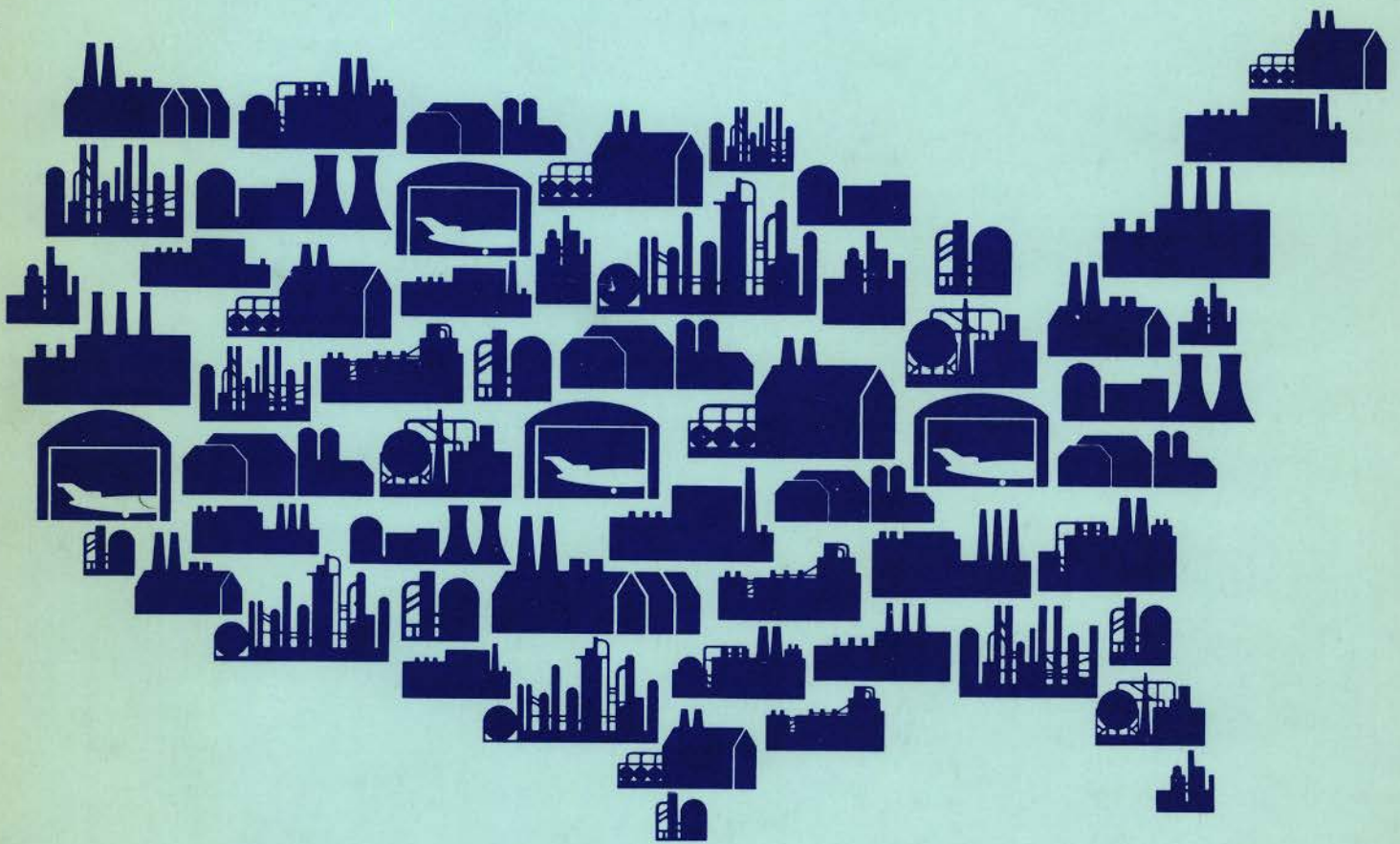
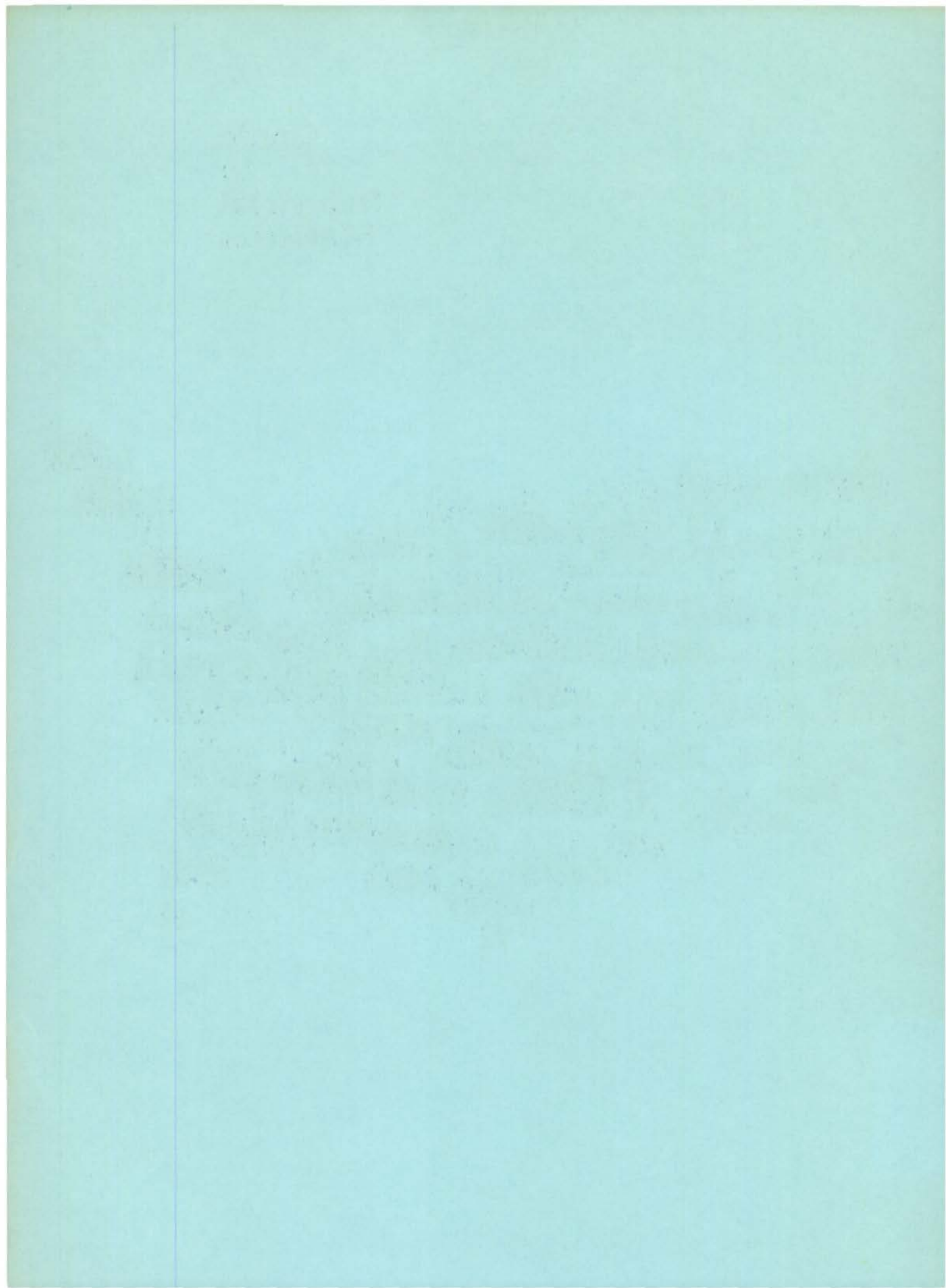


**Guide
to
Industrial
Statistics**

U.S. Department
of Commerce
BUREAU OF
THE CENSUS

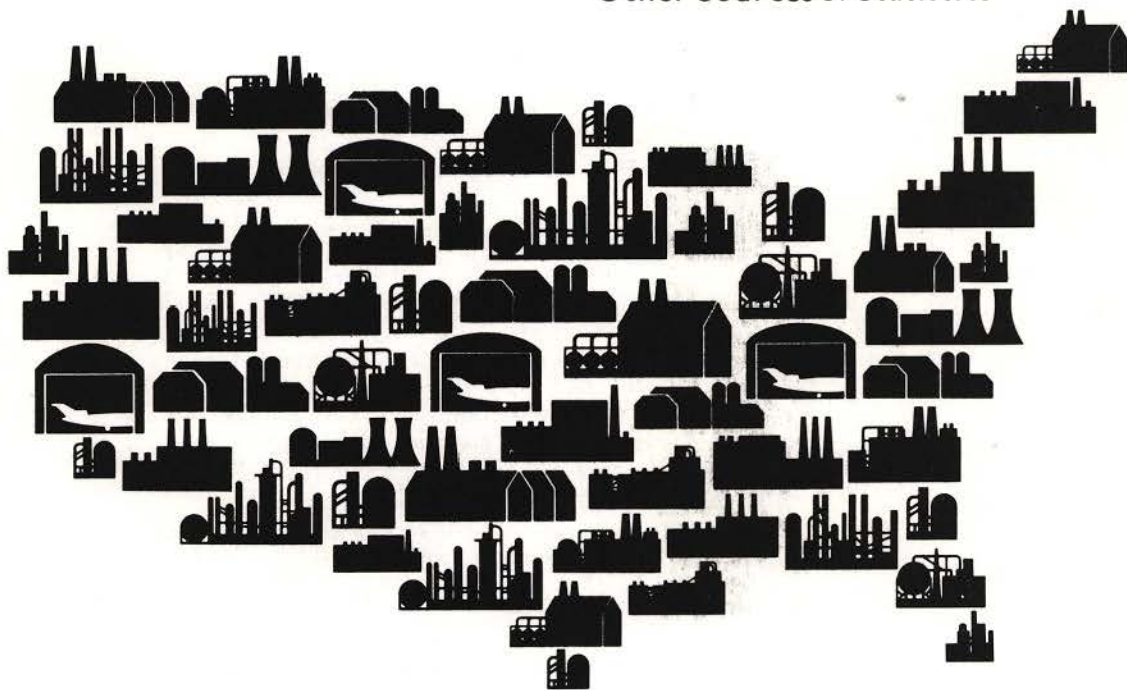


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Guide to Industrial Statistics

Industrial Statistics Program
Locator Guide to Published Data
Types of Data Presented
Publications of Major Censuses
Other Sources of Statistics



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Introduction

A. GENERAL

The Census Bureau's program of industrial statistics includes the integrated output of the Current Industrial Reports, the Annual Survey of Manufactures the quinquennial Census of Manufactures, and Census of Mineral Industries, and a number of special or supplemental surveys. In terms of the amount of information available on (1) inputs of materials, labor and capital, (2) stocks of goods, equipment and structures, and (3) gross and net output of products, this program is one of the most comprehensive in the world.

In the course of a typical 5-year period, the program results in the publication of about 25,000 pages of statistical tables, an output comparable to the Encyclopedia Britannica. Much of this material is issued on a flow basis to meet standards of timeliness. Although considerable effort is devoted to preparation of tables of contents, lists of products and materials, and indexes of individual publications, the amount of detail and the complexity of some aspects of the program make it difficult for many prospective data users to locate the facts they need without expert assistance.

The purpose of this guide is to provide such assistance. It is a revised and updated version of the publication of the same title issued in 1964.

B. BACKGROUND, PURPOSE, AND USES OF INDUSTRIAL STATISTICS

The industrial statistics program involves the compilation and dissemination of a large body of data relating to manufacturing and mining establishments. These statistics are the primary source of facts about the structure and functioning of the Nation's economy and provide information essential for government, business, industry, and the general public.

1. Industrial statistics furnish an important part of the framework for such composite measures as the gross national product, input-output accounts, and personal consumption expenditures. In forecasting and planning, these industrial statistics are especially useful for analyzing the national product in terms of the transactions that determine its size and composition. Results from the manufactures censuses provide sampling frames and serve as benchmarks for our Current Industrial Reports surveys of manufacturing activities which are essential for understanding current economic conditions and forecasting trends.

2. Management of private companies use the data to gauge potential markets, to forecast general business conditions and sales, to analyze sales performance, to lay out sales territories, to allocate advertising budgets, and to decide on locations for plants.

3. Manufacturers and distributors use the data to measure potential markets in terms of areas, kinds of business, and kinds of products.

4. Trade and professional associations use the information to study trends in their particular industries and competing lines.

5. State and local governments use industrial statistics to assess the types of business activities and changes occurring within their jurisdictions.

6. Magazines and trade journals rely on business facts as background for many of their articles.

Industrial statistics publications are purchased by thousands of businesses and other users; likewise, industrial facts are widely disseminated by trade associations, business journals, and the daily press. Reports containing industrial statistics are available in most major public and college libraries.

C. CONFIDENTIALITY

Title 13, United States code, guarantees the confidentiality of replies to Census inquiries. Census employees take an oath to protect that confidentiality. Under no circumstances will individual returns be made available to persons who are not Census Bureau employees. Data files and unpublished materials are also protected to ensure the confidentiality of the information supplied by individual business, including names and addresses of business firms. In addition, tabulations that reveal data for individual companies are not published.

D. HOW TO USE THIS PUBLICATION

Chapter I provides a general background description of each of the Bureau's industrial statistical programs. The contents and publication aspects of each program are discussed as well as the relationship to other Bureau programs.

Background information on how the Bureau groups its tabulated data is presented in chapter II. A detailed exploration of the Standard Industrial Classification (SIC) is given in section A of this chapter, and a description of the geographic levels at which data are tabulated is presented in section B.

Definitions of the data items used in the industrial statistics publications are presented in chapter III.

Information on how to locate specific data and illustrations of the data tables from the Census of Manufactures, Census of Mineral Industries, Annual Survey of Manufactures and the Current Industrial Reports are presented in chapters IV, V, VI, and VII respectively.

Because of the importance of energy related statistics, chapter VIII presents a complete summary of all industrial related energy data collected by the Census Bureau.

Information on the publication program for the 1972 Economic Censuses is provided in chapter IX.

While a tremendous amount of information is contained in the regular Bureau of the Census publication, there remains a vast unpublished potential in the Bureau's file. An almost limitless number of cross-classification and special analyses can be prepared for the data user at cost. The availability of such materials on computer tapes or printouts is explained in chapter X. In this chapter, information is also provided on how to obtain Census Bureau data from (1) depository libraries, (2) Department of Commerce district offices, or (3) U.S. Government Printing Office bookstores.

Chapter XI lists, by general reference and broad subject matter groupings, primary sources of data available from other government organizations.

To receive a publication order form for the industrial statistics publications provided by the Census Bureau, use the convenient order form provided on the inside back cover of this guide. These publication order forms are listings of the printed reports within a series by the individual series number, title, information on contents, price per copy, and price for the series.

Finally, if you have questions regarding Census Bureau industrial statistics publications, special tabulations, or surveys, please address written inquiries to:

Chief, Industry Division
Bureau of the Census
Washington, D.C. 20233

or, contact one of the following people by telephone (area code 301):

Industry Division Chief, Milton Eisen	763-5850
Special Assistant to the Chief for Program Development and Evaluation, Edward A. Robinson	763-5936
Research and Methodology, Assistant Chief, Donald F. Clark.	763-7354
Census/Annual Survey of Manufactures, Assistant Chief, Arthur W. Horowitz.	763-7666
Staff Assistant for Census, John S. Berube	763-2500
Annual Survey of Manufactures Branch, Kenneth I. Hansen	763-5566
Census/ASM Subject Reports Branch, Ruth Runyan	763-5872
Census/ASM Nondurables Branch, Michael Zampogna	763-2510
Food, Apparel, and Textiles, Tom Lee	763-5152
Wood Products and Chemical, Allen Foreman	763-5531
Census/ASM Durables Branch, Dale W. Gordon	763-7304
Machinery, Ted McGrath	763-5752
Metals, Plastic, Stone and Glass, John Govoni	763-7123
Minerals Branch, John P. McNamee	763-5938
Current Programs, Assistant Chief, John Wicoff	763-7800
Special Projects Branch, Wayne M. McCaughey	763-5616
Current Nondurables Branch, Robert J. Nealon	763-5911
Food Apparel, Textiles, Carole Klein	763-7541
Wood Products and Chemicals, John Ambler	763-7536
Current Durables Branch, Paul F. Berard	763-2518
Machinery, Kenneth E. McBeth	763-7535
Metals, Plastic, Stone and Glass, Doris B. Pope	763-2528
Operations, Assistant Chief, Howard Hamilton	763-7464
Census Programming Branch, Mary H. Johnson	763-2504
ASM Programming Branch, William Norfolk	763-2534
Current Programming Branch, John J. Bell	763-2544

FOR ADDITIONAL SOURCES OF CENSUS BUREAU DATA SEE SECTION D OF CHAPTER X.

Chapter 1. The Industrial Statistics Program of the Bureau of the Census

The Bureau's industrial statistics program is concerned with the collection of benchmark data and current measures of activity in manufacturing. To carry out this program, the Census Bureau conducts the quinquennial Census of Manufactures, the Annual Survey of Manufactures, and the Current Industrial Report series.¹ In addition to data on manufacturing, data on mining and mineral industries are collected as part of the economic census program.

A. CENSUS OF MANUFACTURES

The Census of Manufactures is the most detailed of the Bureau's industrial statistics reports. It was first taken in 1810 and thereafter, continued at 10-year, 5-year, and 2-year intervals until 1939. In the postwar period, this census has been conducted for the years 1947, 1954, 1958, 1963, 1967, and 1972 and is now scheduled to be taken every five years for the years ending in "7" and "2." Data are compiled for all manufacturing establishments with one or more paid employees. The results provide detailed statistics for small areas, benchmarks for more frequent surveys, and are the basis for many detailed studies.

Statistics for each census are first published in "preliminary" reports which are then superseded by a series of "final" reports. (More detail on the data items included in the "final" reports are provided in chapter IV.) The data is also assembled into bound volumes covering subject, industry, and area information. Each report contains detailed information for the census year and comparable summary information for earlier periods. Each volume also includes definitions of terms, explanatory text, and summary tables. To a large extent, the content and format of the census of manufactures reports have been relatively consistent since 1954, and the 1972 census follows the same general outline. The final volumes for the 1972 Census of Manufactures are listed below.

Volume I. Subject and Special Statistics

This volume comprises reports previously issued in Special Reports Series MC72(SR) and Subject Report Series MC72(1). These special and subject reports, with a brief description of the contents of each, are listed below.

Special Report Series, MC72(SR)

MC72(SR)-1—Manufacturing Activity in Government Establishments. This special report presents data on manufacturing activities for selected government establishments within the United States. These data are not included in other 1972 Census of Manufactures reports which cover privately operated establishments only.

¹For an informative discussion of how the Bureau's surveys are conducted from initiation through publication and the problems involved in the measurement of manufacturing activity, see *The Compilation of Manufacturing Statistics*, by Frank A. Hanna.

MC72(SR)-2—Concentration Ratios in Manufacturing. Eight tables provide information on concentration ratios in manufacturing. Four tables reflect the activity of the largest companies in the industrial sector as a whole. Concentration at this level is measured in terms of value added by manufacture. Another table is based on the establishment approach. A "company" is defined as the total of the individual establishments under one ownership within an industry. The same company may appear in several industries if it has diversified activities. In two other tables, shipments by product classes (5-digit) and product groups (4-digit) within the frame of the Standard Industrial Classification are shown. Company size within an industry is determined by the total value of shipments and other receipts of its establishments. The last table indicates share of selected items by selected largest companies ranked by value of shipments for each industry.

MC72(SR)-3—Type of Organization. This report provides selected statistics for operating manufacturing establishments, by type of operation and legal form of organization for various years. Also covered are selected statistics by type of operation and legal form of organization for major industry groups and industries for 1972.

MC72(SR)-4—Water Use in Manufacturing. This report contains statistics showing the use of water by manufacturing industries in 1973 with selected comparable data for 1968. Tables provide data for establishments using 20 million gallons or more annually, and include those which recirculate and those which treat discharged water. Statistics are presented by industry, Water Use Region and State.

MC72(SR)-5—Textile Machinery in Place. This report supplements the 1972 Census of manufactures data shown for SIC for Major Group 22, Textile Mill Products, in the industry report series.

For December 31, 1973, data are shown for cotton system machinery by type of machinery, by geographic area, and by type of mill; woolen, worsted, and synthetic machinery by type and by geographic area; textured yarn machinery for filament yarn preparation; broad-fabric weaving looms by type, by width of loom, by type of mill, and by geographic area; knitting machinery by type and by geographic area; textile finishing machinery by type of machine and type of mill; circular-hosiery machinery by type and by geographic area; and carpet and rug weaving looms and machines.

MC72(SR)-6—Fuels and Electric Energy Consumed. This report presents estimates of the quantity and cost of purchased fuels and electric energy used by manufacturing plants in 1971 to produce heat and power.

MC72(SR)-6S—Fuels and Electric Energy Consumed (Supplement). The supplement to the above report presents estimates of the quantity and cost of electric energy consumed for the

United States by major industry group. Figures are also included for total cost of fuels purchased by industry and for states by major industry group.

Subject Series, MC72(1)

MC72(1)-1—General Summary. This report presents general summary tables for all operating manufacturing establishments, by industry group and industry, and by geographic areas. Other tables cover major 2-digit industry groups and geographic divisions. The appendixes include explanation terms, industry descriptions, composition of industries in the 1972 Standard Industrial Classification, reporting forms, authority for census, and descriptions of standard metropolitan statistical areas.

MC72(1)-3—Manufacturers' Inventories. This report provides data on the value of beginning-of-year and end-of-year inventories, respectively, held by each manufacturing establishment. Statistics are given for industries and industry groups and for divisions and States.

MC72(1)-4—Expenditures for Plant and Equipment. This report provides detailed final statistics on manufacturers' expenditures for plant and equipment. Statistics are given for industries and industry groups and for divisions and States.

MC72(1)-5—Selected Materials Consumed. This report presents statistics on selected materials consumed in manufacturing and mineral industries. Data on selected materials consumed in all manufacturing industries as reported in the 1972 Census of Manufacturers are provided in section I. Section II shows data on cost of selected materials consumed for 141 manufacturing and 12 mineral industries obtained in a sample survey, MA-131, *Consumption of Materials, Parts, Containers, and Supplies During 1972*, and serve to supplement the data on materials consumed previously published in the final industry reports of the 1972 census.

MC(72)-7—Selected Metalworking Operations. This report provides a measurement of employment in certain metal working and related facilities in manufacturing. Data on the number of establishments and the number of workers engaged in specific metalworking operations for each of approximately 140 industries are shown in a table. The size distribution shown in the table are based on the number of production workers usually employed in the operation. The number of production workers engaged in these operations is shown for 18 selected operations by industry, and for 19 selected operations by geographic division and State in other tables. An approximation of the coverage for each industry is also given in a table.

Volume II. Industry Statistics

This volume contains separate chapters for each of the industry reports issued previously in series MC72(2). These reports present data for 450 manufacturing industries on quantity and value of products shipped and materials consumed; cost of fuels and electric energy; capital expenditures; inventories; employment; payrolls; man-hours; value added by manufacture; number of establishments; and number of companies. Data are shown for the United States, geographic regions

and States, employment-size class of establishment, and degree of primary product specialization. Tables illustrating the data shown for each of the 450 manufacturing industries presented in these volumes are shown in section C of chapter IV. Separate summary chapters are also shown for each of the 20 major industry groups. This volume is bound in three parts as follows: Part 1, Major Groups 20-26; Part 2, Major Groups 27-34; and Part 3, Major Groups 35-39.

The following is a list in SIC major group sequence of the final industry reports numbers and titles with the SIC industry and subindustry codes and titles covered by each report.

Major Group 20—FOOD AND KINDRED PRODUCTS

20A Meat Products

2011	Meatpacking plants
2013	Sausages and other prepared meats
2016	Poultry dressing plants
2017	Poultry and egg processing

20B Dairy Products

2021	Creamery butter
2022	Cheese, natural and processed
2023	Condensed and evaporated milk
2024	Ice cream and frozen desserts
2026	Fluid milk

20C Preserved Fruits and Vegetables

2032	Canned specialties
2033	Canned fruits and vegetables
2034	Dehydrated fruits, vegetables, soups
2035	Pickles, sauces, and salad dressings
2037	Frozen fruits and vegetables
2038	Frozen specialties

20D Grain Mill Products

2041	Flour and other grain mill products
2043	Cereal breakfast foods
2044	Rice milling
2045	Blended and prepared flour
2046	Wet corn milling
2047	Dog, cat, and other pet food
2048	Prepared feeds, n.e.c.

20E Bakery Products

2051	Bread, cake, and related products
2051 12	Wholesale bakeries
2051 13	Grocery chain bakeries
2051 14	Home service bakeries
2051 16	Retail multi-outlet bakeries
2052	Cookies and crackers

20F Sugar and Confectionery Products

2061	Raw cane sugar
2062	Cane sugar refining
2063	Beet sugar
2065	Confectionery products
2066	Chocolate and cocoa products
2067	Chewing gum

20G Fats and Oils

2074	Cottonseed oil mills
2075	Soybean oil mills
2076	Vegetable oil mills, n.e.c.
2077	Animal and marine fats and oils
2079	Shortening and cooking oils

20H Beverages

2082	Malt beverages
2083	Malt
2084	Wines, brandy, and brandy spirits
2085	Distilled liquor, except brandy
2086	Bottled and canned soft drinks
2087	Flavoring extracts and sirups, n.e.c.

20I Miscellaneous Foods and Kindred Products

2091	Canned and cured seafoods
2092	Fresh or frozen package fish
2095	Roasted coffee
2097	Manufactured ice
2098	Macaroni and spaghetti
2099	Food preparations, n.e.c.

Major Group 21—TOBACCO MANUFACTURES**21A Tobacco Products**

2111	Cigarettes
2121	Cigars
2131	Chewing and smoking tobacco
2141	Tobacco stemming and redrying

Major Group 22—TEXTILE MILL PRODUCTS**22A Weaving Mills**

2211	Weaving mills, cotton
2221	Weaving mills, manmade fiber and silk
2231	Weaving and finishing mills, wool
2231 11	Manufacturers' own wool
2231 51	Jobbers, commission weaving
2241	Narrow fabric mills

22B Knitting Mills

2251	Women's hosiery, except socks
2252	Hosiery, except n.e.c.
2253	Knit outerwear mills
2253 11	Manufacturers
2253 11	Converters
2253 33	Contractors
2254	Knit underwear mills
2257	Circular knit fabric mills
2257 11	Manufacturers
2257 22	Converters
2257 33	Contractors
2258	Warp knit fabric mills
2258 11	Manufacturers
2258 22	Converters
2258 33	Contractors
2259	Knitting mills, n.e.c.

22C Dyeing and Finishing Textiles, Except Wool Fabrics and Knit Goods

2261	Finishing plants, cotton
2261 11	Finishing own fabric
2261 51	Commission Finishing
2262	Finishing plants, manmade fiber and silk
2262 11	Finishing own fabric
2262 51	Commission finishing
2269	Finishing plants, n.e.c.
2269 11	Finishing own yarns
2269 51	Commission finishing

22D Floor Covering Mills

2271	Woven Carpets and rugs
2272	Tufted Carpets and rugs
2279	Carpets and rugs, n.e.c.

22E Yarn and Thread Mills

2281	Yarn mills, except wool
2282	Throwing and winding mills
2282 11	Manufactures
2282 51	Commission mills
2283	Wool yarn mills
2284	Thread mills

22F Miscellaneous Textile Goods

2291	Felt goods, except woven felts and hats
2292	Lace goods
2293	Paddings and upholstery filling
2294	Processed textile waste
2295	Coated fabrics, not rubberized
2296	Tire cord and fabric
2297	Nonwoven fabrics
2298	Cordage and twine
2299	Textile goods, n.e.c.

Major Group 23—APPAREL AND OTHER TEXTILE PRODUCTS**23A Men's and Boys' Apparel**

2311	Men's and boys' suits and coats
2311 11	Manufacturers
2311 22	Jobbers
2311 33	Independent contractors
2311 44	Multi-plant company contractors
2321	Men's and boys' shirts and nightwear
2321 11	Manufacturers
2321 22	Jobbers
2321 33	Contractors
2322	Men's and boys' underwear
2323	Men's and boys' neckwear
2327	Men's and boys' separate trousers
2327 11	Manufacturers
2327 22	Jobbers
2327 33	Independent contractors
2327 44	Multi-plant company contractors
2328	Men's and boys' work clothing
2328 11	Manufacturers
2328 22	Jobbers
2328 33	Independent contractors
2328 44	Multi-plant company contractors
2329	Men's and boys' clothing, n.e.c.

23A Men's and Boys' Apparel—Con.

2329	11	Manufacturers
2329	22	Jobbers
2329	33	Independent contractors
2329	44	Multi-plant company contractors

23B Women's and Misses' Outerwear

2331		Women's and misses' blouses and waists
2331	11	Manufacturers
2331	22	Jobbers
2331	33	Contractors
2335		Women's and misses' dresses
2335	11	Manufacturers
2335	22	Jobbers
2335	33	Contractors
2337		Women's and misses' suits and coats
2337	11	Manufacturers
2337	22	Jobbers
2337	33	Contractors
2339		Women's and misses' outerwear, n.e.c.

23C Women's and Children's Underwear, Headwear, Children Outerwear

2341		Women's and children's underwear
2341	11	Manufacturers
2341	22	Jobbers
2341	33	Contractors
2342		Brassieres and allied garments
2351		Millinery
2352		Hats and caps, except millinery
2361		Children's dresses and blouses
2361	11	Manufacturers
2361	22	Jobbers
2361	33	Contractors
2363		Children's coats and suits
2363	11	Manufacturers
2363	22	Jobbers
2363	33	Contractors
2369		Children's outerwear, n.e.c.
2369	11	Manufacturers
2369	22	Jobbers
2369	33	Contractors

23D Miscellaneous Apparel and Accessories

2371		Fur goods
2381		Fabric dress and work gloves
2384		Robes and dressing gowns
2384	11	Manufacturers
2384	22	Jobbers
2384	33	Contractors
2385		Waterproof outer garments
2385	11	Manufacturers
2385	22	Jobbers
2385	33	Contractors
2386		Leather and sheep lined clothing
2387		Apparel Belts
2389		Apparel and accessories, n.e.c.

23E Miscellaneous Fabricated Textiles Products

2391		Curtains and draperies
2392		Housefurnishings, n.e.c.
2393		Textile bags

23E Miscellaneous Fabricated Textiles Products—Con.

2394		Canvas and related products
2395		Pleating and stitching
2396		Automotive and apparel trimmings
2397		Schiffli machine embroideries
2399		Fabricated textile products, n.e.c.

Major Group 24—LUMBER AND WOOD PRODUCTS**24A Logging Camps, Sawmills, and Planning Mills**

2411		Logging camps and logging contractors
2421		Sawmills and planing mills, general
2426		Hardwood dimension and flooring
2429		Special product sawmills, n.e.c.

24B Millwork, Plywood, and Structural Wood Members, n.e.c.

2431		Millwork
2434		Wood kitchen cabinets
2435		Hardwood veneer and plywood
2436		Softwood veneer and plywood
2439		Structural wood members, n.e.c.

24C Wooden Containers and Miscellaneous Wood Products

2441		Nailed wood boxes and shooK
2448		Wood pallets and skids
2449		Wood containers, n.e.c.
2491		Wood preserving
2492		Particleboard
2499		Wood products, n.e.c.

24D Wood Buildings and Mobile Homes

2451		Mobile homes
2452		Prefabricated wood buildings

Major Group 25—FURNITURE AND FIXTURES**25A Household Furniture**

2511		Wood household furniture
2512		Upholstered household furniture
2514		Metal household furniture
2515		Mattresses and bedsprings
2517		Wood TV and radio cabinets
2519		Household furniture, n.e.c.

25B Office, Public Building, and Miscellaneous Furniture; Office and Store Fixtures

2521		Wood office furniture
2522		Metal office furniture
2531		Public building and related furniture
2541		Wood partitions and fixtures
2542		Metal partitions and fixtures
2591		Draper hardware and blinds and shades
2599		Furniture and fixtures, n.e.c.

Major Group 26—PAPER AND ALLIED PRODUCTS

26A Pulp, Paper, and Board Mills

2611	Pulpmills
2621	Papermills, except building paper
2621 12	Integrated with a pulpmill
2621 14	Not integrated with a pulpmill
2631	Paperboard mills
2631 12	Integrated with a pulpmill
2631 14	Not integrated with a pulpmill
2661	Building paper and board mills
2661 12	Integrated with a pulpmill
2661 14	Not integrated with a pulpmill

26B Converted Paper and Paperboard Products, Except Containers and Boxes

2641	Paper coating and glazing
2642	Envelopes
2643	Bags, except textile bags
2645	Die-cut paper and board
2646	Pressed and molded pulp goods
2647	Sanitary paper products
2648	Stationery products
2649	Converted paper products, n.e.c.

26C Paperboard Containers and Boxes

2651	Folding paperboard boxes
2652	Setup paperboard boxes
2653	Corrugated and solid fiber boxes
2654	Sanitary food containers
2655	Fiber cans, drums, and similar products

Major Group 27—PRINTING AND PUBLISHING

27A Newspapers, Periodicals, Books, and Miscellaneous Publishing

2711	Newspapers
2711 11	Daily
2711 13	Weekly and other
2721	Periodicals
2721 11	Publishing only
2721 13	Publishing and printing
2731	Book publishing
2731 11	Publishing only
2731 13	Publishing and printing
2732	Book printing
2741	Miscellaneous publishing
2741 11	Publishing only
2741 13	Publishing and printing

27B Commercial Printing and Manifold Business Forms

2751	Commercial printing, letterpress
2752	Commercial printing, lithographic
2753	Engraving and plate printing
2754	Commercial printing, gravure
2761	Manifold business forms

27C Greeting Cards; Bookbinding; Printing Trade Services

2771	Greeting card publishing
2782	Blankbooks and looseleaf binders
2789	Bookbinding and related work
2791	Typesetting
2793	Photoengraving
2794	Electrotyping and stereotyping
2795	Lithographic platemaking services

Major Group 28—CHEMICALS AND ALLIED PRODUCTS

28A Industrial Inorganic Chemicals

2812	Alkalies and chlorine
2813	Industrial gases
2816	Inorganic pigments
2819	Industrial inorganic chemicals, n.e.c.

28B Plastics Materials, Synthetic Rubber, and Manmade Fibers

2821	Plastics materials and resins
2822	Synthetic rubber
2823	Cellulosic manmade fibers
2824	Organic fibers, noncellulosic

28C Drugs

2831	Biological products
2833	Medicinals and botanicals
2834	Pharmaceutical preparations

28D Soap, Cleaners, and Toilet Goods

2841	Soap and other detergents
2842	Polishes and sanitation goods
2843	Surface active agents
2844	Toilet preparations

28E Paints and Allied Products

2851	Paints and allied products
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28F Industrial Organic Chemicals

2861	Gum and wood chemicals
2865	Cyclic crudes and intermediates
2869	Industrial organic chemicals, n.e.c.

28G Agricultural Chemicals

2873	Nitrogenous fertilizers
2874	Phosphatic fertilizers
2875	Fertilizers, mixing only
2879	Agricultural chemicals, n.e.c.

28H Miscellaneous Chemicals Products

2891	Adhesives and sealants
2892	Explosives
2893	Printing ink
2895	Carbon black
2899	Chemical preparations, n.e.c.

Major Group 29—PETROLEUM AND COAL PRODUCTS

29A Petroleum and Coal Products

2911	Petroleum refining
2951	Paving mixtures and blocks
2952	Asphalt felts and coatings
2992	Lubricating oils and greases
2999	Petroleum and coal products, n.e.c.

Major Group 30—RUBBER AND PLASTICS PRODUCTS

30A Rubber and Miscellaneous Plastics Products

3011	Tires and inner tubes
3021	Rubber and plastics footwear
3031	Reclaimed rubber
3041	Rubber and plastics hose and belting
3069	Fabricated rubber products, n.e.c.
3079	Miscellaneous plastics products

Major Group 31—LEATHER AND LEATHER PRODUCTS

31A Tanning; Industrial Leather Goods; and Shoes

3111	Leather tanning and finishing
3111 11	Tanneries
3111 22	Converters
3111 33	Contract tanneries
3131	Boot and shoe cut stock and findings
3142	House slippers
3143	Men's footwear, except athletic
3144	Women's footwear, except athletic
3149	Footwear, except rubber, n.e.c.

31B Leather Gloves; Luggage; and Miscellaneous Leather Goods

3151	Leather gloves and mittens
3161	Luggage
3171	Women's handbags and purses
3172	Personal leather goods
3199	Leather goods, n.e.c.

Major Group 32—STONE, CLAY, AND GLASS PRODUCTS

32A Glass Products

3211	Flat glass
3221	Glass containers
3229	Pressed and blown glass, n.e.c.
3231	Products of purchased glass

32B Cement and Structural Clay Products

3241	Cement, hydraulic
3241 02	Without a mine or quarry
3241 11	With a mine or quarry
3251	Brick and structural clay tile
3251 02	Without a mine or quarry
3251 11	With a mine or quarry
3253	Ceramic wall and floor tile
3255	Clay refractories
3259	Structural clay products, n.e.c.
3259 02	Without a mine or quarry
3259 11	With a mine or quarry

32C Pottery and Related Products

3261	Vitreous plumbing fixtures
3262	Vitreous china food utensils
3263	Fine earthenware food utensils
3264	Porcelain electrical supplies
3269	Pottery products, n.e.c.

32D Concrete, Plaster, and Cut-Stone Products

3271	Concrete block and brick
3272	Concrete products, n.e.c.
3273	Ready-mixed concrete
3273 02	Without a mine or quarry
3273 11	With a mine or quarry
3274	Lime
3274 02	Without a mine or quarry
3274 11	With a mine or quarry
3275	Gypsum products
3275 02	Without a mine or quarry
3275 11	With a mine or quarry
3281	Cut stone and stone products
3281 11	With a mine or quarry
3281 25	Without a mine or quarry

32E Abrasive, Asbestos, and Miscellaneous Nonmetallic Mineral Products

3291	Abrasive products
3292	Asbestos products
3293	Gaskets, packing and sealing devices
3295	Minerals, ground or treated
3296	Mineral wool
3297	Nonclay refractories
3299	Nonmetallic mineral products, n.e.c.

Major Group 33—PRIMARY METAL INDUSTRIES

33A Blast Furnaces, Steel Works, and Rolling and Finishing Mills

3312	Blast furnaces and steel mills
3312 11	Fully integrated
3312 12	Partially integrated with blast furnace
3312 13	Partially integrated without blast furnace
3312 14	Nonintegrated
3313	Electrometallurgical products
3315	Steel wire and related products
3316	Cold finishing or steel shapes
3317	Steel pipe and tubes

33B Ferrous and Nonferrous Foundries

3321	Gray iron foundries
3322	Malleable iron foundries
3324	Steel investment foundries
3325	Steel foundries, n.e.c.
3361	Aluminum foundries
3362	Brass, bronze, and copper foundries
3369	Nonferrous foundries, n.e.c.

33C Smelting and Refining of Nonferrous Metals and Alloys

3331	Primary copper
3332	Primary lead
3333	Primary zinc
3334	Primary aluminum
3339	Primary nonferrous metals, n.e.c.
3341	Secondary nonferrous metals

33D Nonferrous Metal Mills and Miscellaneous Primary Metal Products

3351	Copper rolling and drawing
3353	Aluminum sheet, plate, and foil
3353 11	With melting facilities
3353 12	Without melting facilities
3354	Aluminum extruded products
3354 11	With melting facilities
3354 12	Without melting facilities
3355	Aluminum rolling and drawing, n.e.c.
3355 11	With melting facilities
3355 12	Without melting facilities
3356	Nonferrous rolling and drawing, n.e.c.
3357	Nonferrous wire drawing and insulating
3357 11	With rod mill
3357 12	Without rod mill or insulating
3357 13	Without rod mill but with insulating
3357 14	Without wire drawing department
3398	Metal heat treating
3399	Primary metal products, n.e.c.

Major Group 34—FABRICATED METAL PRODUCTS**34A Metal Cans, Cutlery, Handtools, and General Hardware**

3411	Metal cans
3412	Metal barrels, drums, and pails
3421	Cutlery
3423	Hand and edge tools, n.e.c.
3425	Handsaws and saw blades
3429	Hardware, n.e.c.

34B Heating Apparatus, Except Electric and Warm Air Furnances, and Plumbing Fixtures

3431	Metal sanitary ware
3432	Plumbing fittings and brass goods
3433	Heating equipment, except electric

34C Fabricated Structural Metal Products

3441	Fabricated structural metal products
3442	Metal doors, sash, and trim
3443	Fabricated platemwork (boiler ships)
3444	Sheet metalwork
3446	Architectural metalwork
3448	Prefabricated metal buildings
3449	Miscellaneous metalwork

34D Screw Machine Products, Fasteners and Washers; Metal Forgings and Stampings; and Metal Services

3451	Screw machine products
3452	Bolts, nuts, rivets, and washers
3462	Iron and steel forgings
3463	Nonferrous forgings
3465	Automotive stampings
3466	Crowns and closures
3469	Metal stampings, n.e.c.
3471	Plating and polishing
3479	Metal coating and allied services

34E Ordnance and Accessories, n.e.c.

3482	Small arms ammunition
3483	Ammunition, except for small arms, n.e.c.
3484	Small arms
3489	Ordnance and accessories, n.e.c.

34F Miscellaneous Fabricated metal Products

3493	Steel springs, except wire
3494	Valves and pipe fittings
3495	Wire springs
3496	Miscellaneous fabricated wire products
3497	Metal foil and leaf
3498	Fabricated pipe and fittings
3499	Fabricated metal products, n.e.c.

Major Group 35—MACHINERY, EXCEPT ELECTRICAL**35A Engines and Turbines and Farm Machinery and Equipment**

3511	Turbines and turbine generator sets
3519	Internal combustion engines, n.e.c.
3523	Farm machinery and equipment
3524	Lawn and garden equipment

35B Construction, Mining, and Materials Handling Machinery and Equipment

3531	Construction machinery
3532	Mining machinery
3533	Oilfield machinery
3534	Elevators and moving stairways
3535	Conveyors and conveying equipment
3536	Hoists, cranes, and monorails
3537	Industrial trucks and tractors

35C Metalworking Machinery and Equipment

3541	Machine tools, metal-cutting types
3542	Machine tools, metal-forming types
3544	Special dies, tools, jigs, and fixtures
3545	Machine tool accessories
3546	Power-driven handtools
3547	Rolling mill machinery
3549	Metalworking machinery, n.e.c.

35D Special Industry Machinery, Except Metalworking Machinery

3551	Food products machinery
3552	Textile machinery
3553	Woodworking machinery
3554	Paper industries machinery
3555	Printing trades machinery
3559	Special industry machinery, n.e.c.

35E General Industrial Machinery and Equipment

3561	Pumps and pumping equipment
3562	Ball and roller bearings
3563	Air and gas compressors
3564	Blowers and fans
3565	Industrial patterns
3566	Speed changers, drives, and gears
3567	Industrial furnances and ovens
3568	Power transmission equipment, n.e.c.
3569	General industrial machinery, n.e.c.

35F Office, Computing, and Accounting Machines

3572	Typewriters
3573	Electronic computing equipment
3574	Calculating and accounting machines
3576	Scales and balances, except laboratory
3579	Office machines, n.e.c.

35G Service Industry Machines and Machine Shops

- 3581 Automatic merchandising machines
- 3582 Commercial laundry equipment
- 3585 Refrigeration and heating equipment
- 3586 Measuring and dispensing pumps
- 3589 Service industry machinery, n.e.c.
- 3592 Carburetors, pistons, rings, valves
- 3599 Machinery, except electrical, n.e.c.

Major Group 36—ELECTRIC AND ELECTRONIC EQUIPMENT**36A Electrical Measurement and Distribution Equipment**

- 3612 Transformers
- 3613 Switchgear and switchboard apparatus
- 3621 Motors and generators
- 3622 Industrial controls
- 3623 Welding apparatus, electric
- 3624 Carbon and graphite products
- 3629 Electrical industrial apparatus, n.e.c.

36B Household Appliances

- 3631 Household cooking equipment
- 3621 Household refrigerators and freezers
- 3633 Household laundry equipment
- 3634 Electric housewares and fans
- 3635 Household vacuum cleaners
- 3636 Sewing machines
- 3639 Household appliances, n.e.c.

36C Electric Lighting and Wiring Equipment

- 3641 Electric lamps
- 3643 Current-carrying wiring devices
- 3644 Noncurrent-carrying wiring devices
- 3645 Residential lighting fixtures
- 3646 Commercial lighting fixtures
- 3647 Vehicular lighting equipment
- 3648 Lighting equipment, n.e.c.

36D Communication Equipment, Including Radio and TV, and Electronic Components and Accessories

- 3651 Radio and TV receiving sets
- 3652 Phonograph records and prerecorded magnetic tapes
- 3661 Telephone and telegraph apparatus
- 3662 Radio and TV communication equipment
- 3671 Electron tubes, receiving type
- 3672 Cathode ray television picture tubes
- 3673 Electron tubes, transmitting
- 3674 Semiconductors and related devices
- 3675 Electronic capacitors
- 3676 Electronic resistor
- 3677 Electronic coils and transformers
- 3678 Electronic connectors
- 3679 Electronic components, n.e.c.

36E Miscellaneous Electrical Equipment and Supplies

- 3691 Storage batteries
- 3692 Primary batteries, dry and wet
- 3693 X-ray apparatus and tubes
- 3694 Engine electrical equipment
- 3699 Electrical equipment and supplies, n.e.c.

Major Group 37—TRANSPORTATION EQUIPMENT**37A Motor Vehicles and Equipment**

- 3711 Motor vehicles and car bodies
- 3713 Truck and bus bodies
- 3714 Motor vehicle parts and accessories
- 3715 Truck trailers

37B Aerospace Equipment, Including Parts

- 3721 Aircraft
- 3724 Aircraft engines and engine parts
- 3728 Aircraft equipment, n.e.c.
- 3761 Guided missiles and space vehicles
- 3764 Space propulsion units and parts
- 3769 Space vehicle equipment, n.e.c.

37C Ship and Boat Building, Railroad and Miscellaneous Transportation Equipment

- 3731 Ship building and repairing
- 3732 Boat building and repairing
- 3743 Railroad equipment
- 3751 Motorcycles, bicycles, and parts
- 3792 Travel trailers and campers
- 3795 Tanks and tank components
- 3799 Transportation equipment, n.e.c.

Major Group 38—INSTRUMENTS AND RELATED PRODUCTS**38A Engineering, Measuring and Controlling, and Optical Instruments**

- 3811 Engineering and scientific instruments
- 3822 Environmental controls
- 3823 Process control instruments
- 3824 Fluid meters and counting devices
- 3825 Instruments to measure electricity
- 3829 Measuring and controlling devices, n.e.c.
- 3832 Optical instruments and lenses

38B Medical Instruments; Ophthalmic Goods; Photographic Equipment; Clocks, Watches, and Watchcases

- 3841 Surgical and medical instruments
- 3842 Surgical appliances and supplies
- 3843 Dental equipment and supplies
- 3851 Ophthalmic goods
- 3861 Photographic equipment and supplies
- 3873 Watches, clocks, and watchcases

Major Group 39—MISCELLANEOUS MANUFACTURING INDUSTRIES**39A Jewelry, Silverware, and Plated Wire**

- 3911 Jewelry, precious metal
- 3914 Silverware and plated ware
- 3915 Jewelers' materials and lapidary work

39B Musical Instruments and Parts; Toys and Sporting Goods

- 3931 Musical instruments
- 3942 Dolls

39B—Musical Instruments and Parts; Toys and Sporting Goods—Con.

- 3944 Games, toys, and children's vehicles
- 3949 Sporting and athletic goods, n.e.c.

39C Office Supplies, Costume Jewelry, and Notions

- 3951 Pens and mechanical pencils
- 3952 Lead pencils and art goods
- 3953 Marking devices
- 3955 Carbon paper and inked ribbons
- 3961 Costume jewelry
- 3962 Artificial flowers
- 3963 Buttons
- 3964 Needles, pins, and fasteners

39D Miscellaneous Manufactures

- 3991 Brooms and brushes
- 3993 Signs and advertising displays
- 3995 Burial caskets
- 3996 Hard-surface floor coverings
- 3999 Manufacturing industries, n.e.c.

Volume III. Area Statistics

This volume consists of a separate chapter for each State and the District of Columbia, presenting data previously issued in Series MC72(3). Each chapter contains general statistics (number of establishments, employment, payrolls, value added by manufacture, value of shipment, and capital expenditures) for each State and selected standard metropolitan statistical areas, counties and cities. For selected SMSA's and larger counties and cities, data are shown by industry groups. Tables illustrating the data shown for State presented in these volumes are shown in section C of chapter IV. This volume is bound in two parts as follows: Part 1, Alabama—Montana; and Part 2, Nebraska—Wyoming. Part 1 also includes separate summary chapters for each of the nine geographic divisions.

Volume IV. Indexes of Production

Based on the Censuses of Manufactures and Mineral Industries for 1967 and 1972, this report furnishes and compares data on the physical volume of manufacturing and mining activity.

Included are all mining market categories, major and minor industry groups, and the 493 individual industries. Also included are general-purpose industry indexes based on value-added weights, and special-purpose indexes applying other weighting systems such as value of shipments and electric energy used.

Location of Manufacturing Plants Tapes.

The location of Manufacturing Plants tapes provide information on the number of manufacturing establishments in each of the 450 manufacturing industries, classified according to their employment-size class and the State and county within which they are located. Each logical record is associated with a particular industry (4-digit SIC) and a particular county (or State or U.S. summary) and contains the number of establish-

ments in seven employment-size categories: 1-19, 20-49, 50-99, 100-249, 250-499, 500-999, and 1,000 employees or more. There is a record for each industry-county or industry-State combination with one or more manufacturing plants. Technical detail regarding these tapes is provided in sections B-2. of chapter X.

B. CENSUS OF MINERAL INDUSTRIES

The Census of Mineral Industries is the most detailed of the Bureau's industrial statistics surveys. It was first taken in 1840 and thereafter continued at 10-year, 5-year, and 2-year intervals until 1939. In the postwar period, this census has been conducted for the years 1954, 1958, 1963, 1967, and 1972 and is now scheduled to be taken every 5 years for the years ending "7" and "2". Data are compiled for all mining establishments with one or more paid employees.

Statistics for each census are first published in "preliminary" reports which are then superseded by a series of "final" reports. (More detail on the data items included in the "preliminary" and "final" reports is provided in chapter V.) The data are also assembled into a bound volume covering subject, industry, and area information. The volume contains detailed information for the census year and comparable information for earlier periods. The volume also includes definitions of terms, explanatory text, and summary tables. To a large extent, the contents and format of the Census of Mineral Industries reports have been relatively consistent since 1954, and the 1972 census follows the same general outline. The final volume for the 1972 Census of Mineral Industries is comprised of reports previously issued in series MIC72(1) final industry and subject reports and MIC72(2) final area reports.

Subject Reports

The following is a listing of the subject reports with a brief description of the contents of each.

MIC72(1)-1—General Summary.

This report presents general summary tables for all operating mineral establishments, by industry group and industry, and by geographic areas. The appendixes include explanation of terms, industry descriptions, composition of industries in the 1972 Standard Industrial Classification, reporting forms, authority for census, and an alphabetic index of products and services of mineral establishments.

MIC72(1)-2—Water Use in Mineral Industries.

This report contains statistics showing the use of water by mineral industries in 1973 with selected comparable data for 1968. Tables provide data for establishments using 20 million gallons or more annually, and include those which recirculate and those which treat discharged water. Statistics are presented by industry, water use region, and State.

MIC72(1)-3—Expenditures for Plant and Equipment.

This report provides detailed final statistics on capital expenditures for plant and equipment by mineral establishments. Statistics are given for industries and industry groups and for divisions and States.

MIC72(1)-4—Type of Operation

This report provides selected statistics for mineral establishments by type of operation for major industry groups, industries, and geographic areas for 1972. Also, general statistics for nonproducing establishments are presented by industry group and industry for 1972 and 1967.

MIC72(1)-5—Fuels and Electric Energy Consumed

This report presents estimates of the quantity and cost of purchased fuels and electric energy used by mineral establishments in 1972 to produce heat and power. The statistics are presented for industries and geographic areas.

MIC72(1)-6—Type of Organization.

This report provides general statistics for operating mineral establishments, by type of company organization and ownership by industry for 1972.

Industry Reports

Industry reports include separate chapters for individual industries or a group of related industries. Each industry chapter furnishes statistics for the United States on number of companies; number of establishments; employment; man-hours; payrolls; value added in mining; quantity and value of products shipped and supplies used; quantity and cost of fuels and electric energy purchased as well as the quantities of fuels produced and consumed; cost of contract work; cost of purchased machinery; capital expenditures; and gross value of assets. Selected comparable figures are included for earlier years. Detailed statistics are shown by geographic division and State and type of operation. Selected statistics are shown by size of establishment.

The following is a list in SIC major group sequences of the final industry report numbers and titles with the four-digit SIC industry codes and titles covered by each report.

Major Group 10—METAL MINING**10A Iron Ore**

1011 Iron ores

10B Copper, Lead, Zinc, Gold and Silver Ores

1021 Copper ores
1031 Lead and zinc ores
1041 Gold ores
1044 Silver ores

10C Bauxite and Ferroalloy Ores, Except Vanadium

1051 Bauxite and other aluminum ores
1061 Ferroalloy ores, except vanadium

10D Metal Mining Services; Miscellaneous Metal Ores

1081 Metal mining services
1092 Mercury ores
1094 Uranium - vanadium - vanadium ores
1099 Metal ores, n.e.c.

Major Group 11—ANTHRACITE MINING**11A Anthracite Mining**

1111 Anthracite
1112 Anthracite mining services

Major Group 12—BITUMINOUS COAL AND LIGNITE MINING**12A Bituminous Coal and Lignite Mining**

1211 Bituminous coal and lignite
1213 Bituminous coal and lignite mining services

Major Group 13—OIL AND GAS EXTRACTION**13A Oil and Gas Field Operation**

1311 Crude petroleum and natural gas

13B Natural Gas Liquids

1321 Natural gas liquids

13C Oil and Gas Field Services

1381 Drilling oil and gas wells
1382 Oil and gas exploration services
1389 Oil and gas field services, n.e.c.

Major Group 14—MINING AND QUARRYING OF NON-METALLIC MINERALS, EXCEPT FUELS**14A Stone**

1411 Dimension stone
1422 Crushed and broken limestone
1423 Crushed and broken granite
1429 Crushed and broken stone, n.e.c.

14B Sand and Gravel

1442 Construction sand and gravel
1446 Industrial sand

14C Clay, Ceramic, and Refractory Minerals

1452 Bentonite
1453 Fire clay
1454 Fuller's earth
1455 Kaoline and ball clay
1459 Clay, ceramic, and refractory minerals, n.e.c.

14D Chemical and Fertilizer Mineral Mining

1472 Barite
1473 Fluorspar
1474 Potash, soda, and borate minerals
1475 Phosphate rock
1476 Rock salt
1477 Sulfur
1479 Chemical and fertilizer mineral mining, n.e.c.

14E Nonmetallic Minerals Services; Miscellaneous Non-metallic Minerals

1481 Nonmetallic minerals (except fuel) services
1492 Gypsum
1496 Talc, Soapstone, and pyrophyllite
1499 Miscellaneous nonmetallic minerals, n.e.c.

Area Reports

Separate chapters for each of the nine geographic divisions are also provided. Each chapter contains statistics for the States within the division with comparable figures for earlier years. Figures are given for each of the 42 mining industries, insofar as they have operations in the State, and for 2- and 3-digit industry groups by type of operation and county. Statistics are shown for the following items: value of shipments; value added by

mining; employment; payrolls; man-hours; capital expenditures; cost of supplies; and number of establishments. Technical appendixes are also provided.

C. ANNUAL SURVEY OF MANUFACTURES

The Annual Survey of Manufactures has been taken annually since 1949 for intercensal years. This survey carries forward the key measures of manufacturing activity that are covered in more detail every 5 years in the census of manufactures. It provides, during intercensal periods, basic statistics which serve as benchmarks for current business comparisons and as measures of industrial production and productivity. Statistics are presented for industries, industry groups, and geographic areas—divisions, States, standard metropolitan statistical areas, for large industrial counties and large industrial cities.

The data for each survey are first released in separate reports. (More detail on the data items included in these reports are provided in chapter VI.) and then incorporated into a bound volume. Data for future ASM years will be issued in publications similar to those shown for 1975. The 1975 reports are as follows:

General Statistics for Industry Groups and Industries (M75(AS)-1)

Data for industry groups and industries on employment, man-hours, payrolls, value added by manufacture, capital expenditures, cost of materials, and of year inventories, and value of industry shipments. A supplementary table presents a regrouping of the industry statistics into aggregates which are more market-oriented than the Standard Industrial Classification 2-digit groupings. Data are also presented for supplement labor cost (legally required and voluntary) for 1975 and 1974 by industry groups and industry.

Value of Manufacturers' Inventories (M75(AS)-2)

Estimates of the value of product shipments during 1975, for approximately 1,300 classes of manufactured products are shown. Quantity figures are also shown for selected classes of products.

Value of Manufacturers' Inventories (M75(AS)-3)

The value of inventories held by manufacturing establishments at the beginning and end of 1975 are shown. Data include a distribution of inventory data by (1) finished products, (2) work in process, and (3) materials, supplies, fuels, etc. Inventory figures are shown for all individual (4-digit) manufacturing industries, for subgroups (3-digit), and for all major industry groups (2-digit).

Fuels and Electric Energy Consumed (M75(AS)-4)

Estimates of the total cost of fuels, quantity and cost of electric energy generated and used in manufacturing plants are given in this report. Statistics are shown by major industry groups and industries and by States and standard metropolitan statistical areas.

Manufacturers' Expenditures for New Plant and New Equipment and Book Value of Fixed Assets and Rental Payments for Building and Equipment (M75(AS)-5)

Estimates of (1) expenditures for new plant and new equipment (2) gross book value of depreciable assets and (3) rental payments are provided in this report. Separate figures for these items are shown for (a) permanent additions and major alterations to manufacturing establishments and (b) new machinery and equipment used as replacements or additions and which are of the type for which depreciation accounts are ordinarily maintained. Data for these categories are provided for major industry groups and industries.

Statistics for States, Standard Metropolitan Statistical Areas, Large Industrial Counties and Selected Cities (M75(AS)-6)

Statistics included are employment, payrolls, manhours, value added by manufacture, cost of materials, value of industry shipments and inventories, and new capital expenditures. The report contains (a) statistics for the State, standard metropolitan statistical areas, large industrial counties, and selected cities, (b) statistics for the State by industry group and industry, and (c) statistics for standard metropolitan statistical areas with 40,000 or more manufacturing employees, by industry group.

Industry Profiles (M75(AS)-7)

This chapter provides a basic data series relating to employment, payrolls, man-hours, value of industry shipments, value added by manufacturer, capital expenditures, inventories, assets and selected ratios. These data are provided by industry for the period 1972-1975. This publication is only available on microfiche.

D. CURRENT INDUSTRIAL REPORTS

The Bureau supplements the product data collected in the annual surveys and censuses of manufactures with current measures of manufacturing productivity. Two surveys, "Manufacturers' Shipments, Inventories, and Orders" and "Manufacturers' Export Sales and Orders," relate to the overall manufacturing economy while most of the remaining monthly, quarterly, and annual commodity surveys published in the Current Industrial Reports series cover a wide range of products. Production and shipments are the two most common items collected in the commodity reports, but measures such as orders and inventories are also collected in a number of surveys.

A complete list of Current Industrial Reports with a summary of the types of information collected on each is present in chapter VII.

Series M3-1, Manufacturers' Shipments, Inventories, and Orders

Figures with and without seasonal adjustment are published for about 45 detailed industry categories, 6 market categories, and 3 supplementary categories. The two latter groupings are designed to provide a breakdown between final products and materials and a further division of final products between consumer goods and equipment for business and government use. Ratios of inventories to shipments and unfilled orders to shipments are also published.

A benchmark report *Manufactures' Shipments, Inventories and Orders, 1958-1976*, provides a detailed discussion of the features of this survey. These include the use of the annual survey of manufactures as the benchmark, coverage, sample design, industry reporting, seasonal factors, and market groupings.

Periodically this report is updated to reflect the benchmarking of the monthly data to the Annual Survey of Manufactures and a recomputation of seasonal adjustment factors. This report was most recently issued in December 1976 when the survey was benchmarked to the 1973 Annual Survey of Manufactures.

Series M4-A, Manufacturers' Export Sales and Orders of Durable Goods

Monthly series covers estimates of manufacturers' export new and unfilled orders and export sales of durable goods for selected durable goods industries.

E. OTHER INDUSTRIAL STATISTICS REPORTS

The Bureau also conducts other major economic studies which make extensive use of the basic industry data collected by the Bureau. These studies have resulted in the following reports:

County Business Patterns

This series of annual reports—one for each State, the District of Columbia, and a U.S. summary—is of particular interest to business and industry. The reports are derived from employment and payroll information reported on Treasury Form 941, Schedule A, supplemented by a special survey of selected multiunit employers. The series is useful for analyzing market potential and the industrial structure of regions, making basic economic studies, measuring effectiveness of sales and advertising programs, etc. Statistics shown are employment and taxable payrolls and the number and employment-size class of reporting units by detailed industry (4-digit SIC) for States and counties and by major industry group (2-digit SIC) for SMSA's. In addition to the printed reports, computer tapes containing the same county data published in the reports and also data for unpublished industries are available for purchase from the Bureau.

Raw Materials in the United States Economy: 1900-1969—Working Paper No. 35

This study provides statistics on production, imports, exports, consumption, and prices of raw materials in the United

States for 1900-1969. The report revises and extends statistical series first published in Working Paper No. 1, *Raw Materials in the United States Economy: 1900-1952 and Working Papers No. 9, 1900-1961*.

In general design, this report is similar to Working Paper No. 1 and No. 5. However, extensive revisions and refinements have been made in the basic statistical series and several new topics are discussed in the text. The production, imports, exports, and consumption series are presented in constant dollar aggregates. The revised price indexes use four weight-base periods distributed over the six decades rather than a single weight-base periods as in the previous report.

The basic measures are in terms of industrial origin of the materials and also, for consumption and prices, in terms of the purpose for which the materials are used.

Summary tables show separate series for 14 industrial classifications of raw materials and include broader summaries for "agriculture materials," "fishery and wildlife products," "forest products," and "minerals." The use-classification tables for consumption show separately seven series aggregated to "foods," "energy materials," and "physical-structure materials." Detailed tables are included for classes of mineral products.

Research and Development Statistics

Since 1958, the Census Bureau has included, as part of its basic industrial statistics program, figures on total research and development expenditures by industrial concerns and a separate figure on Federal research and development performed in industry. (The difference represents substantially company-initiated research and development.) These company research and development figures include the receipts of manufacturing establishments for Federal research and development in the important missile and aircraft areas. Receipts by manufacturing plants for this type of work have also been classified as manufacturing activities and included for many years in the annual survey of manufactures.

The detailed company survey reports of research and development are collected and compiled by the Census Bureau for the National Science Foundation. The annual surveys provide economic data on the magnitude, financing, and other characteristics of research and development in industrial firms. Included are estimates of research and development by source of funds, research and development by type—basic research, applied research, and development (the bulk and generally 75 percent or more of the total cost is development). Data are also obtained on major industrial fields of research and development work within the company program.

Research and development concepts are subjective and generally the accounts of individual companies do not isolate research and development in any standard fashion. Consequently, in the annual survey of research and development, chief reliance is placed on year-to-year change data obtained through the shuttle reports used in the series. The National Science Foundation publishes the results as part of its Survey of Science Resources Series, "Research and Development in Industry."

Mergers and Acquisitions

This report on mergers and acquisitions is divided into two parts. Part 1 covers large multiunit companies (i.e. companies with 2,500 or more employees and more than one establishment) which were within the scope of the 1967 Economic Censuses and which acquired other companies in whole or in part during the period 1968 to 1971. Part 2 covers ownership changes of large manufacturing establishments (i.e. establishments with 250 or more employees) during each of the years 1968, 1969, and 1970. The statistical information contained in this report represents only partial coverage of total domestic merger and acquisition activity during the years in question. A similar study was also performed for the years 1964-1967.

Enterprise Statistics

The enterprise statistics program is a statistical byproduct of the Census Bureau's regular economic censuses program.

This program involves the regrouping of census data records of establishments under common ownership or control in order to show various economic characteristics of the owning or controlling firms.

Statistics for the enterprise-establishment relationships are tabulated by type of company organization, by company size, and by industry classification, as well as by cross tabulations which indicate company industrial diversification patterns. One special group of establishments, central administrative offices and auxiliaries, are examined in detail in a separate publication; and in another separate publication, a statistical link is developed between census establishment data and corporation data compiled by the Internal Revenue Service (IRS). Additional details on the data provided in this publication series are shown in section I of chapter IX.

Chapter II. Definitions for Industrial Classifications and Geographic Areas

A. CLASSIFICATION OF TABULATED DATA

1. The SIC System and Establishment/Company Classifications

The Census Bureau defines the scope of its surveys and tabulates the results of these surveys on the basis of the Standard Industrial Classification (SIC) system, as defined by the Executive Office of the President, Office of Management and Budget. The SIC system is used in the classification of establishments by type of activity in which they are engaged; it facilitates the collection, tabulation, presentation, and analysis of data relating to establishments. The SIC also promotes uniformity and comparability in the presentation of statistical data collected by various Federal Government agencies, State agencies, trade associations, and private research organizations.

The SIC divides the Nation's economic activities into ten broad industrial divisions¹ (generally identified by the first digit of the codes), 2-digit major groups, 3-digit industry subgroups, and 4-digit detailed industries. For example:

Division	0	Agriculture, Forestry, and Fishing
Major Group	01	Agriculture Production - Crops
Industry Subgroup	011	Cash Grains
Detailed Industry	0111	Wheat

In some instances, an even more detailed classification has been devised explicitly for census purposes so that additional industries, kinds of business, or specific products can be identified within the SIC categories. For example, the Census Bureau has developed a system of classifying manufactured products into approximately 1,300 5-digit product classes and 10,000 7-digit products consistent with the SIC system.

Statistics for the economic censuses are collected and summarized for publication primarily in terms of the establishment. An establishment, as defined for census purposes, is a business or industrial unit at a single physical location which produces or distributes goods, or performs services.

The structure of the classification is such that, depending on the level of industry detail called for (and consistent with confidentiality requirements) the Bureau can tabulate, analyze, and publish establishment data on an industry code basis—and in some instances, for census derived subdivisions within 4-digit industries.

Data published for the 1972 Economic Censuses are based on the 1972 revised edition of the *Standard Industrial Classifi-*

cation Manual. In the 1972 revision, a number of additional separate industries were recognized and smaller industries were eliminated; the definitions of many of the industries within the scope of the economic censuses were modified by shifting products and services from one industry to another within each SIC Division.

When more than one business is conducted at a single location, each business under separate ownership is regarded as a separate establishment. Furthermore, if substantially different kinds of business are conducted by a firm at a single location, each kind of business is treated as a separate establishment if separate records are available and if the size of the activities is significant.

A separate report is obtained for each establishment at which a company operates a business whose primary activity falls within the scope of the economic censuses. (A company, as the term is used in the economic censuses, is a business organization consisting of one or more establishments under common ownership or control. If a company owns or controls other companies, all establishments of its subsidiaries are included as part of the owning or controlling company.) In addition, establishments functioning primarily to manage, service, or support the activities of the operating establishments of those companies are also identified and included in the censuses as central administrative offices and auxiliaries.²

Each establishment covered in the 1972 Economic Censuses is assigned an industry or kind-of-business code in accordance with the 1972 edition of the SIC Manual. Because the revision of the SIC Manual was in process during the time that mailing lists for establishments in the mailout portion of the 1972 Economic Censuses were being coded, a 1967 base SIC code was used to determine which questionnaire should be mailed to each establishment. Based on the information reported on the questionnaire by the establishment, the 1967 code was converted to a 1972 SIC base code. A derived 1972 SIC code was assigned to each establishment for which information for the census is obtained from administrative records. Approximately 900 SIC industries (4-digit codes) were considered to be within the scope of the 1972 Economic Censuses. With only a few exceptions, the 4-digit industry codes assigned to establishments in the 1972 censuses are identical in code and definition to those listed in the SIC Manual.

After the census, each *company* covered in the 1972 Economic Censuses was classified in one of approximately 200 designated enterprise or company industry categories. Each of these categories, specifically designed for use in the enterprise statistics publication series, is a grouping of 4-digit

¹SIC major economic divisions: (A) Agriculture, forestry, fishing, hunting, and trapping; (B) mining; (C) construction; (D) manufacturing; (E) transportation, communication, electric, gas, and sanitary services; (F) wholesale trade; (G) retail trade; (H) finance, insurance, and real estate; (I) personal, business, repair, and other services; (J) public administration; and (K) nonclassifiable establishments.

²A Central Administrative Office (CAO) and an auxiliary unit are establishments whose employees are primarily engaged in general administrative, supervisory, purchasing, accounting; general engineering and systems planning; legal, financial, and patent matters; central warehouses for company's own merchandise; or other related management functions and supportive services performed centrally for other establishments of the same company, rather than for the general public or for other business firms.

SIC industries. These groupings have been made in order to adapt the 4-digit SIC classification system to an industrial classification system that is conceptually meaningful for consolidated company aggregates of the establishment data collected in the economic censuses. For this purpose, various economic and statistical criteria were developed that were considered to be the most relevant in describing the economic characteristics of enterprises rather than establishments.

Procedures have been developed for coding single- and multi-industry companies. For the single-establishment or single-unit company—a company with one establishment engaged in economic activities—the industry category classification is simply the enterprise category that is the equivalent of the single industry 4-digit SIC code in which the company is engaged. (Thus, for a single-unit company, the terms “company” and “establishment” are synonymous.) A multiunit or multi-establishment company—a company with two or more establishments engaged in economic activities—is coded in one of two ways. Multiestablishment single-industry companies are assigned enterprise industry categories in the same manner as single-establishment companies. For multiestablishment multi-industry companies, the classification represents the largest enterprise industry category within the largest SIC industry division of each company. (Both the industry category and the division are determined on the basis of payroll data.)

2. Industry and Commodity Reference Publications

This section lists the various industry and commodity reference manuals used to classify establishments included in census publications.

Standard Industrial Classification Manual (1972 Edition)³

The scope of the economic programs conducted by the Industry Division covers those activities in the mining and manufacturing SIC divisions as defined in SIC major groups 10-14 and major groups 20-39 respectively. The structure of the SIC makes it possible to classify establishments by industry and to tabulate, analyze, and publish data on a division, a 2-digit, a 3-digit, or a 4-digit industry code basis according to the level of industrial detail considered most appropriate. Within the structure the Industry Division utilizes 5-digit product class codes and 7-digit product codes. These codes are extensions of the SIC structure. The product classes represent an intermediate level of product coding between the SIC Manual 4-digit and Bureau of the Census 7-digit product coding. Seven-digit codes are assigned by the Bureau of the Census to each product or service. The classification system operates so that the industrial coverage is progressively narrower with the successive addition of digits. This is illustrated as follows:

SIC code	Level	Description
20	Major industry group	Food and kindred products
201	Industry group	Meat products
2011	Industry	Meat packing plants
20111	Product class	Beef not canned or made into sausage
20111 12	Product	Whole carcass beef, from animals slaughtered at the same plant

The contents of this manual are displayed in the following tables: (1) the 2-, 3-, and 4-digit industry levels defined, (see example A) (2) a portion of the alphabetic index, manufacturing industries, (see example B), (3) the relation of 1972 to 1967 SIC industries, (see example C) and (4) the relation of 1967 to 1972 SIC industries (see example D).

Numerical List of Manufactured Products—Census of Manufactures⁴

This manual contains approximately 6,000 products and services of the manufacturing industries. Each of the products listed is coded to seven digits and is shown within the product class (5-digit) of which it is a part, and within the industry (4-digit) of which it is primary. The manual also contains the titles of the 3-digit groups and 2-digit major groups of which the industries, product classes, and products are part. The type of information collected in the 1972 census (production, shipments, etc.) is also shown for each product or service listed. For the 1972 Census of Manufactures, the forms used for reporting carry product codes based on the 1967 version of the SIC. During the processing of reported data, with a view to publication of statistics for 1972, the Bureau of the Census converted the earlier version of the product codes to the new (1972) version of the SIC. In addition to the revisions in the 4-digit industry levels in the SIC, the Bureau of the Census undertook extensive revisions in the 5-digit product classes. Some of the 5-digit revisions were necessitated by the changes occurring in the SIC itself, others were instituted to reflect changing technology and need for improvement of quality of data published.

In addition to collecting data for 6,000 products and services as part of the Census of Manufactures, data for approximately 5,000 additional products are obtained on approximately 100 monthly, quarterly, and annual Current Industrial Reports. (For more detail on these surveys see chapter VII.) The product detail collected on the Current Industrial Reports is shown in appendix A of the numerical coding manual.

The contents of this manual are displayed in the following tables: (1) Census products in 1972 SIC numerical sequence (see example E); (2) Monthly Current Industrial Reports products in 1972 SIC numerical sequence (see example F); (3) Quarterly Current Industrial Reports products in 1972 SIC numerical sequence (see example G); (4) Annual Current Industrial Reports products in 1972 SIC numerical sequence (see example H); and (5) 1972 SIC product codes and 1967 SIC equivalents (see example I).

⁴ This publication is entitled “Numerical List of Manufactured Products—(New(1972) SIC Basis) Census of Manufactures (MC72-1.2) Prepared and published by the Bureau of the Census. For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C., 20402 or any of the U.S. Department of Commerce district offices. Price: \$4.00.

³ The manual was prepared by the Technical Committee on Industrial Classification, Office of Management and Budget, Executive Office of the President and is for sale by the Superintendent of Documents, U.S. Government Printing Office. Price \$8.80.

Numerical List of Mineral Products-Census of Mineral Industries⁵

This manual contains approximately 200 products and services of the mineral industries. The presentation of these products and service codes are the same as described in the manufactures section, shown in B above.

The contents of minerals manual are displayed in the same format as the following manufactures tables: (1) census products in 1972 SIC numerical sequence (see example E) and (2) 1972 SIC product codes and 1967 SIC equivalents (see example I).

B. GEOGRAPHIC AREAS FOR WHICH DATA ARE AVAILABLE

The following describes briefly the geographic areas for which the Industry Division tabulates statistics.

1. United States

National totals include data from all 50 States and the District of Columbia.

2. Regions and Divisions

Census regions and divisions are large geographic areas which have been used for many decades for the purpose of providing summary figures at intermediate levels between those for the United States and those for individual States. The nine divisions are groupings of contiguous States, including Alaska and Hawaii. Each of the four regions is composed of several divisions. (See p. 21, map showing census geographic regions and divisions.)

3. States

Statistics for each State are made available from every census and from many Census Bureau surveys. In almost every case, a report or series of reports with statistics for each of the 50 States will also have separate statistics for the District of Columbia.

4. Counties

Counties are the primary political and administrative divisions of the States. The only major exceptions are Louisiana, where the divisions are called parishes, and Alaska where 29 census divisions have been created as county equivalents for statistical purposes. There are a number of cities which are independent of any county organization and, because they constitute primary divisions within their States, are accorded the same treatment as counties in the preparation of census

tabulations. The District of Columbia and the independent cities within the States of Georgia, Maryland, Missouri, Nevada, and Virginia are all identified as county equivalents. In Puerto Rico, the county equivalent is called a "municipio."

5. Standard Metropolitan Statistical Areas (SMSA's)

An SMSA always includes a city (cities) of specified population which constitutes the central city and the county (counties) in which it is located. An SMSA also includes contiguous counties when the economic and social relationships between the central and contiguous counties meet specified criteria of metropolitan character and integration. An SMSA may cross State lines. In New England, SMSA's are composed of cities and towns instead of counties.

Each SMSA must include at least: (a) one city with 50,000 or more inhabitants or (b) a city having a population of at least 25,000 which, with the addition of the population of contiguous places, incorporated or unincorporated, having a population density of at least 1,000 persons per square mile. These criteria constitute, for general economic and social purposes, a single community with a combined population of at least 50,000, provided that the county or counties in which the city and contiguous places are located has a total population of at least 75,000.

The Statistical Policy Division in the Office of Management and Budget (OMB), with the advice of representatives of the major Federal Statistical agencies, defines SMSA's. As of August 15, 1973, OMB had defined 267 SMSA's in the United States and Puerto Rico. (See pp. 22-23, map showing census standard metropolitan statistical areas.)

6. Standard Consolidated Areas (SCA's).

In view of the special importance of the metropolitan complexes around two of the Nation's largest cities, New York and Chicago, several contiguous SMSA's that do not appear to meet the formal integration criteria but do have strong interrelationships of other kinds, have been combined into (1) the New York-Northeastern New Jersey and (2) the Chicago-Northwestern Indiana standard consolidated areas, respectively.

7. Places (Cities and Other Incorporated and Unincorporated Places)

The term "place" refers to a concentration of population, regardless of the existence of legally prescribed units, powers, or functions. Places identified in the census are cities, towns, villages, or boroughs, in addition, to specially defined unincorporated places and special economic urbana areas (SEUA's).

a. Incorporated places.—Statistics for most cities and some other incorporated places are provided in census reports. The census of manufactures provides information for incorporated places of population of 10,000 or more. In the census reports, statistics are shown for certain towns and townships which are not usually classified as incorporated places but are defined geographically as special economic urban areas (SEUA's): Towns in the New England States which have an urban population of 2,500 or more or a total population of 10,000 or more;

⁵ This publication is entitled "Numerical List of Mineral Products (New 1972) SIC Basis) Census of Mineral Industries (MC72-3.2) Prepared and published by the Bureau of the Census. For sale by the Subscriber Services (Publications), Bureau of the Census, Washington, D.C. 20233, or any of the U.S. Department of Commerce district offices. Price: \$.50.

and townships in New Jersey and Pennsylvania which have 10,000 or more inhabitants.

b. Unincorporated places.—An unincorporated place is a closely settled population center without legally defined corporate limits or municipal powers. Data from the 1972 censuses are published for selected unincorporated places with 25,000 inhabitants or more, as defined in the 1970 population census.

8. Special-Purpose Districts.

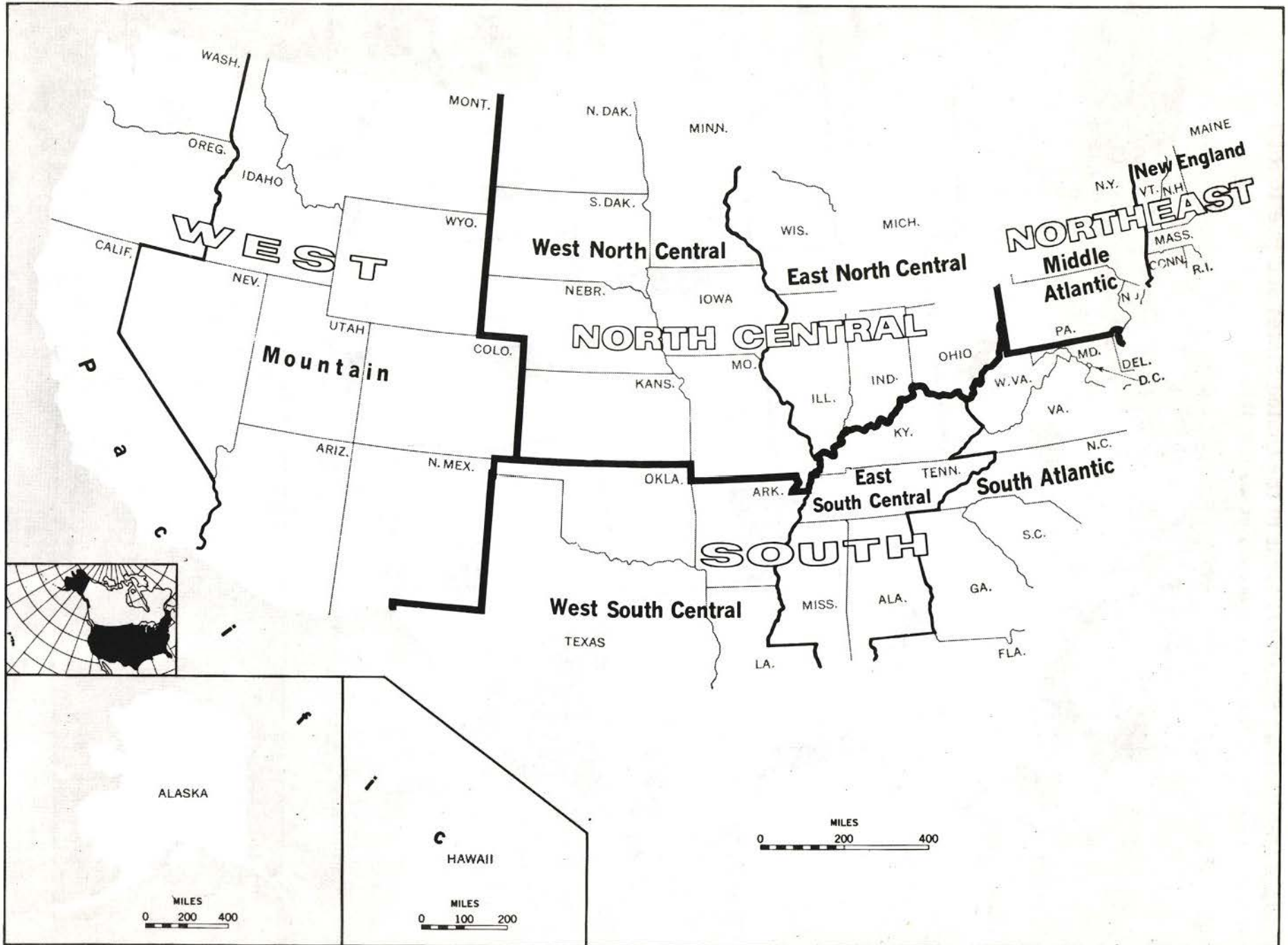
Some publications for the economic censuses show statistics for areas defined for special purposes. Detailed descriptions of these areas can be found in the publication showing the statistics for these areas. Examples of such areas are as follows:

a. Water Use Regions.—Statistics for 20 industrial water-use regions (defined by a Federal interagency committee) are given in the subject report from the census of manufactures, Water Use in Manufacturing.

b. Oil and Gas Districts.—The 17 oil and gas districts in California, Louisiana, Texas, and New Mexico, made up of counties, are used to present statistics on petroleum and natural gas industries in the census of mineral industries.

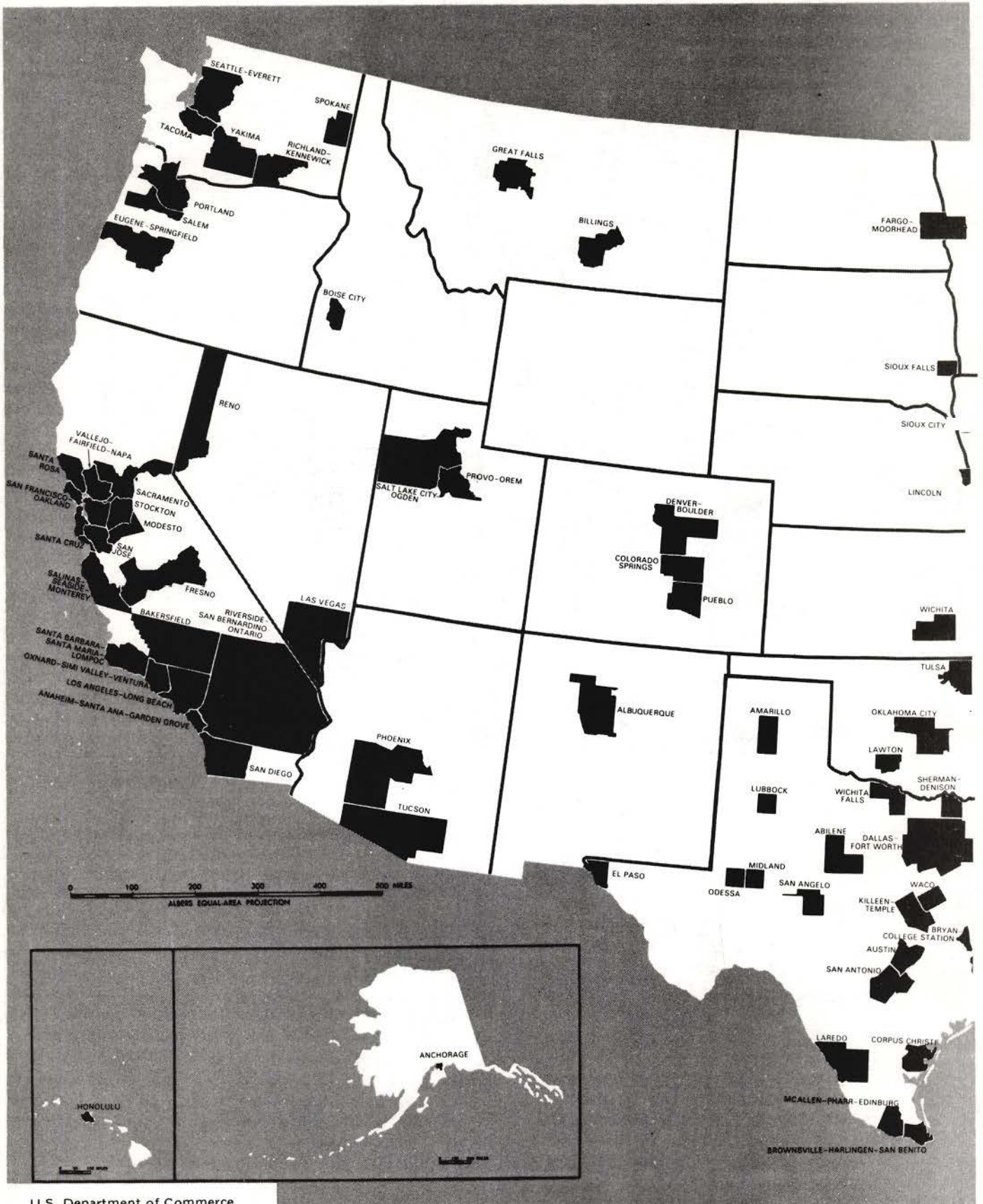
c. Outlying Areas.—The 1972 Censuses of Outlying Areas, conducted by the Bureau of the Census during 1973 as part of the economic censuses, include censuses of The Commonwealth of Puerto Rico, the Virgin Islands of the United States, and Guam.

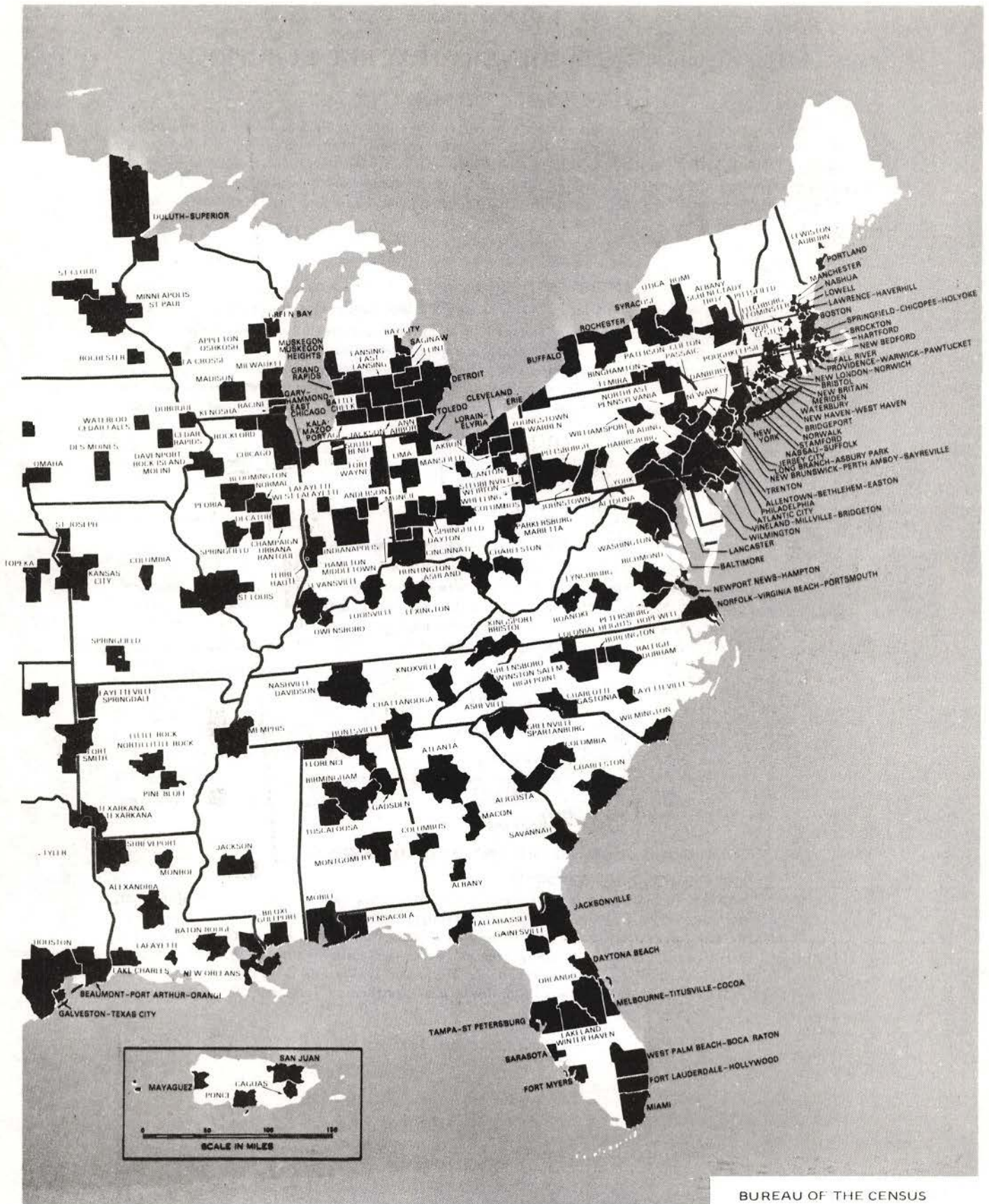
REGIONS AND GEOGRAPHIC DIVISIONS OF THE UNITED STATES



Standard Metropolitan Statistical Areas of the United States and Puerto Rico:

Areas defined by the Office of Management and Budget as of August 15, 1973





Example A. Two-, Three-, and Four-Digit Industry Levels Defined

MANUFACTURING

Major Group 35.—MACHINERY, EXCEPT ELECTRICAL*The Major Group as a Whole*

This major group includes establishments engaged in manufacturing machinery and equipment, other than electrical equipment (Major Group 36) and transportation equipment (Major Group 37). Machines powered by built-in or detachable motors ordinarily are included in this major group, with the exception of electrical household appliances (Major Group 36). Portable tools, both electric and pneumatic powered, are included in this major group, but hand tools are classified in Major Group 34.

No.	No.
Group	Industry

351 ENGINES AND TURBINES**3511 Steam, Gas, and Hydraulic Turbines and Turbine Generator Set Units**

Establishments primarily engaged in manufacturing steam turbines; hydraulic turbines; gas turbines, except aircraft; complete steam, gas, and hydraulic turbine generator set units; and steam engines. Establishments primarily engaged in building or rebuilding locomotives are classified in Industry 3743; and those manufacturing non-automotive type generators which are not part of a turbine generator set in Industry 3621.

Gas turbines, mechanical drive
Governors, steam
Hydraulic turbines
Steam engines, except locomotives
Steam turbines
Turbine generator set units, complete:
steam, gas, and hydraulic

Turbines: steam, hydraulic, and gas—
except aircraft type
Turbo-generators
Water wheels and turbines
Wheels, water

3519 Internal Combustion Engines, Not Elsewhere Classified

Establishments primarily engaged in manufacturing diesel, semi-diesel, or other internal combustion engines, not elsewhere classified, for stationary, marine, traction, and other uses. Establishments primarily engaged in manufacturing aircraft engines are classified in Industry 3724; automotive engines (except diesel) in Industry 3714; engine generator sets in Industry 3621; and guided missile and space vehicle propulsion units in Industry 3764.

Controls, remote: for boats
Diesel and semi-diesel engines: for stationary, marine, traction, etc.
Engine starters, pneumatic
Engines and engine parts, military tank
Engines: diesel and semi-diesel and dual fuel—except aircraft
Engines, internal combustion: except aircraft and non-diesel automotive
Gas and diesel engine rebuilding
Governors, diesel engine
Governors, pump: for diesel engines

Internal combustion engines except aircraft and non-diesel automotive
Jet propulsion engines, except aircraft
Marine engines: diesel, semi-diesel, and other internal combustion
Outboard motors
Propelling units, outboard
Radiators, stationary engine
Semi-diesel engines for stationary, marine, traction, or other uses
Tank engines and engine parts, military

352 FARM AND GARDEN MACHINERY AND EQUIPMENT**3523 Farm Machinery and Equipment**

Establishments primarily engaged in manufacturing farm machinery and equipment, including wheel tractors, for use in the preparation and maintenance of the soil; planting and harvesting of the crop; preparing crops for market, on the farm; or for use in performing other farm operations and processes. Establishments primarily engaged in manufacturing industrial trucks, tractors, and trailers used for handling materials in industrial plants, depots, and docks are classified in Industry 3537; contractors'

Example B. Alphabetic Index, Manufacturing Industries

ALPHABETIC INDEX, MANUFACTURING INDUSTRIES

2034 Nuts, dried or dehydrated	2851 Oil stains
2065 Nuts, glace	2911 Oil still gas, produced in petroleum refineries
2065 Nuts, salted or candy covered: packaged	3443 Oil storage tanks, metal plate
2221 Nylon broad woven fabrics	3714 Oil strainers, motor vehicle
2824 Nylon fibers and bristles	2899 Oil treating compounds
2821 Nylon resins	2911 Oil, acid
2284 Nylon thread	2865 Oil, aniline
2281 Nylon yarn, spinning of staple	2046 Oil, corn: crude and refined
2282 Nylon yarn: throwing, twisting, winding or spooling of continuous filament	2074 Oil, cottonseed
2221 Nitril broad woven fabrics	2865 Oil, creosote: product of coal tar distillation
2281 Nitril yarn, made from purchased staple: spun	2077 Oil, neat's-foot
O	
2861 Oak extract	2079 Oil, olive
2294 Oakum	2861 Oil, pine: produced by distillation of pine gum or pine wood
2499 Oars, wood	2899 Oil, red (oleic acid)
2043 Oatmeal (cereal breakfast food)	2075 Oil, soybean
2043 Oats, rolled (cereal breakfast food)	2843 Oil, turkey red
2048 Oats: crimped, pulverized and rolled (except breakfast food)	2295 Oilcloth
Object detection	2641 Oiled paper, <i>mjpm</i>
	2992 Oils and greases, blending and compounding from purchased materials

Source: SIC Manual, 1972—Part III, Alphabetic Index, Manufacturing Industries, p. 525.

Example C. Relation of 1972 to 1967 SIC Industries

(For all industries other than those listed below, 1972 SIC industries are the same as in 1967 or the changes in the industries will affect the classification of few, if any, establishments)—Con.

1972 Industry		1967 Industry	
Code	Short title	Code	Short title
D. MANUFACTURING—Continued			
2434	Wood kitchen cabinets	Part 2431	Millwork
	To be built-in.....		Part 2511	Wood household furniture
	Other.....	2432	Veneer and plywood
2435	Hardwood veneer and plywood.....	Part 2433	Prefabricated wood structures
2436	Softwood veneer and plywood.....		
2439	Structural wood members, nec.....	Part 2499	Wood products, nec
2448	Wood pallets and skids.....	2442	Wirebound boxes and crates
		2443	Veneer and plywood containers
2449	Wood containers, nec.....	2445	Cooperage
		Part 3791	Trailer coaches
2451	Mobile homes.....	Part 2433	Prefabricated wood structures
2452	Prefabricated wood buildings.....	Part 2499	Wood products, nec
2492	Particleboard.....		
2499	Wood products, nec.....		
	[excludes pallets, skids, and particleboard.....]		

Source: SIC Manual, 1972—Appendix C, Section I, Relation of 1972 to 1967 SIC Industries, p. 609.

Example D. Relation of 1967 to 1972 SIC Industries

(For all industries other than those listed below, 1972 SIC industries are the same as in 1967 or the changes in the industries will affect the classification of few, if any, establishments)—Con.

1967 industry		1972 industry	
Code	Short title	Code	Short title
	D. MANUFACTURING—Continued		
3729	Aircraft equipment, nec Aircraft equipment..... Space vehicle equipment.....	Part 3728 3769	Aircraft equipment, nec Space vehicle equipment, nec
3741	Locomotives and parts.....	3743	Railroad equipment
3742	Railroad and street cars.....		
3751	Motorcycles, bicycles, and parts Motorcycles, bicycles, and parts, nec... Golf carts, etc.....	3751 Part 3799	Motorcycles, bicycles, and parts Transportation equipment, nec
3791	Trailer coaches Travel trailers and campers, nec..... Mobile homes.....	Part 3792 2451	Travel trailers and campers Mobile homes
3799	Transportation equipment, nec Farm trailers and wagons..... Folding tent-type trailers..... Transportation equipment, nec.....	Part 3523 Part 3792 Part 3799	Farm machinery and equipment Travel trailers and campers Transportation equipment, nec
3821	Mechanical measuring devices.....	3823 3824 3829	Process control instruments Fluid meters & counting devices Measuring & controlling devices, nec
3831	Optical instruments and lenses.....	Part 3832	Optical instruments and lenses
3871	Watches and clocks.....	3873	Watches, clocks, and watchcases
3872	Watchcases.....		
3912	Jewelers' findings and materials.....	3915	Jewelers' materials & lapidary work
3913	Lapidary work.....		
3941	Games and toys.....		

Source: SIC Manual, 1972—Appendix C, Section II, Relation of 1967 to 1972 SIC Industries, p. 635.

Example E. 1972 Numerical List of Manufactured Products (1972 SIC)

MAJOR GROUP 20—FOOD AND KINDRED PRODUCTS

Code	Check digit	Industry and product description	Quantity measure	Data collected
201		MEAT PRODUCTS		
<u>2011</u>		<u>MEATPACKING PLANTS</u>		
20111		BEEF, NOT CANNED OR MADE INTO SAUSAGE		
20111 12	6	Whole carcass beef, from animals slaughtered at the same plant.....	M lbs.....	S
20111 17	5	Primal and fabricated cuts, from animals slaughtered at the same plant.....	do.....	
20111 31	6	Boneless beef, including hamburger, from animals slaughtered at the same plant.....	do.....	
20111 51	4	Variety meats (edible organs), from animals slaughtered at the same plant.....	do.....	
20111 71	2	Other edible beef, including corn beef, from animals slaughtered at the same plant.....	do.....	
20112		VEAL, NOT CANNED OR MADE INTO SAUSAGE		
20112 12	4	Whole carcass veal, from animals slaughtered at the same plant.....	do.....	
20112 17	3	Primal cuts, fabricated cuts, and boneless veal, from animals slaughtered at the same plant.....	do.....	
20112 61	1	Other edible veal, including edible organs, from animals slaughtered at the same plant.....	do.....	
20113		LAMB AND MUTTON, NOT CANNED OR MADE INTO SAUSAGE		
20113 12	2	Whole carcass lamb and mutton, from animals slaughtered at the same plant.....	do.....	
20113 52	8	Primal cuts and other edible lamb and mutton, from animals slaughtered at the same plant.....	do.....	

Source: 1972 Numerical List of Manufactured Product (New (SIC) basis) MC72-1.2, Major Group 20, p. 5.

Example F. Product Detail Monthly Current Industrial Reports Related to 1972 Census of Manufactures

Product code		CIR and product description	Survey item code(s)
Old SIC	New SIC		
M20J—OILSEEDS, BEANS, AND NUTS (PRIMARY PROCESSORS)			
Soybean			
20921 11	20751 11	Crude oil produced (degummed weight).....	0106
20922 11	20752 11	Cake and meal produced.....	0110
20922 61	20752 61	Millfeed produced.....	0115
Stocks of—			
20921 11	20751 11	Crude oil.....	0125
20922 11	20752 11	Cake and meal.....	0130
20922 61	20752 61	Millfeed.....	0135
Cottonseed			
20911 11	20741 11	Crude oil produced.....	0206
20914 11	20744 11	Cake and meal produced.....	0210
20914 51	20744 51	Hulls produced.....	0215
20913 13	20743 13	Linters produced, first cut.....	0220
20913 15	20743 15	Linters produced, second cut.....	0225
20913 17	20743 17	Linters produced, mill run.....	0230
Stocks of—			
20911 11	20741 11	Crude oil.....	0240
20914 11	20744 11	Cake and meal.....	0245
20914 51	20744 51	Hulls.....	0250
20913 13	20743 13	Linters, first cut.....	0255
20913 15	20743 15	Linters, second cut.....	0260
20913 17	20743 17	Linters, mill run.....	0265
Flaxseed			
20931 11	20743 11	Crude oil produced.....	0305

Source: 1972 Numerical List of Manufactured Product (New (1972) SIC basis) M72-1.2, Appendix A, Part 1, p. 203.

Example G. Product Detail in Quarterly Current Industrial Reports Related to 1972 Census of Manufactures

Product code		CIR and product description	Survey item code(s)
Old SIC	New SIC		
MQ-22K—SHIPMENTS OF KNIT CLOTH			
Knit cloth in the greige			
Warp-knit (tricot, raschel, simplex, milanese)			
-	22581 11	Fabrics shipped or transferred for finishing (bleach, dye, print) in other plants	1001
-	22581 21	Industrial (transportation, upholstery, footwear).....	1005
-	22581 31	Apparel.....	1009
-	22581 10	Household.....	1015
Warp-knit cloth shipped or transferred for use in the greige.....			
Circular knit			
-	22571 11	Fabrics shipped or transferred for finishing (bleach, dye, print) in other plants	1021
-	22571 21	Industrial (transportation, upholstery, footwear).....	1025
-	22571 31	Apparel.....	1029
-	22571 10	Household.....	1035
Circular knit cloth shipped or transferred for use in the greige.....			
Finished knit cloth			
Warp-knit finished fabrics			
Raschel, raschel-crochet			
-	22582 11	Underwear and nightwear fabrics.....	1051
-	22583 10	Outerwear fabrics, except glove.....	1055
-	22582 13	Corset fabrics, including power net and elastic lace (made with rubber or spandex yarns).....	1059
-	22584 11	Netting, including shoe netting, laundry and dye netting.....	1061
-	22584 13	Laces, knit (other than elastic lace).....	1065
-	22584 19	Other finished raschel fabrics, not included above.....	1069
Tricot, simplex, and milanese			
Underwear and nightwear fabrics (including corset and bra)			
-	22582 21	Acetate and triacetate.....	1071
-	22582 23	Nylon.....	1075
-		Other.....	1077

Source: 1972 Numerical List of Manufactured Product (New (1972) SIC basis) MC72-1.2, Appendix A, Part 2, p. 210.

Example H. Product Detail in Annual Current Industrial Reports Related to 1972 Census of Manufactures

Product code		CIR and product description	Survey item code(s)
Old SIC	New SIC		
MA-20D—ANNUAL CONFECTIONERY SURVEY			
Manufacturer's net sales			
Chocolate type products			
20710 11	20650 11	Solid chocolate.....	1701
20710 15	20650 15	Solid chocolate mixed with other foods.....	1703
20710 21	20650 21	Panned, chocolate/confectioners exterior.....	1705
20710 25	20650 25	Panned, chocolate/confectioners interior.....	1707
20710 31	20650 31	Chocolate coated/enrobed.....	1709
20710 35	20650 35	Confectioners coated/enrobed.....	1711
20710 39	20650 39	All other.....	1713
20710 30	20650 30	Total, chocolate type.....	1715
Nonchocolate type products			
20710 51	20650 51	Hard candy.....	1801
20710 53	20650 53	Caramel.....	1803
20710 55	20650 55	Toffee.....	1805
20710 57	20650 57	Marshmallow.....	1807
20710 61	20650 61	Nougat.....	1809
20710 63	20650 63	Creams.....	1811
20710 65	20650 65	Fudge.....	1813
20710 67	20650 67	Jellies.....	1815
20710 69	20650 69	All other, including licorice.....	1817
20710 50	20650 50	Total, nonchocolate type.....	1819
20710 20	20650 20	Total confectionery sales (excluding resales).....	1901
Bar goods (units of one or two pieces) made to retail at—			
20701 11	20601 11	Less than 5 cents (excluding penny goods and panned items other than bars).....	6102
20701 13	20601 13	5 cents (including 6 cents, 7 cents, and 3 for 10 cents).....	6103
20701 15	20601 15	10 cents.....	6104
20701 17		Over 10 cents.....	610*

Source: 1972 Numerical List of Manufactured Products (New (1972) SIC basis) MC72-1.2, Appendix A, part 3, p. 232.

Example I. 1972 Numerical List of Manufactured Products (1972) New SIC Product Codes and Old SIC Equivalents

Titles and codes based on 1972 SIC	Products as coded on 1967 SIC basis	Titles and codes based on 1972 SIC	Products as coded on 1967 SIC basis
MAJOR GROUP 20 FOOD AND KINDRED PRODUCTS			
2011--Meat packing plants: All codes 2011 in first 4 digits...	Same	2047--Dog, cat, and other pet food: 20471 37.....	{20118 15 20138 15 20110 13
2013--Sausages and other prepared meats: All codes 2013 in first 4 digits...	Same	All other codes 20471 in first 5 digits.....	20423 in first 5 digits
2016--Poultry dressing plants: All codes 20164 in first 5 digits... All other codes 2016 in first 4 digits.....	20155 in first 5 digits 2015 in first 4 digits	20472 51..... All other codes 20472 in first 5 digits.....	20423 61 20424 in first 5 digits
2017--Poultry and egg processing: All codes 20171 in first 5 digits... All codes 20172 in first 5 digits...	20154 in first 5 digits 20156 in first 5 digits	2048--Prepared feeds, n.e.c.: 20481 11..... 20481 13..... 20481 15..... 20481 17..... 20482 11..... 20482 13.....	20421 21 20421 51 20421 22 20421 53 20421 28 20421 55
2021--Creamery butter: All codes 2021 in first 4 digits...	Same	20483 11..... 20483 13..... 20484 21.....	20421 33 20421 56 20422 13
2022--Cheese, natural and processed: All codes 2022 in first 4 digits...	Same	20484 23..... 20485 11..... 20485 13.....	20422 43 20422 15 20422 45
2023--Condensed and evaporated milk: All codes 2023 in first 4 digits...	Same	20486 11..... 20486 13.....	20422 17 20422 47
2024--Ice cream and frozen desserts: All codes 2024 in first 4 digits...	Same		
Fluid milk:			

Source: Numerical List of Manufactured Products (New (1972) SIC basis) MC72-1.2, Appendix B, p. 323.

Chapter III. Definitions of Terms Used in Publications

A. DEFINITIONS USED IN CENSUSES OF MANUFACTURES AND MINERAL INDUSTRIES AND ANNUAL SURVEY OF MANUFACTURES

Central Administrative Offices and Auxiliaries.—A central administrative office (CAO) is an establishment whose employees are primarily engaged in general administrative, supervisory, purchasing, accounting, general engineering and systems planning, legal, financial, and related management functions performed centrally for other establishments of the same company. An auxiliary is an establishment whose employees are primarily engaged in performing supporting services, such as warehousing or research and development, for other establishments of the same company, rather than for the general public or for other business firms.

Company.—A company, is a business organization consisting of one or more establishments under common ownership or control. If a company owns or controls other companies, all establishments of its subsidiary companies are also included as part of the owning or controlling company.

Single-Unit Company.—A company operating only one establishment.

Multi-Unit Company.—A company operating more than one establishment.

Cost of Materials, etc., Consumed.—This total consists of the cost of materials, supplies, semifinished goods, fuels, and electric energy, actually consumed or put into production during the year and the cost of products purchased for resale, by each manufacturing establishment, whether purchased, withdrawn from inventories, or received from other establishments of the company. "Cost" was defined as the direct charges actually paid or payable for items consumed or put into production during the year, after discounts, and including freight charges and other direct charges incurred by the establishment in acquiring the materials.

Coverage Ratio.—Measures the extent to which the products primary to an industry are shipped by plants classified in that industry.

Duplication in Cost of Materials and Value of Shipments.—The aggregate of the cost of materials and value of shipments figures at the 2- and 3-digit industry group level and the "all industries" level includes large amounts of duplication since the products of some industries are used as materials by others. With some important exceptions such as motor vehicles and parts, this duplication is not significant within the individual 4-digit industries. However, it is significant at the 2- and 3-digit industry group levels because these totals often include industries which represent successive stages in the production of a finished manu-

factured product. Estimates of the overall extent of this duplication indicate that the value of manufactured products exclusive of such duplication—the value of finished manufactures—tends to approximate two-thirds of the total value of products reported in the census of manufactures.

Employees, All.—The category "all employees" comprises all full-time and part-time employees on the payrolls of operating manufacturing establishments who worked or received pay for any part of the pay period which included the 12th of the month specified on the report form.

Employees, All Other.—Nonproduction personnel of the manufacturing establishment include those engaged in the following activities: Factory supervision above the working foreman level, sales (including driver salesmen), sales delivery (highway truck drivers and their helpers), advertising, credit, collection, installation and servicing of own products, clerical and routine office functions, executive, purchasing, financing, legal, personnel (including cafeteria, medical, etc.), professional, and technical. Also included are employees on the payroll of the manufacturing establishment engaged in the construction of major additions or alterations to the plant and who are utilized as a separate work force.

Employees, Production and Related Workers.—This category includes workers (up through the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial and watchman services, product development, auxiliary production for plants' own use (e.g., power plant), recordkeeping, and other services closely associated with the production operations at the establishment covered by the report. Supervisory employees above the working foreman level are excluded from this category.

Establishment.—An establishment is a business or industrial unit at a single physical location which produces or distributes goods, or performs services. When more than one company conducts operations at a single location, each business under separate ownership is regarded as a separate establishment. Also, if a company engages in several distinctly different kinds of economic activity at one location, each kind is treated as a separate establishment if the separate activities are economically significant in size and if separate records are available.

Expenditures for Plant and Equipment.—Expenditures for machinery and equipment include those made for replacement purposes as well as for additions to plant capacity. Excluded from such expenditure totals are costs of maintenance and repairs charged as current operating expense; new facilities and equipment leased from nonmanufacturing concerns; new facilities owned by the Federal Government but operated under contract by private companies; and plant and equipment furnished to the manufacturer by communities and organizations.

Inventories.—The value of beginning-of-year and end-of-year inventories, respectively, held by each manufacturing establishment. Separate inventory figures are displayed for (1) finished products, (2) work in process, and (3) materials, supplies, fuel, and other inventories. Respondents to the census and annual survey were asked to report their inventories at approximate current costs, if feasible, otherwise at book values. Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the value of the inventories aggregated for all establishments in an industry or area is not precise.

Man-Hours, Production and Related Worker.—This total consists of all plant man-hours of production and related workers as defined above. It represents all man-hours worked or paid for at the plant including actual overtime hours (not straight-time equivalent hours). It excludes hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. Where employees elected to work during the vacation period, only actual hours worked by such employees were reported.

Manufacturers' Sales Branches or Sales Offices.—A manufacturer's sales branch or sales office is a wholesale trade establishment which primarily distributes products manufactured by its owning company.

Payrolls, Manufacturing Employees.—This total includes the gross earnings paid in the calendar year to all employees on the payroll of operating manufacturing establishments.

Plant Specialization Data.—The plant specialization statistics provide a more exact measurement of the relationship between the product output of an industry and the statistics on employment and payrolls, cost of materials, etc., reported by the same industry. Specialization for an establishment is computed in two ways. The first computation is in terms of the ratio of all the primary products of the establishment (summed to the 4-digit product group or industry level) to its total of primary plus secondary products. The second is in terms of the ratio of the largest 5-digit primary product class of the establishment to its total of primary plus secondary products. Receipts for contract and commission work as well as other miscellaneous receipts are generally not included in the plant specialization computation. Establishments are then grouped according to their degree of specialization at the two levels (all primary products (4-digit) and the product class (5-digit)).

Relationship between Value of Shipments and Product Shipments.—In the final industry reports tables 1A to 5A present data on value of industry shipments and tables 6A to 6C present data on value of product shipments. The interrelationships between these data items are shown in tables 5B and 5C. Example J provides a graphic presentation of the relationship of these data items in these tables.

Value of Product Shipments.—This includes the quantity and value of individual products shipped by all establishments whether or not the establishment is classified in the industry in which that product is included.

Primary products.—Primary products are those products manufactured by establishments classified in the same industry to which that particular product is assigned.

Secondary products.—Secondary products are those products which are assigned to an industry other than the one in which the particular establishment manufacturing that product is classified.

Value of Shipments.—Value of shipment, which represents the dollar value of products sold by manufacturers, is the net selling value, of all products made, f.o.b. plant, after discount and allowance and excluding freight charges and excise taxes. This includes products shipped to other plants of the same company, products made elsewhere under contract from the materials owned by the establishment, receipt for contract work performed for others, resales, receipts for miscellaneous activities such as the sale of scrap and refuse, and the value of installation and repair work performed by the plant employees. Value of products bought and resold with no processing is reported separately and included in each industry's total. For multiunit companies, value of products transferred to other establishments of the same company is tabulated as though each establishment were a separate unit. Value of interplant transfers within the company includes direct costs of production plus a proportion of fixed costs and profit.

Specialization Ratio.—Measures the extent to which the industry specializes in making its primary products.

Value Added by Manufacture.—Value added by manufacture is derived by subtracting the total cost of materials (including materials, supplies, fuel, electric energy, cost of resales and miscellaneous receipts) from the value of shipments (including resales) and other receipts and adjusting the resulting amount by the net change in finished products and work-in-process inventories between the beginning and end of the year.

Value added avoids the duplication in the value of shipments figure which results from the inclusion of the shipments of establishments producing materials and components along with the shipments of establishments producing finished products.

Value added is considered to be the best value measure now available for comparing the relative economic importance of manufacturing among industries and geographic areas. National income excludes, in addition to the cost of materials, such other costs as depreciation charges, State and local taxes (other than corporate income taxes), and purchases of services from non-manufacturing enterprises.

B. SPECIAL DEFINITIONS USED ONLY FOR THE CENSUS OF MINERAL INDUSTRIES

The basic definitions of terms used in the Census of Mineral Industries are shown in section A of this chapter. This section presents those unique definitions that apply only to the Census of Mineral Industries.

Minerals for Preparation.—On report forms for almost all mineral industries, except the petroleum and natural gas and contract services industries, a uniform inquiry was included on minerals prepared or treated at the reported establishments. Separated quantity figures are available for: (1) crude minerals mined at the establishment (quantity); (2) crude minerals received from other establishments of the company or purchased from others

(quantity and cost); and (3) crude minerals received for preparation on a custom or toll basis (quantity and estimated value).

Production, Development, and Exploration Workers.—This category includes employees (up through the working foreman level) engaged in manual work: using tools, operating machines, hauling materials, loading and hauling products out of the mine in mine cars or trucks and caring for mines, plants, mills, shops, or yards.

Value Added in Mining.—Since the 1954 census, this measure has been computed by subtracting the cost of supplies, etc., and purchased machinery from the value of shipments and receipts plus capital expenditures.

Value added avoids the duplication in the value of shipments figure which results from the use of products of some establish-

ments as supplies, energy sources, or materials by others. Moreover, it provides a measure, not only of value added in mineral production, but also in the development of mineral properties. For these reasons, it is considered to be the best value measure available for comparing the relative economic importance of mining among industries and geographic areas.

“Value of shipments” used in this calculation includes the shipments of all products of the mining establishment, together with receipts for contract work done for others.

“Capital expenditures” used in this calculation includes expenditures for development of mineral properties as well as for new construction and major alterations of preparation plants and other structures and expenditures for new and used machinery and equipment. The “costs” used in this calculation include costs charged to both the current and capital accounts. Both the shipments and costs figures include products bought and resold in the same condition.

Example J. Relationship Between Industry Value of Shipment and Product Shipments

TABLE 1A. General Statistics: 1958 to 1972

Year ¹	Establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials, fuels, etc. (million dollars)	Value of industry shipments (million dollars)	Capital expenditures, new (million dollars)	Gross value of fixed assets (million dollars)	End-of-year inventories (million dollars)	Specialization ratio (percent)	Coverage ratio (percent)
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)								
INDUSTRY 2651. -- FOLDING PAPERBOARD BOXES															
1972 Census	545	377	45.6	401.2	36.8	74.0	288.2	743.5	765.1		37.7	(NA)	219.9	85	91

TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967

1972 code	Industry and census year	Value of shipments				Primary product specialization ratio Col. B Col. B & C (percent)	Value of primary product shipments			Coverage ratio Col. B Col. F (percent)
		Total	Primary products	Secondary products	Miscellaneous receipts		Total, made in all industries	Made in this industry	Made in other industries	
		(million dollars)	(million dollars)	(million dollars)	(million dollars)		(million dollars)	(million dollars)	(million dollars)	
2651	Folding paperboard boxes.....1972..		1,247.4	215.8	30.3	85		1,247.4	129.4	91

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972

Product code	Industry, class of products, and miscellaneous receipts	All industries	Value of shipments by product class					Other industries
			Folding paperboard boxes (SIC 2651)	Setup paperboard boxes (SIC 2652)	Corrugated and solid fiber boxes (SIC 2653)	Sanitary food containers (SIC 2654)	Fiber cans, drums, and similar products (SIC 2655)	
	Total shipments and miscellaneous receipts.....	(X)	1,247.4	215.8	30.3	743.5	765.1	37.7
2651-	Folding paperboard boxes.....	(X)	1,247.4	215.8	30.3	743.5	765.1	37.7
2652-	Setup paperboard boxes.....	(X)	25.9	295.1	10.6	4.3	(under 2)	(5-10)
2653-	Corrugated and solid fiber boxes.....	(X)	1.0	7.7	101.6	90.5	5.0	(X)
	Miscellaneous receipts.....	(X)	30.3	7.7	101.6	90.5	5.0	(X)

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
2651- --	FOLDING PAPERBOARD BOXES, TOTAL.....		(X)	1,247.4	(X)	1,116.2

-  Value of Shipments for Industry
-  Primary Products Made in Other Industry
-  Value of Primary Product Shipments
-  Secondary Products of Primary Industry
-  Primary Products of Primary Industry
-  Miscellaneous Receipts of Primary Industry

Chapter IV. Locator Guide to Published Census of Manufactures Data

Parts A and B of this chapter list alphabetically the data items published in the 1972 Census of Manufactures and where they can be located.

For certain general statistics items, a number of standard industry and geographic area cross-tabulations have been published. This detail is shown in part A. The additional detail

published for these items, as well as for other items, in the 1972 Census of Manufactures is shown in part B. Tables illustrating the presentation of Census of Manufactures data are shown in part C.

Part D is a brief descriptions of the new data items that are to be collected in the 1977 Census of Manufactures.

A. STANDARD DETAIL PUBLISHED FOR SELECTED CENSUS OF MANUFACTURES GENERAL STATISTICS DATA ITEMS

(For the following alphabetically listed General Statistics Data Items, a number of standard industry and geographic cross-tabulations have been published:

Capital expenditures, total new;
employment, number of production workers;
employment, total number;
inventories, total ending;

man-hours, total production workers;
materials, total costs of;
payroll, production workers;
shipments, value of;
value added by manufactures.

(Data for these data items will be found in the publication and tables listed below)

Publication ¹	Table	Level of detail ²		Historic data	Page No. of sample ³	Comments
		Industry	Area			
4-Digit Industry.....	1A	4	US	X	41	By employment size By specialization ratio
	2	4, 6	US, R, D, ST,	X	43	
	3	4, 6	US		43	
	4	4, 6	US		44	
	5A ⁴	4, 5, 6	US		44	
2-Digit Industry.....	1	2	US	X	-	
	2	2, 3	US, R, D, St	X	-	
	3	2, 3	US		-	
General Summary.....	1 ⁵	T	US	X	-	By employment size
	3 ⁵	2, 3, 4,	US	X	-	
	5	T, 2	US		-	
	7	T, 2	US, R, D, ST	X	-	
	8	T, 2	US		-	
Divisional.....	1 ⁵	T	D	X	-	
	2	2, 3, 4	D	X	-	
State.....	2	T	ST, SMSA	X	48	
	3	T	ST		49	
	4	T	ST, SMSA, CO, PL	X	50	
	5	2, 3, 4	ST	X	51	
	6	2, 3, 4	SMSA	X	51	
	7	2, 3	CO	X	52	
	8	2	PL	X	52	

¹A description of the contents of these publications will be found in section A of chapter I.

Publication

Divisional
General Summary
State
2-Digit Industry
4-Digit Industry

Publication long titles

Divisional Summary, (appears as part of U.S. General Summary) (MC72(1)-1)
U.S. General Summary (MC72(1)-1)
Final State Reports (MC72(3)-1 to 51)
Two-Digit Industry Summary (appears as part of U.S. General Summary) (MC72(1)-1)
Final Industry Reports (MC72(2)-20A to 39D)

²Level of Detail

Industry

T Total all industries
2 2-Digit Major Group
3 3-Digit Industry Group
4 4-Digit Industry
6 6-Digit Subindustry

Area

US United States
R Region
D Division
ST State
SMSA Standard Metropolitan Statistical Area
CO County
PL City or Place

³Indicates the page in this guide on which a sample of the particular table is presented.

⁴Table does not show number of establishment with 20 employees or more.

⁵Table does not show total cost of materials.

B. ADDITIONAL CENSUS OF MANUFACTURES DATA ITEMS

(Includes additional detail for items shown in part A and other items)

Data item	Publication ¹	Table	Level of detail ²		His- toric data	Page No. of sample table ³	Comments
			Industry	Area			
<u>Assets, gross value of fixed:</u>							
Total.....	4-Digit Industry	1A	4	US	X	41	
<u>Capital expenditures:</u>							
New structures and additions...	4-Digit Industry	3	4, 6	US		43	
	2-Digit Industry	3	2, 3	US		-	
	General Summary	3	2, 3, 4	US		-	
		5	T, 2	US		-	
	State	3	T	ST		49	
	Expenditures	1	T	US	X	-	
		2	2, 3, 4	US	X	-	
		3	T	US, R, D, ST		-	
		4	T, 2	US, R, D, ST		-	
New machinery and equipment....	4-Digit Industry	3	4, 6	US		43	
	2-Digit Industry	3	2, 3	US		-	
	General Summary	3	2, 3, 4	US		-	
		5	T, 2	US		-	
	State	3	T	ST		49	
	Expenditures	1	T	US	X	-	
		2	2, 3, 4	US	X	-	
		3	T	US, R, D, ST		-	
		4	T, 2	US, R, D, ST		-	
Total, new.....	Expenditures	1	T	US	X	-	
		2	2, 3, 4	US		-	
		3	T	US, R, D, ST		-	
		4	T, 2	US, D, ST		-	
	General Summary	3	2, 3, 4	US ST		-	
		5	T, 2	US		-	
	See part A for additional de- tail						
Used plant and equipment.....	4-Digit Industry	3	4, 6	US		43	
	2-Digit Industry	3	2, 3	US		-	
	General Summary	5	T, 2	US		-	
	State	3	T	ST		49	
	Expenditures	1	T	US	X	-	
		2	2, 3, 4	US	X	-	
		3	T	US, R, D, ST		-	
		4	2	US, D, ST		-	
Total.....	4-Digit Industry	3	4, 6	US		43	
	2-Digit Industry	3	2, 3	US		-	
	General Summary	5	T, 2	US		-	
	State	3	T	ST		49	

See footnotes at end of table.

B. ADDITIONAL CENSUS OF MANUFACTURES DATA ITEMS— Continued

(Includes additional detail for items shown in part A and other items)

Data item	Publication ¹	Table	Level of detail ²		His- toric data	Page No. of sample table ³	Comments
			Industry	Area			
Central administrative offices and auxiliaries:							
Employees.....	2-Digit Industry	1	2	US	X	-	By type of office or auxiliary
	General Summary	2	T, 2	US	X	-	
		4	T, 2	US		-	
		6	T	US, D, ST, SMSA	X	-	
State	1	T	ST, SMSA	X	48		
	5	T	ST	X	-		
Payroll.....	2-Digit Industry	1	2	US	X	-	By type of office or auxiliary
	General Summary	2	T, 2	US	X	-	
		4	T, 2	US		-	
		6	T	US, D, ST, SMSA	X	-	
State	1	T	ST, SMSA	X	48		
	5	T	ST	X	-		
Establishments with 20 or more employees.....	2-Digit Industry	1	2	US	X	-	
	General Summary	3	T	US	X	-	
	State	5	T	ST	X	-	
Establishment, number.....	2-Digit Industry	1	2	US	X	-	
	General Summary	3	T	US	X	-	
	State	5	T	ST	X	-	
Companies, number	General Summary	3	2, 3, 4	US		-	
	Concentration ratios in manufacturing	Concentration					See Concentration publication for table details
Employees, number							
Production workers, annually...	See part A for detail						
Production workers, quarterly..	4-Digit Industry	3	4, 6	US		43	
	2-Digit Industry	3	2, 3	US		-	
	General Summary	5	T, 2	US		-	
	State	3	T	ST		49	
Total.....	Expenditures	1	T	US	X	-	
	4-Digit Industry	1C	4	US		42	
Establishments, number:							
With 1-19 employees.....	General Summary	1	T	US	X	-	
	4-Digit Industry	3	4, 6	US		43	
	2-Digit Industry	3	2, 3	US		-	
	General Summary	5	T, 2	US		-	
	State	3	T	ST		49	
With 20-99 employees.....	4-Digit Industry	3	4, 6	US		43	
	2-Digit Industry	3	2, 3	US		-	
	General Summary	5	T, 2	US		-	
	State	3	T	ST		49	

See footnotes at end of table.

B. ADDITIONAL CENSUS OF MANUFACTURES DATA ITEMS—Continued

(Includes additional detail for items shown in part A and other items)

Data item	Publication ¹	Table	Level of detail ²		His- toric data	Page No. of sample table ³	Comments
			Industry	Area			
<u>Establishments, number--Con.</u>							
With 100 or more employees....	4-Digit Industry	3	4, 6	US		43	
	2-Digit Industry	3	2, 3	US		-	
	General Summary	5	T, 2	US		-	
	State	3	T	ST		49	
With 20 or more employees.....	4-Digit Industry	1C	4	US		42	
	See part A for additional detail						
Total.....	4-Digit Industry	1C	4	US		42	
	See part A for additional detail						
Detail size groups.....	Divisional	3	T, 2	D		-	By employment size
	State	9	T, 2	ST, CO		53	By employment size
<u>Fuels and electric energy consumed</u>	Fuels						See Fuels publica- tion for table de- tails.
<u>Government establishments, manu- facturing activities in</u>	Government operated						See Government Op- erated publication for table details.
<u>Indexes of production</u>							See Indexes of Pro- duction publication for table details.
<u>Inventories:</u>							
Beginning, total.....	4-Digit Industry	3	4, 6	US		43	
	2-Digit Industry	3	2, 3	US		-	
	General Summary	3	2, 3, 4	US		-	
	State	5	T, 2	US		-	
	State	3	T	ST		49	
	Inventories	2	2, 3, 4	US		-	
		3	T	US, R, D, ST		-	
Finished products.....	4-Digit Industry	3	4, 6	US		43	
	2-Digit Industry	3	2, 3	US		-	
	General Summary	5	T, 2	US		-	
	State	3	T	ST		49	
	Inventories	2	2, 3, 4	US		-	
		3	T	US, R, D, ST		-	
Work in progress.....	4-Digit Industry	3	4, 6	US		43	
	2-Digit Industry	3	2, 3	US		-	
	General Summary	5	T, 2	US		-	
	State	3	T	ST		49	
	Inventories	2	2, 3, 4	US		-	
		3	T	US, R, D, ST		-	

See footnotes at end of table.

B. ADDITIONAL CENSUS OF MANUFACTURES DATA ITEMS—Continued

(Includes additional detail for items shown in part A and other items)

Data item	Publication ¹	Table	Level of detail ²		His- toric data	Page No. of sample table ³	Comments	
			Industry	Area				
<u>Inventories--Con.</u>								
Materials, supplies, fuels, etc.....	4-Digit Industry	3	4, 6	US		43		
	2-Digit Industry	3	2, 3	US		-		
	General Summary	5	T, 2	US		-		
	State	3	T	ST		49		
	Inventories	2	2, 3	US		-		
		3	T		US, R, D, ST		-	
Ending, total.....	4-Digit Industry	1A	4	US		41		
		3	4, 6	US		43		
		4	4, 6	US		44		
	2-Digit Industry	3	2, 3	US		-		
	General Summary	3	2, 3, 4	US		-		
		5	T, 2	US		-		
	State	3	T	ST		49		
	Inventories	2	2, 3, 4	US		-		
		3	T		US, R, D, ST		-	
Finished products.....	4-Digit Industry	3	4, 6	US		43		
	2-Digit Industry	3	2, 3	US		-		
	General Summary	5	T, 2	US		-		
	State	3	T	ST		49		
	Inventories	2	2, 3, 4	US		-		
		3	T		US, R, D, ST		-	
Work-in progress.....	4-Digit Industry	3	4, 6	US		43		
	2-Digit Industry	3	2, 3	US		-		
	General Summary	5	T, 2	US		-		
	State	3	T	ST		49		
	Inventories	2	2, 3, 4	US		-		
		3	T		US, R, D, ST		-	
Materials, supplies, fuels, etc.....	4-Digit Industry	3	2, 6	US		43		
	2-Digit Industry	3	2, 3	US		-		
	General Summary	5	T, 2	US		-		
	State	3	T	ST		49		
	Inventories	2	2, 3, 4	US		-		
		3	T		US, R, D, ST		-	
<u>Man-hours, total production</u>								
workers:								
Annual.....	See part A for detail							
Quarterly.....	4-Digit Industry	3	4, 6	US		43		
	General Summary	3	2, 3, 4	US		-		
		5	T, 2	US		-		
	State	3	T	ST		49		
<u>Materials consumed, supple-</u>								
<u>mental:</u>								
	Materials						See Materials publi- cation for table details	

See footnotes at end of table.

B. ADDITIONAL CENSUS OF MANUFACTURES DATA ITEMS - Continued

(Includes additional detail for items shown in part A and other items)

Data item	Publication ¹	Table	Level of detail ²		His- toric data	Page No. of sample table ³	Comments
			Industry	Area			
Materials, cost of--Continued							
<u>Materials, cost of:</u>							
Materials, supplies, etc.....	4-Digit Industry	3	4, 6	US		43	
		7A	4	US	X	47	
	2-Digit Industry	3	2, 3	US		-	
	General Summary	5	T, 2	US		-	
	State	3	T	ST		49	
Specific materials.....	4-Digit Industry	7A	4	US	X	47	
Products bought and resold....	4-Digit Industry	3	4, 6	US		43	
	2-Digit Industry	3	2, 3	US		-	
	General Summary	5	T, 2	US		-	
	State	3	T	ST		49	
Fuels consumed.....	4-Digit Industry	3	4, 6	US	X	43	
		7B	4	US	X	47	
	2-Digit Industry	3	2, 3	US		-	
	General Summary	5	T, 2	US		-	
	State	3	T	ST		49	
Specific fuels consumed.....	4-Digit Industry	7B	4	US	X	47	
Purchased electricity.....	4-Digit Industry	3	4, 6	US		43	
	2-Digit Industry	3	2, 3	US		-	
	General Summary	5	T, 2	US		-	
	State	3	T	ST		49	
Contract work.....	4-Digit Industry	3	4, 6	US		43	
	2-Digit Industry	3	2, 3	US		-	
	General Summary	5	T, 2	US		-	
	State	3	T	ST		49	
Total.....	See part A for detail						
<u>Metalworking operations, selected:</u>	Metalworking						See Metalworking publication for table details
<u>Organization, type of:</u>	Organization						See Organization publication for table details
<u>Payroll:</u>							
Production worker wages.....	See part A for detail						
All employees.....	General Summary	2	T, 2	US	X	-	
		6	T	US, D, ST, SMSA	X	-	
	State	1	T	ST, SMSA	X	48	
	See part A for additional detail						
<u>Products, value of:</u>							
4-digit, total.....	4-Digit Industry	5B	4	US		45	
		5C	4	US		45	
		6A	4	US	X	46	
		6C	4	US	X	46	

See footnotes at end of table.

B. ADDITIONAL CENSUS OF MANUFACTURES DATA ITEMS—Continued

(Includes additional detail for items shown in part A and other items)

Data item	Publication ¹	Table	Level of detail ²		His- toric data	Page No. of sample table ³	Comments
			Industry	Area			
<u>Products, value of--Continued</u>							
<u>4-digit, total--Continued</u>							
Made in this industry.....	4-Digit Industry	5B	4	US		45	
		5C	4	US		45	
Made in other industries...	4-Digit Industry	5B	4	US		45	
		5C	4	US		45	
5-digit, total.....	4-Digit Industry	5C	4	US		45	
		6A	4	US	X	46	
		6B	4	ST	X	46	
		6C	4	US	X	46	
Made in this industry.....	4-Digit Industry	5C	4	US		45	
Made in other industries....	4-Digit Industry	5C	4	US		45	
7-digit, total.....	4-Digit Industry	6A	4	US	X	46	
<u>Ratios:</u>							
Coverage.....	4-Digit Industry	1A	4	US	X	41	
		3	4, 6	US		43	
		5B	4	US		45	
	General Summary	3	2, 3, 4	US		-	
Operating.....	4-Digit Industry	1B	4	US	X	42	
Specialization.....	4-Digit Industry	1A	4	US	X	41	
		3	4, 6	US		43	
		5B	4	US		45	
	General Summary	3	2, 3, 4	US		-	
<u>Shipments, value of:</u>							
Products bought and resold....	4-Digit Industry	3	4, 6	US		43	
	2-Digit Industry	3	2, 3	US		-	
	General Summary	5	T, 2	US		-	
	State	3	T	ST		49	
Industry, total.....	4-Digit Industry	1C	4	US		42	
		5B	4	US		45	
		5C	5	US		45	
	See part A for additional detail						
Primary.....	4-Digit Industry	5B	4	US		45	
		5C	5	US		45	
Secondary.....	4-Digit Industry	5B	4	US		45	
		5C	5	US		45	
Miscellaneous.....	4-Digit Industry	5B	4	US		45	
		5C	5	US		45	

See footnotes at end of table.

B. ADDITIONAL CENSUS OF MANUFACTURES DATA ITEMS—Continued

(Includes additional detail for items shown in part A and other items).

Data item	Publication ¹	Table	Level of detail ²		His- toric data	Page No. of sample table	Comments
			Industry	Area			
<u>Textile machinery in place:</u>	Textile						See Textile publi- cation for table details
<u>Value added by manufacture.....</u>	4-Digit Industry Expenditures See part A for additional detail	1C 1	4 T	US US		42	
<u>Water use in manufacturing:</u>	Water						

¹A description of the content of these publications will be found in section A of chapter I.

<u>Publication</u>	<u>Long Titles</u>
Concentration	Concentration Ratios in Manufacturing (MC72-(SR)-2)
Divisional	Divisional Summary appears as part of U.S. General Summary (MC72(1)-1)
Expenditures	Expenditures for Plant and Equipment (MC72(1)-4)
Fuels	Fuels and Electric Energy Consumed (MC72(SR)-6 and (SR)-6S)
General Summary	U.S. General Summary (MC72(1)-1)
Government Operated	Manufacturing Activities in Government Establishments (MC72(SR)-1)
Inventories	Manufactures Inventories (MC72(1)-3)
Materials	Selected Materials Consumed (MC72(1)-5)
Metalworking	Selected Metalworking Operations (MC72(1)-7)
Organization	Type of Organization (MC72(SE)-3)
State	Final State Reports (MC72(3)-1 to 51)
Textile	Textile Machinery in Place (MC72(SR)-5)
Water	Water Use in Manufacturing (MC72(SR)-4)
2-Digit Industry	Two-Digit Industry Summary appears as part of U.S. General Summary (MC72(1)-1)
4-Digit Industry	Final Industry Reports (MC72(2)-20A to 39D)

²Level of detail

<u>Industry</u>	<u>Area</u>	
T	Total all industries	
2	2-Digit Major Group	
3	3-Digit Industry Group	
4	4-Digit Industry	
6	6-Digit Subindustry	
	US	United States
	R	Region
	D	Division
	ST	State
	SMSA	Standard Metropolitan Statistical Area
	CO	County
	PL	City or Place

³Indicates the page in this guide on which a sample of the particular table is presented.

C. TABLES ILLUSTRATING TYPES OF DATA PRESENTED

Tables From Final Manufactures' Industry Reports

A complete list of Final Industry Bulletins titled with the industries covered by each bulletin is provided in section A of chapter I.

Tables 1A through 5A present selected general statistics such as number of establishments, employment, value added by manufacture, and cost of materials for each industry. Table 1A shows comparable data as far back as 1958 for the industry

as a whole; Table 1B shows selected operating ratios as far back as 1958 for the industry as a whole; Table 1C shows selected general statistics items by the old and new Standard Industrial Classification (SIC) for those industries seriously affected by the change in the 1972 SIC revision; Table 2 distributes the data for 1972 and 1967 by geographic divisions and States; Table 3 shows all detail statistics such as inventories, capital expenditures, etc., for the industry; Table 4 groups the general statistics for each industry into nine size classes according to employment; and Table 5A shows general statistics for establishments classified: (1) according to the degree of specialization in all primary products of the industry, and (2) by the degree of specialization in the largest product class of the establishment.

TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials, fuels, etc. (million dollars)	Value of industry shipments (million dollars)	Capital expenditures, new (million dollars)	Gross value of fixed assets (million dollars)	End-of-year inventories (million dollars)	Specialization ratio (percent)	Coverage ratio (percent)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)								
INDUSTRY 2821.--PLASTICS MATERIALS AND RESINS															
1972 Census.....	323	263	54.8	632.8	35.0	74.3	370.0	2,160.5	2,328.2	4,478.2	253.2	(NA)	467.7	81	79
INDUSTRY 2822.--SYNTHETIC RUBBER															
1972 Census.....	59	34	11.8	138.8	8.2	16.2	88.5	491.7	610.6	1,089.4	35.5	(NA)	115.9	90	74
1971 ASM.....	(NA)	(NA)	12.2	137.8	8.2	16.6	86.2	476.7	558.6	1,042.6	49.0	740.0	108.9	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	12.8	135.0	8.7	17.6	84.9	460.9	558.7	1,006.6	49.5	697.1	115.7	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	12.5	127.0	8.5	17.0	78.9	500.7	549.8	1,046.2	79.8	878.2	98.8	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	12.2	115.7	8.3	16.8	72.4	453.0	519.0	974.2	78.1	743.3	91.9	(NA)	(NA)
1967 Census.....	48	28	12.6	110.4	8.5	16.8	66.5	404.9	521.2	926.9	75.2	691.9	97.0	89	81
1966 ASM.....	(NA)	(NA)	13.2	111.7	8.6	17.2	66.6	443.4	519.8	954.7	41.9	(NA)	93.5	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	11.9	100.0	7.8	15.9	59.3	391.9	456.8	847.7	35.1	(NA)	80.1	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	11.9	96.3	7.9	16.2	59.6	359.9	459.7	819.3	23.3	434.4	80.4	(NA)	(NA)
1963 Census.....	24	24	11.8	93.5	7.8	15.9	56.6	329.5	435.4	763.9	32.3	418.2	76.8	92	80
1962 ASM.....	(NA)	(NA)	11.6	88.2	7.7	15.7	53.6	318.4	439.0	759.0	41.9	401.5	74.7	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	10.9	79.8	7.5	14.5	49.1	291.8	406.3	696.4	59.5	(NA)	80.5	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	11.0	77.3	7.6	15.3	48.3	275.6	457.3	725.8	48.2	(NA)	78.8	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	9.9	67.8	6.9	14.1	43.9	281.5	434.8	703.3	17.3	(NA)	69.9	(NA)	(NA)
1958 Census.....	18	17	9.3	60.9	6.2	12.5	37.6	197.9	341.0	536.3	16.0	(NA)	53.8	95	83
INDUSTRY 2823.--CELLULOSIC MANMADE FIBERS															
1972 Census.....	20	14	19.0	149.8	16.1	32.8	119.7	252.7	351.7	627.9	41.9	(NA)	102.1	(D)	(D)
1971 ASM.....	(NA)	(NA)	20.2	149.8	17.1	33.6	119.1	349.6	331.3	662.4	52.9	623.7	133.0	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	21.5	142.0	17.8	35.1	109.1	322.6	299.6	620.5	38.2	614.3	104.3	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	29.9	142.7	24.2	49.1	148.7	499.2	384.5	872.2	82.8	871.1	104.3	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	29.9	142.7	24.2	49.1	148.7	499.2	384.5	872.2	82.8	871.1	104.3	(NA)	(NA)

Tables From Final Manufacturers' Industry Reports—Continued

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 2821.--PLASTICS MATERIALS AND RESINS											
1972 Census.....	11,547	(NA)	64	2,123	4.98	.52	.66	(NA)	39,425	30	29.08
INDUSTRY 2822.--SYNTHETIC RUBBER											
1972 Census.....	11,763	(NA)	69	1,976	5.46	.56	.69	(NA)	41,669	28	30.35
1971 ASM.....	11,295	60,670	67	2,024	5.19	.54	.67	.71	39,074	29	28.72
1970 ASM.....	10,547	54,460	68	2,023	4.82	.56	.69	.69	36,008	29	26.19
1969 ASM.....	10,160	70,260	68	2,000	4.64	.53	.65	.84	40,056	25	29.45
1968 ASM.....	9,484	60,930	68	2,024	4.31	.53	.65	.76	37,131	26	26.96
1967 Census.....	8,733	54,910	67	1,985	3.94	.56	.68	.75	32,022	27	24.04
1966 ASM.....	8,451	(NA)	65	2,015	3.86	.54	.66	(NA)	33,551	25	25.71
1965 ASM.....	8,415	(NA)	66	2,034	3.73	.54	.66	(NA)	32,987	26	24.65
1964 ASM.....	8,099	36,500	66	2,056	3.67	.56	.68	.53	30,282	27	22.15
1963 Census.....	7,898	35,440	66	2,029	3.56	.57	.69	.55	27,831	28	20.70
1962 ASM.....	7,605	34,610	67	2,034	3.40	.58	.69	.53	27,469	28	20.22
1961 ASM.....	7,304	(NA)	68	1,951	3.38	.58	.70	(NA)	26,700	27	20.07
1960 ASM.....	7,015	(NA)	69	2,017	3.16	.63	.74	(NA)	24,993	28	18.03
1959 ASM.....	6,846	(NA)	70	2,037	3.12	.62	.71	(NA)	28,442	24	20.03
1958 Census.....	6,583	(NA)	67	2,014	3.00	.64	.75	(NA)	21,386	31	15.79
INDUSTRY 2823.--CELLULOSIC MANMADE FIBERS											
1972 Census.....	7,884	(NA)	85	2,037	3.65	.56	.80	(NA)	13,300	59	7.70
1971 ASM.....	7,416	30,880	85	1,965	3.55	.50	.73	.94	17,307	43	10.41
1970 ASM.....	6,605	28,570	83	1,972	3.11	.48	.71	.99	15,005	44	9.19
1969 ASM.....	6,509	29,700	83	2,029	3.03			1.00	17,038		10.17
1968 ASM.....	6,670			2,000	3.00						

TABLE 1C. Composition of New (1972) SIC Industries Based on Old (1967) SIC

The data shown under "Composition of new industry" are 1972 totals, as follows: The "new industry" line shows data for the industry as now composed; the "old industry" lines show where these data would have been included if the industry definitions had not been changed. Stated otherwise, it shows where the new industry came from. The data shown under "Totals for

industries on old SIC" are 1972 totals for the industries before revision and reflect amounts classified in the specified new industry as well as in other new industries. The relationship between the data in the first five columns and the last five columns shows the portion of the old SIC industry that was classified into the specified, newly defined industry.

Industry	Composition of new industry					Totals for industries on old SIC				
	Establishments		All employees	Value added by manufacture	Value of shipments	Establishments		All employees	Value added by manufacture	Value of shipments
	Total	With 20 employees or more				Total	With 20 employees or more			
	(number)	(number)	(1,000)	(million dollars)	(million dollars)	(number)	(number)	(1,000)	(million dollars)	(million dollars)
New industry 2821.--Plastics Materials and Resins.....	323	263	54.8	2,160.5	4,478.2	(X)	(X)	(X)	(X)	(X)
Old industry 2821.--Plastics Materials and Resins.....	323	263	54.8	2,160.5	4,478.2	986	488	82.4	2,762.7	5,696.0

(X) Not applicable.

Tables From Final Manufacturers' Industry Reports--Continued

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees ¹	Value added by manufacture
	Total	With 20 employees or more	Number ¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
2821-- PLASTICS MATERIALS AND RESINS													
UNITED STATES,	323	263	54.8	632.8	35.0	74.3	370.0	2 160.5	2 328.2	4 478.2	253.2	(NA)	(NA)
NORTHEAST REGION	96	81	21.1	238.8	12.5	26.9	129.3	631.3	724.4	1 366.3	53.0	(NA)	(NA)
NEW ENGLAND DIVISION	30	28	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
NEW HAMPSHIRE	2	1	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
MASSACHUSETTS	21	20	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
CONNECTICUT	6	6	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION	66	53	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
NEW YORK	13	10	2.0	21.4	1.2	2.5	10.4	67.7	55.5	122.4	3.9	(NA)	(NA)
NEW JERSEY	30	24	5.3	59.4	3.3	7.9	36.2	160.5	214.5	385.3	13.8	(NA)	(NA)
PENNSYLVANIA	23	19	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
NORTH CENTRAL REGION	92	75	14.8	171.0	10.5	22.1	112.2	669.0	648.8	1 297.0	105.4	(NA)	(NA)

TABLE 3. Detailed Statistics: 1972

(See appendix, Explanation of Terms)

Item	Plastics materials and resins (SIC 2821)	Synthetic rubber (SIC 2822)	Cellulosic manmade fibers (SIC 2823)	Organic fibers, noncellulosic (SIC 2824)
PRIMARY PRODUCT SPECIALIZATION RATIO ¹ PERCENT	81	90	(0)	80
COVERAGE RATIO ² DO	79	74	(0)	97
ESTABLISHMENTS, TOTAL NUMBER	323	59	20	60
WITH 1 TO 19 EMPLOYEES DO	60	25	6	6
WITH 20 TO 99 EMPLOYEES DO	147	12	2	11
WITH 100 EMPLOYEES OR MORE DO	116	22	12	43
ALL EMPLOYEES, AVERAGE FOR YEAR 1,000	54.8	11.8	19.0	76.3
PAYROLL FOR YEAR, ALL EMPLOYEES MILLION DOLLARS	632.8	138.8	149.8	745.2
PRODUCTION WORKERS:				
AVERAGE FOR YEAR 1,000	35.0	8.2	16.1	56.7
MARCH DO	34.5	8.3	17.3	55.0
MAY DO	34.4	8.3	17.0	55.8
AUGUST DO	35.5	8.1	15.3	57.8
NOVEMBER DO	35.8	8.1	14.8	56.4
MAN-HOURS MILLIONS	74.3	16.2	32.8	113.1
JANUARY-MARCH DO	18.3	3.9	8.7	27.5
APRIL-JUNE DO	18.8	4.1	8.5	27.6
JULY-SEPTEMBER DO	18.1	4.1	7.7	26.4
OCTOBER-DECEMBER DO	19.2	4.1	7.9	29.6
WAGES MILLION DOLLARS	370.0	88.5	119.7	485.3
COST OF MATERIALS, ETC., TOTAL DO	2 328.2	610.6	351.7	1 564.9
MATERIALS, PARTS, CONTAINERS, ETC., CONSUMED DO	2 120.0	556.5	286.2	1 414.4
COST OF REALES DO	59.3	(0)	(0)	35.0
FUELS CONSUMED DO	70.3	16.3	34.0	57.9
PURCHASED ELECTRIC ENERGY DO	65.7	14.0	5.7	45.1
CONTRACT WORK DO	12.8	(0)	(0)	12.4
VALUE OF SHIPMENTS, INCLUDING REALES DO	4 478.2	1 089.4	627.9	3 601.4
VALUE OF REALES DO	64.6	(0)	(0)	37.1
VALUE ADDED BY MANUFACTURE DO	2 160.5	491.7	252.7	2 031.1
MANUFACTURERS' INVENTORIES:				
BEGINNING OF YEAR, TOTAL DO	431.3	104.7	140.1	440.4
FINISHED PRODUCTS DO	244.7	69.5	61.5	277.2
WORK IN PROCESS DO	45.3	6.7	28.6	58.6
MATERIALS, SUPPLIES, FUEL, ETC. DO	141.2	28.7	50.1	104.6
END OF YEAR, TOTAL DO	467.7	115.9	102.1	440.1
FINISHED PRODUCTS DO	255.1	78.5	50.0	262.2
WORK IN PROCESS DO	45.5	10.3	16.5	68.3
MATERIALS, SUPPLIES, FUEL, ETC. DO	167.1	27.1	35.5	104.6
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL DO	256.3	36.7	41.9	374.4
NEW PLANT AND EQUIPMENT, TOTAL DO	253.2	35.5	41.9	365.0
NEW STRUCTURES AND ADDITIONS TO PLANT DO	45.5	3.5	2.6	43.0
NEW MACHINERY AND EQUIPMENT DO	207.8	32.0	39.2	322.0
USED PLANT AND EQUIPMENT DO	2.9	1.2	(2)	9.4

(D) Withheld to avoid disclosing figures for individual companies. (Z) Less than half of the unit of measurement shown.

¹The proportion of product shipments (both primary and secondary) of the industry represented by primary products.²The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

Tables From Final Manufacturers' Industry Reports—Continued

TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
2821-- PLASTICS MATERIALS AND RESINS											
ESTABLISHMENTS, TOTAL	323	54.8	632.8	35.0	74.3	370.0	2 160.5	2 328.2	4 478.2	253.2	467.7
ESTABLISHMENTS WITH AN AVERAGE OF--											
1 TO 4 EMPLOYEES	15	(2)	.4	(2)	(2)	.2	1.8	1.2	2.9	.1	.2
5 TO 9 EMPLOYEES	15	.1	1.2	.1	.1	.5	5.1	4.3	9.5	.3	.6
10 TO 19 EMPLOYEES	30	.5	4.4	.3	.6	2.3	23.3	29.8	50.4	1.3	5.5
20 TO 49 EMPLOYEES	92	3.0	29.9	1.9	4.2	17.2	139.5	220.7	395.0	18.7	33.7
50 TO 99 EMPLOYEES	55	3.8	38.0	2.6	5.5	22.3	126.3	191.5	315.1	12.1	30.9
100 TO 249 EMPLOYEES	66	10.6	113.6	6.6	14.4	67.8	457.1	565.7	1 034.1	63.2	111.6
250 TO 499 EMPLOYEES	26	9.1	106.9	6.3	13.9	70.3	434.3	447.5	882.4	66.7	94.0
500 TO 999 EMPLOYEES	14	9.3	112.6	5.7	12.2	62.3	347.7	384.1	737.9	41.6	75.7
1,000 TO 2,499 EMPLOYEES	8	18.5	225.9	11.5	23.3	127.2	614.5	483.3	1 091.0	48.8	117.2
2,500 EMPLOYEES OR MORE	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
2822-- SYNTHETIC RUBBER											
ESTABLISHMENTS, TOTAL	59	11.8	138.8	8.2	16.2	88.5	491.7	610.6	1 089.4	35.5	115.9
ESTABLISHMENTS WITH AN AVERAGE OF--											
1 TO 4 EMPLOYEES E0	10	(2)	.1	(2)	(2)	.1	.6	.7	1.3	.1	.1
5 TO 9 EMPLOYEES E1	6	(2)	.4	(2)	.1	.3	1.9	1.4	3.4	.1	.2
10 TO 19 EMPLOYEES E3	9	.1	1.0	.1	.2	.6	4.4	3.8	8.2	.7	.6
20 TO 49 EMPLOYEES	8	.3	2.6	.2	.4	1.4	5.0	11.8	16.6	.2	1.3
50 TO 99 EMPLOYEES	4	.3	2.6	.1	.7	1.1	8.4	11.6	20.1	.4	2.5
100 TO 249 EMPLOYEES	6	1.1	11.8	.8	1.7	8.7	56.8	40.9	97.3	1.7	9.2
250 TO 499 EMPLOYEES	4	2.1	25.1	1.2	2.5	2.5	136.1	212.7	5.7	5.7	21.4
500 TO 999 EMPLOYEES	1	1.1	95.4	5.6	11.1	11.1	729.9	729.9	729.9	729.9	729.9

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number	Payroll	Number	Man-hours	Wages				
			(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)				
2821 PLASTICS MATERIALS AND RESINS											
	ENTIRE INDUSTRY	323	54.8	632.8	35.0	74.3	370.0	2 160.5	2 328.2	4 478.2	253.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	249	36.3	414.1	23.0	49.5	239.0	1 433.5	1 560.5	2 982.2	176.4
28213 THERMOPLASTIC RESINS AND PLASTICS MATERIALS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)											
	ENTIRE INDUSTRY	194	46.1	539.0	29.4	62.1	317.0	1 895.4	1 888.7	3 779.2	242.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	140	24.8	285.3	16.1	34.3	169.8	1 040.1	1 098.7	2 127.0	152.2
28214 THERMOSETTING RESINS AND PLASTICS MATERIALS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)											
	ENTIRE INDUSTRY	121	9.5	103.1	6.0	13.0	58.6	333.3	458.0	788.2	27.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	79	6.4	67.4	4.0	8.6	38.1	218.1	277.1	496.5	11.8
2822 SYNTHETIC RUBBER											
	ENTIRE INDUSTRY	59	11.8	138.8	8.2	16.2	88.5	491.7	610.6	1 089.4	35.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	52	8.9	100.8	6.5	12.9	68.6	371.3	517.3	879.0	19.0
2823 CELLULOSIC MANMADE FIBERS											
	ENTIRE INDUSTRY	20	19.0	149.8	16.1	32.8	119.7	252.7	351.7	627.9	41.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	17	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
28231 ACETATE YARN (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)											
	ENTIRE INDUSTRY	5	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	5	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
28232 RAYON YARN, VISCOSE AND CUPRAMMONIUM PROCESSES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)											
	ENTIRE INDUSTRY	8	10.6	83.5	9.2	18.9	70.6	139.9	230.6	371.6	20.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	6	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
2824 ORGANIC FIBERS, NONCELLULOSIC											
	ENTIRE INDUSTRY	60	76.3	745.2	56.7	113.1	485.3	2 031.1	1 564.9	3 601.4	365.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	50	42.2	416.3	31.3	63.9	268.9	1 156.0	937.1	2 085.8	287.7
28241 POLYAMIDE FIBERS, NYLON, EXC. NONTEXTILE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)											
	ENTIRE INDUSTRY	23	36.9	354.5	28.3	55.5	240.5	912.8	617.8	1 540.6	95.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	14	13.7	136.8	10.3	20.5	89.3	272.1	224.1	492.5	36.1
28242 OTHER NONCELLULOSIC SYNTHETIC ORGANIC FIBERS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT)											
	ENTIRE INDUSTRY	30	39.3	390.2	28.4	57.4	244.3	1 116.7	946.0	2 057.9	269.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION	25	22.3	217.5	16.3	34.0	138.8	684.4	584.0	1 259.2	220.4

(D) Withheld to avoid disclosing figures for individual companies.

Tables From Final Manufacturers' Industry Reports—Continued

Tables 5B and 5C show the value of shipments divided between shipment of products classified in the industry (primary products), products belonging to other industries (secondary products), and miscellaneous receipts. Shipment of the industry's primary products are divided by primary products

made in this industry and made in other industries. Table 5B provides industry total level data, and Table 5C provides product class level data. A graphic presentation of the relationship of the data these two tables and the other table of the final manufacturer's industry reports is provided on page 32.

TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. B & C (percent)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. F (percent)
	A	B	C	D	E	F	G	H	I	
2821	Plastics materials and resins.....1972..	4,478.2	3,550.1	850.5	77.5	81	4,486.4	3,550.1	936.3	79
	1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2822	Synthetic rubber.....1972..	1,089.4	950.5	110.6	28.3	90	1,288.6	950.5	338.1	74
	1967..	926.9	814.4	97.4	15.2	89	1,004.9	814.4	190.5	81
2823	Cellulosic manmade fibers.....1972..	627.9	(D)	(D)	(D)	(D)	684.6	(D)	(D)	(D)
	1967..	902.8	(D)	(D)	3.3	(D)	681.1	(D)	(D)	(D)
2824	Organic fibers, noncellulosic.....1972..	3,601.4	2,853.6	708.2	39.5	80	2,949.1	2,853.6	95.5	97
	1967..	2,033.2	1,863.9	159.9	9.4	92	1,974.1	1,863.9	110.2	94

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 5A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Plastics materials and resins (SIC 2821)	Synthetic rubber (SIC 2822)	Cellulosic manmade fibers (SIC 2823)	Organic fibers, noncellulosic (SIC 2824)	Other industries
	Total shipments and miscellaneous receipts.....	(X)	4,478.2	1,089.4	627.9	3,601.4	(X)
2821-	Plastics materials and resins....	4,486.4	3,550.1	(5-10)	-	(20-50)	904.4
28213	Thermoplastic resins.....	3,576.8	2,811.7	(5-10)	-	(20-50)	733.3
28214	Thermosetting resins.....	904.9	(500-750)	-	-	-	(100-200)
28210	Plastics and resin materials, n.s.k.....	4.7	(2-5)	-	-	-	(under 2)
2822-	Synthetic rubber.....	1,288.6	81.2	950.5	-	-	256.9
2823-	Cellulosic manmade fibers.....	684.6	-	-	(500-1,000)	(100-200)	-
28231	Acetate yarn.....	295.3	-	-	(200-500)	(50-100)	-
28232	Rayon yarn, viscose and cupramonium processes.....	387.8	-	-	(200-500)	(50-100)	-
28230	Cellulosic manmade fibers, n.s.k.....	1.5	-	-	1.5	-	-
2824-	Organic fibers, noncellulosic....	2,949.1	(2-5)	-	(20-50)	2,853.6	(50-100)
28241	Polyamide fibers, nylon except monofilaments.....	1,251.8	-	-	(10-20)	(1,000-2,500)	-
28242	Other noncellulosic synthetic organic fibers.....	1,694.1	(2-5)	-	(20-50)	1,615.1	(50-100)
28240	Organic fibers, noncellulosic, n.s.k.....	3.1	-	-	-	(2-5)	(under 2)

See footnotes at end of table.

Tables From Final Manufacturers' Industry Reports—Continued

Tables 6A, 6B, and 6C.—Table 6A shows quantity and value of individual products (7-digit). Where significant, additional measures such as interplant transfers and production for use within the same establishment are also shown. Table 6B

shows product class shipments (5-digit) by region, division, and State. Table 6C shows product shipment data by industry (4-digit) and product class (5-digit) with historic data.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	1972			1967		
			Production for all purposes	Total product shipments including interplant transfers		Production for all purposes	Total product shipments including interplant transfers	
				Quantity	Value (million dollars)		Quantity	Value (million dollars)
2821--	PLASTICS MATERIALS AND RESINS, TOTAL ¹.....	.....	(X)	(X)	4,486.4	(X)	(X)	2,784.9
28213--	Thermoplastic Resins.....	.....	(X)	(X)	3,576.8	(X)	(X)	1,924.8
28214--	Thermosetting Resins.....	.....	(X)	(X)	904.9	(X)	(X)	544.8
28216--	Synthetic Resins for Protective Coatings.....	Mil. lb..	(X)	(X)	(²)	1,228.0	1,176.8	286.6
28216 11	For use in latex base emulsion paints including acrylic, styrene-butadiene, vinyl, etc.....	...do....	(X)	(X)	(X)	505.0	480.2	125.2
	For use in other.....	.....	(X)	(X)	(X)	725.5	697.9	---

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
THERMOPLASTIC RESINS AND PLASTICS MATERIALS (28213)			THERMOSETTING RESINS AND PLASTICS MATERIALS (28214)--Continued		
United States.....	3,576.8	1,924.8	South Region.....	268.4	130.6
Northeast Region.....	790.1	443.7	South Atlantic Division.....	129.8	74.3
New England Division.....	247.0	162.8	Delaware.....	BB	CC
New Hampshire.....	BB	---	Maryland.....	BB	BB
Rhode Island.....	193.9	---	.....	BB	(NA)
			.....	CC	---

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments: 1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 ¹	1970 ¹	1969 ¹	1968 ¹	1967	1963	1958
2821	Plastics materials and resins.....	4,486.4	(NA)	(NA)	(NA)	(NA)	2,784.9	(NA)	(NA)
28213	Thermoplastic resins and plastics materials.....	3,576.8	3,587.3	3,366.5	3,364.8	3,151.7	2,756.2	2,003.7	(NA)
28214	Thermosetting resins and plastics materials.....	904.9							
28210	Plastics materials and resins, n.s.k.....	4.7	(NA)	(NA)	(NA)	(NA)	28.7	(NA)	(NA)
28220	Synthetic rubber (vulcanizable elastomers).....	1,288.6	1,153.2	1,113.5	1,157.9	1,092.9	1,004.9	862.3	603.9
2823	Cellulosic manmade fibers.....	684.6	680.1	664.8	757.9	751.6	681.1	648.9	582.9
28231	Acetate yarn.....	295.3	324.0	340.1	368.1	339.8	339.7	250.3	210.7
28232	Rayon yarn, viscose and cuprammonium processes.....	387.8	356.1	324.7	389.8	411.8	340.5	398.6	372.3
28230	Cellulosic manmade fibers, n.s.k.....	1.5	-	-	-	-	.9	-	-
2824	Organic fibers, noncellulosic.....	2,949.1	2,821.3	2,468.4	2,552.0	2,506.4	1,974.1	1,368.3	748.3
28241	Polyamide fibers, nylon, except nontextile monofilaments...	1,251.8	1,172.5	1,096.5	1,215.3	1,297.5	1,068.4	896.1	(NA)
28242	Other noncellulosic synthetic organic fibers.....	1,694.1	1,648.8	1,371.9	1,336.7	1,208.9	905.3	472.2	(NA)
28240	Organic fibers, noncellulosic, n.s.k.....	3.1	-	-	-	-	.4	-	-

- Represents zero. (NA) Not available.

¹These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period.

Tables From Final Manufacturers' Industry Reports—Continued

Table 7A shows quantity and value of selected materials consumed by industry. Table 7B shows quantity and value of fuels and electric energy consumed.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Basis	Unit of measure	1972		
				Consumption of materials received from other establishments		Materials made and consumed in same plant
				Quantity	Delivered cost (million dollars)	
INDUSTRY 2821.--PLASTICS MATERIALS AND RESINS						
	Materials, containers, and supplies, total.....			(X)	2,120.0	(X)
286925	Acrylates and methacrylates, monomers.....	100%.....	Million lb....	789.5	101.6	(D)
286921	Acrylonitrile.....	.....	.....do.....	274.1	30.9	-
286920	Alcohols, except ethyl.....	.....	Million gal...	490.4	20.1	-
286901	Carbon black.....	.....	Million lb....	(D)	(D)	-
286924	Cellulose acetate.....	100%.....	.....do.....	(D)	(D)	-
291171	Extender oils of petroleum origin.....	.....	.....do.....	(S)	6.8	(X)
286923	Formaldehyde.....	37% HCHO.....	.....do.....	1,362.2	30.8	1,281.9
284141	Glycerin.....	100%.....	.....do.....	26.1	5.7	-
	Liquefied refinery and petroleum gases:					
291167	Butadiene.....	100%.....	.....do.....	344.6	28.1	-
291165	Ethylene.....	100%.....	.....do.....	4,356.7	125.4	(D)
291168	Other, (including isoprene, propylene, isobutylene, etc.).....	.....	.....do.....	1,168.5	48.9	(D)
286515	Melamine.....	100%.....	.....do.....	50.7	8.7	(D)
286513	Phenol.....	100%.....	.....do.....	629.2	43.0	(D)
286514	Phthalic anhydride.....	100%.....	.....do.....	227.2	19.2	(D)
286935	Plasticizers.....	.....	.....do.....	205.9	58.5	(D)
	Rubber process accelerators, antioxidants					

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost (million dollars)	Quantity	Cost (million dollars)
INDUSTRY 2821.--PLASTICS MATERIALS AND RESINS						
	Purchased fuels and electric energy.....		(X)	119.9	(X)	(NA)
	Purchased fuels, total.....		(X)	63.5	(X)	(NA)
121005	Coal.....	1,000 s. tons....	1,419.4	14.5	(NA)	(NA)
331212	Coke.....	.....do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	4,886.8	18.6	(NA)	(NA)
291141	Distillate.....	.....do.....	1,610.3	7.2	(NA)	(NA)
291151	Residual.....	.....do.....	3,276.5	11.4	(NA)	(NA)
131300	Natural gas.....	Billion ft ³	52.3	21.3	(NA)	(NA)
960011	Other fuels.....	.....	(X)	6.2	(X)	(NA)
975000	Fuels, n.s.k.....	.....	(X)	2.8	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	6,358.4	56.4	(NA)	(NA)
	Quantity of electric energy generated less quantity sold.....	.....do.....	411.9	-	(NA)	-
	Total energy used for heat and power.....	Bill. kWh equiv....	45.7	-	(NA)	(NA)
INDUSTRY 2822.--SYNTHETIC RUBBER						
	Purchased fuels and electric energy.....		(X)	32.2	(X)	24.4
	Purchased fuels, total.....		(X)	18.3	(X)	13.6
121005	Coal.....	1,000 s. tons....	238.2	2.0	283.9	1.4
331212	Coke.....	.....do.....	-	-	-	-
	Fuel oil, total.....	1,000 bbl (42 gal)	175.6	.8	44.6	.1
291141	Distillate.....	.....do.....	162.1	.7	(D)	(D)
291151	Residual.....	.....do.....	13.4	.1	(D)	(D)
131300	Natural gas.....	Billion ft ³	49.0	12.1	36.3	9.1
960011	Other fuels.....	.....	(X)	3.4	(X)	2.4
975000	Fuels, n.s.k.....	.....	-	-	-	6

Tables From Final Manufacturers' State Report

Table 1 of the area reports shows the total number of employees and payrolls for the State for selected years separated between employment at operating manufacturing establishments and central administrative offices and auxiliaries. Comparable detail is included for all standard metropolitan statistical areas in the State.

Table 2 of the area reports presents general statistics for the State and its standard metropolitan statistical areas with 40,000 manufacturing employees or more as far back as comparable data are available or to 1958, whichever is later.

TABLE 1. Manufacturing Employment Statistics for the State and Standard Metropolitan Statistical Areas: 1972 and Earlier Years

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Administrative offices and auxiliaries	
	Employees	Payroll	Employees	Payroll	Employees	Payroll
	(1,000)	(million dollars)	(1,000)	(million dollars)	(1,000)	(million dollars)
California:						
1972.....	1,544.3	15,448.0	1,481.2	14,632.2	63.1	815.8
1967.....	1,583.5	12,514.5	1,537.6	12,024.4	45.9	490.2
1963.....	1,397.6	9,612.2	1,350.7	9,173.2	46.9	439.0
1958.....	1,217.3	6,876.3	1,181.8	6,601.1	35.6	275.2
STANDARD METROPOLITAN STATISTICAL AREAS						
Anaheim-Santa Ana-Garden Grove:						
1972.....	131.1	1,368.8	127.9	1,319.1	3.2	49.7
1967.....	125.8	1,106.8	124.2	1,090.1	1.6	16.7
1963.....	96.9	687.3	93.7	662.8	3.2	24.5
1958.....	31.8	175.9	31.2	171.2	.6	4.8
Bakersfield:						
1972.....	6.5	58.5	6.5	58.1	(%)	.4
1967.....	6.0	43.0	6.0	42.7	(%)	.3
1963.....	"	38.4	5.8	38.1	(%)	.3
1958.....	"	30.4	"	29.6	"	2.8

TABLE 2. General and Comparative Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1972 and Earlier Years

(Selected standard metropolitan statistical areas include those with 40,000 manufacturing employees or more)

Year ¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	Comparative indexes and U.S. employment			
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages					Percent of U.S. employment	Index of employment change	United States	
														Index of employment change	Employees
(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(percent)	(1958=100)	(1958=100)	(1,000)					
CALIFORNIA															
1972 Census.	35,713	11,160	1,544.3	15,448.0	1,021.0	1,974.9	8,438.0	31,262.6	32,611.5	62,976.2	1,646.5	8.17	127	118	18,919.1
1971 ASM....	(NA)	(NA)	1,447.3	13,799.1	937.2	1,843.5	7,382.3	27,568.2	27,541.7	54,440.3	1,416.9	7.88	119	115	18,363.1
1970 ASM....	(NA)	(NA)	1,553.1	14,056.8	1,003.9	1,981.3	7,556.3	26,358.3	26,435.4	52,357.2	1,567.4	8.08	128	120	19,217.2
1969 ASM....	(NA)	(NA)	1,631.8	14,151.1	1,075.2	2,119.6	7,701.1	27,016.9	27,242.9	53,937.0	1,720.9	8.14	134	125	20,035.5
1968 ASM....	(NA)	(NA)	1,610.3	13,378.9	1,061.6	2,112.9	7,377.8	25,348.3	26,162.1	51,134.6	1,536.3	8.25	132	122	19,527.6
1967 Census.	31,962	10,012	1,583.5	12,514.5	1,044.9	2,089.7	6,877.8	23,393.6	24,156.7	47,106.1	1,529.1	8.19	130	121	19,323.2
1966 ASM....	(NA)	(NA)	1,501.8	11,381.4	984.0	1,981.9	6,266.6	21,331.1	23,030.7	43,705.5	1,471.2	7.89	123	119	19,024.5
1965 ASM....	(NA)	(NA)	1,400.6	10,301.3	911.8	1,838.2	5,582.6	18,950.3	20,949.6	39,495.4	1,181.5	7.78	115	112	18,010.2
1964 ASM....	(NA)	(NA)	1,383.7	9,904.7	879.7	1,770.2	5,234.5	18,016.9	19,667.8	37,514.0	1,032.4	8.01	114	108	17,268.5
1963 Census.	32,201	9,079	1,397.6	9,612.2	897.5	1,791.4	5,195.2	17,185.0	(NA)	(NA)	985.1	8.24	115	106	16,958.4
1962 ASM....	(NA)	(NA)	1,359.1	8,976.0	886.8	1,791.1	5,010.9	15,868.4	(NA)	(NA)	912.2	8.11	112	105	16,748.9
1961 ASM....	(NA)	(NA)	1,304.6	8,203.9	859.7	1,713.4	4,640.0	14,305.0	(NA)	(NA)	696.7	7.99	107	102	16,323.8
1960 ASM....	(NA)	(NA)	1,306.4	7,974.5	869.4	1,734.3	4,564.2	14,174.4	(NA)	(NA)	774.8	7.80	107	104	16,744.1
1959 ASM....	(NA)	(NA)	1,295.2	7,668.3	884.4	1,757.4	4,494.8	13,501.4	(NA)	(NA)	725.1	7.78	106	104	16,657.0
1958 Census.	28,735	7,858	1,217.3	6,876.3	838.7	1,656.7	4,107.2	12,048.0	(NA)	(NA)	753.2	7.60	100	100	16,025.2
ANAHEIM-SANTA ANA-GARDEN GROVE SMSA															
1972 Census.	2,820	839	131.1	1,368.8	82.0	161.4	678.9	2,732.6	1,961.4	4,681.2	144.5	0.70	412	118	18,919.1
1971 ASM....	(NA)	(NA)	108.7	1,095.7	64.9	136.0	525.9	2,064.3	1,505.1	3,687.8	105.7	.59	342	115	18,363.1
1970 ASM....	(NA)	(NA)	121.5	1,180.3	69.1	144.8	534.1	2,141.6	1,466.1	3,589.7	110.5	.63	382	120	19,217.2
1969 ASM....	(NA)	(NA)	"	1,231.9	72.4	150.6	"	"	1,484.6	3,587.1	117.7	"	412	"	"

Tables From Final Manufacturers' State Report—Continued

Table 3 shows all detail statistics such as inventories, capital expenditures, etc., for the State with data for administrative records shown in a separate column.

TABLE 3. Detailed Statistics: 1972 and 1967

Item	1972		1967	
	Total	ADM ¹ record only	Total	ADM ¹ record only
ESTABLISHMENTS, TOTAL NUMBER	35 713	14 898	31 962	12 036
WITH 1 TO 19 EMPLOYEES	24 553	14 838	21 950	12 036
WITH 20 TO 99 EMPLOYEES	8 297	59	7 446	-
WITH 100 EMPLOYEES OR MORE	2 863	1	2 566	-
ALL EMPLOYEES, AVERAGE FOR YEAR 1,000	1 544.3	49.9	1 583.5	26.8
PAYROLL FOR YEAR, ALL EMPLOYEES MILLION DOLLARS	15 448.0	348.1	12 514.5	149.4
PRODUCTION WORKERS:				
AVERAGE FOR YEAR 1,000	1 021.0	42.7	1 044.9	27.8
MARCH	980.9	43.0	995.0	27.8
MAY	1 002.2	43.0	1 013.0	27.5
AUGUST	1 065.7	42.8	1 057.7	28.0
NOVEMBER	1 035.0	42.1	1 114.0	28.0
MAN-HOURS MILLIONS	1 974.9	75.2	2 089.7	45.2
JANUARY-MARCH	467.8	18.9	505.5	13.2
APRIL-JUNE	493.6	18.9	512.9	9.6
JULY-SEPTEMBER	509.4	18.7	533.0	11.0
OCTOBER-DECEMBER	504.1	18.7	538.1	11.4
WAGES MILLION DOLLARS	8 438.0	235.7	6 877.8	106.2
COST OF MATERIALS, ETC., TOTAL				
MATERIALS, PARTS, CONTAINERS, ETC. CONSUMED	32 611.5	632.2	24 156.7	292.9
COST OF REALES	28 488.7	578.7	20 746.9	241.7
FUELS CONSUMED	2 249.6	.2	1 564.8	22.7
PURCHASED ELECTRIC ENERGY	318.8	5.8	213.1	3.6
CONTRACT WORK	405.1	7.9	259.0	4.4
VALUE OF SHIPMENTS, INCLUDING REALES	1 149.3	39.7	1 372.9	20.5
VALUE OF RESALES	62 976.2	1 423.3	47 106.1	660.0
VALUE ADDED BY MANUFACTURE	2 752.3	.3	1 899.8	29.4
VALUE ADDED BY MANUFACTURE	31 262.6	791.1	23 393.6	367.2
MANUFACTURERS' INVENTORIES:				
BEGINNING OF YEAR, TOTAL	11 139.6	191.2	6 502.3	79.1
FINISHED PRODUCTS	3 036.0	70.7	2 196.8	29.7
WORK IN PROCESS	5 573.6	56.5	2 611.3	18.1
MATERIALS, SUPPLIES, FUEL, ETC.	2 530.0	64.1	1 734.3	31.3
END OF YEAR, TOTAL	12 315.1	191.3	7 931.4	80.4
FINISHED PRODUCTS	3 287.5	70.7	2 234.4	30.1
WORK IN PROCESS	6 258.6	56.4	3 620.7	18.7
MATERIALS, SUPPLIES, FUEL, ETC.	2 769.0	64.2	2 076.3	31.6
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL				
NEW PLANT AND EQUIPMENT, TOTAL	1 780.3	45.8	1 612.2	19.7
NEW STRUCTURES AND ADDITIONS TO PLANT	1 646.5	45.8	1 529.1	18.6
NEW MACHINERY AND EQUIPMENT	423.1	11.5	491.3	6.1
USED PLANT AND EQUIPMENT	1 223.4	34.3	1 037.8	12.5
USED PLANT AND EQUIPMENT	133.8	-	83.1	1.1

- Represents zero.

¹The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments.

Tables From Final Manufacturers' State Report—Continued

Tables 4 through 8 of the area reports have the same columnar format and cover general statistics items by geographic

breakdown and by industries and industry groups within the State and its geographic subdivisions.

TABLE 4. General Statistics for Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1972 and 1967

Standard metropolitan statistical area, county, and city	1972										1967		
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees	Value added by manufacture
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)	
CALIFORNIA, TOTAL	35 713	11 160	1 544.3	15 448.0	1 021.0	1 974.9	8 438.0	31 262.6	32 611.5	62 976.2	1 646.5	1 583.5	23 393.6
STANDARD METROPOLITAN STATISTICAL AREAS													
ANAHEIM-SANTA ANA-GARDEN GROVE	2 820	839	131.1	1 368.8	82.0	161.4	678.9	2 732.6	1 961.4	4 681.2	144.5	125.8	1 963.8
BAKERSFIELD	280	74	6.5	58.5	4.6	9.2	37.1	146.0	246.9	395.4	14.5	6.0	96.0
FRESNO	537	164	18.6	149.5	13.8	25.9	96.7	408.3	601.8	999.2	18.6	15.5	227.0
LOS ANGELES-LONG BEACH	18 025	5 916	780.0	7 646.3	525.8	1 014.8	4 220.0	15 257.1	15 360.1	29 031.6	687.6	855.4	12 088.2
MODESTO	249	90	15.6	129.1	12.7	23.7	97.3	318.8	564.1	884.5	34.6	(1)	(1)
OXNARD-SIMI VALLEY-VENTURA	308	104	14.8	142.2	10.1	20.0	78.0	288.5	215.3	489.6	21.4	10.8	160.5
RIVERSIDE-SAN BERNARDINO-ONTARIO	1 311	407	56.2	513.2	41.1	80.4	339.3	996.7	1 124.5	2 125.1	63.1	46.4	678.7
SACRAMENTO	646	177	21.8	213.9	14.7	27.9	123.7	546.2	692.4	1 238.1	29.2	26.6	571.3
SALINAS-SEASIDE-MONTEREY	194	47	7.7	66.4	5.8	11.0	43.8	219.1	208.2	426.3	13.5	7.0	130.5
SAN DIEGO	1 400	363	64.7	658.5	42.2	82.5	367.2	1 185.2	909.6	2 102.3	53.4	63.5	803.8
SAN FRANCISCO-OAKLAND	4 933	1 480	181.4	1 921.3	116.4	221.2	1 076.1	3 817.7	5 129.9	8 948.7	216.5	197.9	3 160.1
SAN JOSE	1 743	559	134.9	1 601.9	64.9	128.3	581.8	2 896.3	2 295.3	5 084.8	164.7	120.3	1 907.5
SANTA BARBARA-SANTA MARIA-LOMPOC	293	77	10.1	99.5	6.0	11.5	42.4	169.7	144.0	303.1	10.2	8.5	108.6
SANTA CRUZ	195	52	6.7	50.3	5.6	10.2	36.8	119.7	140.3	258.2	10.5	(1)	(1)
SANTA ROSA	344	86	7.9	63.9	6.0	11.1	41.2	136.7	176.1	306.0	8.9	(1)	(1)
STOCKTON	341	132	18.2	168.1	14.4	27.5	124.9	498.6	607.7	1 103.0	25.6	16.5	323.4
VALLEJO-FAIRFIELD-NAPA	176	63	6.2	56.5	4.5	8.6	36.9	165.7	318.5	464.8	16.9	6.1	101.7
COUNTIES													
ALAMEDA	1 811	625	79.4	841.5	54.0	103.5	511.8	1 791.5	2 265.2	4 056.1	95.8	79.9	1 291.3
AMADOR	25	4	0.7	6.4	0.7	1.3	6.0	15.9	18.2	33.2	(0)	0.7	8.3
BUTTE	144	37	3.8	30.1	3.1	5.9	21.7	69.2	110.7	177.3	3.4	2.9	40.3
CALAVERAS	21	4	0.5	5.6	0.4	0.8	4.1	9.5	8.0	17.1	1.0	0.6	10.6
COLUSA	13	1	0.2	1.8	0.2	0.3	1.3	2.1	13.4	19.0	0.5	0.3	3.8
CONTRA COSTA	489	162	25.9	294.1	17.3	32.7	172.8	635.7	1 522.3	2 163.5	53.5	29.7	602.1
DEL NORTE	37	12	1.6	15.3	1.5	3.0	13.1	31.8	46.5	72.2	2.8	1.8	22.2
EL DORADO	64	11	1.1	9.2	1.0	1.9	7.7	18.1	25.1	44.5	4.7	1.0	10.4
FRESNO	537	164	18.6	149.5	13.8	25.9	96.7	408.3	601.8	999.2	18.6	15.5	227.0
	30	8	0.6	6.1	0.5	1.0	4.3	11.7	20.0	33.2	1.1	0.9	10.4
CITIES WITH 450 OR MORE EMPLOYEES													
ALAMEDA	43	16	2.1	23.0	1.3	2.4	14.4	30.0	37.6	67.8	1.1	2.2	30.2
ALHAMBRA	130	36	2.5	22.7	2.0	4.0	15.0	39.7	33.5	72.5	2.1	3.8	45.1
ANAHEIM	400	155	30.4	348.1	15.6	30.9	126.9	672.7	523.6	1 201.8	27.6	18.9	278.0
ANDERSON	17	4	1.3	14.3	1.2	2.3	12.3	19.2	53.0	71.7	2.0	(NA)	(NA)
ANTIOCH	23	10	1.9	18.3	1.5	2.7	13.6	49.2	88.0	138.5	4.1	1.7	26.7
ARCADIA	85	31	2.3	20.0	1.5	4.2	12.0	41.1	23.1	62.7	1.8	1.3	17.8
ARCATA	48	15	1.8	15.0	1.6	3.2	12.5	33.0	37.0	68.8	1.4	0.9	9.9
AZUSA	124	47	5.4	56.9	3.7	7.0	28.1	96.7	102.9	196.6	6.2	8.7	85.2
BAKERSFIELD	110	24	2.1	19.0	1.4	2.9	11.3	45.4	85.2	130.7	2.8	2.7	35.7
BALDWIN PARK	53	16	2.0	20.9	1.0	2.0	8.2	34.8	21.5	58.6	0.9	0.9	15.6

See footnotes at end of table.

Tables From Final Manufacturers' State Report—Continued

TABLE 5. General Statistics by Industry Group and Industry: 1972 and 1967

Ind. code	Industry	1972										1967		
		Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees	Value added by manufacture
		Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages						
(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)		
	ALL INDUSTRIES, TOTAL	35 713	11 160	1 544.3	15 448.0	1 021.0	1 974.9	8 438.0	31 262.6	32 611.5	62 976.2	1 646.5	1 583.5	23 393.6
20	FOOD AND KINDRED PRODUCTS	2 594	1 182	156.1	1 370.6	112.4	212.5	822.4	4 051.1	7 793.3	11 794.6	241.2	150.8	2 086.4
201	MEAT PRODUCTS	283	149	15.6	157.4	12.5	24.3	111.5	286.1	1 633.2	1 916.8	15.2	18.0	258.7
2011	MEATPACKING PLANTS	110	59	5.9	67.5	4.7	9.7	50.3	114.0	1 065.0	1 177.7	8.7	8.2	123.1
2013	SAUSAGES AND OTHER PREPARED MEATS	118	52	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	92.2
2016	POULTRY DRESSING PLANTS	45	30	3.5	19.3	3.2	5.4	15.4	39.8	129.3	169.8	(D)	(NA)	(NA)
2017	POULTRY AND EGG PROCESSING	10	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
202	DAIRY PRODUCTS	293	129	12.5	127.1	6.0	12.3	61.3	311.5	1 006.7	1 316.3	17.6	17.6	294.8
2021	CREAMERY BUTTER	6	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2022	CHEESE, NATURAL AND PROCESSED E2	18	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.3
2023	CONDENSED AND EVAPORATED MILK	18	12	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	12.5
2024	ICE CREAM AND FROZEN DESSERTS	56	21	1.6	14.4	1.1	2.2	10.5	28.6	82.9	111.5	3.8	1.8	27.2
2026	FLUID MILK	195	88	9.7	100.5	4.0	8.1	42.5	242.9	796.2	1 038.6	11.8	14.7	249.2
203	PRESERVED FRUITS AND VEGETABLES	448	261	50.0	367.6	43.4	78.9	296.7	977.4	1 547.0	2 555.0	60.1	(NA)	(NA)
2032	CANNED SPECIALTIES	42	16	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.7
2033	CANNED FRUITS AND VEGETABLES	160	111	24.5	184.4	22.1	39.1	158.3	521.8	723.9	1 252.9	27.2	24.1	404.1
2034	DEHYD. FRUITS, VEGETABLES, SOUPS	90	42	6.0	42.5	5.1	9.6	32.3	90.9	205.9	318.0	7.5	6.0	83.4
2035	PICKLES, SAUCES, SALAD DRESSINGS	72	36	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.5
2037	FROZEN FRUITS AND VEGETABLES	30	29	8.1	50.5	7.3	12.9	41.6	106.6	164.8	275.1	8.0	(NA)	(NA)
2038	FROZEN SPECIALTIES	54	27	4.0	31.8	3.2	6.5	22.0	79.6	178.6	258.1	(D)	(NA)	(NA)
204	GRAIN MILL PRODUCTS	234	86	7.3	73.7	5.2	11.4	49.3	314.5	670.3	987.0	13.3	6.5	215.1
2041	FLOUR, OTHER GRAIN MILL PRODUCTS	15	8	6	6.8	5	1.1	4.6	25.9	74.8	99.9	1.0	.7	28.4
2043	CEREAL BREAKFAST FOODS	12	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB
2044	RICE MILLING	15	6	5	5.9	4	.9	4.3	24.7	104.3	134.7	.4	.6	25.0
2045	BLENDED AND PREPARED FLOUR	18	8	.9	11.0	.7	1.6	8.2	73.1	61.2	132.1	(D)	EE	(D)
2047	DOG, CAT, AND OTHER PET FOOD	27	9	1.7	17.0	1.3	2.9	12.4	76.2	100.7	174.7	3.0	(NA)	(NA)
2048	PREPARED FEEDS, NEC E1	145	48	2.8	25.1	1.7	3.7	13.6	66.5	288.1	355.7	3.7	(NA)	(NA)
205	BAKERY PRODUCTS	304	132	20.8	207.2	11.3	21.2	106.6	454.6	287.5	742.5	27.5	23.0	355.5
2051	BREAD, CAKE, AND RELATED PRODUCTS	270	113	18.3	184.8	9.4	17.7	91.9	385.0	234.8	619.9	25.7	20.1	308.1
2052	COOKIES AND CRACKERS	34	19	2.5	22.4	1.9	3.5	14.7	69.6	52.7	122.7	1.8	2.9	47.4
206	SUGAR, CONFECTIONERY PRODUCTS	137	65	10.3	78.5	8.0	14.4	58.5	267.3	475.7	745.6	19.3	(NA)	(NA)
2062	CANE SUGAR REFINING	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

TABLE 6. General Statistics by Industry for Standard Metropolitan Statistical Areas: 1972 and 1967

Ind. code	Standard metropolitan statistical area and industry	1972										1967		
		Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees	Value added by manufacture
		Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages						
(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)	
	ANAHEIM-SANTA ANA-GARDEN GROVE													
	ALL INDUSTRIES, TOTAL	2 820	839	131.1	1 368.8	82.0	161.4	678.9	2 732.6	1 961.4	4 681.2	144.5	125.8	1 963.8
20	FOOD AND KINDRED PRODUCTS	104	53	6.0	50.7	4.1	8.1	33.1	196.0	344.7	536.8	8.1	5.9	105.3
201	MEAT PRODUCTS	6	4	.3	3.1	.2	.4	1.5	7.1	15.1	22.1	.2	.3	4.5
202	DAIRY PRODUCTS	13	8	.6	4.8	.2	.4	1.9	24.2	46.2	70.5	1.1	.4	6.0
2026	FLUID MILK	13	8	.6	4.8	.2	.4	1.9	24.2	46.2	70.5	1.1	(NA)	(NA)
203	PRESERVED FRUITS AND VEGETABLES	22	13	2.1	15.9	1.7	3.1	12.7	46.0	96.4	141.8	2.8	(NA)	(NA)
2033	CANNED FRUITS AND VEGETABLES	8	7	1.2	9.1	1.1	1.9	7.4	25.4	42.2	67.5	1.1	1.1	21.4
205	BAKERY PRODUCTS	12	4	.8	8.0	.6	1.2	5.6	29.8	27.1	57.3	1.4	.7	15.3
208	BEVERAGES	14	8	.7	6.2	.3	.6	2.3	29.6	58.9	87.3	.5	.5	14.4
2086	BOTTLED AND CANNED SOFT DRINKS	8	6	.6	5.7	.2	.5	2.0	28.3	57.4	84.6	.4	.4	13.7
209	MISC. FOODS, KINDRED PRODUCTS	28	11	1.1	8.4	.9	1.8	6.2	36.2	40.8	76.2	.9	(NA)	(NA)
22	TEXTILE MILL PRODUCTS	25	13	1.0	8.3	.7	1.5	5.2	19.4	38.8	58.3	4.4	.8	14.4
229	MISCELLANEOUS TEXTILE GOODS	6	4	.3	3.0	.2	.4	1.4	7.5	10.9	18.6	.2	(NA)	(NA)
23	APPAREL, OTHER TEXTILE PRODS E3	104	27	1.9	10.1	1.6	3.1	7.2	17.1	14.4	28.4	.5	.9	5.5
233	WOMEN'S AND MISSES' OUTERWEAR, E4	36	11	.7	3.5	.7	1.2	2.8	5.1	2.2	7.3	(D)	(NA)	(NA)
2335	WOMEN'S AND MISSES' DRESSES, E4	21	4	.3	1.6	.3	.5	1.3	2.4	1.0	3.4	(2)	(NA)	(NA)
2339	WOMEN'S, MISSES' OUTERWEAR, NEC. E7	8	3	.3	1.2	.3	.5	1.0	1.6	.7	2.4	(D)	.3	1.2
239	MISC. FABRICATED TEXTILE PRODS E3	57	13	.9	5.3	.8	1.6	3.7	8.3	9.9	15.2	.2	.4	3.1
2391	CURTAINS AND DRAPERIES E4	27	5	.3	1.8	.3	.6	1.3	2.6	3.0	5.6	.1	(NA)	(NA)
2392	HOUSEFURNISHINGS, NEC. E2	7	3	.4	2.2	.3	.7	1.6	3.5	4.4	4.9	.1	(NA)	(NA)
24	LUMBER AND WOOD PRODUCTS	104	31	2.7	23.0	2.3	4.6	17.3	43.7	63.8	108.3	2.7	(NA)	(NA)
243	MILLWORK, PLYWOOD, STRUC. MEMBS. E1	55	18	1.2	10.5	1.0	1.9	7.9	20.3	25.4	46.3	.8	(NA)	(NA)
2431	MILLWORK E1	25	6	.6	5.6	.5	1.1	4.3	12.0	16.9	29.2	.5	(NA)	(NA)
245	WOOD BUILDINGS AND MOBILE HOMES	6	6	1.0	8.5	.8	1.8	6.4	13.7	28.1	42.4	1.0	(NA)	(NA)
249	MISCELLANEOUS WOOD PRODUCTS E2	26	3	.3	1.7	.2	.4	1.3	6.3	5.9	12.0	.3	(NA)	(NA)
2499	WOOD PRODUCTS, NEC E2	26	3	.3	1.7	.2	.4	1.3	6.3	5.9	12.0	.3	(NA)	(NA)
25	FURNITURE AND FIXTURES E1	87	24	2.2	17.0	1.8	3.8	12.5	37.8	34.4	71.7	(D)	1.0	13.8
241	HOUSEHOLD FURNITURE	46	11	.7				3.4	7.6			.3	(NA)	

Tables From Final Manufacturers' State Report—Continued

TABLE 7. General Statistics by Industry Group for Selected Counties: 1972 and 1967

(Separate industry group data are shown for all industry groups with 450 employees or more within a county except those that would disclose figures for individual companies)

Ind. code	County ¹ and industry	1972										1967		
		Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees	Value added by manufacture
		Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages						
(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)		
	ALAMEDA COUNTY, TOTAL	1 811	625	79.4	841.5	54.0	103.5	511.8	1 791.5	2 265.2	4 056.1	95.8	79.9	1 291.3
20	FOOD AND KINDRED PRODUCTS	186	99	13.1	123.5	9.3	17.2	79.0	403.4	525.8	929.6	21.0	14.7	331.8
201	MEAT PRODUCTS	25	8	.7	7.2	.5	1.1	5.5	13.1	50.9	63.8	.4	(NA)	(NA)
202	DAIRY PRODUCTS	20	9	1.0	11.7	.4	.8	4.6	29.8	81.2	110.9	1.7	1.6	31.1
203	PRESERVED FRUITS AND VEGETABLES	29	20	3.9	29.2	3.5	5.8	23.8	91.9	132.9	225.7	4.0	(NA)	(NA)
204	GRAIN MILL PRODUCTS	13	6	.9	9.5	.7	1.6	7.5	48.4	46.6	95.3	2.8	(NA)	(NA)
205	BAKERY PRODUCTS	29	16	3.0	31.2	1.8	3.5	16.6	76.9	45.2	122.3	2.7	3.0	46.6
206	SUGAR, CONFECTIONERY PRODUCTS	18	14	.7	5.1	.6	1.0	4.0	11.0	18.4	29.5	.4	(NA)	(NA)
208	BEVERAGES	19	11	.8	6.7	.4	.6	3.1	36.5	30.6	66.9	2.7	1.1	25.7
209	MISC. FOODS, KINDRED PRODUCTS	30	12	1.6	17.9	1.1	2.1	10.5	73.7	86.6	160.1	5.1	(NA)	(NA)
23	APPAREL, OTHER TEXTILE PRODS E2	68	17	1.4	7.3	1.3	2.2	5.7	10.9	10.4	20.5	.3	.7	4.4
233	WOMEN'S AND MISSES' OUTERWEAR. E2	23	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
24	LUMBER AND WOOD PRODUCTS	55	9	1.0	8.9	.8	1.3	6.6	15.1	13.0	28.0	1.0	(NA)	(NA)
243	MILLWORK, PLYWOOD, STRUC. MEMBS. E1	25	5	.5	4.6	.4	.6	3.3	7.7	7.3	14.8	.1	(NA)	(NA)
25	FURNITURE AND FIXTURES	54	18	1.9	17.8	1.5	2.9	12.7	31.1	24.4	54.6	3.7	2.1	26.3
251	HOUSEHOLD FURNITURE	28	11	1.4	12.1	1.1	2.1	8.4	20.6	18.7	39.0	.5	(NA)	(NA)
26	PAPER AND ALLIED PRODUCTS	44	33	3.1	31.7	2.4	4.8	22.3	58.8	73.1	132.1	1.8	3.5	46.3
264	MISC. CONVERTED PAPER PRODUCTS	19	12	1.3	12.6	1.0	2.0	8.6	24.8	31.8	56.9	.7	(NA)	(NA)
265	PAPERBOARD CONTAINERS AND BOXES.	22	19	1.6	17.4	1.3	2.5	12.1	29.0	37.3	66.3	1.0	2.1	25.1
27	PRINTING AND PUBLISHING. E1	211	36	4.1	41.3	2.6	4.6	23.9	69.7	41.9	111.9	2.7	4.2	59.8
271	NEWSPAPERS	18	8	1.9	19.3	.9	1.6	7.6	28.1	13.8	41.9	1.8	1.9	22.3
275	COMMERCIAL PRINTING E1	129	17	1.4	14.4	1.1	2.1	10.9	24.5	20.0	44.7	1.4	(NA)	(NA)
28	CHEMICALS AND ALLIED PRODUCTS	111	42	5.0	54.5	3.0	6.0	28.9	168.2	172.9	356.6	17.0	(NA)	120.4
281	INDUSTRIAL INORGANIC CHEMICALS	13	7	.5	5.6	.3	.6	3.1	20.3	22.6	42.6	4.1	(NA)	(NA)
283	DRUGS	10	5	1.2	15.2	.7	1.4	6.4	26.0	17.6	40.2	2.1	.8	17.3
284	SOAPS, CLEANERS, TOILET GOODS.	27	11	1.3	13.6	.8	1.6	7.6	80.4	70.0	150.3	2.6	(NA)	(NA)
285	PAINTS AND ALLIED PRODUCTS	22	9	.9	9.0	.4	.8	4.5	23.3	30.2	52.9	.7	.8	16.1
289	MISCELLANEOUS CHEMICAL PRODUCTS	34	6	1.0	9.8	.7	1.5	6.7	30.9	26.4	57.3	2.3	(NA)	(NA)
30	RUBBER, MISC. PLASTICS PROD.	53	19	1.5	12.8	1.1	2.1	8.4	29.9	30.0	60.0	1.6	(NA)	(NA)
307	MISCELLANEOUS PLASTICS PRODUCTS E1	40	13	.9	7.6	.7	1.4	5.5	17.8	19.3	37.0	1.2	(NA)	(NA)
32	STONE, CLAY, GLASS PRODUCTS.	75	29	4.1	45.4	3.3	6.7	35.0	85.5	60.2	147.6	7.1	4.4	60.7
322	GLASS, PRESSED OR BLOWN.	4	4	2.5	28.4	2.2	4.4	24.6	49.0	24.9	74.5	" "	(NA)	(NA)
327	CONCRETE AND PLASTER PRODS.	4	1	1.0	11.4	.7	1.7	11.5	28.5	25.6	51.7	" "	(NA)	18.7
					48.7	1.7			94.5					18.7

TABLE 8. General Statistics by Industry Group for Selected Cities: 1972 and 1967

(Separate industry group data are shown for all major industry groups with 450 employees or more within a city except those that would disclose figures for individual companies)

Ind. code	City and industry	1972										1967		
		Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees	Value added by manufacture
		Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages						
(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)	
	ALAMEDA	43	16	2.1	23.0	1.3	2.4	14.4	30.0	37.6	67.8	1.1	2.2	30.2
	ALHAMBRA	130	36	2.5	22.7	2.0	4.0	15.0	39.7	33.5	72.5	2.1	3.8	45.1
33	PRIMARY METAL INDUSTRIES	8	5	.6	5.4	.5	1.2	4.2	10.9	10.0	20.6	.6	(NA)	(NA)
34	FABRICATED METAL PRODUCTS. E1	29	9	.6	5.5	.4	.9	3.4	9.0	6.2	14.8	.3	(NA)	(NA)
	ANAHEIM	400	155	30.4	348.1	15.6	30.9	126.9	672.7	523.6	1 201.8	27.6	18.9	278.0
20	FOOD AND KINDRED PRODUCTS	14	12	1.2	10.6	.9	1.8	7.4	45.8	63.2	107.9	1.7	(NA)	(NA)
26	PAPER AND ALLIED PRODUCTS	9	7	.8	6.9	.6	1.2	4.9	18.7	18.1	36.3	.7	(NA)	(NA)
27	PRINTING AND PUBLISHING. E1	47	12	1.4	11.2	.7	1.5	5.9	25.7	8.0	35.1	.3	1.3	21.2
28	CHEMICALS AND ALLIED PRODUCTS	14	7	.7	6.7	.3	.7	2.6	49.1	23.7	65.9	1.3	(NA)	(NA)
30	RUBBER, MISC. PLASTICS PROD.	20	8	1.1	7.2	.8	1.5	4.6	16.9	13.8	30.1	1.7	(NA)	(NA)
34	FABRICATED METAL PRODUCTS.	49	18	2.4	21.5	1.8	3.7	14.2	50.2	25.3	74.5	3.9	(NA)	(NA)
35	MACHINERY, EXCEPT ELECTRICAL	90	17	2.9	32.6	1.4	2.6	10.4	62.3	45.8	99.1	3.0	(NA)	(NA)
36	ELECTRIC, ELECTRONIC EQUIP.	42	24	15.4	210.3	6.0	12.0	54.1	341.7	245.1	609.3	12.4	(NA)	(NA)
37	TRANSPORTATION EQUIPMENT	18	12	1.2	11.9	.8	1.6	7.3	23.5	21.3	44.6	.3	(NA)	(NA)
38	INSTRUMENTS, RELATED PRODUCTS.	12	5	.8	8.1	.4	.9	3.2	9.3	8.5	17.6	.9	(NA)	(NA)
39	MISC. MANUFACTURING INDUSTRIES E2	17	9	.5	3.0	.3	.5	2.1	5.3	3.8	9.3	.1	(NA)	(NA)
	ANDERSON	17	4	1.3	14.3	1.2	2.3	12.3	19.2	53.0	71.7	2.0	(NA)	(NA)
	ANTIOCH	23	10	1.9	18.3	1.5	2.7	13.6	49.2	88.0	138.5	4.1	1.7	26.7
	ARCADIA	85	31	2.3	20.0	1.5	4.2	17.1	23.1	62.7	17.8			17.8

Tables From Final Manufacturers' State Report—Continued

Table 9 of the area reports shows the number of establishments grouped by employment size class and major industry group for the State and individual counties.

TABLE 9. Distribution of Establishments, by Employment Size Class and Major Industry Group, for Counties: 1972

- 20 Food and kindred products
- 21 Tobacco manufactures
- 22 Textile mill products
- 23 Apparel and other textile products
- 24 Lumber and wood products
- 25 Furniture and fixtures
- 26 Paper and allied products
- 27 Printing and publishing
- 28 Chemicals and allied products
- 29 Petroleum and coal products
- 30 Rubber and plastics products, n.e.c.
- 31 Leather and leather products
- 32 Stone, clay, and glass products
- 33 Primary metal industries
- 34 Fabricated metal products
- 35 Machinery, except electrical
- 36 Electrical equipment and supplies
- 37 Transportation equipment
- 38 Instruments and related products
- 39 Miscellaneous manufacturing industries

CAO Central administrative offices

(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments total	Number of establishments by major industry group (see headnote for titles)																																						
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO																		
CALIFORNIA, TOTAL	35 713	2 594	3	268	2 774	2 236	1 425	506	4 535	1 278	217	1 268	207	1 441	717	3 598	5 330	2 258	1 544	1 085	1 651	780																		
1 TO 19 EMPLOYEES	13 390	680	2	51	769	892	455	83	2 487	440	81	421	82	483	157	1 160	2 524	725	546	421	784																			
20 TO 99 EMPLOYEES	5 749	337	-	41	455	400	233	50	737	193	32	195	39	245	90	613	950	326	203	171	314																			
100 TO 249 EMPLOYEES	5 414	395	-	44	530	332	221	68	528	188	32	178	26	252	117	642	820	312	204	156	240																			
250 EMPLOYEES AND OVER	5 647	512	-	69	588	269	274	108	468	248	39	233	23	267	167	665	815	365	228	163	189																			
ALAMEDA COUNTY, TOTAL	1 811	156	-	17	68	55	54	44	211	111	17	53	7	75	57	232	290	73	72	57	60																			
1 TO 19 EMPLOYEES	1 186	87	-	12	51	46	36	11	175	69	14	34	5	46	21	140	228	43	42	45	51																			
20 TO 99 EMPLOYEES	461	66	-	5	14	7	15	20	30	31	3	18	2	23	24	74	48	21	20	11	7																			
100 TO 249 EMPLOYEES	102	19	-	-	2	2	2	12	4	6	-	3	-	2	9	11	6	6	3	1	2																			
250 EMPLOYEES AND OVER	62	14	-	-	1	-	1	1	2	5	-	-	-	-	3	7	8	3	7	-	6																			
AMADOR COUNTY, TOTAL	25	1	-	-	-	13	-	-	2	-	-	-	-	5	1	1	1	-	-	-	-																			
1 TO 19 EMPLOYEES	21	1	-	-	-	11	-	-	2	-	-	-	-	3	1	1	1	-	-	-	-																			
20 TO 99 EMPLOYEES	3	-	-	-	-	1	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-																			
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																			
BUTTE COUNTY, TOTAL	144	24	-	-	4	35	4	-	15	1	2	6	-	5	1	8	23	1	5	3	6																			
1 TO 19 EMPLOYEES	107	15	-	-	4	23	4	-	12	1	2	4	-	4	1	6	18	-	5	3	5																			
20 TO 99 EMPLOYEES	26	6	-	-	2	8	-	-	2	-	-	2	-	1	-	2	4	-	-	-	1																			
100 TO 249 EMPLOYEES	9	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-																			
250 EMPLOYEES AND OVER	2	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																			
CALAVERAS COUNTY, TOTAL	21	-	-	-	-	7	1	-	3	-	-	-	-	3	1	2	1	-	-	1	2																			
1 TO 19 EMPLOYEES	17	-	-	-	-	5	1	-	3	-	-	-	-	1	1	2	1	-	-	1	2																			
20 TO 99 EMPLOYEES	3	-	-	-	-	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-																			
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-																			
COLUSA COUNTY, TOTAL	13	3	-	-	-	1	-	2	-	-	-	-	-	1	1	-	4	1	-	-	-																			
1 TO 19 EMPLOYEES	12	3	-	-	-	1	-	2	-	-	-	-	-	1	-	-	4	1	-	-	-																			
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-																			
CONTRA COSTA COUNTY, TOTAL	489	35	-	-	12	21	13	15	63	52	19	12	-	34	8	53	41	20	25	22	21																			
1 TO 19 EMPLOYEES	327	19	-	-	12	20	10	-	54	21	9	9	-	24	3	32	36	15	21	12	19																			
20 TO 99 EMPLOYEES	105	10	-	-	1	3	7	6	23	3	3	-	-	7	2	15	4	4	3	4	2																			
100 TO 249 EMPLOYEES	38	3	-	-	-	-	5	3	6	3	-	-	-	2	2	5	1	1	-	4	3																			
250 EMPLOYEES AND OVER	19	3	-	-	-	-	3	-	2	4	-	-	-	1	1	1	-	1	1	2	1																			
DEL NORTE COUNTY, TOTAL	37	-	-	-	-	32	-	-	1	-	1	-	-	2	-	-	1	-	-	-	-																			
1 TO 19 EMPLOYEES	25	-	-	-	-	26	-	-	1	-	1	-	-	2	-	-	1	-	-	-	-																			
20 TO 99 EMPLOYEES	8	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																			
100 TO 249 EMPLOYEES	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																			
250 EMPLOYEES AND OVER	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																			
EL DORADO COUNTY, TOTAL	64	4	-	-	2	28	1	-	10	-	-	1	-	7	-	-	7	-	3	-	1																			
1 TO 19 EMPLOYEES	53	4	-	-	2	21	1	-	8	-	-	-	-	6	-	-	7	-	3	-	1																			
20 TO 99 EMPLOYEES	8	-	-	-	-	4	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-																			
100 TO 249 EMPLOYEES	3	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																			
FRESNO COUNTY, TOTAL	537	113	-	-	5	54	22	5	66	17	6	9	-	34	10	46	67	10	27	5	23																			
1 TO 19 EMPLOYEES	373	54	-	-	2	3	42	15	3	62	11	6	-	21	4	33	52	9	15	5	21																			
20 TO 99 EMPLOYEES	116	42	-	-	1	10	5	1	3	3	-	1	-	11	5	8	12	1	8	-	1																			
100 TO 249 EMPLOYEES	33	13	-	-	-	1	2	1	1	3	-	2	-	1	1	4	1	-	2	-	1																			
250 EMPLOYEES AND OVER	15	4	-	-	2	1	-	-	1	-	-	-	-	1	-	1	2	-	2	-	1																			
GLENN COUNTY, TOTAL	30	11	-	-	-	3	-	-	4	1	1	-	-	5	-	1	2	-	2	-	-																			
1 TO 19 EMPLOYEES	22	7	-	-	-	2	-	-	3	1	1	-	-	4	-	1	2	-	1	-	-																			
20 TO 99 EMPLOYEES	5	3	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-																			
100 TO 249 EMPLOYEES	3	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-																			

D. 1977 CENSUS OF MANUFACTURES

The 1977 Census of Manufactures will be conducted on the same basis as the 1972 Census of Manufactures. The 1977 publication will be about the same as those described in section A of chapter I. The data items to be collected are the same as these shown in sections A and B of this chapter. In addition, the following data items will be collected for the first time, based on recommendation made by the Gross National Products Improvements Committee and modified as a result of an analysis of the results of the 1977 Economic Censuses Record-keeping Survey:

1. These data items will be collected from the Annual Survey of Manufactures sample panel.
 - a. Purchased services:
 - (1) Repairs to:
 - (a) Building and other structures
 - (b) Machinery and equipment
 - (2) Communications (telephone, telegraph, etc.)
 - b. Capital expenditures for new machinery and equipment:
 - (1) Automobiles, trucks, etc. for highway use
 - (2) Computers and peripheral data processing equipment
 - (3) All other
 - (4) Total

c. Depreciation and retirements of gross value of depreciable assets:

- (1) Building and other structures (excluding land)
- (2) Machinery and equipment

2. These data items will only be collected from a small group of selected industries:

a. Capital expenditures produced and rented: This inquiry will be added to selected industries where capital items are produced and rented (such as computers, reproducing equipment). Data will be requested on the value of the equipment capitalized in the census year. The respondent will be instructed to exclude the value of these items from his gross assets figures.

b. Force Accounts:

(1) Transportation—This inquiry will be limited to selected industries such as soft drinks, beer, dairy products, and bakery products. The respondent will be instructed to report the gross earning paid in the calendar year to employees engaged in delivery of products (including drivers, salesmen) sold by the firms.

(2) Construction—This inquiry will be limited to those selected industries where this activity is significant. The respondent will be instructed to report the payroll for employees on its payroll who are engaged as a separate work force in construction of major additions or alternation to its plant. Workers engaged in regular maintenance and repair operations should be excluded.

Chapter V. Locator Guide to Published Census of Mineral Industries Data

Part A and B of this chapter list alphabetically the data items published in the 1972 Census of Mineral industries. Part C is a brief description of the new data items that are to be collected in the 1977 Census of Mineral Industries.

For certain general statistics items, a number of standard industry and geographic area cross-tabulations have been pub-

lished. This detail is shown in part A. The additional detail published for these items as well as for other items in the 1972 Census of Mineral Industries is shown in part B.

The data presenting census of mineral industry data are similar to the tables illustrating the presentation of census of manufactures data shown in part C of chapter IV.

A. STANDARD DETAIL PUBLISHED FOR SELECTED CENSUS OF MINERAL INDUSTRIES GENERAL STATISTICS DATA ITEMS

(For the following alphabetically listed general statistics data items, a number of standard industry and geographic cross-tabulations have been published:

Capital expenditures, total;
 employees, number of annual production workers;
 employees, total number;
 establishment, number with 20 or more employees;
 establishment, total number;

man-hours, annual total production workers;
 payroll, all employees;
 payroll, production workers;
 shipment, value of;
 supplies, total cost of;
 value added in mining.

Data for all of these items will be found in the publications and tables listed below)

Publication ¹	Table	Level of Detail ²		Historic Data	Comments
		Industry	Area		
4-Digit Industry.....	1	4	US	X	
	2A	4	US, R, D, ST	X	Also US by type of operation
	2B	4	US, R, D, ST	X	
	3A	4	US, R, D, ST		Mining activity at mfg. plants
	3B	4	US		
4	4	US		By type of operation By employment size	
State.....	1	T	D, ST	X	
	2A	T, 2, 3, 4	D, ST	X	Mining activity at mfg. plants
	2B	2, 3	D, ST	X	
	4	T	D, ST	X	
	5	T, 2, 3	ST, CO	X	
General Summary.....	1	T	US	X	
	2	T, 2, 3, 4	US	X	
	3	T	US, R, D, ST		
	4	T, 2	US	X	
	5	T, 2, 3, 4	US, D, ST	X	
	7	T, 2, 4	US		
	10	T, 2	US		By employment size
Operation.....	3	T, 2, 4	US	X	Nonproducers only
Organization.....	1	T, 2, 4	US	X	By organization and ownership

¹A description of the content of these publication are in section B of chapter I.

Publication

Long Titles

General Summary	U.S. General Summary (MIC72(1)-1)
Operation	Type of Operation (MIC72(1)-4)
Organization	Type of Organization (MIC72(1)-6)
State	Final State Reports Grouped by Division (MIC72(2)-1 to 9)
4-Digit Industry	Final Industry Reports (MIC72(1)-10A to 14E)

²Level of Detail

Industry

Area

T	Total all industries	US	United States
2	2-digit major group	R	Region
3	3-digit industries group	D	Division
4	4-digit industries	ST	State
		CO	County

B. ADDITIONAL CENSUS OF MINERAL INDUSTRIES DATA ITEMS

(Includes additional detail for items shown in Part A and other items)

Data Item	Publication ¹	Table	Level of Detail ²		His- toric Data	Comments					
			Industry	Area							
<u>Assets, Gross Value of</u> <u>Fixed:</u> Mineral properties.....	4-Digit Industry	3A	4	US, R, D, ST		By type of operation					
		3B	4	US							
		General Summary	7	T, 2, 4			US				
	Building and other structures excluding land.....	4-Digit Industry	3A	4			US, R, D, ST		By type of operation		
			3B	4			US				
			General Summary	7			T, 2, 4			US	
	Machinery and equipment.....	4-Digit Industry	3A	4			US, R, D, ST				By type of operation
			3B	4			US				
			General Summary	7			T, 2, 4					US
Total.....	4-Digit Industry	3A	4	US, R, D, ST		By type of operation					
		3B	4	US							
		General Summary	7	T, 2, 4			US				
<u>Capital Expenditures:</u> Mineral development and exploration.....	4-Digit Industry	3A	4	US, R, D, ST				By type of operation			
		3B	4	US							
	State	4	T	ST					X		
	General Summary	7	T, 2, 4	US							
	Expenditures	1	T	US					X		
		2	T, 2, 3, 4	US					X		
		3	T	US, R, D, ST	X						
New structures and additions.....	4-Digit Industry	3A	4	US, R, D, ST		By type of operation					
		3B	4	US							
	State	4	T	ST			X				
	Expenditures	1	T	US			X				
		2	T, 2, 3, 4	US			X				
		3	T	US, R, D, ST			X				
	General Summary	7	T, 2, 4	US							

See footnotes at end of table.

B. ADDITIONAL CENSUS OF MINERAL INDUSTRIES DATA ITEMS—Continued

(Includes additional detail for items shown in Part A and other items)

Data Item	Publication ¹	Table	Level of Detail ²		Historic Data	Comments		
			Industry	Area				
Capital Expenditures--Continued New machinery and equipment.....	4-Digit Industry	3A	4	US, R, D, ST		By type of operation		
		3B	4	US				
	State Expenditures	4	T	ST	X			
		1	T	US	X			
		2	T, 2, 3, 4	US	X			
	General Summary	3	T	US, R, D, ST	X			
		7	T, 2, 4	US	X			
		3A	4	US, R, D, ST				
	Used plant and equipment.....	4-Digit Industry	3B	4	US			By type of operation
			3B	4	US			
State Expenditures		4	T	ST	X			
		1	T	US	X			
		2	T, 2, 3, 4	US	X			
General Summary		3	T	US, R, D, ST				
		7	T, 2, 4	US	X			
		3A	4	US, R, D, ST				
Total.....		Expenditures	1	T	US	X		
			2	T, 2, 3, 4	US	X		
	3		T	US, R, D, ST	X			
		See Part A for additional detail						
<u>Central Administrative Offices and Auxiliaries</u> Employees.....	General Summary	12	T, 2, 3, 4	US	X			
		13	T	US, D, ST	X			
Payroll.....	General Summary	12	T, 2, 3, 4	US	X			
		13	T	US, D, ST	X			
<u>Companies, Number</u>	4-Digit Industry	1	4	US	X			
<u>Comparison of Bureau of Census and Bureau of Mines Data by Product</u>	4-Digit Industry	Text	5,7	US		See explanatory text of industry publication.		
		General Summary	14	5,7	US			
<u>Developmental and Exploration, Mineral:</u> Capitalized.....	4-Digit Industry	3A	4	US, R, D, ST		By type of operation		
		3B	4	US				
	State General Summary	4	T	ST	X			
		7	T, 2, 4	US				
	Expensed.....	4-Digit Industry	3A	4	US, R, D, ST			
			3B	4	US			
State General Summary	4	T	ST	X				
	7	T, 2, 4	US					

See footnotes at end of table.

B. ADDITIONAL CENSUS OF MINERAL INDUSTRIES DATA ITEMS— Continued

(Includes additional detail for items shown in Part A and other items)

Data Item	Publication ¹	Table	Level of Detail ²		Historic Data	Comments	
			Industry	Area			
<u>Developmental and Exploration, mineral--Continued</u> Total.....	4-Digit Industry	3A	4	US, R, D, ST	X	By type of operation	
		3B	4	US			
	State General Summary	4	T	ST			
		7	T, 2, 4	US			
<u>Drilling Statistics</u> Number of wells..... Footage drilled..... Cost.....						See crude petroleum and natural gas final bulletin for table details	
<u>Employees, Number</u> Production workers, annually..... Production workers, quarterly..... Total.....	See Part A for additional detail 4-Digit Industry	3A	4	US, R, D, ST	X	By type of operation	
		3B	4	US			
	State General Summary	4	T	ST			
		7	T, 2, 4	US			
	State	3	T, 2, 3, 4	ST			
		Operation	1	T, 2, 3, 4			US
		2	T	US, D, ST			
General Summary	6	T, 2, 3	US, D, ST				
See part A for additional detail							
<u>Establishments, Number:</u> 0 to 19 employees..... 20 to 99 employees..... 100 or more employees..... 20 or more employees..... Detail size groups.....	4-Digit Industry	3A	4	US, R, D, ST	X	By type of operation	
		3B	4	US			
	State General Summary	4	T	ST			
		7	T, 2, 4	US			
	4-Digit Industry	3A	4	US, R, D, ST			
		3B	4	US			
State General Summary	4	T	ST				
	7	T, 2, 4	US				
4-Digit Industry	3A	4	US, R, D, ST				
	3B	4	US				
State General Summary	4	T	ST				
	7	T, 2, 4	US				
State General Summary	6	T, 2	ST, CO				
	8	T, 2, 3, 4	US				
	9	T	US, R, D, ST				

See footnotes at end of table.

B. ADDITIONAL CENSUS OF MINERAL INDUSTRIES DATA ITEMS—Continued

(Includes additional detail for items shown in Part A and other items)

Data Item	Publication ¹	Table	Level of Detail ²		His- toric Data	Comments
			Industry	Area		
<u>Establishments, Number--Con.</u>						
Total.....	State	3	T, 2, 3	D, ST		By type of operation
		6	T, 2	ST, CO		
	Operation	1	T, 2, 3, 4	US	X	By type of operation
		2	T	US, D, ST		By type of operation
	General Summary	6	T, 2, 3	US, D, ST		By type of operation
	See part A for additional detail					
<u>Fuels and Electric Energy Consumed:</u>						
	Fuels					See Fuels publication for table details
<u>Indexes of Production:</u>						
	Index					See Indexes of Production for table details
<u>Manhours, Total Production Workers:</u>						
Annual.....	See part A for detail					
Quarterly.....	4-Digit Industry	3A	4	US, R, D, ST		
		3B	4	US		By type of operation
	State	4	T	ST	X	
	General Summary	7	T, 2, 4	US		
By type of department.....	4-Digit Industry	3A	4	US, R, D, ST		
		3B	4	US		By type of operation
	General Summary	7	T, 2, 4	US		
<u>Payroll:</u>						
Production workers.....	See part A for detail					
Total.....	See part A for detail					
<u>Products, Value of:</u>						
4-Digit, Total.....	4-Digit Industry	5	4	US	X	
		6	4	US, R, D, ST	X	
	General Summary	11	4	US		
4-Digit, made in this industry.....	4-Digit Industry	5	4	US	X	
	General Summary	11	4	US		
4-Digit, made in other industries..	4-Digit Industry	5	4	US	X	
	General Summary	11	4	US		
5-Digit.....	4-Digit Industry	6	4	US, R, D, ST	X	
7-Digit.....	4-Digit Industry	6	4	US, R, D, ST	X	

See footnotes at end of table.

B. ADDITIONAL CENSUS OF MINERAL INDUSTRIES DATA ITEMS—Continued

(Includes additional detail for items shown in Part A and other items)

Data Item	Publication ¹	Table	Level of Detail ²		His- toric Data	Comments				
			Industry	Area						
<u>Rights and Geological Expenditures, Mineral:</u> Lease, land acquisition of nonproducing acreage.....	4-Digit Industry	3A	4	US, R, D, ST		By type of operation				
		3B	4	US						
		General Summary	7	T, 2, 4			US			
	Geological and geophysical.....	4-Digit Industry	3A	4			US, R, D, ST		By type of operation	
			3B	4			US			
			General Summary	7			T, 2, 4			US
	Lease rents.....	4-Digit Industry	3A	4			US, R, D, ST		By type of operation	
			3B	4			US			
			General Summary	7			T, 2, 4			US
Total.....	4-Digit Industry	3A	4	US, R, D, ST		By type of operation				
		3B	4	US						
		General Summary	7	T, 2, 4			US			
<u>Shipments and Receipts:</u> Value of industry.....	4-Digit Industry	5	4	US	X					
		General Summary	11	4			US			
	Value of resales.....	4-Digit Industry	3A	4			US, R, D, ST		By type of operation	
			3B	4			US			
		State	5	4			US			X
			4	T			ST			X
	General Summary	7	T, 2, 4	US						
		11	4	US						
	Value of primary products.....	4-Digit Industry	5	4			US	X		
			General Summary	11			4			US
	Value of secondary products.....	4-Digit Industry	5	4			US	X		
			General Summary	11			4			US
Value of services.....	4-Digit Industry	5	4	US	X					
		General Summary	11	4			US			
<u>Supplemental Labor Cost:</u> Legally required.....	4-Digit Industry	3A	4	US, R, D, ST		By type of operation				
		3B	4	US						
		State	4	T			ST	X		
General Summary	7	T, 2, 4	US							

See footnotes at end of table.

B. ADDITIONAL CENSUS OF MINERAL INDUSTRIES DATA ITEMS—Continued

(Includes additional detail for items shown in Part A and other items)

Data Item	Publication ¹	Table	Level of Detail ²		His- toric Data	Comments			
			Industry	Area					
Supplemental Labor Costs--Continued Voluntary program.....	4-Digit Industry	3A	4	US, R, D, ST	X	By type of operation			
		3B	4	US					
	State General Summary	4	T	ST					
		7	T, 2, 4	US					
	Total.....	4-Digit Industry	3A	4			US, R, D, ST		
			3B	4			US		
State General Summary	4	T	ST						
	7	T, 2, 4	US						
Supplies: Supplies used, minerals received, and machinery installed.....	4-Digit Industry	3A	4	US, R, D, ST	X	By type of operation			
		3B	4	US					
	State General Summary	4	T	ST					
		7	T, 2, 4	ST					
	Specified materials consumed.....	4-Digit Industry	7A	4			US, R, D, ST	X	By type of operation
			7B	4			US	X	
Cost of resales.....	4-Digit Industry	3A	4	US, R, D, ST	X	By type of operation			
		3B	4	US					
	State General Summary	4	T	ST					
		7	T, 2, 4	ST					
	Purchased fuels consumed.....	4-Digit Industry	3A	4			US, R, D, ST	X	By type of operation
			3B	4			US		
State General Summary		4	T	ST					
		7	T, 2, 4	ST					
Specific fuels consumed.....		4-Digit Industry	7A	4	US, R, D, ST	X	By type of operation		
			7B	4	US				
	State General Summary	4	T	ST					
		7	T, 2, 4	ST					
	Purchased electric energy.....	4-Digit Industry	3A	4	US, R, D, ST			X	By type of operation
			3B	4	US				
State General Summary		4	T	ST					
		7	T, 2, 4	ST					
Contract work.....		4-Digit Industry	3A	4	US, R, D, ST	X	By type of operation		
			3B	4	US				
	State General Summary	4	T	ST					
		7	T, 2, 4	ST					
	Total.....	See part A for detail.							

See footnotes at end of table.

B. ADDITIONAL CENSUS OF MINERAL INDUSTRIES DATA ITEMS—Continued

(Includes additional detail for items shown in Part A and other items)

Data Item	Publication ¹	Table	Level of Detail ²		Historic Data	Comments
			Industry	Area		
Value Added in Mining:	Operation	1	T,2,3,4	US	X	By type of operation
		2	T	US, R, D, ST		By type of operation
	State	3	T,2,3	D, ST		By type of operation
	General Summary	6	T, 2, 3	US, D, ST		By type of operation
	See part A for additional detail					
Water Use in Mining.....	Water					See Water publication for table detail

¹A description of the content of these publications will be found in section B of chapter I.Publication

Expenditures
 Fuels
 General Summary
 Index
 Operation
 State
 Water
 4-Digit Industry

Long Titles

Expenditures for Plant and Equipment (MIC72(1)-3)
 Fuels and Electric Energy Consumed (MIC72(1)-5)
 U.S. General Summary (MIC72(1)-1)
 Indexes of Production (volume 4)
 Type of Operation (MIC72(1)-4)
 Final State Reports Grouped by Division (MIC72(2)-1 to 9)
 Water Use in Mineral Industries (MIC72(1)-2)
 Final Industry Reports (MIC72(1)-10A to 14E)

²Level of DetailIndustry

T Total all industries
 2 2-Digit Major Group
 3 3-Digit Industry Group
 4 4-Digit Industry
 5 5-Digit Product Class
 7 7-Digit Products

Area

US United States
 R Region
 D Division
 ST State
 CO County

C. 1977 CENSUS OF MINERAL INDUSTRIES

The 1977 Census of Mineral Industries will be conducted on the same basis as the 1972 Census of Manufactures. The 1977 publication will be about the same as those described in section B of chapter I. The data items to be collected are the same as those shown in sections A and B of this chapter. In addition, the following data items will be collected for the first time, based on recommendations made by the Gross National Products Improvements Committee and modified as a result of an analysis of the results of the 1977 Economic Censuses Recordkeeping Survey:

1. Rental payments for:
 - a. Building and other structures
 - b. Machinery and equipment
2. Communications (telephone, telegraph, etc.)
3. Depreciation and retirements of gross value of depreciable assets:
 - a. Building and other structures (excluding land)
 - b. Machinery and equipment
 - c. Mineral exploration and development
 - d. Mineral land and rights
4. Inventories, beginning and ending for:
 - a. Finished products
 - b. Supplies
 - c. Total

Chapter VI. Locator Guide to Published Annual Survey of Manufactures Data

Part A and B of this chapter list alphabetically the data items published in the 1975 Annual Survey of Manufactures and where they can be located. Tables similar to the one shown in this chapter for the 1975 Annual Survey of Manufactures will be provided for subsequent Annual Survey of Manufactures.

For certain general statistics items, a number of standard industry and geographic area cross-tabulations have been pub-

lished. This detail is shown in part A. The additional detail published for these items, as well as for other items, in the 1975 Annual Survey of Manufactures is shown in part B. Tables illustrating the presentations of Annual Survey of Manufactures data are shown in part C.

A. STANDARD DETAIL PUBLISHED FOR SELECTED ANNUAL SURVEY OF MANUFACTURES GENERAL STATISTICS DATA ITEMS

(For the following alphabetically listed General Statistics Data Items, a number of Standard Industry and Geographic Cross-Tabulations have been published:

capital expenditures, total new
 employment, number of production workers
 employment, total number
 inventories, total ending
 man-hours, total production workers

materials, total costs of
 payroll, all employees
 payroll, production workers
 shipments, value of
 value added by manufactures

Data for all these data items will be found in the publication and tables listed below)

Publication ¹	Table	Level of detail ²		His- toric data	Page No. of sample page ³	Comments
		Industry	Area			
Summary statistics.....	1	T	US	X	-	} Chapters 1-9 Chapter 10
	2	T, 2	US		-	
	3	T	US, D, ST, SMSA		-	
General statistics.....	1	T, 2, 3, 4	US		69	
	2	D, ND, T, 2, 3	US	X	-	
	3	D, ND, MC,	US	X	-	
Area.....	1	T	ST, SMSA	X	70	
	2	T	ST, SMSA, CO, PL	X	70	
	3	T, 2, 3, 4 T, 2, 3	ST SMSA	X X	71 71	

¹A description of the content of these publications will be found in section C of Chapter I. The publications cited below are from the 1975 Annual Survey of Manufactures, similar publications are available from each Annual Survey of Manufactures:

Publication

Long titles

Area	Statistics for State, Standard Metropolitan Area, and Large Industrial Counties and selected cities (M75(AS)-6)
General Statistics	General Statistics for Industry Groups and Industries (M75(AS)-1)
Summary Statistics	Summary Statistics (Volume only)

²Level of Detail

Industry

Area

T	Total all industries	US	United States
D	Durable	R	Region
ND	Nondurable	D	Division
MC	Market categories	ST	State
2	2-digit major group	SMSA	Standard Metropolitan Statistical Area
3	3-digit industry group	CO	County
4	4-digit industry	PL	Place of City

³The page number in this column indicates the page in this guide on which a sample of the particular table is presented.

B. ADDITIONAL ANNUAL SURVEY OF MANUFACTURES DATA ITEMS

(Includes additional detail for items shown in part A and other items)

Data item	Publication ¹	Table	Level of detail ²		His- torical Data	Page No. of sample table ³	Comments
			Industry	Area			
<u>Assets, gross book value of depreciable:</u>							
Structure and building.....	Expenditures	2	T,2,3,4	US	X	-	
	Area	4	T	US	X	-	
Machinery and equipment.....	Expenditures	2	T,2,3,4	US	X	-	
	Area	4	T	US	X	-	
Total.....	Expenditures	2	T,2,3,4	US	X	-	
	Area	4	T	US	X	-	
<u>Capital expenditures:</u>							
New structures and addition to plant.....	Expenditures	1	T,2,3,4	US		-	
	Area	4	T	US	X	-	
New machinery and equipment...	Expenditures	1	T,2,3,4	US		-	
	Area	4	T	US	X	-	
Total, new.....	Expenditures	1	T,2,3,4	US		-	
	Area	4	T	US	X	-	
	See part A for additional detail						
<u>Employees, number:</u>							
Production workers.....	See part A for detail						
Total.....	General statistics	4	T,2,3,4	US		-	
	See part A for additional detail						
<u>Fuels and electric energy consumed</u>							
	Fuels						See fuels published for table details
<u>Inventories, beginning:</u>							
Finished product.....	Inventories	1	T,2,3,4	US	X	-	
Work-in-process.....	Inventories	1	T,2,3,4	US	X	-	
Materials, supplies, fuels, etc.....	Inventories	1	T,2,3,4	US	X	-	
Total.....	Inventories	1	T,2,3,4	US	X	-	
<u>Inventories, ending:</u>							
Finished product.....	Inventories	1	T,2,3,4	JS		-	
Work-in-process.....	Inventories	1	T,2,3,4	US		-	
Materials, supplies, fuels, etc.....	Inventories	1	T,2,3,4	US		-	
Total.....	Inventories	1	T,2,3,4	US		-	
	See part A for additional detail						
<u>Man-hours, total production workers:</u>							
	See part A for detail						
<u>Materials, total cost of:</u>							
	See part A for detail						

See footnotes at end of table.

B. ADDITIONAL ANNUAL SURVEY OF MANUFACTURES DATA ITEMS—Continued

(Includes additional detail for items shown in part A and other items)

Data item	Publication ¹	Table	Level of detail ²		Historical Data	Page No. of sample table ³	Comments
			Industry	Area			
Payroll:							
Production workers.....	See part A for detail						
All employees.....	See part A for detail						
Rental payments:							
Structures and buildings.....	Expenditures	3	T,2,3,4	US	X	-	
	Area	4	T	US	X	-	
Machinery and equipment.....	Expenditures	3	T,2,3,4	US	X	-	
	Area	4	T	US	X	-	
Total.....	Expenditures	3	T,2,3,4	US	X	-	
	Area	4	T	US	X	-	
Shipments:							
Value of industry.....	Expenditures See part A for additional detail	3	T,2,3,4	US	X	-	
Product class:							
Quantity.....	Products	2	5	US	X	72	
Value							
Each product class.....	Product	1	4,5	US	X	72	
Product classes primary to more than one industry.....	Product	3	5	US	X	-	
Standard error of estimate							
	Summary Statist.	2	T,2	US		-	
		3	T	US,D ST, SMSA		-	
	General Statist.	1A	T,2,3,4	US		-	
		2	D,ND	US		-	
		3	D,ND MC 2,3	US		-	
		4	T,2,3,4	US		-	
	Products	1	4,5			-	
	Industries		T,2,3,4	US		-	
	Expenditures	1	T,2,3,4	US		-	
		3	T,2,3,4	US		-	
		4	T,2,3,4	US		-	
	Inventories	1	T,2,3,4	US		-	
Supplemental labor cost:							
Legally required payroll payment.....	General statistics	4	T,2,3,4	US	X	-	
	Area	4	T	US	X	-	
Voluntary payroll payment.....	General statistics	4	T,2,3,4	US	X	-	
	Area	4	T	US	X	-	
Total labor costs.....	General statistics	4	T,2,3,4	US	X	-	
	Area	4	T,2,3,4	US	X	-	
Value added by manufacture:	See part A for detail						

See footnotes on following page.

B. ADDITIONAL ANNUAL SURVEY OF MANUFACTURES DATA ITEMS—Continued

¹A description of the content of these publications are in section C of chapter I. The publications cited below are from the 1975 Annual Survey of Manufactures; similar publications are available from each Annual Survey of Manufactures:

Publication

Area	Statistics for State, Standard Metropolitan Area, and Large Industrial Counties and Selected Cities (M75 (AS)-6)
Expenditures	Expenditure for New Plant and New Equipment, Book Value of Fixed Assets, and Rental Payments for Buildings and Equipment (M75 (AS)-5)
Fuels	Fuels and Electric Energy Used by Industry Group (M75 (AS)-4)
General Statistics	General Statistics for Industry Groups and Industries (M75 (AS)-1)
Inventories	Value of Manufacturer's Inventories (M75 (AS)-3)
Products	Value of Product Class Shipments (M75 (AS)-2)
Summary Statistics	Summary Statistics (Volume only)

²Level of Detail

<u>Industry</u>		<u>Area</u>	
T	Total all industries	US	United States
D	Durable	R	Region
ND	Nondurable	D	Division
MC	Market categories	ST	State
2	2-digit major group	SMSA	Standard Metropolitan Statistical Area
3	3-digit industry group	CO	County
4	4-digit industry	PL	Place or City

³The page number in this column indicates the page of this guide on which a sample of the table is presented.

C. TABLES ILLUSTRATING TYPES OF DATA PRESENTED

The annual survey of manufactures reports, which provide estimates for the key measures of manufacturing activity in intercensal years, have table formats that are similar to those in the census of manufactures.

The general statistics are published for the United States as a whole, for industry groups and 4-digit industries; for each

State and its standard metropolitan statistical areas and large industrial counties. General statistics are also presented for the State and its standard metropolitan statistical areas with 40,000 or more manufacturing employees by industry groups. The following five tables illustrate the columnar format for the industry and geographic tables.

Table 1. General Statistics for Industry Groups and Industries: 1975 and 1974

(For explanation of column captions, see appendix)

Code	Industry group and industry	1975											Standard error of estimate (percent) for columns ¹		
		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of industry shipments (million dollars)	Capital expenditures, new (million dollars)	End of year inventories (million dollars)	A	F	I	
		Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)									
		A	B	C	D	E	F	G	H	I	J	A	F	I	
	ALL INDUSTRIES, INCLUDING CENTRAL ADMINISTRATIVE OFFICES, TOTAL	18,344.7	209,958.2	12,601.0	24,131.5	121,708.5	441,850.0	597,912.3	1,041,210.6	37,348.5	157,784.1	1	1	1	
	OPERATING MANUFACTURING ESTABLISHMENT	17,216.3	190,943.4	12,601.0	24,131.5	121,708.5	441,850.0	597,912.3	1,041,210.6	37,348.5	157,784.1	1	1	1	
20	FOOD AND KINDRED PRODUCTS	1,527.3	15,891.2	1,056.8	2,071.4	9,861.2	48,142.0	123,953.5	172,510.4	3,399.4	14,906.2	1	1	1	
21	TOBACCO PRODUCTS	66.2	654.6	56.3	104.2	513.0	3,722.0	4,395.0	8,115.4	148.4	3,488.0	2	1	2	
22	TEXTILE MILL PRODUCTS	838.4	6,418.2	727.7	1,386.8	4,931.6	12,109.9	18,917.0	31,273.7	1,002.0	4,626.4	1	1	3	
23	APPAREL, OTH. TEXTILE PRODS.	1,212.5	7,688.7	1,056.7	1,885.0	5,762.2	13,381.2	15,959.7	31,083.9	416.2	4,211.3	2	2	6	
24	LUMBER AND WOOD PRODUCTS	591.7	5,268.6	509.0	951.1	4,079.1	10,455.8	14,652.7	25,193.7	1,281.6	3,254.2	2	2	3	
25	FURNITURE AND FIXTURES	397.8	3,322.6	326.6	611.0	2,349.3	6,310.6	5,984.8	12,420.7	255.0	2,135.3	2	2	3	
26	PAPER AND ALLIED PRODUCTS	589.5	6,984.5	454.4	902.5	4,873.4	17,926.8	23,818.6	41,743.1	2,718.3	4,797.5	1	1	1	
27	PRINTING AND PUBLISHING	1,072.8	11,675.3	629.8	1,144.6	6,252.8	24,503.6	13,562.5	38,135.3	1,184.4	3,285.0	2	1	4	
28	CHEMICALS, ALLIED PRODUCTS	484.1	11,303.8	511.2	1,003.4	5,870.5	45,116.0	45,141.8	89,847.8	6,387.4	12,078.1	1	1	1	
29	PETROLEUM AND COAL PRODUCTS	141.1	2,143.8	98.0	197.6	1,355.8	10,090.2	59,099.4	68,969.2	2,328.4	4,741.6	1	1	1	
30	RUBBER, MISC. PLASTICS PROD.	587.4	5,944.9	453.0	877.8	4,002.1	13,674.2	13,688.0	27,516.5	1,125.5	3,822.0	2	1	2	
31	LEATHER, LEATHER PRODUCTS	240.0	1,652.4	209.3	377.9	1,251.5	3,187.2	3,117.1	6,333.4	78.4	890.6	1	2	6	
32	STONE, CLAY, GLASS PRODUCTS	591.6	6,402.6	464.0	905.9	4,601.1	15,337.6	12,339.2	27,595.1	1,601.6	3,743.9	2	1	5	
33	PRIMARY METAL INDUSTRIES	1,090.6	15,015.0	856.5	1,638.5	11,207.7	30,554.4	52,155.2	81,515.4	4,187.4	15,652.2	1	1	1	
34	FABRICATED METAL PRODUCTS	1,419.9	16,359.0	1,072.7	2,415.0	11,207.7	30,554.4	52,155.2	81,515.4	4,187.4	15,652.2	1	1	1	

Table 1. General Statistics for Industry Groups and Industries: 1975 and 1974

(For explanation of column captions, see appendix)

Code	Industry group and industry	1974										Standard error of estimate (percent) for columns ¹		
		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of industry shipments (million dollars)	Capital expenditures, new (million dollars)	End of year inventories (million dollars)	A	F	I
		Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)								
		A	B	C	D	E	F	G	H	I	J	A	F	I
	ALL INDUSTRIES, INCLUDING C.A.O.'S TOTAL	19,844.8	208,367.3	13,970.9	27,239.3	124,983.2	452,477.6	581,710.8	1,017,846.9	35,698.7	157,729.1	1	1	1
	OPERATING MANUFACTURING ESTABLISHMENT	18,712.8	190,574.3	13,970.9	27,239.3	124,983.2	452,477.6	581,710.8	1,017,846.9	35,698.7	157,729.1	1	1	1
20	FOOD AND KINDRED PRODUCTS	1,551.7	14,778.2	1,073.7	2,123.7	9,188.5	44,768.8	118,264.7	161,961.4	3,017.7	15,281.7	1	1	1
21	TOBACCO PRODUCTS	67.6	607.1	58.1	106.9	478.5	3,216.6	3,966.0	7,139.9	185.4	3,202.6	2	1	2
22	TEXTILE MILL PRODUCTS	931.5	6,683.7	811.9	1,586.7	5,192.2	13,168.6	20,051.6	32,812.3	1,171.7	4,417.9	1	1	3
23	APPAREL, OTH. TEXTILE PRODS.	1,316.7	7,643.2	1,146.7	2,039.7	5,753.4	14,942.5	15,833.2	30,631.8	391.4	4,446.6	2	2	6
24	LUMBER AND WOOD PRODUCTS	674.2	5,484.8	582.0	1,110.1	4,289.4	11,533.5	15,600.5	26,817.6	1,357.2	3,307.9	2	2	3
25	FURNITURE AND FIXTURES	459.3	3,569.7	380.6	732.1	2,577.3	6,983.4	6,360.4	13,197.3	350.9	2,382.2	2	2	3
26	PAPER AND ALLIED PRODUCTS	648.2	7,022.1	508.7	1,034.6	5,007.8	19,096.4	23,204.5	41,759.5	2,214.4	4,823.4	1	1	1
27	PRINTING AND PUBLISHING	1,075.7	11,139.3	639.1	1,189.2	6,131.0	23,610.3	12,526.7	35,822.4	1,140.9	3,457.6	2	1	4
28	CHEMICALS, ALLIED PRODUCTS	485.3	10,542.0	541.3	1,083.3	5,689.4	44,431.7	41,472.0	83,744.9	5,071.9	11,056.0	1	1	1
29	PETROLEUM AND COAL PRODUCTS	145.6	1,919.9	101.4	207.9	1,240.9	9,951.1	50,140.5	58,875.8	1,845.1	4,100.9	1	1	1
30	RUBBER, MISC. PLASTICS PROD.	661.3	6,203.1	522.6	1,024.9	4,303.3	14,826.2	13,628.2	27,902.2	1,457.0	3,885.3	2	1	2
31	LEATHER, LEATHER PRODUCTS	255.8	1,604.1	223.1	401.8	1,228.8	3,120.2	3,099.2	6,176.5	76.1	910.9	1	2	6
32	STONE, CLAY, GLASS PRODUCTS	638.7	6,432.4	509.2	1,015.1	4,732.2	14,599.6	12,085.9	26,538.1	1,587.5	3,493.4	2	1	5
33	PRIMARY METAL INDUSTRIES	1,247.8	15,900.2	1,001.0	1,995.0	12,102.2	37,297.3	58,720.5	95,618.0	3,751.8	13,526.2	1	1	1
34	FABRICATED METAL PRODUCTS	1,574.7	16,570.0	1,207.7	2,415.0	11,469.2	35,221.0	33,858.1	67,569.9	1,981.2	13,312.6	1	1	1
35	MACHINERY, EXCEPT ELECTRIC	2,126.1	24,713.4	1,496.7	3,024.8	15,431.1	52,494.9	43,546.6	92,487.2	3,312.2	24,020.8	1	1	1
36	ELECTRIC, ELECTRONIC EQUIP.	1,775.5	18,092.8	1,242.3	2,700.0	10,508.7	36,901.5	30,106.0	65,804.1	2,426.3	13,782.8	1	1	1
37	TRANSPORTATION EQUIPMENT	738.0	22,609.2	500.0	1,000.0	4,000.0	14,000.0	14,000.0	28,000.0	3,176.1	13,782.8	1	1	1

C. TABLES ILLUSTRATING TYPES OF DATA PRESENTED—Continued

Table 1. General Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1975 and Earlier Years

(Selected standard metropolitan statistical areas include those with 40,000 or more manufacturing employees)

Year ¹	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of industry shipments (million dollars)	Capital expenditures, new (million dollars)
	Number (1,000)	Payroll (million dollars)	Number (1,000)	Man hours (millions)	Wages (million dollars)				
MAINE:									
1975	95.9	833.9	78.6	150.3	601.5	1,758.3	2,087.1	3,846.7	314.5
1974	101.1	814.2	84.8	163.7	600.1	1,768.4	2,108.2	3,839.0	173.2
1973	99.5	731.3	82.9	159.9	534.4	1,566.6	1,691.2	3,257.2	111.9
1972	100.0	699.4	82.6	162.2	512.9	1,383.4	1,503.9	2,879.4	138.9
1971	95.4	615.6	78.5	151.6	468.7	1,208.1	1,303.3	2,495.2	120.8
1970	103.8	630.6	86.4	168.1	471.8	1,230.9	1,215.5	2,443.8	140.2
1969	110.9	655.2	92.2	183.7	486.1	1,225.9	1,257.2	2,493.1	103.6
1968	112.3	624.5	94.7	187.2	472.0	1,134.3	1,222.9	2,343.4	114.2
1967	110.8	577.2	93.6	186.6	437.3	1,069.5	1,164.9	2,215.5	98.8
1966	107.5	513.4	90.6	184.5	405.7	980.3	1,088.6	2,052.7	133.7
1965	104.1	491.9	87.6	178.8	374.3	895.1	987.6	1,866.2	113.5
1964	101.3	459.4	85.6	173.2	350.6	822.9	911.9	1,720.3	70.7
1963	99.9	438.6	84.1	170.1	335.1	785.7	(NA)	(NA)	62.5
NEW HAMPSHIRE:									
1975	85.8	808.5	64.4	121.7	557.8	1,605.9	1,446.4	3,081.2	97.2
1974	91.3	781.6	69.3	130.9	500.5	1,578.3	1,494.5	3,053.4	104.0
1973	93.4	735.8	70.1	134.4	452.6	1,462.3	1,228.6	2,642.6	102.0
1972	89.7	663.2	67.7	131.4	414.0	1,278.6	1,034.2	2,288.7	99.1
1971	81.9	576.4	60.0	117.4	356.2	1,088.7	926.3	2,021.2	79.7
1970	89.9	586.8	67.2	133.9	368.0	1,062.1	928.6	1,965.5	73.2
1969	94.4	567.7	75.9	149.8	394.4	1,006.8	921.9	1,929.8	102.4
1968	95.6	550.2	76.5	153.4	384.8	1,007.1	899.6	1,891.0	54.0
1967	94.9	512.6	76.6	151.0	364.3	931.9	802.8	1,716.8	75.6
1966	96.3	483.7	78.0	156.5	345.3	866.1	776.9	1,636.3	72.5
1965	90.8	435.6	74.1	148.9	314.1	782.9	716.4	1,485.1	39.8
1964	85.0	398.2	69.3	138.3	284.6	688.2	670.0	1,352.5	40.5
1963	84.1	378.9	67.7	131.8	271.8	636.1	(NA)	(NA)	40.5

Table 2. Statistics for the State, Standard Metropolitan Statistical Areas, Large Industrial Counties, and Selected Cities: 1975 and 1974

Standard metropolitan statistical area, county, and city ¹	1975											Standard error of estimate (percent) for column ²		
	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of industry shipments (million dollars)	Capital expenditures, new (million dollars)	End of year inventories (million dollars)	A	B	C	
	Number (1,000)	Payroll (million dollars)	Number (1,000)	Man hours (millions)	Wages (million dollars)									D	E	F	G	H	I
MAINE	95.9	833.9	78.6	150.3	601.5	1,758.3	2,087.1	3,846.7	314.5	494.2	2	2	2	
STANDARD METROPOLITAN STATISTICAL AREAS														
LEWISTON-AUBURN, MAINE	10.9	78.8	9.0	17.2	56.8	172.6	152.1	324.6	*10.0	43.0	9	14	27	
PORTLAND, MAINE	13.9	139.6	10.0	19.9	84.9	272.5	285.5	564.6	21.2	87.0	7	5	4	
COUNTIES ³														
ANDROSCOGGIN	12.2	88.0	10.2	19.3	63.6	193.3	170.1	364.0	(0)	47.2	8	12	(X)	
AROSTOOK	5.7	50.5	4.8	9.3	39.4	107.2	202.4	305.2	19.4	49.0	6	8	7	
CUMBERLAND	14.8	141.6	10.8	20.8	86.2	290.7	288.9	584.1	22.2	84.0	7	5	5	
FRANKLIN	5.0	43.1	4.2	8.0	32.2	103.8	98.6	202.7	56.9	19.6	10	7	2	
KENNEBEC	10.5	94.5	8.7	16.8	70.7	205.2	281.3	492.3	10.9	49.4	9	5	4	
OXFORD	5.4	52.4	4.5	9.0	41.0	112.7	101.6	215.7	10.5	27.7	6	6	13	
PENOBSCOT	13.8	134.1	11.2	21.4	95.9	310.7	376.3	679.8	28.5	76.1	5	3	4	
YORK	8.8	69.5	7.5	14.2	52.3	129.2	144.1	276.7	4.1	46.5	5	4	8	
NEW HAMPSHIRE	85.8	808.5	64.4	121.7	557.8	1,605.9	1,446.4	3,081.2	97.2	538.5	3	2	4	
STANDARD METROPOLITAN STATISTICAL AREAS														
LAWRENCE-HAVERHILL, MASS.-N.H.	38.0	394.5	27.0	50.4	230.4	817.4	757.6	1,602.8	52.2	280.6	3	3	3	
LOWELL, MASS.-N.H.	22.0	224.9	14.5	26.4	117.9	425.5	361.2	792.2	20.0	134.3	4	3	11	
MANCHESTER, N.H.	16.8	142.6	12.6	22.8	84.8	272.2	266.1	538.8	*11.2	47.0	5	5	16	
NASHUA, N.H.	18.9	206.6	12.2	22.7	176.8	419.0	349.4	776.9	19.1	139.4	3	2	4	
COUNTIES ³														
CHESHIRE	6.9	63.6	4.9	9.0	36.6	120.6	97.0	219.8	*9.2	53.2	13	8	19	
HILLSBOROUGH	36.7	360.5	25.7	47.9	269.5	716.2	633.0	1,358.1	34.3	246.3	3	3	7	
MERRIMACK	8.6	87.9	6.6	12.6	54.2	165.0	134.2	306.6	7.6	52.4	3	9	9	
ROCKINGHAM	7.4	69.0	5.6	10.6	40.1	135.2	128.7	261.9	9.1	38.3	3	8	3	
STRAFFORD	8.4	70.2	6.7	12.6	47.4	142.8	104.6	251.9	4.7	44.4	8	4	10	
VT. MONT.	27.9	225.1	27.9	53.0	225.1	909.7	1,682.1	76.6				3	4	

C. TABLES ILLUSTRATING TYPES OF DATA PRESENTED—Continued

Table 3. Statistics for the State, by Industry Group and Industry: 1975 and 1974

Code	State and industry group ¹	1975											Standard error of estimate (percent) for column ¹		
		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of industry shipments (million dollars)	Capital expenditures, new (million dollars)	End of year inventories (million dollars)	A	F	I	
		Number (1,000)	Payroll (million dollars)	Number (1,000)	Man hours (millions)	Wages (million dollars)									
A	B	C	D	E	F	G	H	I	J	A	F	I			
MAINE		95.9	833.9	78.6	150.3	601.5	1,758.3	2,007.1	3,846.7	314.5	494.2	2	2	2	
20	FOOD AND KINDRED PRODUCTS . . .	10.0	87.8	7.6	13.8	56.7	207.2	429.3	765.0	24.5	65.9	7	13	10	
209	MISC. FOODS, KINDRED PRODUCTS*	2.6	16.5	2.2	3.2	12.1	40.4	67.5	105.2	5.5	22.7	7	19	12	
22	TEXTILE MILL PRODUCTS	8.1	56.8	7.2	14.6	46.0	110.6	119.0	233.2	1.5	39.7	1	1	12	
2231	WEAVING, FINISHING MILLS, WOOL . .	3.0	22.2	2.7	5.8	18.0	38.4	57.0	98.7	.8	18.6	1	1	18	
23	APPAREL, OTH. TEXTILE PRODS* . .	2.4	14.7	2.1	3.8	10.8	38.9	15.8	57.4	.7	8.2	21	11	21	
24	LUMBER AND WOOD PRODUCTS . . .	12.5	90.6	11.0	19.8	73.6	182.6	177.5	357.8	23.7	51.7	8	7	10	
2411	LOGGING CAMPS, LOG CONTRACTORS . .	4.9	37.2	4.3	6.9	31.4	91.5	85.4	176.0	*7.7	10.6	13	10	17	
249	MISCELLANEOUS WOOD PRODUCTS . .	4.6	30.0	4.0	7.5	23.4	47.6	38.2	84.8	*3.9	21.0	12	14	33	
25	FURNITURE AND FIXTURES . . . . .	.9	6.4	.7	1.4	4.2	10.4	9.7	19.7	.4	4.0	1	1	8
26	PAPER AND ALLIED PRODUCTS . . .	15.6	208.2	12.4	26.1	156.1	504.5	722.0	1,225.2	232.6	112.5	1	1	1	
2621	PAPERMILLS, EXC. BUILDING PAPER . .	11.9	168.3	9.5	20.5	126.0	384.8	574.1	958.5	157.3	87.0	1	1	1	
27	PRINTING AND PUBLISHING	2.8	22.5	1.6	2.7	11.8	44.8	14.0	58.4	*3.0	5.5	6	9	56	
28	CHEMICALS, ALLIED PRODUCTS . . .	.7	7.4	.5	1.1	4.1	33.6	46.3	74.9	2.4	18.8	3	15	6
30	RUBBER, MISC. PLASTICS PROD. . .	3.7	26.9	3.2	5.9	20.1	51.5	58.0	109.3	3.0	17.0	2	0	8	
31	LEATHER, LEATHER PRODUCTS . . .	16.4	107.6	14.6	26.5	82.2	201.8	232.5	441.8	6.0	56.0	9	6	9	
314	FOOTWEAR, EXCEPT RUBBER	14.6	88.0	12.9	23.1	67.1	161.3	153.2	318.1	2.9	40.2	6	4	1	
3143	MEN'S FOOTWEAR, EXCEPT ATHLETIC . .	6.3	39.8	5.7	10.0	30.6	78.6	75.0	154.7	1.8	20.7	1	1	1	
3144	WOMEN'S FOOTWEAR, EXC. ATHLETIC . .	6.1	34.2	5.2	9.2	25.6	53.0	54.5	109.9	.5	13.5	13	10	1	
32	STONE, CLAY, GLASS PRODUCTS . . .	1.9	17.1	1.7	3.4	14.1	35.7	38.1	72.4	*2.0	6.5	13	16	39	
34	FABRICATED METAL PRODUCTS . . .	2.6	24.0	2.0	4.3	17.5	45.8	46.1	91.5	*2.5	23.4	6	6	19	
35	MACHINERY, ELECTRIC	2.3	4.5	2.3	4.5	2.3	32.3	86.0						11	

Statistics for Selected Standard Metropolitan Statistical Areas by Industry Group: 1975 and 1974

(For industry groups with 2,500 or more manufacturing employees)

Code	Standard metropolitan statistical area and industry group	1975											Standard error of estimate (percent) for column ¹		
		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of industry shipments (million dollars)	Capital expenditures, new (million dollars)	End of year inventories (million dollars)	A	F	I	
		Number (1,000)	Payroll (million dollars)	Number (1,000)	Man hours (millions)	Wages (million dollars)									
A	B	C	D	E	F	G	H	I	J	A	F	I			
CHICAGO, ILL. NORTHWESTERN IND. SCA.		953.3	12,221.6	614.0	1,179.3	6,734.2	23,790.3	31,503.9	55,325.5	1,703.3	8,481.5	1	1	2	
20	FOOD AND KINDRED PRODUCTS	67.7	863.0	47.5	94.8	541.3	2,881.0	4,915.3	7,828.6	135.0	553.3	3	2	5	
201	MEAT PRODUCTS	10.3	133.7	8.5	16.8	99.4	315.2	1,255.2	1,578.8	13.4	58.9	2	2	2	
202	DAIRY PRODUCTS	3.8	54.7	1.6	3.1	21.7	128.8	336.7	465.5	*4.8	15.0	9	6	37	
203	PRESERVED FRUITS AND VEGETABLES . .	5.6	67.9	3.9	8.4	42.6	221.3	301.5	521.2	9.9	57.6	6	5	3	
204	GRAIN MILL PRODUCTS	5.4	77.8	4.1	8.7	57.6	408.6	521.6	928.2	34.7	58.7	4	2	1	
205	BAKERY PRODUCTS	14.1	178.0	9.1	18.8	108.3	482.5	394.3	875.4	*16.4	33.3	5	2	35	
206	SUGAR, CONFECTIONERY PRODUCTS . . .	14.1	145.3	11.7	20.6	110.5	451.2	642.1	1,106.4	11.4	113.0	2	2	6	
208	BEVERAGES	7.2	106.8	4.1	8.3	44.2	497.6	613.2	1,119.5	16.9	107.5	3	5	14	
209	MISC. FOODS, KINDRED PRODUCTS*	4.9	66.4	3.1	6.9	37.6	293.8	400.9	697.3	17.3	57.0	24	3	2	
23	APPAREL, OTH. TEXTILE PRODS	23.7	176.4	19.7	35.6	123.0	311.5	356.4	685.6	*6.3	106.4	13	11	22	
231	MEN'S AND BOYS' SUITS AND COATS . .	4.4	41.3	3.1	5.1	24.7	61.5	56.1	127.1	1.0	23.7	1	3	2	
232	MEN'S AND BOYS' FURNISHINGS*	4.4	30.2	4.0	6.9	23.3	40.1	22.5	63.9	.1	4.6	57	58	42	
233	WOMEN'S AND MISSES' OUTERWEAR . . .	4.8	37.1	4.1	7.5	27.3	70.5	88.7	159.9	*1.1	20.1	13	10	51	
239	MISC. FABRICATED TEXTILE PRODS* . .	6.6	46.3	5.7	10.7	32.7	100.7	134.0	235.8	3.5	36.9	21	23	36	
24	LUMBER AND WOOD PRODUCTS	8.0	77.5	6.3	11.8	48.8	149.3	121.0	274.4	4.7	35.4	9	22	23	
249	MISCELLANEOUS WOOD PRODUCTS	4.8	42.6	3.9	7.5	27.5	68.3	61.4	132.6	2.0	23.1	10	13	11	
25	FURNITURE AND FIXTURES	17.2	173.9	12.8	23.4	110.1	298.1	322.6	623.5	8.4	126.2	5	5	6	
251	HOUSEHOLD FURNITURE	8.7	80.2	6.8	12.8	52.8	138.4	173.3	312.7	3.6	48.9	6	6	12	
254	PARTITIONS AND FIXTURES	3.7	40.6	2.4	4.3	22.4	71.2	64.1	138.9	3.0	27.3	9	9	5	
26	PAPER AND ALLIED PRODUCTS	28.2	321.1	21.1	42.3	204.0	703.4	844.6	1,548.1	49.6	184.3	4	3	10	
264	MISC. CONVERTED PAPER PRODUCTS . .	11.9	136.8	8.7	17.8	84.5	298.9	337.1	635.7	*19.4	91.0	5	5	16	
265	PAPERBOARD CONTAINERS AND BOXES . .	15.4	169.6	11.6	22.8	108.1	350.4	472.4	823.5	26.1	86.6	5	4	13	
27	PRINTING AND PUBLISHING	82.6	1,057.0	49.6	91.0	576.5	2,172.2	1,300.0	3,468.0	*72.7	323.1	5	5	21	
271	NEWSPAPERS	14.1	173.5	7.0	11.0	81.3	342.1	141.4	483.3	7.5	12.2	3	2	6	
272	PERIODICALS	6.7	88.0	1.3	2.3	12.7	237.0	166.7	404.0	*3.3	28.1	5	15	20	
273	BOOKS	8.1	109.2	1.9	3.7	20.8	27.0	184.8	599.8	9.1	98.4	3	1	1	
274	MISCELLANEOUS PRINTING	1.5	2.3	1.5	2.3	1.5	2.3	2.3	193.7					7	

C. TABLES ILLUSTRATING TYPES OF DATA PRESENTED—Continued

Product Class Data. The value of shipments for product classes (5-digit) is shown in the annual survey of manufactures back to the previous census.

Table 1. Value of Shipments of Product Classes: 1975, 1974, 1973, and 1972

(A "class of product" is a grouping of individual products of an industry. It is designated by a 5-digit code, the first four digits indicating the industry and the fifth digit the specific group of products. The value of shipments for a class of product code presented here is on a wherever made basis, i.e., it represents total shipments by all manufacturing industries (the industry in which the product class is primary and other industries in which the product class is secondary). In some cases, by definition, a product class is limited to the products of a particular manufacturing process. Wherever another product class accounts for additional production of the same end products, a cross reference is provided, e.g., Meatpacking plant products: 20116 Pork, processed, made in meatpacking plants (see code 20136). The total value of

shipments of all product classes belonging to an industry is also shown on the same "wherever made" basis. It is designated by the 4-digit industry code followed by a dash (e.g., 2016) if the industry has more than one product class, and by the 4-digit industry code followed by another digit if the industry has only one product class (e.g., 20210). The 4-digit product class aggregate is not the same as the total industry value of shipments given in other Annual Survey tables. This latter total comprises all shipments by establishments classified in the specified industry, including their shipments of products classes primary to other industries but excluding shipments by establishments in other industries of product classes primary to the specified industry. The totals in this report are subject to sampling errors)

Code	Class of products	Value of product shipments (million dollars)				Standard error (percent) for col. A ¹
		1975	1974	1973	1972	
		A	B	C	D	
20	FOOD AND KINDRED PRODUCTS					
2011-	MEATPACKING PLANTS	29,813.2	27,216.7	25,474.0	21,703.2	1
20111	BEEF, NOT CANNED OR MADE INTO SAUSAGE	16,429.4	15,045.1	13,629.7	11,790.1	1
20112	VEAL, NOT CANNED OR MADE INTO SAUSAGE	279.5	237.4	238.1	241.5	9
20113	LAMB AND MUTTON, NOT CANNED OR MADE INTO SAUSAGE	388.1	364.1	346.8	330.4	2
20114	PORK, FRESH AND FROZEN	5,979.8	5,367.8	5,319.6	4,221.0	1
20115	LARD	330.7	349.5	231.7	171.0	1
20116*	PORK, PROCESSED (NOT CANNED OR MADE INTO SAUSAGE), MADE IN MEATPACKING PLANTS (SEE CODE 20136) ²	2,128.5	1,829.0	1,771.6	1,443.3	1
20117*	SAUSAGE AND SIMILAR PRODUCTS (NOT CANNED), MADE IN MEATPACKING PLANTS (SEE CODE 20137) ²	2,075.7	1,826.6	1,636.4	1,353.4	3
20118	CANNED MEATS (EXCEPT DOG AND CAT FOOD) CONTAINING 20 PERCENT OR MORE MEATS, MADE IN MEATPACKING PLANTS (SEE PRODUCT CLASS CODE 20138) ²	616.5	695.0	604.0	622.0	2
20119	HIDES, SKINS, AND PELTS	478.3	555.8	728.0	580.4	2
20110	MISCELLANEOUS BYPRODUCTS OF MEATPACKING PLANTS	1,106.7	946.4	967.9	950.0	8
2013-	MEAT PROCESSING PLANT PRODUCTS					
20136*	PORK, PROCESSED OR CURED (NOT CANNED OR MADE INTO SAUSAGE), NOT MADE IN MEATPACKING PLANTS, (SEE CODE 20116) ²	1,589.1	1,309.3	1,150.9	970.2	6
20137*	SAUSAGE AND SIMILAR PRODUCTS (NOT CANNED), NOT MADE IN MEATPACKING PLANTS (SEE CODE 20117) ²	2,980.1	2,362.7	2,257.8	1,911.2	4
20138	CANNED MEATS (EXCEPT DOG AND CAT FOOD) CONTAINING 20 PERCENT OR MORE MEAT, NOT MADE IN MEATPACKING PLANTS (SEE CODE 20118) ²	639.7	686.2	573.2	484.2	2
20139	NATURAL SAUSAGE CASINGS	(67.2)	90.9	99.8	114.8	19
20130	MEAT PROCESSING PLANT PRODUCTS		382.3	377.7		1

Table 2. Quantity and Value of Shipments of Selected Product Classes: 1975, 1974, and 1973

Code	Class of products	Unit of measure	1975		1974		1973	
			Quantity	Value	Quantity	Value	Quantity	Value
				(million dollars)		(million dollars)		(million dollars)
20136	Pork, processed or cured (not canned or made into sausage), not made in meatpacking plants	Million lbs.	1,576.5	1,589.1	1,711.5	1,309.3	1,558.3	1,150.9
20137	Sausage and similar products (not canned), not made in meatpacking plants	do.	3,094.6	2,980.1	2,631.1	2,362.7	2,523.0	2,257.8
20261	Bulk fluid milk and cream	do.	(S)	2,321.3	(S)	1,949.2	13,826.2	1,373.7
20138	Jams, jellies and preserves	do.	(S)	474.4	1,337.3	407.9	1,263.2	290.3
20430	Cereal breakfast foods	Million lbs.	2,973.0	1,694.6	2,706.7	1,364.2	2,186.2	1,073.3
20455	Flour mixes and refrigerated doughs, not made in flour mills ¹	do.	3,593.9	1,171.6	2,974.1	942.8	2,971.8	696.2
20481	Egg-type feed, including starter-grower and layer-breeder	1,000 short tons	7,150.4	979.6	8,070.3	1,081.4	(S)	1,013.0
20482	Broiler feed	do.	7,983.9	1,189.6	7,791.5	1,199.9	(S)	934.1
20483	Turkey feed	do.	1,692.7	255.6	1,950.0	286.5	(S)	253.3
20484	Dairy cattle feed	do.	10,355.3	1,366.9	10,615.1	1,337.5	(S)	1,131.9
20485	Swine feed	do.	7,141.6	1,271.2	7,179.0	1,299.4	(S)	1,081.5
20511	Bread and bread-type rolls	Million lbs.	14,105.4	3,893.1	12,058.3	3,328.1	11,195.1	2,648.9
20521	Crackers and pretzels	do.	1,780.5	1,102.1	(S)	934.9	1,733.8	782.8
20522	Cookies and ice cream cones	do.	2,468.9	1,469.0	2,373.7	1,307.5	(S)	1,089.4
20951	Roasted coffee, whole bean or ground	do.	1,682.4	1,901.1	1,650.0	1,752.3	1,783.8	1,676.6
20952	Concentrated coffee	do.	198.7	906.8	177.4	672.5	205.2	679.1
20980	Macaroni, spaghetti, and noodles	do.	1,724.7	586.4	(S)	565.4	1,605.1	450.7
20992	Chips (potato, corn, etc.)	do.	1,823.8	1,575.1	1,589.4	1,433.6	1,599.8	1,232.7
22710	Woven carpets and rugs	Million sq. yds.	19.6	166.4	24.4	202.1	(S)	201.0
22951	Polyester-coated fabrics	Million lin. yds.	21.0	24.2	31.0	34.5	(NA)	26.3
22952	Vinyl coated fabrics	do.	(S)	690.0	454.8	728.7	508.0	693.7
24511	Mobile homes (15 feet or more in length)	1,000 units	260.1	2,035.3	352.7	2,461.1	578.8	3,264.1
24920	Particleboard	Million sq. ft.						
25156	Studio couches	1/4" basis	2,583.2	276.4	3,707.8	381.9	3,439.1	406.5
26211	Newsprint	1,000 units	(S)	17.3	(S)	26.8	269.8	23.5
26212	Coated newsprint	1,000 short tons	3,493.7	831.5	3,453.1	669.0		533.6
		do.		402.4	1,444.4			

Chapter VII. LOCATOR GUIDE TO CURRENT INDUSTRIAL REPORTS DATA

The Bureau supplements the product data collected in the Censuses of Manufactures and the Annual Surveys of Manufactures with current measures of manufacturing activity. Two surveys, "Manufacturers' Shipments, Inventories, and Orders," and "Manufacturers' Export Sales and Orders," relate to the overall manufacturing economy while most of the other monthly, quarterly, and annual commodity surveys published in the Current Industrial Reports series relate to specific industries or groups of commodities.

There is considerable variation in the content of the more than 100 Current Industrial Reports although for the most part they relate to the U.S. production or supply of manufactured commodities and industrial materials.

While each report contains information on diverse product groups, there is a degree of uniformity in the presentation of the reports. Table 1 of each report consists of historical data on a summary basis or for the principal items covered in the survey. Other tables, typically, present detailed data for the current period, the previous period, and the same period a year ago. A number of reports include data on a seasonally adjusted basis.

The standardized presentation also includes a description of survey techniques, limitations of the data, and explanations of the terms used.

Section A presents some basic information on the Current Industrial Reports (CIR's), and section B shows a selected group of tables that illustrate the type of data presented in some of the CIR publications.

A. DETAILS ON INDIVIDUAL CURRENT INDUSTRIAL REPORTS

Series No.	Program area (survey title)	Frequency of publication	Survey coverage ¹	Type of information collected					Geo-graphic data	Other information shown	SIC groups covered	Items covered	
				Shipments		Production	Consumption	Inventory (stocks)					Orders
				Quantity	Value								
<u>All Manufacturing or Mining Industries</u>													
M3-1	Manufactures shipments, inventories, and orders of durable goods.....	M	C		X						Information on selected 2-, 3-, and 4-digit industries		
M4-A	Manufactures' Export Sales and Orders.	M	C		X						Information on selected 2-, 3-, and 4-digit industries		
MQ-1	Manufactures' Inventories and Sales Expectations.....	Q	C		X						Information on total durables and nondurables products		
MQ-C1	Survey of Plant Capacity.....	Q	P			X	X			Capacity	Information on selected 2-, 3-, and 4-digit industries		
MA-161	Survey of the Origin of Exports of Manufacturing Establishments.....	A	P		X				X	Employment	Information on selected 2-, 3-, and 4-digit industries		
MA-175	Shipments of Defense-Oriented Industries.....	A	P		X				X		Information on 75 - 4-digit industries		
MA-200	Pollution Abatement Cost and Expenditures.....	A	P							Capital expenditures for pollution abatement; Operating costs; Quantity of pollutants abated	Information on selected 2-, 3-, and 4-digit industries		
MA-13K	Annual Survey of Oil and Gas.....	A	P	X	X				X	Oil and gas field expenditure, assets and employment	131 2 products		
<u>Apparel and Leather</u>													
MA-23A	Apparel.....	A	U		X	X					231,232,233,234 520 products		
MA-23J	Brassieres, Girdles, and Allied Garments.....	A	U	X	X						225,236,238 25 products		
MA-23D	Gloves and Mittens.....	A	U	X	X					234 23 products			
M23B	Men's Apparel.....	M	C			X				238,315 23 products			
M31A	Shoes and Slippers.....	M	C	X	X	X				225,231,232 37 products			
MA-31A	Shoes and Slippers - by Type of Construction and Price Line.....	A	U	X	X	X		X		By selling price	314 37 products including inventories, shipments by price line and by distribution channel		
M23H	Women's, Misses' and Juniors' Apparel.	M	C			X					225,233 8 items		
<u>Chemicals, Rubber, and Plastics</u>													
M29A	Asphalt and Tar Roofing and Siding Products.....	A	U	X					X		295 11 products		
M28C	Industrial Gases.....	M	U			X					281 7 products		
MA-28C	Industrial Gases.....	A	U	X	X	X	X		X		281 9 products		
M28A	Inorganic Chemicals.....	M	U			X		X			281 40 products		
MA-28A-14	Inorganic Chemicals.....	A	U	X	X	X	X		X	Commercial shipments	281 201 products		
M28B	Inorganic Fertilizer Materials and Other Related Products.....	M	U			X	X	X			281 32 products		
M28F	Paint, Varnish, and Lacquer.....	M	P			X				Sales	285 4 products		
MA-28G	Pharmaceutical Except Biologicals.....	A	C		X				X		283 153 products		
M30E	Plastic Bottles.....	M	C	X						By type and weight of bottle By type of resin By end used	307 25 products		

See footnotes at end of table.

A. DETAILS ON INDIVIDUAL CURRENT INDUSTRIAL REPORTS—Continued

Series No.	Program area (survey title)	Frequency of publication	Survey coverage ¹	Types of information collected						Geo-graphic data	Other information shown	SIC groups covered	Items covered
				Shipments		Production	Consumption	Inventory (stocks)	Orders				
				Quantity	Value								
	<u>Chemicals, Rubber, and Plastics</u> --Continued												
MA-30A	Rubber Supply and Distribution.....	A	U			X	X	X			282,303	15 products	
MA-29C	Sales of Lubricating and Industrial Oils and Greases.....	A	U	X					X		291,295	12 products	
MA-30D	Shipments of Selected Plastics Products.....	B	C		X		X				307	72 products	
M28A supp. 1	Sulfuric Acid.....	A	U	X	X	X			X		281	18 products	
	<u>Intermediate Metal Products</u>												
MA-34P	Aluminum Foil Converted.....	A	U	X	X		X			By end use	349	50 products	
M34H	Closures for Containers.....	M	U	X	X						307,346	15 products	
MA-34C	Commercial Steel Forgings.....	A	U	X	X						331,346	12 products	
MA-34N	Heating Equipment, Selected.....	A	U	X	X			X			343,369	60 products	
MA-34D	Metal Cans.....	A	U	X	X					By type of customer, By kind of metal, By type of can	341	20 products	
MQ-34E	Plumbing Fixtures.....	Q	U	X	X	X		X			307,326,343	64 products	
MA-34G	Steel Power Boilers.....	A	U						X		342	14 products	
M34K	Steel Shipping Barrels, Drums, and Pails.....	M	U	X	X						341	21 products	
	<u>Lumber, Furniture, and Paper Products</u>												
MQ-26F	Converted Flexible Packaging Products.	Q	U		X						264,275	16 products	
MA-24F	Hardwood Plywood.....	A	U	X	X	X	X		X		243	29 products	
MA-24T	Lumber Production and Mill Stocks.....	A	P			X		X	X		242	32 products	
M25E	Mattresses, Bedspings, and Sleep Furniture.....	M	P	X	X				X		251	13 products	
MA-25H	Office Furniture.....	A	U	X	X						252	39 products	
M26A	Pulp, Paper, and Board.....	M	U			X	X	X	X		261,262,263	57 products	
MA-24H	Softwood Plywood.....	A	U	X	X	X	X		X		243	11 products	
	<u>Machinery and Equipment</u>												
MA-35M	Air-Conditioning and Refrigeration Equipment.....	A	U	X	X						358	313 products	
MA-35J	Air Pollution Control Equipment, Selected Industrial.....	A	U	X	X								
MA-37E	Aircraft Propellers.....	A	U	X	X				X		356	9 products	
MA-38Q	Atomic Energy Products, Selected.....	A	U	X	X				X		372	3 products	
											282,344,349, 355,369,302, 383	26 products	
MQ-37D	Backlog of Orders for Aerospace Companies.....	Q	U						X	Sales	372	7 products	
M37G	Complete Aircraft and Aircraft Engines	M	U	X	X				X	Airframe weight	372	13 products	
MA-35D	Construction Machinery.....	A	U	X	X						353	42 products	
MQ-35D	Construction Machinery.....	Q	U	X	X					Exports	353	104 products	
MA-36E	Electric Housewares and Fans.....	A	U	X	X						363	50 products	
MA-36L	Electric Lighting Fixtures.....	A	U	X	X						364	32 products	
M36D	Electric Lamps.....	M	U		X						364	3 items	
MQ-36B	Electric Lamps.....	Q	U	X	X	X		X			364	40 products	
MA-36N	Electronic and Associated Products, Selected.....	A	U	X	X						366,367	340 products	

See footnotes at end of table.

A. DETAILS ON INDIVIDUAL CURRENT INDUSTRIAL REPORTS—Continued

Series No.	Program area (survey title)	Frequency of publication	Survey coverage ¹	Types of information collected					Geo-graphic data	Other information shown	SIC groups covered	Items covered	
				Shipments		Production	Consumption	Inventory (stocks)					Orders
				Quantity	Value								
<u>Machinery and Equipment--Continued</u>													
MA-35A	Farm Machines and Equipment.....	A	U	X	X					352	228 products		
MQ-36C	Fluorescent Lamp Ballasts.....	Q	U	X	X					361	16 products		
MA-36M	Radio Receivers and Television Sets; Phonographs and Record Players, Speakers and Related Equipment.....	A	U	X	X				By end use	365	57 products		
MA-38B	Instruments and Related Products, Selected.....	A	U	X	X					349,381,382,383	265 products		
MA-35L	Internal Combustion Engines.....	A	U	X	X				By fuel system	351	41 products		
MA-36F	Major Household Appliances.....	A	U	X	X					363	80 products		
MQ-35W	Metalworking Machinery.....	Q	U	X	X			X	Export value		130 products		
MA-35F	Mining Machinery and Equipment.....	A	U	X	X						50 products		
MA-36H	Motors and Generators.....	A	U	X	X				Number of companies with value of shipments \$100,000	362	131 products		
MA-35R	Office, Computing, and Accounting machines.....	A	U	X	X		X			357	66 products		
MA-35P	Pumps and Compressors.....	A	U	X	X					356	84 products		
MA-36A	Switchgear, Switchboard Apparatus, Relays and Industrial Controls.....	A	U		X					361,362	65 products		
M35S	Tractors, Except Garden Tractors.....	M	U	X	X	X				352,353	16 products		
MA-35T	Tractors, Except Garden Tractors.....	A	U	X	X	X			By fuel system	352,353	16 products		
M37L	Truck Trailers.....	M	U	X	X					371	28 products		
MA-35U	Vending Machines (coin operated).....	A	U	X	X					358	19 products		
MA-36K	Wiring Devices and Supplies.....	A	U	X	X					364	114 products		
<u>Primary Metals</u>													
M33-2	Aluminum Ingot and Mill Products.....	M	U	X						333,334,335	30 products		
MA-33L	Insulated Wire and Cable.....	A	U	X	X					335,369	125 products		
M33-3	Inventories of Steel Mill Shapes.....	M	C		X			X		331	1 product		
M33A	Iron and Steel Castings.....	M	P	X				X	Receipts	332	18 products		
MA-33G	Magnesium Mill Products.....	A	U	X						334,335	6 products		
M33E	Nonferrous Castings.....	M	P	X				X	Receipts	336	15 products		
MA-33B	Steel Mill Products.....	A	U	X	X		X	X	Receipts	331	100 products		
M33K	Inventories of Brass and Copper Wire Mill Shapes.....	M	U				X	X	Receipts	333,334,335	5 products		
<u>Processed Foods</u>													
M20C	Confectionery, Including Chocolate Products.....	M/A	C	X	X					206	12 products		
M20J	Fats and Oils, Oilseed Crushings.....	M	U			X		X		207	68 products		
M20K	Fats and Oils, Production, Consumption, and Stocks.....	M	U			X	X	X		207	50 products for consumption and stocks		
M20A	Flour Milling Products.....	M	C			X	X			204	11 products		
<u>Stone, Clay, and Glass Products</u>													
M32D	Clay Construction Products.....	M	U	X	X	X				325	9 products		
MA-32E	Consumer, Scientific, Technical, and Industrial Glassware.....	A	U	X	X					322	29 products		
MA-32J	Fibrous Glass.....	A	U	X	X	X				322,329	9 products		
MQ-32A	Flat Glass.....	Q	U	X	X	X		X		321	8 products		
M32G	Glass Containers.....	M	U	X		X		X	Value shipments in annual summary	322	22 products		
MQ-32C	Refractories.....	Q	U	X	X				Geographic data in annual summary	325,329	50 products		

See footnotes at end of table.

A. DETAILS ON INDIVIDUAL CURRENT INDUSTRIAL REPORTS—Continued

Series No.	Program area (survey title)	Frequency of publication	Survey coverage ¹	Types of information collected						Geographic data	Other information shown	SIC groups covered	Items covered
				Shipments		Production	Consumption	Inventory (stocks)	Orders				
				Quantity	Value								
	<u>Textile Mill Products</u>												
MA-22S	Broadwoven Fabrics Finished.....	A	U			X				X			
MQ-22T	Broadwoven Fabrics (Gray).....	Q	C			X	X				Looms operating and in place	221,222,226 221,222	23 products by type of finish 190 products
MQ22Q	Carpets and Rugs.....	Q	C	X	X		X					227	10 products
M22D	Consumption on the Woolen and Worsted Systems.....	M	C				X					229	38 products
M22P	Cotton, Manmade Fiber Staple, and Linters.....	M	C				X	X		X	Spindles	221	25 products collected in both bales and lbs.
MQ-22K	Knit Fabric Production.....	Q	C			X	X				Machines operating	225	41 products including 17 yarns consumed codes
MA-22G	Narrow Fabrics.....	A	U	X	X					X	Machinery	224	23 products
MQ-23X	Sheets, Pillowcases, and Towels.....	Q	C	X	X	X					By method of distribution, By type of finish	221,239	25 products
MA-22F.2	Spun Yarn Production.....	A	U			X				X	By end use By method of distribution	228	41 products
MA-22F.1	Textured Yarn Production.....	A	U			X				X	By end use By method of distribution	228	16 products
MA-22M	Wool and Related Fibers, Stocks of....	B	U					X				223	27 products

M-Monthly. Q-Quarterly. A-Annually. B-Biennial. X-Data Available.

¹All surveys provide estimates of universe totals, although data may be collected from the universe of all firms (U), a probability sample selected from the universe (P), or a cut-off sample which usually includes all large firms (C).

B. TABLES ILLUSTRATING TYPES OF DATA PRESENTED

1. Monthly

Fats and Oils—Production, Consumption, and Stocks (M20K)

TABLE 3.--SELECTED FATS AND OILS:
PRODUCTION, CONSUMPTION, AND FACTORY AND WAREHOUSE STOCKS
(THOUSANDS OF POUNDS)

ITEM	NOVEMBER	OCTOBER	
	1976	1976	
	QUANTITY	QUANTITY	
COTTONSEED OIL:			
2074211	PRODUCTION OF REFINED OIL (1)	73 007	37 695
2074111	CONSUMPTION IN REFINING	77 285	39 946
2074***	CONSUMPTION IN SELECTED EDIBLE AND INEDIBLE PRODUCTS, TOTAL (2)	56 597	43 708
2074211	CONSUMPTION IN EDIBLE PRODUCTS, TOTAL	56 215	43 219
2074211	BAKING OR FRYING FATS	11 404	10 177
2074211	SALAD OR COOKING OIL	39 800	27 503
2074211	MARGARINE	4 498	4 496
2074211	OTHER EDIBLE PRODUCTS	513	1 043
2074***	STOCKS, END OF MONTH, TOTAL	166 584	115 515
2074111	CRUDE	83 315	49 235
2074211	REFINED	83 269	66 280
SOYBEAN OIL:			
2075121	PRODUCTION OF REFINED OIL (1)	600 513	575 365
2075111	CONSUMPTION IN REFINING	622 498	599 545
20751**	CONSUMPTION IN SELECTED EDIBLE AND INEDIBLE PRODUCTS, TOTAL (2)	612 066	621 311
2075121	CONSUMPTION IN EDIBLE PRODUCTS, TOTAL	595 389	603 506
2075121	BAKING OR FRYING FATS	184 918	183 410
2075121	SALAD OR COOKING OIL	265 703	411

Inorganic Chemicals (M28A)

TABLE 2.--PRIMARY PRODUCTION AND STOCKS OF SPECIFIED INORGANIC CHEMICALS
(SHORT TONS)

PRODUCT CODE	CHEMICAL AND BASIS	NOVEMBER 1976		OCTOBER 1976		NOVEMBER 1975	
		QUANTITY PRODUCED	STOCKS AT PRODUCING PLANTS	QUANTITY PRODUCED	STOCKS AT PRODUCING PLANTS	QUANTITY PRODUCED	STOCKS AT PRODUCING PLANTS
CHLORINE AND ALKALIES:							
CHLORINE (100%):							
2812111	GAS (1)	859,277	(NA)	874,454	(NA)	776,481	(NA)
2812115	LIQUID	475,020	(NA)	475,163	(NA)	440,240	(NA)
2812421	POTASSIUM HYDROXIDE (CAUSTIC POTASH) (88-92%), LIQUID (2)	21,617	(NA)	22,670	(NA)	17,795	(NA)
SODIUM CARBONATES, SYNTHETIC (58%): (3)							
2812251	TOTAL CRUDE BICARBONATE (4)	180,437	(NA)	160,128	(NA)	201,135	(NA)
2812245	FINISHED LIGHT ASH (5)	(D)	(NA)	78,778	(NA)	86,872	(NA)
2812241	FINISHED DENSE ASH	86,720	(NA)	68,058	(NA)	101,682	(NA)
SODIUM CARBONATES, NATURAL (58%) (6)							
		464,142	113,341	437,300	83,083	404,967	51,844
SODIUM HYDROXIDE (CAUSTIC SODA) (100%) (ALL PROCESSED):							
2812310	LIQUID (2)	862,663	(NA)	876,250	(NA)	819,921	(NA)
2812318	DRY (ALL FORMS)	27,790	(NA)	30,921	(NA)	56,106	(NA)
ACIDS:							
HYDROCHLORIC (100%), TOTAL							
2819441	FROM SALT AND ACID	203,910	(NA)	193,956	(NA)	160,117	(NA)
2819445	FROM CHLORINE AND HYDROGEN	13,670	(NA)	9,844	(NA)	9,129	(NA)
2819447	BYPRODUCT AND OTHER	8,877	(NA)	8,342	(NA)	4,424	(NA)
			(NA)	175,770	(NA)	174,564	(NA)

B. TABLES ILLUSTRATING TYPES OF DATA PRESENTED—Continued

2. Quarterly

Sheets, Pillowcases, and Towels (MQ-23X)

Table 3.—QUANTITY AND VALUE OF SHIPMENTS OF WOVEN SHEETS, PILLOWCASES, AND TOWELS, BY DISTRIBUTION CHANNEL AND TYPE OF FINISH

Product	Total value of shipments		Distribution channel						Type of finish					
			Branded retail		Private ticket retail		Institutional and other		In white		In solid colors		In fancies	
	Quantity (1,000 dozens)	Value (\$1,000)	Quantity (1,000 dozens)	Value (\$1,000)	Quantity (1,000 dozens)	Value (\$1,000)	Quantity (1,000 dozens)	Value (\$1,000)	Quantity (1,000 dozens)	Value (\$1,000)	Quantity (1,000 dozens)	Value (\$1,000)	Quantity (1,000 dozens)	Value (\$1,000)
Third quarter 1976														
Crib sheets.....	165	3,119	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Sheets, flat and fitted (except crib), total.....	3,875	149,424	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Cotton, including blends chiefly cotton.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Polyester/cotton blends:														
Less than 180 count.....	2,234	76,222	1,465	51,479	358	11,845	411	12,898	583	16,924	158	3,711	1,493	55,587
180 count and greater.....	1,509	68,388	1,049	48,384	242	11,171	218	8,833	295	11,682	108	4,834	1,106	51,872
All other fabrics.....	132	4,814	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Pillowcases, total.....	3,142	40,041	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Cotton, including blends chiefly cotton.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Polyester/cotton blends:														
Less than 180 count.....	1,738	19,990	1,180	14,259	282	3,135	276	2,596	463	3,437	146	1,722	1,129	14,831
180 count and greater.....	1,255	18,514	918	13,999	179	2,820	158	1,695	226	2,567	86	1,229	943	14,718
All other fabrics.....	149	1,537	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Terry woven towels.....	11,264	112,814	6,215	69,617	1,498	14,525	3,551	28,672	3,431	26,897	3,898	43,412	3,935	42,505
Kitchen.....	1,245	5,222	799	3,926	348	889	98	407	469	1,756	252	1,221	524	2,245
Bath size.....	5,106	66,237	2,678	39,848	671	8,885	1,757	17,504	1,371	15,010	1,990	26,504	1,745	24,723
Hand, face, guest, and fingertip.....	4,326	33,173	2,361	20,273	444	3,934	1,521	8,966	1,321	8,133	1,515	12,666	1,490	12,374
All other types.....	587	8,182	377	5,570	35	817	175	1,795	270	1,998	141	3,021	176	3,163
Washcloths, terry.....	7,972	32,767	5,253	22,006	700	3,513	2,019	7,248	(X)	(X)	(X)	(X)	(X)	(X)
Second quarter 1976														
Crib sheets.....	185		(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

Refractories (MQ-32C)

TABLE 2.—QUANTITY AND NET VALUE OF SHIPMENTS OF REFRACTORIES, BY KIND FOR THE UNITED STATES (BRICK REPORTED IN 1,000, 1/2 INCH EQUIVALENT)

PRODUCT CODE	DESCRIPTION OF PRODUCT	UNIT OF MEASURE	THIRD QUARTER 1976		SECOND QUARTER 1976		THIRD QUARTER 1975		
			QUANTITY SHIPPED	PRODUCT SHIPMENTS (\$1,000)	QUANTITY SHIPPED	PRODUCT SHIPMENTS (\$1,000)	QUANTITY SHIPPED	PRODUCT SHIPMENTS (\$1,000)	
	CLAY AND NONCLAY REFRACTORIES, TOTAL		(X)	275,610	(X)	259,709	(X)	215,439	
3255---	CLAY REFRACTORIES, TOTAL		(X)	118,891	(X)	110,914	(X)	97,820	
3255011	BRICK AND SHAPES:								
	FIRECLAY (INCL. SEMISILICA) BRICK & SHAPES, EXCEPT SUPERDUTY.	M BRICK	}	20,725	45,624	18,290	49,535	17,065	
3255045	GLASS-HOUSE POTS, TANK BLOCKS, FEEDER PARTS, & UPPER STRUCTURE SHAPES USED ONLY FOR GLASS TANKS (2)	DO							
3255015	SUPERDUTY FIRECLAY BRICK AND SHAPES.	DO							
3255021	HIGH ALUMINA BRICK & SHAPES (50% ALUMINUM OXIDE & OVER) MADE SUBSTANTIALLY OF CALCINED DIASPORE OR BAUXITE (2) (3)	DO							
3255031	LADLE BRICK.	DO							
3255035	HIGH ALUMINA LADLE BRICK (50% ALUMINUM OXIDE AND OVER)	DO	}	11,212	49,641	11,214	43,627	9,278	
3255041	SLEEVES, NOZZLES, RUNNER BRICK, TUYERES AND SLIDE GATE BRICK (EXTERNALLY APPLIED)	DO							
	INSULATING FIRE BRICK AND SHAPES, TOTAL (4)	DO		8,718	5,215	9,403	5,586	8,055	4,418
	DEGREES F TO NOT			12,661	12,374	6,974	15,558		

B. TABLES ILLUSTRATING TYPES OF DATA PRESENTED—Continued

3. Annual

Industrial Gases (MA28C)

Table 3.—PRODUCTION AND SHIPMENTS OF ACETYLENE, BY GEOGRAPHIC AREA: 1975

Production	Production (mil. cu. ft.)	Total shipments including interplant transfers	
		Quantity (mil. cu. ft.)	Value (\$1,000)
UNITED STATES, TOTAL ¹	6,697	4,140	129,100
Northeast Region and North Central Region....	812	683	30,019
South Region.....	5,603	3,171	85,530
Mountain Division.....	98	93	4,352
Pacific Division.....	184	193	9,199

¹See table 10 for the number of establishments reporting production by State.

Table 4.—PRODUCTION AND SHIPMENTS OF CARBON DIOXIDE, BY DIVISIONS: 1975

Division	Total liquid and solid			Liquid and gas			Solid (dry ice)		
	Production (short tons)	Shipments		Production (short tons)	Shipments		Production (short tons)	Shipments	
		Quantity (short tons)	Value (\$1,000)		Quantity (short tons)	Value (\$1,000)		Quantity (short tons)	Value (\$1,000)
UNITED STATES, TOTAL ¹	1,850,973	1,750,933	66,633	1,499,371	1,399,269	41,849	351,602	351,664	24,784
New England and Middle Atlantic.....	111,788	111,815	8,009	50,482	50,447	1,160	61,306	61,368	6,849
East North Central.....	339,465	318,430	10,296	261,710	240,675	5,159	77,755	77,755	5,137
West North Central.....	221,521	217,408	8,297	183,807	179,694	5,643	37,714	37,714	2,654
South Atlantic and East South Central.....	551,333	512,031	21,479	499,685	460,383	17,881	51,648	51,648	3,598
West South Central.....	348,995	320,593	11,068	319,609	291,207	8,733	29,386	29,386	2,335
Mountain.....	70,525	70,525	2,043	34,768	34,768	985	35,757	35,757	1,058
Pacific.....	207,346	200,131	5,441	149,310	142,095	2,268	58,036	58,036	3,153

¹See table 10 for the number of establishments reporting production by State.

Table 5.—SHIPMENTS OF ARGON (HIGH PURITY) BY GEOGRAPHIC AREA: 1975

Geographic area	Total shipments including interplant transfers	
	Quantity (mil. cu. ft.)	Value (\$1,000)
UNITED STATES, TOTAL ¹	4,457	65,129
Northeast Region.....	828	11,822
East North Central Division.....	1,668	21,352
Ohio.....	595	7,759
South Atlantic Division.....	540	10,107
East South Central Division.....	184	3,634
West South Central Division.....	499	7,802
West Region.....	738	10,412
California.....	500	6,548

¹See table 10 for the number of establishments reporting production by State.

B. TABLES ILLUSTRATING TYPES OF DATA PRESENTED—Continued

3. Annual—Continued

Steel Mill Products (MA-33B)

Table 4.--RECEIPTS, CONSUMPTION, AND SHIPMENTS OF STEEL MILL PRODUCTS: 1975

Product code	Grade and product	Receipts ¹ (short tons)	Steel consumed in producing plants for (1) fabricated products; or, (2) maintenance, repair and operating supplies (short tons)	Shipments ¹					
				Total		To other companies		Transfers to other plants of the same company	
				Quantity (short tons)	Value f.o.b. plant (\$1,000)	Quantity (short tons)	Value f.o.b. plant (\$1,000)	Quantity (short tons)	Value f.o.b. plant (\$1,000)
CARBON STEEL:									
3312211	Ingots.....	855,942	181,043	1,873,289	316,401	149,681	21,458	1,723,608	294,943
SEMIFINISHED PRODUCTS:									
3312213	Blooms, billets, slabs, sheet bars, tin mill bars, tube rounds, and skelp.....	7,651,688	472,226	7,976,832	1,730,401	1,501,494	355,291	6,475,338	1,375,110
3312219	Wire rods.....	1,310,886	64,369	1,956,231	537,709	1,510,404	413,013	445,827	124,696
FINISHED PRODUCTS:									
PLATES:									
3312411	Floor Plates.....	16,699	14,194	169,185	51,099	169,185	51,099	(²)	(²)
3312413	Plates, other than floor plates.....	222,022	182,502	7,224,218	2,045,610	6,260,421	1,842,341	963,797	203,269
SHEETS:									
3312311	Hot rolled (including enameling sheets).....	6,111,162	187,090	16,802,634	3,579,006	12,469,870	2,745,832	4,332,764	833,174
3316711	Cold rolled.....	1,558,082	177,293	13,229,735	3,540,781	11,693,395	3,137,582	1,536,340	403,199
SHEETS AND STRIP:									
GALVANIZED:									
3312313	Hot-Dipped.....	88,176	85,343	3,839,561	1,348,337	3,550,822	1,241,557	288,739	106,780
3312315	Electrolytic.....	16,703	5,767	173,225	61,699	173,225	61,699	(²)	(²)
3312317	All other metallic coated (including long ternes).....	(D)	(D)	561,961	186,547	561,961	186,547	(²)	(²)
3312318	Electrical.....	(D)	(D)	561,961	186,547	561,961	186,547	(²)	(²)
STRIP:									
3312319	Hot rolled.....	1,037,055	128,217	1,048,781	296,038	899,936	254,478	148,845	41,560
3316715	Cold rolled.....	202,788	32,872	761,420	209,749	552,749	294,394	168,680	40,065

Chapter VIII. Energy-Related Industrial Statistics

In the canvass of the quinquennial economic censuses, intercensal surveys, and special surveys and special tabulations requests, the Bureau collects and has information available related to energy and is currently involved in developing several new programs in this area. Highlights of the Bureau programs are summarized in section A, and a detailed description of the data collected is provided in section B.

To put into proper perspective the description of industrial energy-related data compiled by the Census Bureau, brief reference should be made to general areas of information needed in respect to energy problems that are not characteristically compiled by the Census Bureau. Historically, the Bureau has not engaged in regular data collection on subjects such as prices or profits which are covered by other administrative or regulatory agencies, or for which technical or engineering knowledge is required such as in determining oil and other mineral reserves.

A. HIGHLIGHTS OF BUREAU PROGRAMS

1. The Census of Manufactures provides information on petroleum refining and related industries. In addition to general statistics, detailed information on quantity and value of products and materials consumed is provided. Many of the 450 industries include data on consumption of petroleum products or derivatives of petroleum products as raw materials consumed in the manufacturing process.
2. The Census of Mineral Industries, published at regular intervals since 1840, provides detailed information on coal mining and oil and gas operations including expenditures and drilling statistics. The latest census, for 1972, includes data on number of wells operated, by geographic area; drilling statistics for oil, gas and gas condensate, dry and service wells as reported by operators; and drilling statistics for exploratory and developmental wells as reported by operators, by type of well, geographic area, and depth range.
3. An Annual Survey of Oil and Gas provides estimates of expenditures separately for the exploration and development of crude petroleum and of natural gas. Originally requested by the Senate Commerce Committee in 1972, in order to determine the impact of the natural gas price ceiling on natural gas exploration and development, these data are now provided annually.
4. The Annual Survey of Manufactures provides selected information on petroleum and related industries as well as cost of purchased fuels and electric energy used by industry groups.
5. A special report on fuels and electric energy containing information on fuels consumed in 1971, by type of fuel, by

consuming industry and by geographic area was published as part of the 1972 Census of Manufactures. These data are now provided annually starting with the year 1974.

6. The Current Industrial Reports program includes a biennial survey on sales of lubricating and industrial oils and greases and an annual survey on asphalt and tar roofing and sliding products. Other monthly, quarterly, and annual surveys in this series provide information related to energy consumption (i.e., plastics products, supply and distribution of synthetic rubber, and synthetic fibers).

B. ENERGY-RELATED INDUSTRIAL STATISTICS COLLECTED BY THE BUREAU ON MANUFACTURING AND MINING

Five-Year Economic Censuses.

General economic statistical program covering all of the individual industries in manufacturing, mining, retail, wholesale, selected services, and construction.

- Consumption of electricity in manufacturing and mining.
- Consumption of fuels (quantity and cost) for heat and power in manufacturing (1971) and mining (1972).
- Consumption or use of fuels (quantity and cost) in the industrial process.
 - Crude oil in refineries (SIC 2911)
 - Fuel products (benzoin, propane, etc.) used by major consuming industries
- Shipments (quantity and value) of specific products of mineral industries and manufacturing
 - Coal
 - Crude oil
 - Refined petroleum products (gasoline, kerosene, etc.)
 - Petroleum-based chemical products
- Development and exploration expenditures in mining for petroleum and natural gas industry
- Special types of data (crude petroleum and natural gas industries only)
 - Royalty payments (collected in kind)
 - Disposition of natural gas production
 - Number of wells operated
 - Lease tanks and stocks

- Drilling statistics
 - Number of wells drilled by type, (oil, gas, dry, service) and depth range
 - Depth of wells drilled (by types and depth ranges)
 - Costs of wells drilled (by types and depth ranges)
 - Sources of funds for drilling
- Special sample survey data on a net working interest basis covering exploration expenditures and assets.

Annual Survey of Manufactures

General economic information for all industries and for industry groups by area including refining (SIC 2911) and major chemical industries producing processed fuel products.

- Shipments (value only) classes of products, e.g.:
 - Gasoline
 - Jet fuel
 - Kerosene
 - Distillate fuel oil
 - Liquefied oil and greases
 - Asphalt
 - Asphalt felts and coatings
 - Tires and inner tubes
 - Industrial gas, etc.
- Cost of fuels used by industry
- Quantity and cost of electric energy used by industry
- Consumption of fuels (quantity and cost) for heat and power in manufactures

Annual Oil and Gas Survey

A survey of the domestic crude petroleum and natural gas extraction industry. Statistics are cross-classified by type of producing property (oil, gas, or combination) and by degree of owner operation. Separate statistics are provided for offshore areas and Alaska.

- Expenditures
 - Exploration
 - Development
 - Production

- Revenues
- Sales volumes
- Assets

Energy Related-Current Industrial Reports

Products or by-products of the petroleum industry as reported in the following:

Annual Current Industrial Reports

- MA-29C (biennial) Sales of Lubricating and Industrial Oils and Greases
- MA-30D Shipments of Selected Plastics Products
- MA-33L Insulated Wire and Cable
- MA-22F Textured and Spun Yarn Production
- MA-34N Selected Heating Equipment
- MA-22G Narrow Fabrics
- MA-35M Air-Conditioning and Refrigeration Equipment
- MA-36A Switchgear, Switchboard Apparatus, Relays, and Industrial Controls
- MA-36E Electric Housewares and Fans
- MA-36F Major Household Appliances
- MA-36L Electric Lighting Fixtures
- MA-29A Asphalt and Tar Roofing and Siding Products
- MA-36N Selected Electronic and Associated Products
- MA-30E Plastic Bottles

Quarterly Current Industrial Reports

- MQ-22T Textile Fabrics
- MQ-26F Converted Flexible Packaging Products
- MQ-22K Production of Knit Cloth
- MQ-22Q Carpet and Rugs

Monthly Current Industrial Reports

- M28A Inorganic Chemicals
- M28B Inorganic Fertilizer Materials and Related Acids
- M28F Paint, Varnish, and Lacquer
- M30A Rubber: Supply and Distribution for the United States
- M22A Woven Fabrics: Production, Inventories, and Unfilled Orders
- M22P Cotton Manmade Fiber Staple, and Linters
- M30F Shipments of Thermoplastics, Pipe, Tube and Fittings

Chapter IX. Publications Program for the 1972 Economic Censuses

The 1972 Economic Censuses provides statistics on the economic activity of almost every segment of American business and industry. The table lists the major data items collected for

the individual censuses within the economic censuses program. For more details regarding contents of final reports, see Mini-Guide to the 1972 Economic Censuses.

Major Data Items Collected in the Economic Censuses

Item	Economic Censuses					
	Mineral Industries	Manu- facturing	Wholesale Trade	Retail Trade	Selected Services	Construc- tion
Number of employees						
Production (Construction) workers- quarterly.....	X	X				X
All other employees.....	X	X				X
Total.....	X	X	X	X	X	X
Payrolls						
Production (Construction) workers wages.....	X	X				X
All other employees.....	X	X				X
Total.....	X	X	X	X	X	X
Operating expenses including payroll...			X			
Supplemental labor costs						
Legally required.....	X	X	¹ X	¹ X	¹ X	
Voluntary programs.....	X	X	¹ X	¹ X	¹ X	
Total.....	X	X	¹ X	¹ X	¹ X	
Production worker man-hours quarterly..	X	X				
Cost of materials, etc.						
Materials, supplies, etc.....	X	X	¹ X			X
Specific materials.....	X	X				
Products bought and resold.....	X	X	¹ X			
Fuels consumed.....	X	X	¹ X			
Specific fuels consumed.....	X					
Purchased electricity.....	X	X				
Contract work.....	X	X				X
Total.....	X	X				X
Inventories						
By state of fabrication.....		X				
Total.....		X	X			
Capital expenditures						
New structures and additions.....	X	X	¹ X	¹ X	¹ X	X
New machinery and equipment.....	X	X	¹ X	¹ X	¹ X	X
Used plant and equipment.....	X	X	¹ X	¹ X	¹ X	² X
Mineral development and exploration..	X					
Total.....	X	X	¹ X	¹ X	¹ X	X
Quantity of electricity						
Purchased.....	X	X				
Generated.....	X	X				
Electricity sold.....	X	X				

See footnotes at end of table.

Major Data Items Collected in the Economic Censuses—Continued

Item	Economic Censuses					
	Mineral Industries	Manu- facturing	Wholesale Trade	Retail Trade	Selected Services	Construc- tion
Gross value, fixed assets						
Buildings and other structures.....	X	X				X
Machinery and equipment.....	X	X				X
Mineral properties.....	X					
Total.....	X	X	¹ X	¹ X	¹ X	X
Total sales (receipts).....			X	X	X	X
Merchandise (commodity) lines.....			X	X		
Value of shipments or products.....	X	X				
Specific products.....	X	X				X
Legal form of organization.....	X	X	X	X	X	X
Water use.....	X	X				
Rental payments, total.....		X	¹ X	¹ X	¹ X	
Building and structures.....		X	¹ X	¹ X	¹ X	
Machinery and equipment.....		X	¹ X	¹ X	¹ X	X

¹Data collected on a sample basis only. Totals will be available only at the U.S. level. For the census of wholesale trade, sample includes merchant wholesalers only.

²Used plant and equipment collected separately.

A. CENSUS OF MANUFACTURES

A general description of the data collected and the publications issued for the census of manufactures is provided in section A of chapter I. A guide for locating specific data items in the census of manufactures is provided in chapter IV. Information on the data available on computer data tapes from the census of manufactures is provided in section B of chapter X.

B. CENSUS OF MINERAL INDUSTRIES

A general description of the data collected and the publication issued for the census of mineral industries is provided in section B of chapter I. A guide to locating specific data items in the census of mineral industries is provided in chapter V. Information on the data available on computer data tapes from the census of mineral industries is provided in section B of chapter X.

C. CENSUS OF RETAIL TRADE

The 1972 Census of Retail Trade, conducted by the Bureau of the Census during 1973 as part of the economic censuses was an enumeration of retail establishments in the United States. The first census, which covered the year 1929, was part of the census of business (which included also wholesale trade in its scope). Beginning with the second business census, for 1933, various service trades were also included. With the 1972 Economic Censuses, however, each segment—retail trade, wholesale trade, and selected service industries—is considered a separate census. The 1972 census was the 10th census of retail trade of the United States.

Two basic sources were used to obtain the data for the census of retail trade. Questionnaires were mailed, as a general rule, to firms with four or more paid employees and to a sample of smaller employer firms. The mail portion of the census utilized 21 different retail trade questionnaires to allow for the many types of businesses covered. Administrative records (Internal Revenue Service (IRS) and Social Security Administration (SSA)) were used by the Census Bureau to obtain information from the more than 1 million remaining smaller firms, including all retail businesses without employees.

Data from the retail trade census are provided for about 100 kind-of-business classifications within the major groups listed below, entailing basically those establishments selling merchandise to the general public for personal or household consumption, and rendering services incidental to the sale of goods.

Data on the following subjects were published in retail trade census reports:

kind of business (includes the following major groups):

- building materials, hardware, and garden supply and mobile home dealers
- general merchandise group stores
- food stores
- automotive dealers
- gasoline service stations
- apparel and accessory stores
- furniture, home furnishings, and equipment stores
- eating and drinking places
- drug stores and proprietary stores
- miscellaneous retail stores

number of establishments
 sales
 payroll
 number of proprietorships and partnerships
 employment
 legal form of organization
 size of establishment
 size of firm
 city size
 sales by merchandise lines

Final Reports

The 1972 Census of Retail Trade final publication program consisted of the following reports:

Area Series-52 reports (RC72-A-1 to 52);
 Subject Series-3 reports (RC72-S-1 to 3);
 Retail Merchandise Line Sales Series-52 reports (RC72-L-1 to 52);
 Major Retail Center Statistics Series-49 reports (RC72-C-1 to 49).

Volumes

Findings of the 1972 Census of Retail Trade, released earlier in separate paperbound final reports, were assembled and reissued in clothbound volumes.

Data on Computer Tapes

Concurrent with the publication of the volumes, selected aggregate data included in the final reports were made available on computer tapes.

D. CENSUS OF WHOLESALE TRADE

The 1972 Census of Wholesale Trade, conducted by the Bureau of the Census during 1973 as part of the economic censuses, was an enumeration of wholesale trade establishments in the United States with employees. The census of wholesale trade was part of the original census of business taken in 1929. In the past, it was included with retail trade and selected services under the umbrella title "census of business," but as of 1972 it takes a separate place as one of the seven economic censuses. This was the 10th census of wholesale trade of the United States.

Over 300,000 firms—all those having paid employees—were covered in the census of wholesale trade. (As in the past, wholesale firms without employees are not statistically significant and were, therefore, excluded from the scope of the census.) Twenty-five different wholesale trade questionnaires were used, reflecting the variety of business involved.

Data on wholesale trade were presented for 118 kind-of-business classifications. These include establishments primarily engaged in selling merchandise to retailers; to industrial, commercial, institutional, farm, or professional business users; or to other wholesalers. Also included are establishments acting as agents or brokers in either buying merchandise for or selling merchandise to such clients or customers. Data were generally

shown separately for the three major types of wholesale operation: merchant wholesalers, manufacturers' sales branches and sales offices, and merchandise agents and brokers.

Wholesale trade census reports contain information on the following subjects:

kind of business (includes the following major groups):

 durable goods:

 motor vehicles and automotive parts and supplies
 furniture and home furnishings
 lumber and other construction materials
 sporting, recreational, toys, hobby goods and supplies
 metals and minerals
 electrical goods
 hardware, plumbing, heating equipment and supplies
 machinery equipment and supplies
 miscellaneous durable goods wholesalers

 nondurable goods:

 paper and its products
 drugs, drug proprietaries and druggists' sundries
 apparel, piece goods, notions
 groceries and related products
 farm products—raw materials
 chemicals and allied products
 petroleum and petroleum products
 beer, wine and distilled alcoholic beverages
 miscellaneous nondurable goods wholesalers

number of establishments

sales
 payroll
 employment
 operating expenses
 end-of-year inventories
 size of establishments
 size of firm
 city size
 legal form of organization
 type of operation:
 merchant wholesalers
 manufacturers' sales branches and sales offices
 merchandise agents and brokers

sales of merchant wholesalers and agents and brokers by 555 different commodity lines (such as automotive tires and tubes, yard or piece goods, frozen foods, hardware, office machines and equipment, etc.)

sales of manufacturers, sales branches and sales offices by 610 different product lines (such as poultry feeds, bottled liquors, cigarettes, cotton sheets and pillow cases, envelopes, books, etc.)

Final Reports

The 1972 Census of Wholesale Trade final publication program consisted of the following reports:

Area Series-52 reports (WC72-A-1 to 52);
 Subject Series-4 reports (WC72-S-1 to 4);
 Wholesale Commodity Line Sales-1 report (WC72-L-1).

Volumes

Findings of the 1972 Census of Wholesale Trade, released earlier in separate paperbound final reports, were assembled and reissued in clothbound volumes.

Data on Computer Tapes

Concurrent with the publication of the volumes, selected aggregate data included in the final reports were made available on computer tapes.

E. CENSUS OF SELECTED SERVICE INDUSTRIES

The 1972 Census of Selected Service Industries, conducted by the Bureau of the Census during 1973 as part of the economic censuses, was an enumeration of selected service establishments in the United States.

The first census covered the year 1933. Censuses of selected service industries were also taken for 1935 and 1939 and, after a wartime interruption, resumed with the 1948 census. Since that time, the census has been conducted approximately every 5 years as part of the census of business. In 1972 the census of selected service industries—like the censuses of retail trade and wholesale trade—became one of the separate economic censuses. The 1972 census was the ninth census of selected service industries of the United States.

Questionnaires for the selected service industries census were generally sent to firms with four or more employees. For some kinds of business, reports were mailed to all firms in order to obtain reliable data on special inquiries applicable only to those classifications. For most small firms, however, the Census Bureau obtained information from administrative records (Internal Revenue Service and Social Security Administration).

In addition to a wide variety of personal and business services, this census covers hotels, motels, trailering parks, and camps; automotive services; miscellaneous repair services; amusement and recreation services, including the motion picture industry, dental laboratories; legal services; and architectural, engineering, and land-surveying services. Special reports (see Subject Reports below) will also present census data on truck and bus carriers not subject to Interstate Commerce Commission regulations; public warehousing; and travel agencies; tour operations and related services. (Data are not included for medical and other health services, educational services, non-commercial museums and art galleries, nonprofit membership organizations, religious organizations, social services, accounting auditing and bookkeeping services; noncommercial educational scientific and research, rooms and boarding houses and private household services.)

Data for more than 150 kinds of business were presented in reports from the census. Information in the census reports includes:

kind of business (includes the following major groups):

- hotels, motels, trailering parks, and camps
- personal services
- business services
- automotive repair, services, garages
- miscellaneous repair services
- amusement and recreation services, including motion pictures

- kind of business--Continued
- dental laboratories
- legal services
- architectural, engineering and land-surveying services
- number of establishments
- receipts
- payroll
- employment
- number of proprietorships and partnerships
- legal form of organization
- size of establishment
- size of firm
- analysis of receipts (for selected kinds of business)

Final Reports

The 1972 Census of Selected Service Industries final publication program consisted of the following reports:

Area Series-52 reports (SC72-A-1 to 52);
Subject Series-8 reports (SC72-S-1 to 8).

Volumes

Findings of the 1972 Census of Selected Service Industries, released earlier in separate paperbound final reports, were assembled and reissued in clothbound volumes.

Data on Computer Tapes

Concurrent with the publication of the volumes, selected aggregate data included in the final reports were made available on computer tapes.

F. CENSUS OF CONSTRUCTION INDUSTRIES

The 1972 Census of Construction Industries, conducted by the Bureau of the Census during 1973 as part of the economic censuses, is an enumeration of construction establishments in the United States operating as general contractors and operative builders, special trade contractors, or land subdividers and developers. Census data for the construction industry were collected for 1929, 1935, and 1939, and published as part of the business censuses reports. Data were not collected again until 1967 when the census of construction industries became an individual segment of the integrated economic censuses.

Construction represents one of the most important segments of the Nation's economy—considering the fact that the value of all new construction put in place during 1972 has been estimated at more than \$123 billion. There are approximately 800,000 construction firms in the United States, and almost half of these have paid employees. The 1972 estimates for establishments with payroll in all of the construction industries are based on reports from a probability sample of about 135,000 construction establishments. The sample included all large and medium size construction establishments (10 employees or more) and a sample of small construction establishments (1 to 9 employees). These firms include general contractors, special trade contractors, subdividers and developers, operative or

merchant builders, and all types of subcontractors. In addition, limited data for the 400,000 construction firms without paid employees were obtained from administrative records of the Federal government.

Census data for the construction industry covers 27 4-digit SIC industry codes, and related industry groups, based on the 1972 revised edition of the *Standard Industrial Classification Manual*. (This revision effected a number of changes in the construction industry classifications including expansion from 23 industries for the 1967 census to 27 in 1972.)

Information on these subjects was collected in the 1972 census:

- number of employees
- payrolls
- selected payments for:
 - materials, components, and supplies
 - work subcontracted to others
- payments for renting or leasing machinery and equipment
- capital expenditures (excluding land)
- receipts during year 1972:
 - total receipts
 - construction receipts
 - receipts from land
 - other business receipts
- fixed assets and depreciation
- breakout of construction receipts by:
 - type of construction (building, nonbuilding, other)
 - location of construction work (home State or in other States)
 - ownership of construction projects (public or private)
 - class of construction (new or maintenance and repair work)
 - work done for other construction contractors or builders

Final Reports

The 1972 Census of Construction Industries final publication program consisted of the following reports:

- Industry Series-28 reports (CC72-1-1 to 28);
- Area Series-10 reports (CC72-A-1 to 10);
- Special Report Series-1 report (CC72-S-1).

Volumes

Findings of the 1972 Census of the Construction Industries, released earlier in separate paperbound final reports, were assembled and reissued in clothbound volumes.

Data on Computer Tapes

Concurrent with the publication of the volumes, selected aggregate data included in the final reports were made available on computer tapes.

G. CENSUS OF TRANSPORTATION

The census of transportation, first taken in 1963, consists of three independent surveys rather than a single project and the time frame for each survey is different. Each survey gathers information about a particular area of transportation which is not thoroughly covered in the statistics collected by other federal or private agencies. Thus the primary objective of the census of transportation is to narrow the major gaps of statistical knowledge in the transportation field.

Truck Inventory and Use Survey—From a universe of almost 20 million registered trucks in 1972, the Truck Inventory and Use Survey collects data on the physical characteristics and operational use of the Nation's private and commercial trucks. The probability sample contains 114,000 registered or licensed trucks which are not owned by the Federal, State, and local government agencies.

Information on the following subjects was collected from the 1972 Truck Inventory and Use Survey and data is available by number of trucks and truck miles:

- major use of vehicle
- annual and lifetime vehicle miles
- year model
- body type
- vehicle size class
- single unit or combination and axle arrangement
- type of fuel
- range of operation
- acquisition
- cab type
- truck fleet size
- maintenance

National Travel Survey—Travel is one of the major income-producing activities in the United States. In fact, travel-related services in some areas outrank all other classes of activity with respect to the generation of income and employment. The National Travel Survey provides profiles of the volume and characteristics of nonlocal travel (at least 100 miles away from home) from a sample of 24,000 civilian households in the United States.

Information on the following subjects was collected from the 1972 National Travel Survey:

- means of transport
- purpose of trip
- weekend and vacation travel
- regional travel
- travel to and through selected States
- number of households taking trips, persons taking trips, number of trips taken, person-trips, person-miles, person-nights, overnight accommodations used, and
- characteristics of traveler, household, and trip

Commodity Transportation Survey—This survey is the largest of the three in the 1972 Census of Transportation and was the last one completed. The Commodity Transportation Survey pro-

vides statistics on the volume and characteristics of intercity commodity shipments originated by manufacturers for the year 1972. The Survey includes manufacturing establishments (or manufacturers) in the contiguous States and the District of Columbia. A probability sample of about 13,000 plants representing manufacturing establishments with 20 or more employees provides geographic information on the flow of commodities from supply areas to markets or redistribution points. A sample of plants with 10 to 19 employees and a sample of plants in selected printing and publishing SIC classifications were also drawn to collect information on distribution of their shipments. SIC codes are used to identify the manufacturing establishments by type of activity in which they are engaged and to classify these manufacturers into 86 shipper classes. The Transportation Commodity Classification (TCC) codes are used to identify shipments of commodities by type of product. The use of TCC codes for identifying products distinguishes the census of transportation from the other economic censuses which only use the SIC codes.

Information on the following subjects was collected from the 1972 Commodity Transportation Survey:

- tons, ton-miles
- means of transport
- length of haul
- commodity
- weight of shipment
- origin and destination areas

Final Reports

The 1972 Census of Transportation final publication program consisted of the following reports:

- National Travel Survey-3 reports (TC72-N1 to N3);
- Truck Inventory and Use Survey-52 reports (TC72-T1 to T52);
- Commodity Transportation Survey-25 reports (TC72C1-1 to 14; TC72C2-1 to 8; TC72C3-1 to 3).

Volumes

Findings of the 1972 Census of Transportation, released earlier in separate paperbound final reports for each survey, were assembled and reissued in clothbound volumes.

Data on Computer Tapes

When the final reports for each survey in the 1972 Census of Transportation were issued, public use computer tapes were made available for purchase from the Bureau.

H. CENSUSES OF THE OUTLYING AREAS

Almost all of the 1972 economic censuses conducted by the Bureau of the Census canvass the three outlying areas of the Commonwealth of Puerto Rico, the Virgin Islands of the United States, and Guam. The Puerto Rican economic censuses, the most detailed of the three, are conducted with census report forms printed in English or Spanish.

Puerto Rico—Censuses of retail and wholesale trade, selected services, manufactures, and construction industries were conducted in the 1972 Economic Censuses for Puerto Rico.

For the censuses of retail and wholesale trade, and selected services, which have been conducted in the Commonwealth since 1939, both mail questionnaires and personal interviews were used to collect the 1972 data. The results of these censuses were published in two reports. Canvassing Puerto Rico's manufacturers, a regular activity since 1909, has occurred more frequently in the last several decades with the rapid development of manufacturing in Puerto Rico. One report on the census of manufactures for Puerto Rico was issued. The census of construction industries was added to the Puerto Rico economic censuses program in 1967 and again in 1972. One report was issued for this census.

Virgin Islands—Censuses of retail and wholesale trade, selected services, construction industries, and manufactures were conducted for the Virgin Islands. Results of these censuses were issued in one report. In addition to data for the Virgin Islands as a whole, data will be presented for St. Thomas and St. John islands (combined to prevent further disclosure problems), St. Croix island, and the three major cities.

Guam—Censuses of retail and wholesale trade, selected services, construction industries and manufactures were conducted for Guam. One report covers the censuses which contain data arranged in a manner similar to the Virgin Islands report. Tables present data for Guam and for each of the 10 cities or villages of Guam.

Final Reports

Puerto Rico—(4 reports): 1972 Censuses of Retail Trade, Wholesale Trade, and Selected Service Industries Area Report (OAC72-1); 1972 Censuses of Retail Trade, Wholesale Trade, and Selected Services Industries Subject Report (OAC72-2); 1972 Census of Construction Industries (OAC72-3); 1972 Census of Manufactures (OAC72-4).

Virgin Islands—(1 report): 1972 Censuses of Retail Trade, Wholesale Trade, Selected Service Industries, Construction Industries, and Manufacturing Industries (OAC72-5).

Guam—(1 report): 1972 Censuses of Retail Trade, Wholesale Trade, Selected Service Industries, Construction Industries, and Manufacturing Industries (OAC72-6).

I. ENTERPRISE STATISTICS PROGRAM

The enterprise statistics program is a statistical byproduct of the Census Bureau's regular economic censuses program. This program involves the regrouping of census data records of establishments under common ownership or control in order to show various economic characteristics of the owning or controlling firms. The Bureau has planned and implemented an enterprise statistics program in conjunction with each of the economic censuses since 1954.

Enterprise statistics are the last data to be published in the economic censuses program since the corrected final data become available only after all the economic censuses are complete. Statistics for the enterprise-establishment relation-

ships are tabulated by type of company organization, by company size, and by industry classification, as well as by cross tabulations which indicate company industrial diversification patterns. One special group of establishments, central administrative offices and auxiliaries, are examined in detail in a separate publication.

Final Reports

The 1972 enterprise statistics publication program were published in three final paper-back reports only:

General Report on Industrial Organization (ES72-1);
Central Administrative Offices and Auxiliaries (ES72-2)
Link of Census Establishments and IRS Corporation Data (ES72-3).

Chapter X. Information on Obtaining Census Bureau Data

The Bureau of the Census Catalog includes a comprehensive listing of Census Bureau data products grouped according to major subject. It is a quarterly publication with 12 monthly supplements and an annual issue. The catalog contains descriptions of all the reports issued and other material that became available during the period covered. The *Bureau of the Census Catalog* is divided into two parts: I, Publications, and II, Data Files and Special Tabulations. Part II presents more information than can be given in this guide on various types of data files, selected special tabulations, convertibility of magnetic tapes for use on other computers, and the policy governing special services. The catalog may be purchased from the Government Printing Office.

A. SPECIAL SERVICES

The special tabulations described below have been prepared for individual users; they illustrate some of the ways that the Bureau's data files can be used. Special tabulations can be furnished on tape or punchcards, or as computer printout, typewritten copy, or hand posted tables. Copies of special tabulated information prepared only on tape or punchcards are not generally available. To obtain a duplicate of another buyer's machine-readable tabulated data, a new tape or set of punchcards must usually be made. However, if the tabulations were furnished as tables, photocopies are generally available at a nominal fee which covers the cost of copying and appropriate overhead charges. Many of the tabulations are available on microfilm, and either reels of microfilm or enlarged prints can be supplied. More information on obtaining special tabulations is given below.

Requests for estimates of the cost of preparing a special tabulation should specify the geographic areas required and precisely what subjects are desired, and should include a brief description of the project for which the tabulation will be used. If a tabulation is to be furnished on tape, the request should include a description of the characteristics required of the tape (density, parity, language, etc.).

Priority of work—Within the frame of reference outlined in this statement, priority in accepting or scheduling reimbursable work or services will be given to work of urgency for national defense or other matters of national interest, work for other Federal agencies, and work for State and local governments. Other work will be given priority in the order in which it is accepted. It may be necessary because of the pressures of higher priority work to reject projects that would otherwise be acceptable.

1. Special Tabulations or Transcriptions of Data

Special tabulations or transcriptions of data in the files of the Bureau of the Census will be undertaken on a cost basis, insofar as Bureau facilities are available. Those requesting special tabulations should understand that the data are based on surveys paid for by public funds and are, therefore, public property. The purpose for which such tabulations are obtained must not be contrary to the public interest nor be used to give unfair commercial or other advantage to any person or group.

All unpublished data furnished by the Bureau will be accompanied, so far as feasible, by appropriate statements relative to the limitations of the data. When the condition of the data warrants it, the Bureau may specify that the material is for the information of the purchaser only and may not be published or that any proposed publication of such material must be approved by the Bureau before publication.

Special tabulations paid for by nongovernmental groups will be undertaken with the understanding that—

- a. The material may be published subsequently by the Bureau and made generally available with or without charge or at cost of publication if the Bureau regards the material to be of general interest. If such action is taken within the time period provided in the agreement, or within 6 months if no time period is provided in the agreement, the Bureau will notify all purchasers of its decision to publish the tabulation.
- b. If not published, it may be made available to other government agencies or to appropriate nonprofit research groups without charge or at cost of duplication.
- c. A request by other than a government agency for a tabulation already prepared for another buyer will generally be handled in the following manner, if the information has not already been published by the Bureau:

(1) If a job has not been completed, the costs will be appropriately divided and results will be furnished to both parties.

(2) When, within the time period provided in the original agreement, information furnished to commercial groups or private individuals is requested by other commercial groups or individuals, the subsequent party or parties will be charged not less than the amount paid by the first party obtaining the information. Specified time periods will generally not exceed 18 months. If no time period is provided in the agreement, this provision will apply for 6 months from the date of delivery to the initial purchaser. If the cost to the Bureau for furnishing the information to the subsequent party is significantly less than that charged for the original information and the information is furnished within the agreed-upon time period referenced

to above, the total cost will be prorated among the various parties in an equitable manner as determined by the Bureau and refunds made as necessary, provided that the amount for refunds exceeds 10 percent of the cost of the original job or \$25, whichever is larger. After the specified period, subsequent requests for the same tabulation will be filled at only the additional cost, if any, to the Bureau and no refunds to prior purchasers will be considered.

(3) If, for any reason, the Bureau feels that the purchaser of a special tabulation is making unfair or improper use of the information furnished, such action as is deemed appropriate may be taken to protect the public interest.

When special tabulations of industrial data which are of general interest are completed, their titles are listed in the Census Bureau publication, *Bureau of the Census Catalog*. Listed, below, are examples of some recent special tabulations prepared:

a. Consumption of fuels for heat and power in manufacturing. This tabulation presents quantity and value data for specific types of fuels by State and selected SMSA's.

b. Energy-related research and development funds for the top ten manufacturing industries. The data were further subdivided into: (1) company-sponsored funds, and (2) federally-sponsored funds.

c. Consumption of polyethylene and polypropylene for 1972.

d. Automotive diesel engines tabulated by horse-power rating. For each rating, data are shown for number of engines and total horsepower of rating category. Also provided are quantity and value of shipments by horsepower rating.

e. Ratio of advertising to total value of shipments for a random list of firms of selected food manufacturing industries. The advertising data were provided by the requester of the special tabulation.

f. Crude petroleum and natural gas industry's value of shipments data tabulated by companies in the following categories: (1) drilling wells; (2) do not drill; and (3) information on drilling not available. The companies in each category were ranked by total value of shipments in descending order and group as follows: (1) groups of 4 for first 100 companies; (2) groups of 25 for next 900 companies; and (3) groups of 100 for remaining companies.

2. Special Surveys for Original Data

The Bureau will undertake projects that involve original collection of data on a reimbursable basis when the following conditions are presented:

a. It has been determined by the Bureau of the Census that there is a public interest in the survey results. Before being undertaken by the Bureau of the Census, the survey must also be approved by the Office of Management and Budget in accordance with the Federal Reports Act.

b. Understanding has been reached between the customer and the Bureau of the Census, with respect to plans for publication or other uses of the data, to maintain appropriate standards of accuracy and quality and to include qualifications or credits to assure protection of the Bureau of the Census and the public interest.

c. Understanding has been reached between the customer and the Bureau of the Census with respect to the confidential nature of the information furnished by respondents. The individual returns from such surveys must remain the property of the Bureau of the Census. Special tabulations may be made available to public or private groups from such returns under the same conditions as from regular Bureau records. The data collected will be subject to the same confidential treatment with respect to individual returns as is true in the case of similar Bureau surveys; that is, no information will be released which might disclose the activities or the identity of any persons or organizations without their specific written approval. The only exception occurs when the Bureau serves as a collecting agency for another government agency (Federal, State, or local), in which case the confidential character of the data and publication rights are determined by the conditions under which they are collected.

B. INDUSTRIAL DATA ON COMPUTER TAPES

1. General

Many economic data users will be able to find the information they need in the Bureau's printed reports. But if frequent and extensive use is planned, computer tapes may be the best approach because of the speed and relative convenience of machine processing. Also, in the case of the census of transportation tapes, much more data are available on tapes than are published. Thus, some users may find the tapes essential to meet their data requirements.

The Bureau maintains data files in the form of computer tapes, punchcards, and completed questionnaires. The Bureau uses the data files to develop computer tapes which do not contain identifying information for any individual, household, or firm. Tapes made available for purchase from the Bureau are called public use tapes. Most of these public use tapes are summary tapes, i.e., they contain exactly the same statistics that will be found in the published reports of the economic censuses. These tapes are available for users who wish to summarize the data further, rearrange the published data, or process large amounts of data. More detailed public use tapes are available for each of the surveys taken as part of the census of transportation. The transportation tapes contain all the statistical data collected in the sample surveys with only identifying information omitted.

Computer tapes from the economic censuses, along with corresponding technical documentation may be purchased by writing to the Chief, Data User Services Division, Bureau of the Census, Washington, D.C. 20233.

2. 1972 Censuses of Manufactures and Mineral Industries

The public-use summary tape program for the censuses of manufactures and mineral industries features two types of files: (a) those containing subsets of the data published in regular census reports, and (b) a Location of Manufacturing Plants file which contains data not available in print.

a. Tapes of "published" data.—This is the first time a significant subset of published data is being made available on public use summary tapes. These files should be especially valuable to users wanting to manipulate published data (e.g., to generate rankings, composite indexes, inter-area comparisons, etc.). These are not "microdata" tapes with records for individual firms, but contain only aggregated data "summaries" subjected to the same restrictions on disclosure as are embodied in printed reports.

b. Contents.—While most of the data published in the area and industry series are on the tapes, there are significant omissions, primarily of data compiled "by hand" and not computer generated. No data for years other than 1972 will appear. Tables on products, energy and water consumption are not included.

Tapes include tables of "general statistics" by industry for the U.S., regions, division, States, SMSA's, counties, and selected cities where applicable; "detailed statistics" by industry and also by State; general statistics by employment size of establishment by industry; and detailed materials consumed by manufacturing industries. Specific tables include:

(1) Manufactures area series tables 3-8, industry series tables 3, 4, and 7A (one tape).

(2) Mineral Industries area series tables 2A and 4-6, industry series tables 3 and 4 (one tape).

Data from mineral industries table 2A and manufactures industry series table 2 are not included since the same data are adapted from area series tables merely in a different sequence.

Two single-tape files are available: One for manufactures, the other for mineral industries. Both contain data for all areas and all industries within the scope of that census. For ease of processing, the tapes are subdivided into "files" by tape marks and labels, such that each file contains records of only one format. Most records correspond to a single line in a published report, identified by appropriate SIC codes and area codes but with textual industry descriptions and alphabetic area names omitted. Special geographic and industry reference files are separately available to provide alphabetic area and industry names along with the numeric code representation used on the tapes. All data have been reduced to simple integer form, with scaling (by tenths or tenths of millions) specified in the documentation. Alphabetic symbols used in the reports to indicate disclosure, not available, or other special conditions are removed to special "flag" fields where they are also replaced by integers for ease of processing.

c. Location of Manufacturing Plants Tapes.—The Location of Manufacturing Plants tapes provide information on the number of manufacturing establishments in each of the 450 manufacturing industries, classified according to their employment-size class and the State and county within which they are located. Each logical record is associated with a particular industry (4-digit SIC) and a particular county (or State or U.S. summary) and contains the number of establishments in seven employment-size categories: 1-19, 20-49, 50-99, 100-249, 250-499, 500-999, and 1,000 employees or more. There is a record for each industry-county or industry-State combination with one or more manufacturing plants.

Two versions of Location of Manufacturing Plants are available, both with the same data but sorted in different ways:

File ML-1—Logical records are in sort by industry by State and county within State; that is, all records for a particular industry appear as a group (one tape).

File ML-2—Logical records are in sort by State and county within State by industry; that is, all industry records for a given county appear as a group (one tape).

Files essentially similar to ML-1 are also available from the 1967 and 1963 Censuses.

The census of manufactures tape described above contains industry data not only on number of establishments, but on aggregate employment, payrolls, value added, value of shipments and other measures. While data are included for small areas (States, SMSA's, counties and major cities), it is not possible to provide these statistics with complete industry detail in each area without disclosing figures for individual companies, and such figures are suppressed where necessary. The Location of Manufacturing Plants file, containing only establishment counts, fills in many of the data gaps necessarily arising in the regular 1972 Census of Manufactures published tables. For many analytical purposes, aggregates are not needed. Instead, the detailed count of manufacturing plants in these files, cross-classified by industry, county and size, provides a revealing picture that will be useful to (1) those involved in economic development programs at the regional, State and local area levels; (2) those engaged in industrial market analysis or allocation of sales territories; and (3) those concerned with industrial dispersion, regional shifts of industry, and similar problems.

The use of Location of Manufacturing Plants tapes data in conjunction with the census of manufactures tape or reports may permit closer approximations of the level of economic activity than simple establishment counts. However, caution must be observed in making such approximations because there are very significant differences in the relationships among employment, payroll, cost of materials, value of shipments, value added, etc., for individual plants within each industry and particularly by geographic area within industry and among different industries within an area.

d. Technical Conventions and Cost.—These tapes are reproduced on an IBM 360 computer and are compatible with the tape hardware of most computers. IBM 360/OS labels are used, but can simply be bypassed if not usable in the

user's computer. Logical records are packed into blocks not exceeding 4,000 characters. Options on number of channel density and recording language are as follows:

- (1) 9-track, 556 bpi, BCD
- (2) 7-track, 800 bpi, BCD
- (3) 9-track, 800 bpi, EBCDIC
- (4) 9-track, 800 bpi, ASCII

Other tape configurations may be available from summary tape processing centers outside the Bureau.

These summary tapes are available for sale from the Data User Services Division, Bureau of the Census, Washington, D.C. 20233 for \$80 per reel, prepaid. Complete technical documentation is provided with tape purchases. Inquiries about these tapes should be directed to the Data User Services Division.

C. HOW TO GAIN ACCESS TO INDUSTRIAL STATISTICS

1. Depository Libraries

To assist the public in gaining access to Census data, the Bureau maintains Census Depository Libraries throughout the country which maintains files of all Census publications. The libraries designated as Census Depository Libraries are listed in this section.

In addition to the Census Depository Libraries, there are approximately 1,100 Government Depository Libraries which have some Census publications. These libraries are located at most large universities and public libraries. Because the list of Government Depository Libraries is extensive, we are unable to reproduce it in this publication. If you would like the name of a Government Depository Library located near you, please call Jacqueline A. Gans in Washington, D.C., telephone number Area Code 301, 763-7730.

CENSUS DEPOSITORY LIBRARIES

Alabama

Montevallo—Alabama College Library
University—University of Alabama Business Library

California

Berkeley—Public Library
University of California, Giannini Found. Library
Beverly Hills—Public Library
Glendale—Public Library
Pomona—Public Library
Sacramento—Sacramento Junior College Library
Santa Monica—Public Library

Connecticut

Bristol—Public Library
New Britain—New Britain Institute Library
New Haven—Free Public Library
Stamford—The Ferguson Library

District of Columbia

George Washington University Library
Howard University Library
Library of Congress
National Archives Library
Federal Trade Commission Library

Illinois

Aurora—Public Library
Bloomington—Withers Public Library
Chicago—Municipal Reference Library
Roosevelt College Library
Macomb—Western Illinois State Teachers College Library
Springfield—Lincoln Library
Waukegan—Public Library

Indiana

Columbus—Columbus—Bartholomew County Library
North Manchester—Manchester College Library
Terre Haute—Emeline Fairbanks Memorial Library

Iowa

Davenport—Public Library
Dubuque—University of Dubuque

Kansas

Topeka—Free Public Library

Kentucky

Lexington—Public Library

Maine

Biddeford—McArthur Public Library

Maryland

Baltimore—University of Baltimore Library

Massachusetts

Fall River—Public Library
Havenhill—Public Library
Lenox—Lenox Library Association
Northampton—Smith College Library
Springfield—Springfield College Marsh Memorial Library
Worcester—Clark University Library

Michigan

Holland—Hope College, Graves Library
Marquette—Northern Michigan College Library
Peter White Public Library

Minnesota

Hibbing—Public Library
Mankato—State Teachers College Library
St. Cloud—Public Library
State Teachers College Library
St. Paul—College of St. Catherine Library
James Jerome Hill Library

Missouri

Marshall—Missouri Valley College Library
Maryville—Northwest Missouri State Teachers College Library

Montana

Billings—Parmly Billings Memorial Library

Nebraska

Lincoln—Nebraska Wesleyan University Library

New Hampshire

Concord—Public Library

New Jersey

Kearney—Free Public Library
Upper Montclair—State Teachers College Library
Morristown—Morristown Library
Orange—Public Library
Paterson—Free Public Library

New York

Annandale-on-Hudson—Bard College Library
Aurora—Wells College Library
Clinton—Hamilton College Library
Jamestown—James Prendergast Free Library
New York—Municipal Reference Library
Oneonta—Huntington Memorial Library
Syracuse—Public Library
Troy—Rensselaer Polytech Institute Library
White Plains—Public Library

North Carolina

Charlotte—Johnston C. Smith University Library
Gastonia—Gaston County Public Library
Raleigh—Meredith College Library

North Dakota

Jamestown—Jamestown College Library

Ohio

Cleveland—Municipal Reference Library
Lima—Public Library
Lorain—Public Library
Massillon—Public Library
Zanesville—John McIntire Library

Oklahoma

Oklahoma City—Oklahoma City Libraries
Okmulgee—Public Library

Pennsylvania

Allentown—Free Library
Bloomsburgh—Public Library
Harrisburg—Dept. of Commerce, The Secretary, State Capitol.
Lincoln University—Vail Memorial Library
New Wilmington—Westminster College Library
Shippensburg—State Teachers College Library
Wilkes-Barre—Osterhout Free Library
York—Martin Memorial Library

South Carolina

Orangeburg—Orangeburg County Free Library

Tennessee

Cooksville—Tennessee Polytech Institute Library
Memphis—Goodwyn Institute Library

Texas

Corpus Christi—La Retama Public Library

Utah

Salt Lake City—Public Library

Vermont

Bennington—Bennington College Library

Virginia

Hampton—Hampton Institute, Huntington Memorial Library
Lynchburg—Jones Memorial Library
Richmond—Public Library

Washington

Seattle—Municipal Reference Library
Yakima—Yakima Valley Regional Library

West Virginia

West Liberty—West Liberty State Teachers College Library
Wheeling—Ohio County Public Library

Wisconsin

Madison—Legislative Reference Library
Milwaukee—Municipal Reference Library
Oshkosh—Public Library
Waukesha—Carroll College Library

2. Census Bureau Regional Offices

The 12 regional offices maintained by the Bureau of the Census in cities outside the Washington area offer a variety of services to users of Census Bureau data. These offices are staffed with Data User Services Officers who can answer inquiries about census publications and other Bureau products, assist users in the access to and use of census data needed for specific applications, and make presentations to groups interested in the statistical programs and products of the Bureau. These offices also maintain fairly complete libraries of all Census Bureau Publications.

Data User Services Offices are located in the following regional offices:

California

Los Angeles

Colorado

Denver

Georgia

Atlanta

Illinois

Chicago

Kansas

Kansas City

Massachusetts

Boston

Michigan

Detroit

New York

New York

North Carolina

Charlotte

Pennsylvania

Philadelphia

Texas

Dallas

Washington

Seattle

3. Department of Commerce District Offices

These offices maintain a general library of census publications. Most offices have a trade specialist generally familiar with Census Bureau materials and experienced in consulting with business people regarding their statistical needs. Department of Commerce district offices located in cities without a government printing office also function as sales agent for census reports. A list of these district offices follows:

Alabama Birmingham	Louisiana New Orleans
Alaska Anchorage	Maine Portland
Arizona Phoenix	Maryland Baltimore
Arkansas Little Rock	Massachusetts Boston
California Los Angeles San Diego San Francisco	Michigan Detroit Ann Arbor Grand Rapids
Colorado Denver	Minnesota Minneapolis
Connecticut Hartford	Mississippi Jackson
Florida Miami Clearwater Jacksonville Tallahassee	Missouri St. Louis Kansas City
Georgia Atlanta Savannah	Montana Butte
Hawaii Honolulu	Nebraska Omaha
Idaho Boise	Nevada Reno
Illinois Chicago	New Jersey Newark
Indiana Indianapolis	New Mexico Albuquerque
Iowa Des Moines	New York Buffalo New York
Kansas Wichita	North Carolina Greensboro Asheville
Kentucky Frankfort	Ohio Cincinnati Cleveland

Oklahoma Oklahoma City	Texas Dallas Houston
Oregon Portland	Utah Salt Lake City
Pennsylvania Philadelphia Pittsburgh	Virginia Richmond
Puerto Rico San Juan	Washington Seattle
Rhode Island Providence	West Virginia Charleston
South Carolina Columbia Charleston	Wisconsin Milwaukee
Tennessee Memphis Nashville	Wyoming Cheyenne

4. Government Printing Office Bookstores

The following Government Printing Office bookstores stock selected census publications and will help you in ordering others:

Alabama Birmingham	Michigan Detroit
California Los Angeles San Francisco	Missouri Kansas City
Colorado Denver Pueblo	New York New York
Florida Jacksonville	Ohio Canton Cleveland
Georgia Atlanta	Pennsylvania Philadelphia
Illinois Chicago	Texas Dallas
Massachusetts Boston	Washington Seattle
	Wisconsin Milwaukee

If these bookstores are not available to you, copies of Government reports for sale may be purchased with the appropriate payment from the Superintendent of Documents, U.S. Government Printing Office, Washington, D. C. 20402.

D. PUBLICATION ORDER FORMS

A complete list of publication order forms for all the industrial statistical publications provided by the Census Bureau are described in this booklet and a convenient order form is provided on the inside back cover of this guide.

Publication order forms are listings of the printed reports within a series by the individual series number, title, informa-

tion on contents, price per copy, price for the series. These order forms are distributed as soon as the reports are issued and may be obtained from any U.S. Department of Commerce district office or:

Subscriber Services Section (Publications)
Bureau of the Census
Washington, D.C. 20233

Chapter XI. Other Important Sources of Industrial Statistics

This chapter provides additional sources of data published by the U.S. Government to supplement the sources described and illustrated elsewhere in this publication.

Selected publications of these agencies and many government research reports are available in microfiche from:

National Technical Information Service (NTIS)
Springfield, Virginia 22151

Catalogs of their hard copy publications as well as a description of their microfiche services are available at the same address. NTIS is a part of the Department of Commerce, Office of Science and Technology.

This listing of Government reports is by no means complete. In addition, it does not include the many general and specific directories of manufacturing firms that are available, nor the periodic statistical reports on production, prices, inventories, and various other aspects of activity in individual industries that are provided by many trade associations and trade journals or studies made by many State agencies and private organizations.

A. GENERAL REFERENCES

Bureau of the Census

Bureau of the Census Catalog. Quarterly and cumulative to annual. Lists and describes all reports, data files, and special tabulations issued by the Bureau and contains an index of their contents.

Statistical Abstract of the United States. Annual. Summary statistics from governmental and nongovernmental sources on the industrial, social, political, and economic organization of the United States. Designed to serve as a convenient volume for statistical reference, and as a guide to other statistical publications and sources. Supplements with additional detail or specialized arrangement, issued in separate volumes, include:

County and City Data Book, 1972. Presents 196 items of data for each region, division, State, and county; 163 items for each of 243 standard metropolitan statistical areas; 194 for each of 840 cities of 25,000 population or more in 1970; and 99 items for each of 248 urbanized areas and 76 unincorporated places of 25,000 or more. Editions of this supplement are usually issued following the major census. The 1967 edition is the most recent previous volume in the series.

Pocket Data Book, USA 1974. Biennially. Graphic and tabular presentation of summary statistics covering the current social, economic, and political life of the Nation.

Historical Statistics of the United States, Colonial Times to 1970. More than 12,500 statistical time series, largely annual, extending back to the earliest year for which the data are

available, with specific sources notes, definitions of terms, description of development and reliability of the data, and detailed subject index.

Congressional District Data Book (districts of the 93d Congress). Population and housing data for congressional districts from the 1970 censuses and figures on vote cast for President and Congress. The latest edition covers districts of the 93d Congress with special supplements for the three States—California, New York, and Texas—which changed congressional district boundaries for the 94th Congress. Includes maps for each State showing counties, congressional districts, and selected places.

Mini-Guide to the 1972 Economic Censuses. Summarizes each of the censuses conducted, provides a description of the SIC system, and the geographic classifications used, and contains a section on obtaining data, including automated data.

Data User News. This is a monthly newsletter that provides detailed information on the availability and applications of Census Bureau products and subjects. Timely information on new publications, release of printed reports and computer tapes, and plans for upcoming surveys are featured.

Guide to Foreign Trade Statistics. This guide provides sample illustrations of the content and general arrangement of the data presented in individual foreign trade reports, tabulations, magnetic tapes, punchcards, and microfilm issued by the Census Bureau.

Guide to Programs and Publications—Subjects and Areas. Gives a tabular listing of all Census publications issued from 1968 to 1972. Included are title and series designation, and geographic areas and principal subjects covered. Includes a list of methodological studies and contains a chapter covering all statistical compendia and guides published by the Census Bureau.

Bureau of Domestic Commerce

Industry reports series. Analyses of supply, demand, and general outlook for specific industries, including data on production, consumption, imports, and exports. The series includes the following industries: *Copper*, quarterly; *Containers and Packaging*, quarterly; *Printing and Publishing*, quarterly; and *Pulp, Paper and Board*, quarterly.

U.S. Industrial Outlook. Annual, latest issue for 1977. Contains statements for key manufacturing industries and services, based on review of specific conditions within the industry and factors that have influenced the industry in preceding years. This review is coupled with an analysis of overall economic trends to determine the level of economic activity that may be expected to continue within the industry in the next year.

Construction Review. Monthly. Contains analytical articles, the annual construction outlook, and the following current statistics on construction: Value of new construction, new nonfarm dwelling units under construction, building permit activity, construction costs, production and prices of construction materials, and contract construction employment (including hours and earnings). On a quarterly basis, also includes data on residential vacancy rates and data on alterations and repair expenditures.

Bureau of Economic Analysis

Survey of Current Business. Monthly. Interpretive tax and charts on the current business situation; economic analyses and research reports; quarterly data on national income and gross national product, balance of international payments, and expenditures for new plant and equipment; monthly statistical series (about 2,500) including retail and wholesale and inventories, manufacturing sales, orders, and inventories, industrial production and consumer and wholesale prices. Supplements include *Business Statistics*, listed below.

Business Statistics. Biennial. (Supplement to the Survey, published in odd-numbered years) Historical data for series carried in the monthly issues, with explanatory notes and exact source references.

Business Conditions Digest. Monthly. Compendium of short-term economic indicators at the national level. Presents approximately 300 economic time series in both graphic and tabular form, covering the period 1945 to present.

Bureau of Labor Statistics

Monthly Labor Review. Articles on employment, labor force, wages, prices, productivity, unit labor costs, collective bargaining, union conventions, workers' satisfaction, social indicators, and foreign labor briefs. Regular features include a review of developments in industrial relations, major contract expirations, significant court decisions in labor cases, book reviews, and current labor statistics.

Employment and Earnings. Monthly. Presents statistical measures on the labor force, employment, and unemployment; payroll employment, hours of work, and earnings by industry, State, and area; labor turnover in manufacturing by State and area; monthly analysis of employment and unemployment developments; and monthly unemployment insurance data. Two summary volumes are issued annually for the payroll data: *Employment and Earnings, States and Areas and Employment and Earnings, United States*. Annual bulletins contain historical statistics from earliest period for which each series is available to current year.

BLS Handbook of Methods. Bulletin No. 1711, 1971. Summary of technical notes on major series of the Bureau of Labor Statistics covering scope of the surveys, collecting basic data and calculating the statistical measures, uses of the series, and a discussion of their limitations. Sections deal with statistical series on current employment analysis, manpower structure and trends, prices and living conditions, wages and industrial relations, productivity and technology, occupational safety and health, and economic trends and labor conditions.

Major BLS Programs. Annual. A list of BLS programs, giving characteristics of the collection and presentation of data, nature of the series, references to full descriptions of the projects, uses, and publications reporting the findings.

Publications of the Bureau of Labor Statistics. Semiannual catalog. An annotated listing of bulletins, reports, and releases of the BLS and *Monthly Labor Review* articles and reprints. Materials issued by regional offices are also included.

Handbook of Labor Statistics. Annual. More than 400 pages of major historical series bearing on labor economics and labor institutions. Coverage includes material from BLS, other offices of the Department of Labor, other government departments, and foreign governments. Brief statements of method and limitations of each series.

Council of Economic Advisers

The Economic Report of the President, together with the Annual Report of the Council of Economic Advisers. Annual. Analysis of current developments in employment, production, and purchasing power; recommendations for policy action; statistical appendixes present supporting data.

Economic Indicators. Monthly. Prepared by the Council and published by the Congressional Joint Economic Committee, presenting basic statistical series on: Total output, income, and spending; employment, unemployment, and wages; production and business activity; prices; money, credit, and security markets; and Federal finance. *A supplement to Economic Indicators* (latest issue 1967) contains historical data and a description of each series, technical procedures, relation to other series, uses, limitations, and references.

Department of Agriculture

Agricultural Statistics. Annual. Principal agricultural series on acreage, yield, and production of crops; commercial crops; prices paid and received by farmers; livestock production; market supplies and prices; imports and exports; farm resources, income, and expenses; consumption and family living; and agricultural programs.

Major Statistical Series of the U.S. Department of Agriculture—How They Are Constructed and Used. Agricultural Handbook No. 365 (published 1969-72). Eleven volumes describing concepts and definitions used; methods of obtaining, tabulating, and analyzing data, and accuracy and reliability of data; comparisons with related series. Volumes are—Agricultural Prices and Parity; Agricultural Production and Efficiency; Gross and Net Farm Income; Agricultural Marketing Costs and Charges; Consumption and Utilization of Agricultural Products; Land Values and Farm Finances; Farm Population and Employment, Crop and Livestock Estimates; Farm Cooperatives; Market News; Foreign Trade, Production, and Consumption of Agricultural Products.

Agricultural Finance Review. Annual. Reviews developments and research findings in agricultural finance and related topics. Reports on issues related to farm and rural credit, financial management, insurance, income, agribusiness and financial institutions, rural government, taxation, and rural development.

National Food Situation. Quarterly. Details per capita consumption of major foods, nutrients available for civilian consumption, indexes of the annual supply and use of farm food commodities, retail food price indexes, the Consumer Price Index, total food expenditures, and the percentage of income spent for food. Includes the outlook for food expenditures, retail prices, and consumption.

Agricultural Outlook Digest. Monthly, except January. Newsletter summarizing outlook and changes in commodity situations, the economics of agriculture, and foreign agricultural production and trade.

Farm Population Estimates. Annual. Estimates the current farm population distribution by geographic regions and divisions, and estimates the components of annual change (births, deaths, and migration) in the farm population for the United States.

Foreign Agricultural Trade of the United States. Monthly. Emphasizes the current status and outlook of U.S. agricultural trade, including exports under specified government-financed programs, commercial exports, price developments, and quantity index for selected commodity groups. Analyses include: U.S. exports to the European Economic Community; U.S. trade with other major exporting and importing countries and trade blocs; government-program shipments by commodity and country. World trade section shows farm commodity trade and the U.S. share. Two annual supplements are published, one by calendar year, and the other by fiscal year. They present detailed tables of the quantity and value of annual exports and imports of principal products for 2 years in both commodity-by-country and country-by-commodity order.

Federal Reserve System

Annual Report. Financial data on Federal Reserve banks and member banks; other banking data; review of monetary policy and record of policy actions.

Federal Reserve Bulletin. Monthly. Current data on banking; money stock; money rates and security markets; nonbank financial institutions; real estate mortgage and consumer credits; government and business finance; flow of funds, industrial production; capacity utilization in manufacturing; other domestic business statistics; prices; and international finance.

Reviews current economic and financial developments and special articles on these and related subjects. Includes list of: (1) Federal Reserve publications and regular statistical releases, (2) Staff Economic Studies available in mimeographed form; and (3) reprints of articles from the Bulletin. Many of these reprints contain extensive descriptions of series (new and revised) being released by the Board.

Historical Chart Book. Annual. Subjects covered are similar to those in the monthly Federal Reserve Chart Book, but the charts cover much longer periods.

Federal Reserve Chart Book on Financial Business Statistics. Monthly. Includes charts of data relating to reserve banks, commercial banks, and nonbank financial institutions; monetary aggregates, domestic money rates and security markets; flow

of funds; government and business finance; mortgage and consumer credit; industrial production; other measures of economic activity; prices; international finance and trade; and interest rates in foreign countries.

Federal Trade Commission

Quarterly Financial Report for Manufacturing Corporations. Financial statistics, including sales, profits, assets, liabilities, stockholders' equity, and related accounts and ratios, classified both by industry group and asset size. National estimates based on uniform, confidential balance sheets and statements of income and retained earnings collected quarterly from probability samples of manufacturing, mining, wholesale trade, and retail trade corporations.

Internal Revenue Service

Corporation Income Tax Returns. Annual. Financial data on assets, liabilities, receipts, deductions, net income, distributions to stockholders, income tax, tax credits, and minimum tax, tax payments and overpayments. Classification by industry and accounting period. Size classifications include total assets, business receipts, net income, income taxed at normal tax and surtax rates, and income tax. Selected data on returns with net income, consolidated returns, returns of controlled group members, Small Business Corporations taxed through shareholders, and Domestic International Sales Corporations. Ten-year historical summary.

Individual Income Tax Returns. Annual. Sources of income, adjusted gross income, exemptions, standard and itemized deductions, taxable income, income tax, tax credits, minimum tax, self employment tax, tax payments and overpayments. Data on income items such as wages and salaries, foreign and domestic dividends, capital gains, and interest. Selected income and tax items by State and IRS regions. Classifications include size of adjusted gross income, size of tax, marital status, tax status, type of tax, form of deduction, age 65 or over, and tax rates. Detailed information on itemized deductions in odd-numbered alternate years. Ten-year historical summary.

Business Income Tax Returns. Annual Information on sole proprietorships and partnerships, as well as summarized information for corporations. Number of businesses, receipts, deductions, inventory, and profit or loss. Classifications include industry and size of business receipts. Topics included are compensation of employees, selected data on owners of sole proprietorships, and investment credit. Partnership balance sheet data in alternative years. Ten-year historical summary.

Office of Management and Budget

Statistical Services of the United States Government. This book provides a comprehensive overview of the Federal statistical structure producing economic and social data. It describes the organizational structure of the statistical system in the U.S. Government; methods of collection, tabulation and presentation of data; the principal statistical programs, and publications of each agency. The latest edition is 1975.

B. REFERENCE BY BROAD SUBJECT GROUPINGS**Commodity Prices****Bureau of Labor Statistics**

- Chartbook of Prices, Wages, Productivity.* Monthly.
Wholesale Price and Price Indexes. Monthly.
Consumer Price Index Detail Report. Monthly.
Export and Import Price Indexes. Quarterly.

Department of Agriculture

- Agricultural Statistics.* Annual.
Demand and Price Situation. Quarterly.
Price Spread for Farm Foods. Monthly.
Agricultural Prices. Monthly.

Economic Indexes**Bureau of the Census**

- Manufacturers' Inventories and Sales Expectations.* Quarterly.
Manufacturers' Shipments, Inventories, and Orders. Monthly.

Bureau of Labor Statistics

- Monthly Labor Review.*

Council of Economic Advisers

- Economic Indicators.* Monthly.

Federal Reserve System

- Federal Reserve Bulletin.* Monthly.
Federal Reserve Chart Book on Financial Business Statistics. Monthly.

Bureau of Economic Analysis

- Survey of Current Business.* Monthly.

Foreign Commerce:**Bureau of the Census**

- U.S. Exports—Schedule B—Commodity by Country.* FT 410. Monthly, cumulative to annual.
U.S. Exports—Commodity Groupings by World Area. FT 450. Annual.
U.S. Exports—World Area by Commodity Groups. FT 455. Annual.
U.S. Exports—Domestic Merchandise, SIC Based Products by World Area. FT 610. Annual.
U.S. General Imports—Schedule A—Commodity by Country. FT 135. Monthly, cumulative to annual.

U.S. General Imports—Schedule A—Commodity Groupings by World Area. FT 150. Annual.

U.S. General Imports—World Area by Commodity Groupings. FT 155. Annual.

U.S. Imports—Consumption and General, SIC Based Products by World Area. FT 210. Annual.

Manufacturers' Export Sales and Orders of Durable Goods. Monthly. Current Industrial Report.

Origin of Export of Manufactured Products. Annual. Current Industrial Report.

Bureau of International Commerce

Overseas Business Reports. Issued irregularly.

Labor**Bureau of the Census**

- Census of Population.* Decennial. (1970 latest).
City Employment. Annual. (G.E. No. 2)
Public Employment. Annual. (G.E. No. 1)

Bureau of Labor Statistics

- Employment and Wages.* Quarterly.
Wages and Hours. Annual.
Area Wage Surveys. Annual.
Monthly Labor Review.
Indexes of Output per Manhour for Selected Industries. Annual.
Productivity and the Economy (Bulletin 1779), 1973.
Handbook of Labor Statistics. Annual.
Work Stoppages. Monthly, with detailed annual report.
Productivity and Cost. Quarterly and annual.

Department of Labor, Manpower Administration

- Area Trends in Employment and Unemployment.* Monthly.
Unemployment Insurance Claims. Weekly.
Unemployment Insurance Statistics. Monthly.

Department of Labor, Women's Bureau

- Handbook on Women Workers.* Every 2 or 3 years.
Women Workers Today. Annual.

Department of Agriculture, Statistical Reporting Service

- Farm Labor.* Quarterly.

Manufactures

Bureau of the Census

Census of Manufactures and other industrial statistics publications of the Bureau of the Census are described in earlier sections of this publication.

Bureau of Domestic Commerce

Industry reports series: Analyses of supply, demand, and general outlook for specific industries, including data on production, consumption, imports, and exports. The series includes the following industries: *Copper*, quarterly; *Containers and Packaging*, quarterly; *Printing and Publishing*, quarterly; and *Pulp, Paper and Board*, quarterly.

U.S. Industrial Outlook. Annual, latest issue for 1977.

Department of Agriculture

Agricultural Statistics. Annual.

Agricultural Economics Research. Quarterly.

Federal Reserve System

Federal Reserve Bulletin. Monthly.

Federal Trade Commission

Quarterly Financial Report for Manufacturing Corporations.

Statistical Report on Mergers and Acquisitions. Annual.

Internal Revenue Service

Statistics of Income—Business Income Tax Returns. Annual.

Directories of Manufacturing Companies

State directories of manufacturers are available for practically every State. Usually they are compiled by an agency of the State government (Labor, Industry, Commerce, Industrial Development Commissions, etc.), but occasionally by the State Chamber of Commerce or the Bureau of Business Research of the State University. General industrial directories are also available and are prepared by many trade associations and publishers. For information on such private sources, we suggest that you write to the government agency concerned with the subject or to the U.S. Department of Commerce.

Minerals

Bureau of the Census

Census of Mineral Industries was described in an earlier section of this publication.

Raw Materials in the United States Economy: 1900-1969 (Working Paper No. 35)

Bureau of Mines

Mineral Facts and Problems. Quinquennially.

Commodity Data Summaries. Annual.

Mineral Yearbook. Annual.

Mineral Industry Survey. Weekly, monthly, quarterly, or annual reports on production, stocks, consumption, shipments, and similar data relating to minerals. Examples of these reports are: *Weekly Coal Report*, *Weekly Crude Oil Stock Report*, *Quarterly Gypsum Report*, *Monthly Coke Report*, *Monthly Iron Ore Report*, *Monthly and Annual Petroleum Statement*, etc. Also periodic bulletins on accidents in the mining industries.

Federal Power Commission

Statistics on Interstate Natural Gas Pipeline Companies. Annual.

Power

Federal Power Commission

Statistics of Privately Owned Electric Utilities. Annual.

Statistics of Publicly Owned Electric Utilities. Annual.

Statistics of Interstate Natural Gas Pipeline Companies. Annual.

Electric Power Statistics. Monthly.

Wholesale and Retail Trade

Bureau of the Census

Censuses of Wholesale and Retail Trade and Service Industries was described in an earlier section of this publication.

Retail Sales. Weekly, monthly, and annual.

Wholesale Trade: Sales and Inventories. Monthly.

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