpaper Stores Hardware Stores Retail Nurseries and Garden Stores Mobile Home Dealers  General Merchandise Stores Department Stores Variety Stores Misc. General Merchandise Stores (5399)  Food Stores Grocery Stores Meat and Fish Markets Fruit and Vegetable Markets	5942 5943 5944 5945 5946 5947 5948 5949 5961 5962 5963 5984 5983 5984 5989 # 5999	Sporting goods and bicycle shops Book stores Stationery stores Jewelry stores Hobby, toy, and game shops Camera and photographic supply stores Gift, novelty, and souvenir shops Luggage and leather goods stores Sewing, needlework, and piece goods Nonstore Retailers Catalog and mail-order houses Merchandising machine operators Direct selling establishments Fuel Dealers Fuel oil dealers Liquefied petroleum gas dealers Fuel dealers, n.e.c. Retail Stores, N.E.C. Florists
5074 5075 5078 508# 5082 5083 5084# 5085 5087 5088 5091* 5092*	Plumbing and hydronic heating supplies Warm air heating and air-conditioning Refrigeration equipment and supplies Machinery, Equipment, and Supplies Construction and mining machinery Farm and garden machinery Industrial machinery and equipment Industrial supplies Service establishment equipment Transportation equipment and supplies Miscellaneous Durable Goods Sporting and recreational goods Toys and hobby goods and supplies Scrap and waste materials Jewelry and precious stones and	52 521 523 525 526 527 53 531 # 533 539 #	Building Materials and Garden Supplies Lumber and Other Building Materials Paint, Glass, and Wallpaper Stores Hardware Stores Retail Nurseries and Garden Stores Mobile Home Dealers  General Merchandise Stores Department Stores Variety Stores Misc. General Merchandise Stores (5399)  Food Stores Grocery Stores Meat and Fish Markets Fruit and Vegetable Markets Candy, Nut, and Confectionery	5942 5943 5944 5945 5946 5947 5948 5949 5961 5962 5963 5963 5963 5984 5983 5984 5989 5999 5992	Sporting goods and bicycle shops Book stores Stationery stores Jewelry stores Hobby, toy, and game shops Camera and photographic supply stores Gift, novelty, and souvenir shops Luggage and leather goods stores Sewing, needlework, and piece goods Nonstore Retailers Catalog and mail-order houses Merchandising machine operators Direct selling establishments Fuel Dealers Fuel oil dealers Liquefied petroleum gas dealers Fuel dealers, n.e.c. Retail Stores, N.E.C. Florists Tobacco stores and stands
5074 5075 5078 5084 5082 5083 5084 # 5085 5087 5088 5094* 5092* 5093 5094	Plumbing and hydronic heating supplies Warm air heating and air- conditioning Refrigeration equipment and supplies Machinery, Equipment, and Supplies Construction and mining machinery Farm and garden machinery Industrial machinery and equipment Industrial supplies Service establishment equipment Transportation equipment and supplies Miscellaneous Durable Goods Sporting and recreational goods Toys and hobby goods and supplies Scrap and waste materials Jewelry and precious stones and metals	52 521 523 525 526 527 <b>53</b> 531 # 533 539 # <b>54</b> 541 542 # 543 544	Building Materials and Garden Supplies Lumber and Other Building Materials Paint, Glass, and Wallpaper Stores Hardware Stores Retail Nurseries and Garden Stores Mobile Home Dealers  General Merchandise Stores Department Stores Variety Stores Misc. General Merchandise Stores (5399)  Food Stores Grocery Stores Meat and Fish Markets Fruit and Vegetable Markets Candy, Nut, and Confectionery Stores	5942 5943 5944 5945 5946 5947 5948 5949 5961 5962 5963 5984 5983 5984 5984 5999 5992 5993 5994	Sporting goods and bicycle shops Book stores Stationery stores Jewelry stores Hobby, toy, and game shops Camera and photographic supply stores Gift, novelty, and souvenir shops Luggage and leather goods stores Sewing, needlework, and piece goods Nonstore Retailers Catalog and mail-order houses Merchandising machine operators Direct selling establishments Fuel Dealers Fuel oil dealers Liquefied petroleum gas dealers Fuel dealers, n.e.c. Retail Stores, N.E.C. Florists Tobacco stores and stands News dealers and newsstands
5074 5075 5078 5084 5082 5083 5084 # 5085 5087 5088 5099 5099 5099	Plumbing and hydronic heating supplies Warm air heating and air- conditioning Refrigeration equipment and supplies Machinery, Equipment, and Supplies Construction and mining machinery Farm and garden machinery Industrial machinery and equipment Industrial supplies Service establishment equipment Transportation equipment and supplies Miscellaneous Durable Goods Sporting and recreational goods Toys and hobby goods and supplies Scrap and waste materials Jewelry and precious stones and metals Durable goods, n.e.c.	52 521 523 525 526 527 <b>53</b> 531 # 533 539 # <b>54</b> 541 542 # 543 544	Building Materials and Garden Supplies Lumber and Other Building Materials Paint, Glass, and Wallpaper Stores Hardware Stores Retail Nurseries and Garden Stores Mobile Home Dealers  General Merchandise Stores Department Stores Variety Stores Misc. General Merchandise Stores (5399)  Food Stores Grocery Stores Meat and Fish Markets Fruit and Vegetable Markets Candy, Nut, and Confectionery Stores Dairy Products Stores	5942 5943 5944 5945 5946 5947 5948 5949 5961 5962 5963 5984 5983 5984 5989 5993 5994 5995	Sporting goods and bicycle shops Book stores Stationery stores Jewelry stores Hobby, toy, and game shops Camera and photographic supply stores Gift, novelty, and souvenir shops Luggage and leather goods stores Sewing, needlework, and piece goods Nonstore Retailers Catalog and mail-order houses Merchandising machine operators Direct selling establishments Fuel Dealers Fuel oil dealers Liquefied petroleum gas dealers Fuel dealers, n.e.c. Retail Stores, N.E.C. Florists Tobacco stores and stands News dealers and newsstands Optical goods stores
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5074 5075 5078 508# 5082 5083 5084# 5085 5087 5090 5091* 5092* 5093 5094 5099 51	Plumbing and hydronic heating supplies Warm air heating and air- conditioning Refrigeration equipment and supplies Machinery, Equipment, and Supplies Construction and mining machinery Farm and garden machinery Industrial machinery and equipment Industrial supplies Service establishment equipment Transportation equipment and supplies Miscellaneous Durable Goods Sporting and recreational goods Toys and hobby goods and supplies Scrap and waste materials Jewelry and precious stones and metals Durable goods, n.e.c.  Wholesale Trade—Nondurable Goods Paper and Paper Products	52 521 523 525 526 527 53 531 # 533 539 # 54 541 542 # 543 544 545	Building Materials and Garden Supplies Lumber and Other Building Materials Paint, Glass, and Wallpaper Stores Hardware Stores Retail Nurseries and Garden Stores Mobile Home Dealers  General Merchandise Stores Department Stores Variety Stores Misc. General Merchandise Stores (5399)  Food Stores Grocery Stores Meat and Fish Markets Fruit and Vegetable Markets Candy, Nut, and Confectionery Stores Dairy Products Stores Retail Bakeries	5942 5943 5944 5945 5946 5947 5948 5949 5961 5962 5963 5984 5983 5984 5989 5993 5994 5995	Sporting goods and bicycle shops Book stores Stationery stores Jewelry stores Hobby, toy, and game shops Camera and photographic supply stores Gift, novelty, and souvenir shops Luggage and leather goods stores Sewing, needlework, and piece goods Nonstore Retailers Catalog and mail-order houses Merchandising machine operators Direct selling establishments Fuel Dealers Fuel oil dealers Liquefied petroleum gas dealers Fuel dealers, n.e.c. Retail Stores, N.E.C. Florists Tobacco stores and stands News dealers and newsstands Optical goods stores
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5074 5075 5078 508# 5082 5083 5084# 5085 5087 5098 5099* 5099 51 511 5111	Plumbing and hydronic heating supplies Warm air heating and air- conditioning Refrigeration equipment and supplies Machinery, Equipment, and Supplies Construction and mining machinery Farm and garden machinery Industrial machinery and equipment Industrial supplies Service establishment equipment Transportation equipment and supplies Miscellaneous Durable Goods Sporting and recreational goods Toys and hobby goods and supplies Scrap and waste materials Jewelry and precious stones and metals Durable goods, n.e.c.  Wholesale Trade—Nondurable Goods Paper and Paper Products Printing and writing paper Stationery and office supplies Industrial and personal service	52 521 523 525 526 527 <b>53</b> 531 # 533 539 # <b>54</b> 541 542 # 543 544 545 546 # 549	Building Materials and Garden Supplies Lumber and Other Building Materials Paint, Glass, and Wallpaper Stores Hardware Stores Retail Nurseries and Garden Stores Mobile Home Dealers  General Merchandise Stores Department Stores Variety Stores Misc. General Merchandise Stores (5399)  Food Stores Grocery Stores Meat and Fish Markets Fruit and Vegetable Markets Candy, Nut, and Confectionery Stores Dairy Products Stores Retail Bakeries Miscellaneous Food Stores (5499)  Automotive Dealers and Service	5942 5943 5944 5945 5946 5947 5948 5949 596 5961 5962 5963 5984 5983 5984 5989 5999 5999 5999	Sporting goods and bicycle shops Book stores Stationery stores Jewelry stores Hobby, toy, and game shops Camera and photographic supply stores Gift, novelty, and souvenir shops Luggage and leather goods stores Sewing, needlework, and piece goods Nonstore Retailers Catalog and mail-order houses Merchandising machine operators Direct selling establishments Fuel Dealers Fuel oil dealers Liquefied petroleum gas dealers Fuel dealers, n.e.c. Retail Stores, N.E.C. Florists Tobacco stores and stands News dealers and newsstands Optical goods stores Miscellaneous retail stores, n.e.c.
5074 5075 5078 5084 5082 5083 5084 5085 5087 5088 5091* 5092* 5099 51 511 5112 5113	Plumbing and hydronic heating supplies Warm air heating and air- conditioning Refrigeration equipment and supplies Machinery, Equipment, and Supplies Construction and mining machinery Farm and garden machinery Industrial machinery and equipment Industrial supplies Service establishment equipment Transportation equipment and supplies Miscellaneous Durable Goods Sporting and recreational goods Toys and hobby goods and supplies Scrap and waste materials Jewelry and precious stones and metals Durable goods, n.e.c.  Wholesale Trade—Nondurable Goods Paper and Paper Products Printing and writing paper Stationery and office supplies Industrial and personal service paper	52 521 523 525 526 527 53 531 # 533 539 # 54 541 542 # 542 # 543 544 545 546 # 549	Building Materials and Garden Supplies Lumber and Other Building Materials Paint, Glass, and Wallpaper Stores Hardware Stores Retail Nurseries and Garden Stores Mobile Home Dealers  General Merchandise Stores Department Stores Variety Stores Misc. General Merchandise Stores (5399)  Food Stores Grocery Stores Meat and Fish Markets Fruit and Vegetable Markets Candy, Nut, and Confectionery Stores Dairy Products Stores Retail Bakeries Miscellaneous Food Stores (5499)  Automotive Dealers and Service Stations	5942 5943 5944 5945 5946 5947 5948 5949 596 5961 5962 5963 5984 5983 5984 5989 5999 5999 5999	Sporting goods and bicycle shops Book stores Stationery stores Jewelry stores Hobby, toy, and game shops Camera and photographic supply stores Gift, novelty, and souvenir shops Luggage and leather goods stores Sewing, needlework, and piece goods Nonstore Retailers Catalog and mail-order houses Merchandising machine operators Direct selling establishments Fuel Dealers Fuel oil dealers Liquefied petroleum gas dealers Fuel dealers, n.e.c. Retail Stores, N.E.C. Florists Tobacco stores and stands News dealers and newsstands Optical goods stores Miscellaneous retail stores, n.e.c.
5074 5075 5078 5084 5082 5083 5084 5085 5087 5088 5099 5093 5094 5099 51 511 5112	Plumbing and hydronic heating supplies Warm air heating and air- conditioning Refrigeration equipment and supplies Machinery, Equipment, and Supplies Construction and mining machinery Farm and garden machinery Industrial machinery and equipment Industrial supplies Service establishment equipment Transportation equipment and supplies Miscellaneous Durable Goods Sporting and recreational goods Toys and hobby goods and supplies Scrap and waste materials Jewelry and precious stones and metals Durable goods, n.e.c.  Wholesale Trade—Nondurable Goods Paper and Paper Products Printing and writing paper Stationery and office supplies Industrial and personal service paper Drugs, Proprietaries, & Sundries	52 521 523 525 526 527 53 531 # 533 539 # 54 541 542 # 543 544 545 546 # 549 55	Building Materials and Garden Supplies Lumber and Other Building Materials Paint, Glass, and Wallpaper Stores Hardware Stores Retail Nurseries and Garden Stores Mobile Home Dealers  General Merchandise Stores Department Stores Variety Stores Misc. General Merchandise Stores (5399)  Food Stores Grocery Stores Meat and Fish Markets Fruit and Vegetable Markets Candy, Nut, and Confectionery Stores Dairy Products Stores Retail Bakeries Miscellaneous Food Stores (5499)  Automotive Dealers and Service Stations New and Used Car Dealers Used Car Dealers	5942 5943 5944 5945 5946 5947 5948 5949 596 5961 5962 5963 5984 5983 5984 5989 5999 5999 5999	Sporting goods and bicycle shops Book stores Stationery stores Jewelry stores Hobby, toy, and game shops Camera and photographic supply stores Gift, novelty, and souvenir shops Luggage and leather goods stores Sewing, needlework, and piece goods Nonstore Retailers Catalog and mail-order houses Merchandising machine operators Direct selling establishments Fuel Dealers Fuel oil dealers Liquefied petroleum gas dealers Fuel dealers, n.e.c. Retail Stores, N.E.C. Florists Tobacco stores and stands News dealers and newsstands Optical goods stores Miscellaneous retail stores, n.e.c.
5074 5075 5078 508# 5082 5083 5084# 5085 5097 5092* 5099 51 511 5112 512	Plumbing and hydronic heating supplies Warm air heating and air- conditioning Refrigeration equipment and supplies Machinery, Equipment, and Supplies Construction and mining machinery Farm and garden machinery Industrial machinery and equipment Industrial supplies Service establishment equipment Transportation equipment and supplies Miscellaneous Durable Goods Sporting and recreational goods Toys and hobby goods and supplies Scrap and waste materials Jewelry and precious stones and metals Durable goods, n.e.c.  Wholesale Trade—Nondurable Goods Paper and Paper Products Printing and writing paper Stationery and office supplies Industrial and personal service paper Drugs, Proprietaries, & Sundries (5122)	52 521 523 525 526 527 53 531 # 533 539 # 54 541 542 # 543 544 545 546 # 549 55 551 552	Building Materials and Garden Supplies Lumber and Other Building Materials Paint, Glass, and Wallpaper Stores Hardware Stores Retail Nurseries and Garden Stores Mobile Home Dealers  General Merchandise Stores Department Stores Variety Stores Misc. General Merchandise Stores (5399)  Food Stores Grocery Stores Meat and Fish Markets Fruit and Vegetable Markets Candy, Nut, and Confectionery Stores Dairy Products Stores Retail Bakeries Miscellaneous Food Stores (5499)  Automotive Dealers and Service Stations New and Used Car Dealers	5942 5943 5944 5945 5946 5947 5948 5949 596 5961 5962 5963 5984 5983 5984 5989 5999 5999 4	Sporting goods and bicycle shops Book stores Stationery stores Jewelry stores Hobby, toy, and game shops Camera and photographic supply stores Gift, novelty, and souvenir shops Luggage and leather goods stores Sewing, needlework, and piece goods Nonstore Retailers Catalog and mail-order houses Merchandising machine operators Direct selling establishments Fuel Dealers Fuel oil dealers Liquefied petroleum gas dealers Fuel dealers, n.e.c. Retail Stores, N.E.C. Florists Tobacco stores and stands News dealers and newsstands Optical goods stores Miscellaneous retail stores, n.e.c.
5074 5075 5078 508# 5082 5083 5084# 5085 5087 5098 5099* 5099 51 511 5112 5113 512 513	Plumbing and hydronic heating supplies Warm air heating and air- conditioning Refrigeration equipment and supplies Machinery, Equipment, and Supplies Construction and mining machinery Farm and garden machinery Industrial machinery and equipment Industrial supplies Service establishment equipment Transportation equipment and supplies Miscellaneous Durable Goods Sporting and recreational goods Toys and hobby goods and supplies Scrap and waste materials Jewelry and precious stones and metals Durable goods, n.e.c.  Wholesale Trade—Nondurable Goods Paper and Paper Products Printing and writing paper Stationery and office supplies Industrial and personal service paper Drugs, Proprietaries, & Sundries (5122) Apparel, Piece Goods, and Notions	52 521 523 525 526 527 53 531 # 533 539 # 54 541 542 # 543 544 545 546 # 549 55 551 552 553	Building Materials and Garden Supplies Lumber and Other Building Materials Paint, Glass, and Wallpaper Stores Hardware Stores Retail Nurseries and Garden Stores Mobile Home Dealers  General Merchandise Stores Department Stores Variety Stores Misc. General Merchandise Stores (5399)  Food Stores Grocery Stores Meat and Fish Markets Fruit and Vegetable Markets Candy, Nut, and Confectionery Stores Dairy Products Stores Retail Bakeries Miscellaneous Food Stores (5499)  Automotive Dealers and Service Stations New and Used Car Dealers Used Car Dealers Auto and Home Supply Stores	5942 5943 5944 5945 5946 5947 5948 5949 5961 5962 5963 5984 5983 5984 5989 5993 5994 5995 #	Sporting goods and bicycle shops Book stores Stationery stores Jewelry stores Hobby, toy, and game shops Camera and photographic supply stores Gift, novelty, and souvenir shops Luggage and leather goods stores Sewing, needlework, and piece goods Nonstore Retailers Catalog and mail-order houses Merchandising machine operators Direct selling establishments Fuel Dealers Fuel Dealers Liquefied petroleum gas dealers Fuel dealers, n.e.c. Retail Stores, N.E.C. Florists Tobacco stores and stands News dealers and newsstands Optical goods stores Miscellaneous retail stores, n.e.c.
5074 5075 5078 508# 5082 5083 5084# 5085 5097 5092* 5099 51 511 5112 512	Plumbing and hydronic heating supplies Warm air heating and air-conditioning Refrigeration equipment and supplies Machinery, Equipment, and Supplies Construction and mining machinery Farm and garden machinery Industrial machinery and equipment Industrial supplies Service establishment equipment Transportation equipment and supplies Miscellaneous Durable Goods Sporting and recreational goods Toys and hobby goods and supplies Scrap and waste materials Jewelry and precious stones and metals Durable goods, n.e.c.  Wholesale Trade—Nondurable Goods Paper and Paper Products Printing and writing paper Stationery and office supplies Industrial and personal service paper Drugs, Proprietaries, & Sundries (5122) Apparel, Piece Goods, and Notions	52 521 523 525 526 527 53 531 # 533 539 # 54 541 542 # 543 544 545 546 # 549 55 551 552 553 554	Building Materials and Garden Supplies Lumber and Other Building Materials Paint, Glass, and Wallpaper Stores Hardware Stores Retail Nurseries and Garden Stores Mobile Home Dealers  General Merchandise Stores Department Stores Variety Stores Misc. General Merchandise Stores (5399)  Food Stores Grocery Stores Meat and Fish Markets Fruit and Vegetable Markets Candy, Nut, and Confectionery Stores Dairy Products Stores Retail Bakeries Miscellaneous Food Stores (5499)  Automotive Dealers and Service Stations New and Used Car Dealers Used Car Dealers Auto and Home Supply Stores Gasoline Service Stations	5942 5943 5944 5945 5946 5947 5948 5949 596 5961 5962 5963 5984 5983 5984 5989 5999 5999 4	Sporting goods and bicycle shops Book stores Stationery stores Jewelry stores Hobby, toy, and game shops Camera and photographic supply stores Gift, novelty, and souvenir shops Luggage and leather goods stores Sewing, needlework, and piece goods Nonstore Retailers Catalog and mail-order houses Merchandising machine operators Direct selling establishments Fuel Dealers Fuel oil dealers Liquefied petroleum gas dealers Fuel dealers, n.e.c. Retail Stores, N.E.C. Florists Tobacco stores and stands News dealers and newsstands Optical goods stores Miscellaneous retail stores, n.e.c.

Н	FINANCE, INSURANCE, AND REAL ESTATE—Con	I #	SERVICES—Con.	I #	SERVICES—Con.
	TIERE EGIATE—OUT	7353#			74 DOI:10.000 P. PORTS
63 64#	Insurance Carriers † Insurance Agents, Brokers, &	7359#	rental Equipment rental and leasing,	79#	Amusement and Recreation Services
	Service †	020 BAS	n.e.c.	791	Dance Studios, Schools, and Halls
65#	Real Estate †	736	Personnel Supply Services	792	Producers, Orchestras, Entertainers
67	Holding and Other Investment	7361	Employment agencies	7922	Theatrical producers and services
	Offices †	7363#	Help supply services	7929	Entertainers and entertainment
		737	Computer and Data Processing	793#	groups Bowling Centers (7933)
		7074 #	Services	794	Commercial Sports
	The state of the s	7371# 7372#		7941	Sports clubs, managers, and
1#	SERVICES		Prepackaged software Computer integrated systems	7541	promoters
1 77	SERVICES	1313#	design	7948	Racing, including track operation
		7374#	Data processing and preparation	799#	Misc. Amusement, Recreation
		7375#	Information retrieval services		Services
70	Hotels and Other Lodging Places	7376#	Computer facilities management	7991#	
701	Hotels and Motels	7377#	Computer rental and leasing	7992	Public golf courses
702	Rooming and Boarding Houses	7378#	Computer maintenance and repair	7993	Coin-operated amusement devices
703	Camps and Recreational Vehicle	7379#	Computer related services, n.e.c.	7996	Amusement parks
	Parks	738#	Miscellaneous Business Services	7997#	
7032	Sporting and recreational camps	7381#		7000 #	clubs
7033	Trailer parks and campsites	7382#	Security systems services	7999#	Amusement and recreation, n.e.c.
704	Membership-Basis Organization	7383*	News syndicates	80	Health Services
	Hotels	7384*	Photofinishing laboratories	801#	Offices and Clinics of Medical
		7389#	Business services, n.e.c.	Note Call Calls	Doctors
72#	Personal Services			802#	Offices and Clinics of Dentists
721#	Laundry, Cleaning, and Garment	75	Auto Repair, Services, and Park-	803	Offices of Osteopathic Physicians
	Services		ing	804	Offices of Other Health
7211	Power laundries, family and	751	Automotive Rentals Without Drivers	22.000	Practitioners
	commercial	7513	Truck rental & leasing without	8041	Offices and clinics of chiropractors
7212	Garment pressing and cleaners'		drivers	8042	Offices and clinics of optometrists
	agents	7514#		8043#	
7213	Linen supply	7515#		8049#	
7215	Coin-operated laundries and	7519 752#	Utility and recreational trailer rental	805	n.e.c. Nursing and Personal Care
7216	cleaning	752#	Automobile Parking Automotive Repair Shops	805	Facilities
7217	Drycleaning plants, except rug Carpet and upholstery cleaning		Top and body repair and paint	8051	Skilled nursing care facilities
7218	Industrial launderers	13021	shops	8052#	
7219#		7533#	Auto exhaust system repair shops	8059#	
1210#	n.e.c.	7534	Tire retreading and repair shops	806	Hospitals
722	Photographic Studios, Portrait		Automotive glass replacement	8062	General medical and surgical
723	Beauty Shops		shops		hospitals
724	Barber Shops	7537#	Automotive transmission repair	8063	Psychiatric hospitals
725	Shoe Repair and Shoeshine		shops	8069	Specialty hospitals exc. psychiatric
	Parlors	7538	General automotive repair shops	807	Medical and Dental Laboratories
726	Funeral Service and Crematories	7539#	Automotive repair shops, n.e.c.	8071	Medical laboratories
729#	Miscellaneous Personal Services	754	Automotive Services, Except	8072	Dental laboratories
7291#	Tax return preparation services	75.40	Repair	808#	Home Health Care Services (8082)
7299#	Miscellaneous personal services,	7542	Carwashes	809#	Health and Allied Services, N.E.C.
	n.e.c.	7549	Automotive services, n.e.c.	8092#	Kidney dialysis centers
				8093#	
73#	Business Services	76	Miscellaneous Repair Services	8099#	Health and allied services, n.e.c.
731	Advertising	762	Electrical Repair Shops	81	Legal Services
7311	Advertising agencies	7622	Radio and television repair	811	Legal Services
7312	Outdoor advertising services	7623	Refrigeration service and repair		
7313	Radio, TV, publisher's representa-	7629	Electrical repair shops, n.e.c.	82	Educational Services
7040	tives	763	Watch, Clock, and Jewelry Repair	821	Elementary and Secondary
7319	Advertising, n.e.c.	764	Reupholstery and Furniture Repair	000	Schools †
732 7322#	Credit Reporting and Collection	769 7692	Miscellaneous Repair Shops	822 823	Colleges and Universities † Libraries
7323#		7694	Welding repair Armature rewinding shops	824	Vocational Schools
733	Mailing, Reproduction,	7699	Repair services, n.e.c.	8243	Data processing schools
700	Stenographic	7000	riepaii services, ri.e.c.	8244	Business and secretarial schools
7331	Direct mail advertising services	78#	Motion Pictures	8249#	
7334#		781	Motion Picture Production and	829	Schools and Educational Services,
	services		Services		N.E.C. (8299)
7335#	Commercial photography	7812#	Motion picture and videotape		
7336#			production	83	Social Services
7338#		7819	Services allied to motion pictures	832#	Individual and Family Services
734	Services to Buildings	782	Motion Picture Distribution and		(8322)
7342	Disinfecting and pest control	7000#	Services	833	Job Training and Related Services
<u> </u>	services	7822#	Motion picture and videotape	835	Child Day Care Services
7349#	T : 1 전 : 1	7829	distribution  Motion picture distribution services	836	Residential Care
705 "	n.e.c.	783	Motion Picture Theaters	839#	Social Services, N.E.C. (8399)
735#	Misc. Equipment Rental and	7832	Motion picture theaters, ex. drive-in	84#	Museums. Botanical, Zoological
7352#	Leasing Medical equipment rental	7833	Drive-in motion picture theaters	<b>5-1</b> #	Gardens
, UJL 11	modical equipment ferital	784#	Video Tape Rental	841#	Museums and Art Galleries (8412)
			1.1. P. 14-17-17-18-18-14-14-14-14-14-14-14-14-14-14-14-14-14-	008/1019/00	

I #	SERVICES—Con.
842#	Botanical and Zoological Gardens (8422)
86	Membership Organizations
861	Business Associations
862	Professional Organizations
863	Labor Organizations †
864	Civic and Social Associations
865	Political Organizations †
866	Religious Organizations †
869	Membership Organizations, N.E.C. (8699)
87#	Engineering and Management Services
871*	Engineering and Architectural Services
8711#	Engineering services
8712#	Architectural services
8713#	Surveying services
872*	Accounting, Auditing, and Book- keeping
873#	Research and Testing Services

I #	SERVICES—Con.
8731*	Commercial physical research
8732# 8733*	Commercial nonphysical research Noncommercial research organiza- tions
8734*	Testing laboratories
874#	Management and Public Relations
8741#	Management services
8742#	Management consulting services
8743# 8744#	Public relations services
8748#	Facilities support services Business consulting, n.e.c.
88	Private Households †
89#	Services, N.E.C.
899	Services, N.E.C. (8999)
J	PUBLIC ADMINISTRATION
91	Executive, Legislative, and General †

J	PUBLIC ADMINISTRATION - Con.
92	Justice, Public Order, and Safety †
93	Finance, Taxation, & Monetary Policy †
94	Administration of Human Resources †
95	Environmental Quality and Housing †
96	Administration of Economic Programs †
97	National Security and Intl. Affairs †
K	NONCLASSIFIABLE ESTAB- LISHMENTS
99	Nonclassifiable Establish- ments †



### APPENDIX B. Metropolitan Statistical Areas

[MSA—Metropolitan Statistical Area. CMSA—Consolidated MSA. PMSA—Primary MSA. \* New area or area redefined between 1982 and 1987. Codes for PMSA's are shown in italics since they must be used together with the CMSA code above them]

0040	Abilene, TX MSA* Akron, OH PMSA—see Cleveland		Boulder-Longmont, CO PMSA—see Denver	1922	Dallas-Fort Worth, TX CMSA* 1236
0120	Albany, GA MSA	1140	Bradenton, FL MSA	1920	Dallas, TX PMSA* 12
0160	Albany-Schenectady-Troy, NY		Brazoria, TX PMSA—see Houston	2800	Fort Worth-Arlington, TX
	MSA* 1	1150	Bremerton, WA MSA		PMSA* 1
0200	Albuquerque, NM MSA*		Bridgeport-Milford, CT PMSA-		Danbury, CT PMSA—see New
0220	Alexandria, LA MSA*		see NewYork		York
0240	Allentown-Bethlehem, PA-NJ		Bristol, CT PMSA—see Hartford	1950	Danville, VA MSA
	MSA <sup>1</sup>		Brockton, MA PMSA—see	1960	Davenport Rock Island-Moline,
0280	Altoona, PA MSA		Boston		IA-IL MSA
0320	Amarillo, TX MSA	1240	Brownsville-Harlingen, TX MSA	2000	Dayton-Springfield, OH MSA* 1
	Anaheim-Santa Ana, CA	1260	Bryan-College Station, TX MSA	2020	Daytona Beach, FL MSA
	PMSA—see Los Angeles	1282	Buffalo-Niagara Falls, NY	2040	Decatur, IL MSA
0380	Anchorage, AK MSA		CMSA* 1	2082	Denver-Boulder, CO CMSA* 123
0400	Anderson, IN MSA	1280	Buffalo, NY PMSA* 1	1125	Boulder-Longmont, CO
0405	Anderson, SC MSA	5700	Niagara Falls, NY PMSA* 1		PMSA* 1
	Ann Arbor, MI PMSA—see Detroit	1300	Burlington, NC MSA	2080	Denver, CO PMSA* 12
0450	Anniston, AL MSA	1305	Burlington, VT MSA*	2120	Des Moines, IA MSA*
0460	Appleton-Oshkosh-Neenah, WI	1320	Canton, OH MSA	2162	Detroit-Ann Arbor, MI CMSA* 136
	MSA	1350	Casper, WY MSA	0440	Ann Arbor, MI PMSA <sup>1</sup>
0480	Asheville, NC MSA*	1360	Cedar Rapids, IA MSA	2160	Detroit, MI PMSA* 13
0500	Athens, GA MSA	1400	Champaign-Urbana-Rantoul, IL	2180	Dothan, AL MSA*
0520	Atlanta, GA MSA* 1236		MSA	2200	Dubuque, IA MSA
0560	Atlantic City, NJ MSA*	1440	Charleston, SC MSA	2240	Duluth, MN-WI MSA
0600	Augusta, GA-SC MSA*	1480	Charleston, WV MSA	2290	Eau Claire, WI MSA
	Aurora-Elgin, IL PMSA—see	1520	Charlotte-Gastonia-Rock Hill,	2320	El Paso, TX MSA
	Chicago		NC-SC MSA* 12	2330	Elkhart-Goshen, IN MSA
0640	Austin, TX MSA <sup>1</sup>	1540	Charlottesville, VA MSA	2335	Elmira, NY MSA
0680	Bakersfield, CA MSA	1560	Chattanooga, TN-GA MSA	2340	Enid, OK MSA
0720	Baltimore, MD MSA* 123	1580	Cheyenne, WY MSA*	2360	Erie, PA MSA
0730	Bangor, ME MSA	1602	Chicago-Gary-Lake County,	2400	Eugene-Springfield, OR MSA
0760	Baton Rouge, LA MSA	0000	IL-IN-WI CMSA* 1236	2440	Evansville, IN-KY MSA*
0780	Battle Creek, MI MSA*	0620	Aurora-Elgin, IL PMSA* 1		Fall River, MA-RI MSA—see
0840	Beaumont-Port Arthur, TX MSA	1600	Chicago, IL PMSA* 123		Providence
	Beaver County, PA PMSA—see	2960	Gary-Hammond, IN PMSA1	2520	Fargo-Moorhead, ND-MN MSA
0000	Pittsburgh	3690	Joliet, IL PMSA* 1	2560	Fayetteville, NC MSA
0860	Bellingham, WA MSA	3800	Kenosha, WI PMSA <sup>1</sup>	2580	Fayetteville-Springdale, AR MSA*
0870	Benton Harbor, MI MSA	3965	Lake County, IL PMSA* 1	2600	Fitchburg-Leominster, MA MSA*
	Bergen-Passaic, NJ PMSA—see New York	1620	Chico, CA MSA	2640	Flint, MI MSA*
0880	Billings, MT MSA	1642	Cincinnati-Hamilton, OH-KY-IN CMSA* 13	2650	Florence, AL MSA
0920	Biloxi-Gulfport, MS MSA*	1640		2655	Florence, SC MSA
0960	Binghamton, NY MSA*	3200	Cincinnati, OH-KY-IN PMSA <sup>1</sup>	2670	Fort Collins-Loveland, CO MSA
1000	Birmingham, AL MSA* 1	3200	Hamilton-Middletown, OH PMSA <sup>1</sup>		Fort Lauderdale-Hollywood- Pompano Beach, FL
1010	Bismarck, ND MSA	1660	Clarksville-Hopkinsville, TN-KY		PMSA—see Miami
1020	Bloomington, IN MSA	1388	MSA	2700	Fort Myers-Cape Coral, FL MSA
1040	Bloomington-Normal, IL MSA	1692	Cleveland-Akron-Lorain, OH	2710	Fort Pierce, FL MSA*
1080	Boise City, ID MSA		CMSA* 136	2720	Fort Smith, AR-OK MSA*
1122	Boston-Lawrence-Salem, MA-NH	0080	Akron, OH PMSA <sup>1</sup>	2750	Fort Walton Beach, FL MSA
	CMSA* 146	1680	Cleveland, OH PMSA <sup>13</sup>	2760	Fort Wayne, IN MSA*
1120	Boston, MA PMSA* 1	4440	Lorain-Elyria, OH PMSA1	2.00	Fort Worth-Arlington, TX
1200	Brockton, MA PMSA* 1	1720	Colorado Springs, CO MSA* 2		PMSA—see Dallas
4160	Lawrence-Haverhill, MA-NH	1740	Columbia, MO MSA	2840	Fresno, CA MSA1
	PMSA* 1	1760	Columbia, SC MSA	2880	Gadsden, AL MSA
4560	Lowell, MA-NH PMSA* 1	1800	Columbus, GA-AL MSA	2900	Gainesville, FL MSA*
5350	Nashua, NH PMSA* 1	1840	Columbus, OH MSA* 1		Galveston-Texas City, TX
7090	Salem-Gloucester, MA	1880	Corpus Christi, TX MSA		PMSA—see Houston
	PMSA* 1	1900	Cumberland, MD-WV MSA		Gary-Hammond, IN PMSA—see Chicago

2975	Glens Falls, NY MSA	4200	Lawton, OK MSA	5602	New York-Northern New Jersey-
2985	Grand Forks, ND MSA*	4240	Lewiston-Auburn, ME MSA*		Long Island, NY-NJ-CT CMSA* 1236
3000	Grand Rapids, MI MSA1	4280	Lexington-Fayette, KY MSA		
3040	Great Falls, MT MSA	4320	Lima, OH MSA*	0875	Bergen-Passaic, NJ PMSA* 1
3060	Greeley, CO MSA	4360	Lincoln, NE MSA	1160	Bridgeport-Milford, CT PMSA* 1
3080	Green Bay, WI MSA	4400	Little Rock-North Little Rock, AR	1930	Danbury, CT PMSA* 1
3120	Greensboro—Winston-Salem—	4400	MSA*	3640	Jersey City, NJ PMSA1
3120	High Point, NC MSA* 1	4400		5015	Middlesex-Somerset-
2160		4420	Longview-Marshall, TX MSA	3013	Hunterdon, NJ PMSA* 1
3160	Greenville-Spartanburg, SC MSA <sup>1</sup>		Lorain-Elyria, OH PMSA—see		
3180	Hagerstown, MD MSA		Cleveland	5190	Monmouth-Ocean, NJ PMSA* 1
	Hamilton-Middletown, OH	4472	Los Angeles-Anaheim-Riverside,	5380	Nassau-Suffolk, NY PMSA <sup>13</sup>
	PMSA—see Cincinnati		CA CMSA* 1236	5600	New York, NY PMSA* 1235
3240	Harrisburg-Lebanon-Carlisle, PA	0360	Anaheim-Santa Ana, CA PMSA <sup>1235</sup>	5640	Newark, NJ PMSA* 13
	MSA* 1		PMSA <sup>1235</sup>	5760	Norwalk, CT PMSA1
3282	Hartford-New Britain-Middletown,	4480	Los Angeles-Long Beach, CA	5950	Orange County, NY PMSA1
	CT CMSA* 1		P MSA <sup>1235</sup>	8040	Stamford, CT PMSA1
1170	Bristol, CT PMSA1	6000	Oxnard-Ventura, CA PMSA1	0040	
3280	"	6780	Riverside-San Bernardino, CA		Newark, NJ PMSA—see New
	Hartford, CT PMSA* 1	0700	PMSA <sup>12</sup>		York
5020	Middletown, CT PMSA* 1	4500			Niagara Falls, NY PMSA—see
5440	New Britain, CT PMSA <sup>1</sup>	4520	Louisville, KY-IN MSA* 1		Buffalo
3290	Hickory, NC MSA*		Lowell, MA-NH PMSA—see	5720	Norfolk-Virginia Beach-Newport
3320	Honolulu, HI MSA1		Boston		News, VA MSA* 12
3350	Houma-Thibodaux, LA MSA*	4600	Lubbock, TX MSA		Norwalk, CT PMSA—see New
3362	Houston-Galveston-Brazoria, TX	4640	Lynchburg, VA MSA*		York I I I I I I I I I I I I I I I I I I I
JUUL	CMSA* 123 6	4680	Macon-Warner Robins, GA MSA*		Oakland, CA PMSA—see San
	2.5 (A. 1.5 (A	4720	Madison, WI MSA		Francisco
1145	Brazoria, TX PMSA* 1	4760	Manchester, NH MSA*	5790	Ocala, FL MSA
2920	Galveston-Texas City, TX				
	PMSA <sup>1</sup>	4800	Mansfield, OH MSA	5800	Odessa, TX MSA
<i>3360</i>	Houston, TX PMSA* 123	4880	McAllen-Edinburg-Mission, TX	5880	Oklahoma City, OK MSA* 1
3400	Huntington-Ashland, WV-KY-OH	A1 170/11-27 1-2011	MSA hot	5910	Olympia, WA MSA
	MSA*	4890	Medford, OR MSA	5920	Omaha, NE-IA MSA* 1
3440	Huntsville, AL MSA*	4900	Melbourne-Titusville-Palm Bay,		Orange County, NY PMSA—see
3480	Indianapolis, IN MSA1		FL MSA		New York
3500		4920	Memphis, TN-AR-MS MSA1	5960	Orlando, FL MSA <sup>1 2</sup>
	lowa City, IA MSA	4940	Merced, CA MSA*	3300	
3520	Jackson, MI MSA	4992	Miami Fort Lauderdale El		Oxnard-Ventura, CA PMSA—see
3560	Jackson, MS MSA*	4992	Miami-Fort Lauderdale, FL CMSA* 1236		Los Angeles
3580	Jackson, TN MSA*	0000		5990	Owensboro, KY MSA
3600	Jacksonville, FL MSA* 12	2680	Fort Lauderdale-Hollywood-	6015	Panama City, FL MSA
3605	Jacksonville, NC MSA		Pompano Beach, FL PMSA <sup>12</sup>	6020	Parkersburg-Marietta, WV-OH
3620	Janesville-Beloit, WI MSA	5000			MSA*
0020	Jersey City, NJ PMSA—see	5000	Miami-Hialeah, FL PMSA <sup>123</sup>	6025	Pascagoula, MS MSA
	New York		Middlesex-Somerset-Hunterdon,		Pawtucket-Woonsocket-Attleboro,
0000			NJ PMSA—see New York		RI-MA PMSA—see Providence
3660	Johnson City-Kingsport-Bristol,		Middletown, CT PMSA—see		
	TN-VA MSA		Hartford	6080	Pensacola, FL MSA
3680	Johnstown, PA MSA	5040	Midland, TX MSA	6120	Peoria, IL MSA
	Joliet, IL PMSA—see Chicago	5082	Milwaukee-Racine, WI CMSA* 1	6162	Philadelphia-Wilmington-
3710	Joplin, MO MSA	5080	Milwaukee, WI PMSA1		Trenton, PA-NJ-DE-MD
3720	Kalamazoo, MI MSA*	6600	Racine, WI PMSA1		CMSA* 136
3740	Kankakee, IL MSA	5120	Minneapolis St. David MNI WI	6160	Philadelphia, PA-NJ PMSA13
3760	Kansas City, MO-KS MSA* 123	5120	Minneapolis-St. Paul, MN-WI MSA* <sup>1236</sup>	8480	Trenton, NJ PMSA1
0,00	Kenosha, WI PMSA—see	E400			
	Chicago	5160	Mobile, AL MSA	<i>8760</i>	Vineland-Millville-Bridgeton,
2010		5170	Modesto, CA MSA		NJ PMSA1
3810	Killeen-Temple, TX MSA		Monmouth-Ocean, NJ	9160	Wilmington, DE-NJ-MD PMSA <sup>1</sup>
3840	Knoxville, TN MSA* 1		PMSA—see New York	6200	Phoenix, AZ MSA <sup>123</sup>
3850	Kokomo, IN MSA	5200	Monroe, LA MSA	6240	Pine Bluff, AR MSA
3870	La Crosse, WI MSA	5240	Montgomery, AL MSA	6282	Pittsburgh-Beaver Valley, PA
3880	Lafayette, LA MSA*	5280	Muncie, IN MSA	UZUZ	CMSA* 13
3920	Lafayette-West Lafayette, IN MSA	5320	Muskegon, MI MSA*	0015	Beaver County, PA PMSA* 1
3960	Lake Charles, LA MSA			0845	
3900		5345	Naples, FL MSA*	6280	Pittsburgh, PA PMSA* 13
	Lake County, IL PMSA—see		Nashua, NH PMSA—see Boston	6320	Pittsfield, MA MSA*
0000	Chicago	5360	Nashville, TN MSA1	6400	Portland, ME MSA*
3980	Lakeland-Winter Haven, FL MSA		Nassau-Suffolk, NY PMSA-see	6442	Portland-Vancouver, OR-WA
4000	Lancaster, PA MSA		New York	~	CMSA* 4
4040	Lansing-East Lansing, MI MSA*	5400	New Bedford, MA MSA*	6440	Portland, OR PMSA* 1
4080	Laredo, TX MSA		New Britain, CT PMSA—see		
4100	Las Cruces, NM MSA		Hartford	8725	Vancouver, WA PMSA* 1
4120	Las Vegas, NV MSA <sup>2</sup>	5480	New Haven-Meriden, CT MSA* 1	6450	Portsmouth-Dover-Rochester,
			[1] [1] [1] [1] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2		NH-ME MSA*
4150	Lawrence, KS MSA	5520	New London-Norwich, CT-RI MSA*	6460	Poughkeepsie, NY MSA
	Lawrence-Haverhill, MA-NH PMSA—see Boston	5560	New Orleans, LA MSA* 12		

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6482	Providence-Pawtucket-Fall River, RI-MA CMSA* 1		San Jose, CA PMSA—see San Francisco	8680	Utica-Rome, NY MSA
2480	Fall River, MA-RI PMSA* 1	7480			Valiejo-Fairfield-Napa, CA
6060	Pawtucket-Woonsocket-	7400	Santa Barbara-Santa Maria-Lompoc, CA MSA		PMSA—see San Francisco
0000	Attleboro, RI-MA PMSA* 1		Santa Cruz, CA PMSA—see San		Vancouver, WA PMSA—see
6480	Providence, RI PMSA* 1		Francisco Francisco		Seattle
6520	Provo-Orem, UT MSA	7490		8750	Victoria, TX MSA
6560	Pueblo, CO MSA	7430	Santa Fe, NM MSA*		Vineland-Millville-Bridgeton, NJ
0000			Santa Rosa-Petaluma, CA PMSA—see San Francisco	V20-28-V20-V2	PMSA—see Philadelphia
	Racine, WI PMSA—see Milwaukee	7510		8780	Visalia-Tulare-Porterville, CA MSA
6640	Raleigh-Durham, NC MSA* 1	7520	Sarasota, FL MSA	8800	Waco, TX MSA
6660		7560	Savannah, GA MSA*	8840	Washington, DC-MD-VA MSA* 123
6680	Rapid City, SD MSA*	7560	Scranton—Wilkes-Barre, PA MSA* 1	CONTRACTOR OF THE	
6690	Reading, PA MSA	7602		8880	Waterbury, CT MSA*
	Redding, CA MSA	7002	Seattle-Tacoma, WA CMSA* 1236	8920	Waterloo-Cedar Falls, IA MSA*
6720	Reno, NV MSA	7600	Seattle, WA PMSA <sup>12</sup>	8940	Wausau, WI MSA
6740	Richland-Kennewick-Pasco, WA	8200	Tacoma, WA PMSA <sup>1</sup>	8960	West Palm Beach-Boca Raton-
6760	MSA	7610			Delray Beach, FL MSA <sup>12</sup>
0700	Richmond-Petersburg, VA MSA* 1	7620	Sharon, PA MSA	9000	Wheeling, WV-OH MSA
	Riverside-San Bernardino, CA	7640	Sheboygan, WI MSA	9040	Wichita, KS MSA*
6800	PMSA— see Los Angeles		Sherman-Denison, TX MSA	9080	Wichita Falls, TX MSA*
6820	Roanoke, VA MSA*	7680	Shreveport, LA MSA*	9140	Williamsport, PA MSA
	Rochester, MN MSA	7720	Sioux City, IA-NE MSA		Wilmington, DE-NJ-MD
6840	Rochester, NY MSA <sup>1</sup>	7760	Sioux Falls, SD MSA		PMSA—see Philadelphia
6880	Rockford, IL MSA	7800	South Bend-Mishawaka, IN MSA*	9200	Wilmington, NC MSA*
6920	Sacramento, CA MSA* 12	7840	Spokane, WA MSA	9240	Worcester, MA MSA*
6960	Saginaw-Bay City-Midland, MI	7880	Springfield, IL MSA	9260	Yakima, WA MSA
0000	MSA*	7920	Springfield, MO MSA	9280	York, PA MSA
6980	St. Cloud, MN MSA	8000	Springfield, MA MSA* 1	9320	Youngstown-Warren, OH MSA1
7000	St. Joseph, MO MSA*		Stamford, CT PMSA—see New	9340	Yuba City, CA MSA
7040	St. Louis, MO-IL MSA* 1236	20023	York		Mark the extract of the first of the I
7080	Salem, OR MSA	8050	State College, PA MSA		
	Salem-Gloucester, MA PMSA—see Boston	8080	Steubenville-Weirton, OH-WV MSA		
7120	Salinas-Seaside-Monterey, CA	8120	Stockton, CA MSA		
	MSA	8160	Syracuse, NY MSA1		
7160	Salt Lake City-Ogden, UT MSA* 12	8240	Tallahassee, FL MSA*		
7000			Tacoma, WA PMSA-see Seattle		
7200	San Angelo, TX MSA	8280	Tampa-St. Petersburg-Clearwater		
7240	San Antonio, TX MSA <sup>1 2</sup>		FL MSA* 123		
7320	San Diego, CA MSA <sup>123</sup>	8320	Terre Haute, IN MSA*		
7362	San Francisco-Oakland-San Jose, CA CMSA* 136	8360	Texarkana, TX-Texarkana, AR MSA*		
5775	Oakland, CA PMSA* 13	8400	Toledo, OH MSA* 1		
7360	San Francisco, CA PMSA* 13	8440	Topeka, KS MSA*		
7400	San Jose, CA PMSA1	100000000000000000000000000000000000000	Trenton, NJ PMSA—see		
7485	Santa Cruz, CA PMSA1		Philadelphia		
7500	Santa Rosa-Petaluma, CA	8520	Tucson, AZ MSA12		
1562-157500	PMSA <sup>1</sup>	8560	Tulsa, OK MSA* 1		
8720	Vallejo-Fairfield-Napa, CA	8600	Tuscaloosa, AL MSA		
	PMSA <sup>1</sup>	8640	Tyler, TX MSA		

Note: See figure 5, p. 12, for programs with data for all metropolitan areas.

<sup>1</sup>Data in Census of Construction Industries
<sup>2</sup>Data in New Residential Contruction in Selected MSA's, C21
<sup>3</sup>Data in Monthly Retail Trade, BR
<sup>4</sup>Boston NECMA in Monthly Retail Trade, BR
<sup>5</sup>Central city in Monthly Retail Trade, BR
<sup>6</sup>Data in Wholesale Commodity Line Sales on tape and CD-ROM.



#### APPENDIX C. Approximate Publication Schedule for 1987 Economic Census Reports

				Projecte	d availabilit	ty of printed	reports1	
Census			19	89	19	990	19	91
	Series designation	Media for release <sup>2</sup>	Early	Late	Early	Late	Early	Late
RETAIL TRADE (p. 61) Geographic Area	RC87-A-1 to 51	□ <b>9</b> ⊙1 <b>d</b> p <b>L</b>	ESPECIALIS	Testiniani		1.00		
U.S. Summary Subject Merchandise Line Sales: United States	RC87-A-52 RC87-S1,2, and 4 RC87-S-3			_	(gomes de System			1
States and MSAs Nonemployer Statistics Special Report ZIP Code Statistics	RC87-S-3 RC87-N-1 to 4 RC87-SP RC87-Z	♥ ○1 ⊕ ♥ ○1 ⊕ ♥ ○1 ■ □				8	11	
WHOLESALE TRADE (p. 77)		Ten   7   1			75			
Geographic Area U.S. Summary Subject Commodity Line Sales:	WC87-A-1 to 51 WC87-A-52 WC87-S-1, 2, and 4	田 <b>6</b> 0 1 國 p 且 田 <b>6</b> 0 1 國 p 且 田		/	Protestante	periodes.		- 11 T
United States 15 States, 15 MSAs	WC87-S-3 WC87-S-3	□ <b>♥</b> ⊙1 <b>♥</b> ⊙1				8		1.5
SERVICE INDUSTRIES (p. 91)		· · · · · · · · · · · · · · · · · · ·	-					
Geographic Area U.S. Summary Subject Nonemployer Statistics	SC87-A-1 to 51 SC87-A-52 SC87-S-1 to 4	⊕ ⊙ 1 ₪ p Д ⊕ ⊙ 1 ₪ p Д ⊕ ⊙ 1 ₪ p Д			Parks	of the same of		7-
ZIP Code Statistics	SC87-N-1 to 4 SC87-Z	<sup>™</sup> 8 8 1				8		-7 5.
TRANSPORTATION (p. 102)		11 - 21 .	-					
Geographic Area Subject Truck Inventory and Use Survey U.S. Summary	TC87-A-1 TC87-S-1 TC87-A-1 to 51 TC87-A-52	⊕ <b>ଡ</b> ⊙1 ⊟ <b>ଡ</b>					, .	
MANUFACTURES (p. 115)								
Preliminary Industry U.S. Summary Industry Geographic Area Subject Location of Manufacturing Plants Analytical: Exports	MC87-I-20A(P) to 39D(P) MC87-SUM-1(P) MC87-I-20A to 39D MC87-A-1 to 51 MC87-S-1 to 7 MC87-LM AR87-1 to 2	001 M p		858 858		₩		
MINERAL INDUSTRIES (p. 137)			Mil-			2 10		THE T
Preliminary Industry U.S. Summary Industry Geographic Area Subject	MIC87-I-10(P) to 14E(P) MIC87-SUM-1(P) MIC87-I-10A to 14E MIC87-A-1 to 9 MIC87-S-1 to 3	88 89 01 89 00 1			THE RESERVE TO SERVE THE PARTY OF THE PARTY	ENDALESS		
CONSTRUCTION INDUSTRIES (p. 147)			les established	-3		Bell	G- 1 1	- 5
Preliminary Industry U.S. Summary Industry U.S. Summary Geographic Area U.S. Summary Subject	CC87-I-1(P) to 27(P) CC87-I-28(P) CC87-I-1 to 27 CC87-I-28 CC87-A-1 to 9 CC87-A-10 CC87-S-1	99999 99999			E01		(A) 27	
OTHER (pp. 157, 165, 170, 174)							7.0	-
Outlying Areas Enterprise Statistics Minority-Owned Business Enterprises Women-Owned Businesses Characteristics of Business Owners	OA87-E-1 to 7 ES87-1 to 3 MB87-1 to 4 WB87-1 CBO87-1	☐ ☐ P ☐ P ☐ ☐ P ☐ ☐ P ☐ ☐ P ☐ ☐ P ☐ ☐ ☐ P ☐ ☐ ☐ P ☐		Source   1850	0			

¹Except where noted with the symbol ♥, electronic files (tape, CD-ROM, diskette) become available at roughly the end of the range of dates shown for corresponding reports. 2Media for release: ☐ —Printed report and microfiche; ♦—Computer tape; ♦ 1—CD-ROM Vol. 1; ♦ 2—CD-ROM Vol. 2; ☐ —Diskette; ☐ p—Part on diskette; ☐ —Highlights from the report on CENDATA™.



#### APPENDIX D. **Census Regional Offices** and State Data Centers

#### **BUREAU OF THE CENSUS REGIONAL OFFICES** Information Services Staff

1375 Peachtree Street, NE. 3rd Floor Atlanta, GA 30309-3147 (404) 347-2274

**Boston** 

10 Causeway Street Rm. 553 Boston, MA 02222-1084 (617) 565-7078

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222 South Church Street Suite 525 Charlotte, NC 28202-3220 (704) 371-6144

175 West Jackson Boulevard Rm. 557 Chicago, II 60604-2689 (312) 353-0980

6303 Harry Hines Blvd. Suite 210 Dallas, TX 75235-5228 (214) 767-7105

Denver

6900 West Jefferson Avenue Lakewood, CO 80235-2307 (303) 969-7750

Detroit

27300 West 11 Mile Road Suite 200 Southfield, MI 48034-2244 (313) 354-4654

Kansas City

1332 NW Prairie View Road P.O. Box 901390 Kansas City, MO 64191-1390 (816) 891-7562

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Valley Corporate Park Bldg. #1, 16300 Roscoe Blvd. Van Nuys, CA 91406-1215 (818) 892-6674

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26 Federal Plaza, Rm. 37-130 New York, NY 10278-0044 (212) 264-3860

Philadelphia

105 South 7th Street, 1st Floor Philadelphia, PA 19106-3395 (215) 597-4920

Seattle

101 Stewart Street Suite 500 Seattle, WA 98101-1098 (206) 728-5300

#### STATE DATA CENTERS: PRINCIPAL STATE ORGANIZATIONS

(For other lead agencies and local affiliates, see Census Catalog and Guide)

Alabama

Center for Business and Economic Research University of Alabama P.O. Box 870221 Tuscaloosa, AL 35487-0221 Ms. Annette Watters (205) 348-6191

Alaska

Alaska State Data Center Research & Analysis Department of Labor P.O. Box 25504 Juneau, AK 99802-5504 Ms. Kathryn Lizik (907) 465-4500

Arizona

Arizona Department of Economic Development 1300 West Washington P.O. Box 6123-045Z Phoenix, AZ 85005 Ms. Betty Jeffries (602) 542-5984

**Arkansas** 

State Data Center University of Arkansas-Little Rock 2801 South University Little Rock, AR 72204 Ms. Sarah Breshears (501) 569-8530

California

State Census Data Center Department of Finance 915 L Street, 8th Floor Sacramento, CA 95814 Ms. Linda Gage (916) 322-4651

Colorado

Division of Local Government Colorado Department of Local Affairs 1313 Sherman Street, Rm. 521 Denver, CO 80203 Mr. Reid Reynolds (303) 866-2156

Connecticut

Comprehensive Planning Division Connecticut Office of Policy and Management 80 Washington Street Hartford, CT 06106 Mr. Theron Schnure (203) 566-8285

Delaware

Delaware Development Office 99 Kings Highway P.O. Box 1401 Dover, DE 19903 Ms. Judy McKinney-Cherry (302) 736-4271

District of Columbia

**Data Services Division** Mayor's Office of Planning Rm. 314, Presidential Bldg. 415 12th Street, N.W. Washington, DC 20004 Mr. Gan Ahuja (202) 727-6533

Florida

Florida State Data Center Executive Office of the Governor Office of Planning & Budgeting The Capitol Tallahassee, FL 32399-0001 Mr. Steve Kimble (904) 487-2814

Georgia

Division of Demographic & Statistical Services Georgia Office of Planning and Budget 270 Washington Street, SW., Rm. 608 Atlanta, GA 30334 Ms. Robin Kirkpatrick (404) 656-0911

Guam Department of Commerce 590 South Marine Drive Suite 601, 6th Floor GITC Bldg. Tamuning, Guam 96911 Mr. Peter R. Barcinas (671) 646-5841

Hawaii

Hawaii State Data Center State Department of Business & **Economic Development** Kamamalu Bldg., Rm. 602A 250 South King Street (P.O. Box 2359) Honolulu, HI 96804 Ms. Sharon Nishi (808) 548-3067

Idaho Department of Commerce 700 West State Street Boise, ID 83720 Mr. Alan Porter (208) 334-2470

Illinois

Division of Planning and Financial Analysis Illinois Bureau of the Budget William Stratton Bldg. Room 605 Springfield, IL 62706 Ms. Suzanne Ebetsch (217) 782-1381

Indiana State Library Indiana State Data Center 140 North Senate Avenue Indianapolis, IN 46204 Ms. Roberta Eads (317) 232-3733

State Library of Iowa East 12th and Grand Des Moines, IA 50319 Miss Shirley George (515) 281-4105

Kansas

State Library Rm. 343-N State Capitol Bldg.
Topeka, KS 66612
Mr. Marc Galbraith
(913) 296-3296 (800) 432-3919

Kentucky

Urban Studies Center College of Urban & Public Affairs University of Louisville Louisville, KY 40292 Mr. Ron Crouch (502) 588-7990

Louisiana

Louisiana State Planning Office Division of Administration P.O. Box 94095 Baton Rouge, LA 70804 Ms. Karen Paterson (504) 342-7410

Division of Economic Analysis and Research Maine Department of Labor 20 Union Street Augusta, ME 04330 Ms. Jean Martin (207) 289-2271

Maryland

Maryland Department of State Planning 301 West Preston Street Baltimore, MD 21201 Mr. Arthur Benjamin (301) 225-4450

Massachusetts

Massachusetts Institute for Social and Economic Research 128 Thompson Hall University of Massachusetts Amherst, MA 01003 Mr. Roy Williams (413) 545-0176

Michigan

Michigan Information Center Department of Management & Budget Office of Revenue and Tax Analysis P.O. Box 30026 Lansing, MI 48909 Dr. Laurence Rosen (517) 373-2697

Minnesota

State Demographer's Office Minnesota State Planning Agency 300 Centennial Office Bldg. 658 Cedar Street St. Paul, MN 55155 Mr. David Birkholz (612) 296-4886

Mississippi

Center for Population Studies The University of Mississippi Bondurant Bldg., Rm. 3W University, MS 38677 Ms. Pattie Byrd (601) 232-7288

Missouri

Missouri State Library 2002 Missouri Boulevard Jefferson City, MO 65102 Ms. Marlys Davis (314) 751-3615

Montana

Census and Economic Information Montana Department of Commerce 1424 9th Avenue Capitol Station Helena, MT 59620-0401 Ms. Patricia Roberts (406) 444-2896

Nebraska

Center for Applied Urban Research The University of Nebraska- Omaha Peter Kiewit Conference Center 1313 Farnam-on-the-Mall Omaha, NE 68182 Mr. Jerome Deichert (402) 554-8311

Nevada

Nevada State Library Capitol Complex 401 North Carson Carson City, NV 89710 Ms. Betty McNeal (702) 885-5160

**New Hampshire** Office of State Planning 2 1/2 Beacon Street Concord, NH 03301 Mr. Tom Duffy (603) 271-2155

New Jersey
New Jersey Department of Labor
Division of Labor Market and Demographic Research CN 388-John Fitch Plaza Trenton, NJ 08625-0388 Ms. Connie O. Hughes (609) 984-2593

**New Mexico** 

Economic Development and Tourism Department 1100 St. Francis Drive Santa Fe, NM 87503 Ms. Carol Selleck (505) 827-0276

**New York** 

Division of Policy & Research Department of Economic Development 1 Commerce Plaza, Rm. 905 99 Washington Avenue Albany, NY 12245 Mr. Robert Scardamalia (518) 474-6005

North Carolina North Carolina Office of State Budget and Management 116 West Jones Street Raleigh, NC 27603-8005 Ms. Francine Stephenson (919) 733-7061

North Dakota

Department of Agricultural Economics North Dakota State University Morrill Hall, Rm. 224 P.O. Box 5636 Fargo, ND 58105 Dr. Richard Rathge (701) 237-8621

Ohio Data Users Center Ohio Department of Development P.O. Box 1001 Columbus, OH 43266-0101 Mr. Barry Bennett (614) 466-2115

Oklahoma

Oklahoma State Data Center Oklahoma Department of Commerce 6601 Broadway Extension Oklahoma City, OK 73116-8214 Ms. Karen Selland (405) 841-5184

Oregon

Center for Population Research and Census Portland State University P.O. Box 751 Portland, OR 97207-0751 Mr. Ed Shafer (503) 464-3922

Pennsylvania

Pennsylvania State Data Center Institute of State and Regional Affairs Pennsylvania State University at Harrisburg Middletown, PA 17057-4898 Mr. Bob Surridge (717) 948-6336

**Puerto Rico** 

Puerto Rico Planning Board Minillas Government Center North Bldg., Avenida De Diego P.O. Box 41119 San Juan, PR 00940 Sra. Migdalia Pena (809) 728-4430

Rhode Island Office of Municipal Affairs 275 Westminster Mall Providence, RI 02903 Mr. Paul Egan (401) 277-2886

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Division of Research and Statistical Services South Carolina Budget and Control Board Rembert Dennis Bldg., Rm. 425 Columbia, SC 29201 Mr. Mike MacFarlane (803) 734-3780

#### South Dakota

Business Research Bureau School of Business University of South Dakota 414 East Clark Vermillion, SD 57069 Ms. DeVee Dykstra (605) 677-5287

#### Tennessee

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Texas Department of Commerce
9th and Congress Streets
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Ms. Susan Tully
(512) 472-5059

#### Utah

Office of Planning & Budget State Capitol, Rm. 116 Salt Lake City, UT 84114 Ms. Scanlon Romer (801) 538-1036

#### Vermont

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#### Virginia

Virginia Employment Commission 703 East Main Street Richmond, VA 23219 Mr. Larry Robinson (804) 786-8624

#### U.S. Virgin Islands

University of the Virgin Islands Caribbean Research Institute Charlotte Amalie St. Thomas, VI 00802 Dr. Frank Mills (809) 776-9200

#### Washington

Estimation & Forecasting Unit Office of Financial Management Insurance Bldg., AQ-44 Olympia, WA 98504-0202 Mr. Michael Knight (206) 586-2504

#### West Virginia

Community Development Division Governor's Office of Community and Industrial Development Capital Complex Bldg. 6, Rm. 553 Charleston, WV 25305 Ms. Mary C. Harless (304) 348-4010

#### Wisconsin

Demographic Services Center Department of Administration 101 South Webster, Street, 6th Floor P.O. Box 7868 Madison, WI 53707-7868 Mr. Robert Naylor (608) 266-1927

#### Wyoming

Department of Administration and Fiscal Control Research & Statistics Division Emerson Building Cheyenne, WY 82002-0060 Ms. Mary Byrnes (307) 777-7505



### Appendix E. Economic Subject Specialists

A Secretary of the Control of the Co	Contact	Area code (301)
Cross-cutting Issues:		List Annual Control Control
Data on computer tape, CD-ROM, diskette:		
Data on computer tape, CD-ROM, diskette:  To order	Customer Services	763-4100
File design and use	Robert Marske	763-1792
Electronic bulletin board	Lee Bowling	763-1792
CENDATA <sup>TM</sup> , information about data included	Customer Services	
	Customer Services	763-4100
griculture:		
Crop statistics	Donald Jahnke	763-8567
Farm economics	James A. Liefer	763-8514
General information	Deborah Norton	763-1113
Irrigation and horticulture statistics	John Blackledge	763-8560
Livestock statistics	Thomas Monroe	763-8569
Puerto Rico, U.S. Virgin Islands, and Guam	Kent Hoover	763-8509
	10.100	700-0000
onstruction statistics:	_	
Census/industry surveys	Barry Rappaport	763-5435
General contactors; special trades	Andrew Visnansky	763-7546
Current programs	William Mittendorf	763-7165
Construction authorized by building permits (C40)	Linda Hoyle	763-7244
Expenditures for residential upkeep/improvements (C50)	George Boff	763-5705
New residential construction:	TANK CONTRACTOR CONTRACTOR	703-3703
Characteristics; price index; sales (C25,C27)	Steve Berman	763-7842
Housing starts (C20 series); completions (C22)	David Fondelier	763-5731
In selected MSA's (C21)	Dala Jacobson	
Value of new construction put in place (C30).	Aller Manager	763-7842
value of new construction put in place (GSO)	Allan Meyer	763-5717
ounty Business Patterns	Zigmund Decker	763-5430
mployment/unemployment statistics	Thomas Dalumba	
nterprise statistics	momas Palumbo	763-8574
liter prise statistics	Johnny Monaco	763-1758
nance, Insurance, and real estate (for 1992)	Sidney Marcus	763-1386
oreign trade data	Staff	763-5140
overnments:		
Criminal justice statistics	Diana Cull	763-7789
Eastern States government sector	Genevieve Speight	763-7783
Employment	Alan Stevens	763-5086
Federal expenditure data	David Kollerman	763-5276
Finance	Liana Mark	
Government organization, criminal justice statistics	Diagram O. II	763-7664
Toyotion	Diana Cuil	763-7789
Taxation Western States government sector	Gerard Ketter	763-5356
		763-5344
	C. Harvey Monk	763-1935
ndustries and commodities classification		
lanufacturing:	. service of contains in	703-1935
Industry data:		14 Carrier (1/1 Parisha)
Industry data:  Durables	Kenneth Hansen	
Industry data:  Durables	Kenneth Hansen	763-7304
Durables	Kenneth Hansen Michael Zampogna	
Industry data: Durables Nondurables Product data:	Kenneth Hansen Michael Zampogna	763-7304 763-2510
Industry data: Durables Nondurables Product data: Durables (Current Industrial Reports)	Kenneth Hansen Michael Zampogna	763-7304 763-2510 763-2518
Industry data: Durables. Nondurables. Product data: Durables (Current Industrial Reports) Durables (census/annual survey)	Kenneth Hansen Michael Zampogna Malcolm Bernhardt Kenneth Hansen	763-7304 763-2510 763-2518 763-7304
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Industry data: Durables . Nondurables . Product data: Durables (Current Industrial Reports) . Durables (Current Industrial Reports) . Nondurables (census/annual survey) .	Kenneth Hansen Michael Zampogna Malcolm Bernhardt Kenneth Hansen Thomas Flood	763-7304 763-2510 763-2518 763-7304
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