Broadwoven Fabric Mills

1997

Issued November 1999

EC97M-3132A

1997 Economic Census *Manufacturing* Industry Series

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ACKNOWLEDGMENTS

The staff of the Manufacturing and Construction Division prepared this report. Judy M. Dodds, Assistant Chief for Census and Related Programs, was responsible for the overall planning, management, and coordination. Kenneth Hansen, Chief, Manufactured Durables Branch, assisted by Mike Brown, Renee Coley, Raphael Corrado, and Milbren Thomas, Section Chiefs, Michael Zampogna, Former Chief, Manufactured Nondurables Branch, assisted by Allen Foreman, Robert Miller, Robert Reinard, and Nat Shelton, Section Chiefs, and Tom Lee, Robert Rosati, and Tom Flood, Special Assistants, performed the planning and implementation. Stephanie Angel, Brian Appert, Stanis Batton, Carol Beasley, Chris Blackburn, Larry Blumberg, Vera Harris-Bourne, Brenda **Campbell, Suzanne Conard, Vance** Davis, Mary Ellickson, Matt Gaines, Merry Glascoe, Kay Hanks, Karen Harshbarger, Nancy Higgins, James Hinckley, Walter Hunter, Jim Jamski, Evelyn Jordan, Robert Lee, John Linehan, Paul Marck, Keith McKenzie, Philippe Morris, Joanna Nguyen, Betty Pannell, Joyce Pomeroy, Venita Powell, Cynthia Ramsey, Chris Savage, Aronda Stovall, Sue Sundermann, Thanos Theodoropoulos, Dora Thomas, Ann Truffa, Ronanne Vinson, Keeley Voor, Denneth Wallace, Tempie Whittington, Lissene Witt, and Mike Yamaner provided primary staff assistance.

Brian Greenberg, Assistant Chief for Research and Methodology Programs, assisted by Stacey Cole, Chief, Manufacturing Programs Methodology Branch, and Robert Struble, Section Chief, provided the mathematical and statistical techniques as well as the coverage operations. Jeffrey Dalzell and Cathy Ritenour provided primary staff assistance.

Mendel D. Gayle, Chief, Forms, Publications, and Customer Services Branch, assisted by Julius Smith Jr. and Baruti Taylor, Section Chiefs, performed overall coordination of the publication process. Kim Credito, Patrick Duck, Chip Murph, Wanda Sledd, and Veronica White provided primary staff assistance.

The Economic Planning and Coordination Division, Lawrence A. Blum, Assistant Chief for Collection Activities and Shirin A. Ahmed, Assistant Chief for Post-Collection Processing, assisted by Dennis Shoemaker, Chief, Post-Collection Census Processing Branch, Brandy Yarbrough, Section Chief, Sheila Proudfoot, Richard Williamson, Andrew W. Hait, and Jennifer E. Lins, was responsible for developing the systems and procedures for data collection, editing, review, correction and dissemination

The staff of the National Processing Center, **Judith N. Petty,** Chief, performed mailout preparation and receipt operations, clerical and analytical review activities, data keying, and geocoding review.

The Geography Division staff developed geographic coding procedures and associated computer programs.

The Economic Statistical Methods and Programming Division, **Charles P. Pautler Jr.,** Chief, developed and coordinated the computer processing systems. **Martin S. Harahush,** Assistant Chief for Quinquennial Programs, assisted by **Barbara Lambert** and **Christina Arledge** were responsible for design and implementation of the computer systems. **Gary T. Sheridan,** Chief, Manufacturing and Construction Branch, **Lori A. Guido** and **Roy A. Smith,** Section Chiefs, supervised the preparation of the computer programs.

Computer Services Division, **Debra Williams**, Chief, performed the computer processing.

The staff of the Administrative and Customer Services Division, **Walter C. Odom,** Chief, performed planning, design, composition, editorial review, and printing planning and procurement for publications, Internet products, and report forms. **Cynthia G. Brooks** provided publication coordination and editing.

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-- Not applicable for this report.

Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

The economic census is the major source of facts about the structure and functioning of the Nation's economy. It provides essential information for government, business, industry, and the general public. Title 13 of the United States Code (Sections 131, 191, and 224) directs the Census Bureau to take the economic census every 5 years, covering years ending in 2 and 7.

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

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

ALL-NEW INDUSTRY CLASSIFICATIONS

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

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

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

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

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

RELATIONSHIP TO SIC

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

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

GEOGRAPHIC AREA CODING

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

1997 ECONOMIC CENSUS

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

BASIS OF REPORTING

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

DOLLAR VALUES

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

All dollar values are shown in thousands of dollars.

AVAILABILITY OF ADDITIONAL DATA

Reports in Print and Electronic Media

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

Special Tabulations

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

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

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

HISTORICAL INFORMATION

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

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

The 1954 Economic Census was the first census to be fully integrated: providing comparable census data across economic sectors, using consistent time periods, concepts, definitions, classifications, and reporting units. It was the first census to be taken by mail, using lists of firms provided by the administrative records of other Federal agencies. Since 1963, administrative records also have been used to provide basic statistics for very small firms, reducing or eliminating the need to send them census questionnaires.

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

Printed statistical reports from the 1992 and earlier censuses provide historical figures for the study of longterm time series and are available in some large libraries. All of the census reports printed since 1967 are still available for sale on microfiche from the Census Bureau. CD-ROMs issued from the 1987 and 1992 Economic Censuses contain databases including nearly all data published in print, plus additional statistics, such as ZIP Code statistics, published only on CD-ROM.

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the *Guide to the 1997 Economic Census and Related Statistics* at www.census.gov/econguide. More information on the methodology, procedures, and history of the censuses will be published in the *History of the 1997 Economic Census* at www.census.gov/econ/www/history.html.

ABBREVIATIONS AND SYMBOLS

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

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

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

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Manufacturing

SCOPE

The 1997 Economic Census – Manufacturing covers all manufacturing establishments with one or more paid employees. Manufacturing is defined as the mechanical, physical, or chemical transformation of materials or substances into new products. The assembly of components into new products is also considered manufacturing, except when it is appropriately classified as construction.

Establishments in the manufacturing sector are often described as plants, factories, or mills and typically use power-driven machines and materials-handling equipment. Also included in the manufacturing sector are some establishments that make products by hand, like custom tailors and the makers of custom draperies. While manufacturers typically do not sell to the public, some establishments like bakeries and candy stores that make products on the premises may be included.

While logging and publishing are no longer in the scope of manufacturing, data for these industries are included in the manufacturing industry reports, but are not included in the manufacturing state, summary, and other reports.

GENERAL

This report, from the 1997 Economic Census – Manufacturing, is one of a series of 480 industry reports and 51 geographic area reports, each of which provides statistics for individual industries or states, respectively. Seven of the industry reports are for industries no longer in the manufacturing sector but are included with manufacturing for the 1997 census year. Also included for this sector are General, Product, and Materials Consumed Summary reports, a special report on Concentration Ratios in Manufacturing, and data files on Location of Manufacturing Plants.

Each industry report presents data for a six-digit North American Industry Classification System (NAICS) industry. A description of the particular NAICS industry may be found in Appendix B. These reports include such statistics as number of establishments, employment, payroll, value added by manufacture, cost of materials consumed, value of shipments, capital expenditures, etc. Explanations of these and other terms may be found in Appendix A. The industry reports also include data for states with 100 employees or more in the industry.

State reports, which include the District of Columbia, present similar statistics at the "all manufacturing" level for each state and its metropolitan areas (MAs) with 250 employees or more, and for counties, consolidated cities, and places with 500 employees or more. The state reports also include six-digit NAICS level data for industries with 100 employees or more in the state.

The General Summary report contains industry and geographic area statistics summarized in one report. It includes higher levels of aggregation than the industry and state reports, as well as revisions to the data made after the release of the industry and state reports.

The Products and Materials Consumed reports summarize the products and materials data published in the industry reports. The Product Summary report also includes data from the Current Industrial Reports (CIR) and a special table with data for products that are primary to more than one industry, which are not in the industry reports.

The Concentration Ratios report publishes data on the percentage of value of shipments accounted for by the 4-, 8-, 20-, and 50-largest companies for each manufacturing industry. Also shown in this report are Hirschmann-Herfindahl Indexes for each industry.

The Location of Manufacturing data files contain statistics on the number of establishments for the three- and six-digit NAICS industry by state, county, place, and ZIP Code by employment-size of the establishment.

GEOGRAPHIC AREAS COVERED

Statistics at the six-digit NAICS industry level are shown for states and the District of Columbia in both the state and industry reports for cells with 100 employees or more.

The state reports also include data at the "all manufacturing" level for a variety of geographies that meet the employment criteria.

Data are available for the metropolitan areas (MAs) with 250 employees or more. The term MA is a general term used to encompass all of the specifically defined metropolitan areas. A consolidated metropolitan statistical area (CMSA) is made up of two or more contiguous primary metropolitan statistical areas (PMSAs) with a combined population of at least 1 million. A PMSA is a subdivision of a CMSA that demonstrates very strong internal economic and social links separate from the ties to other portions of the CMSA. A metropolitan statistical area (MSA) is an integrated economic and social unit with a population of at least 50,000. An MA is made up of one or more counties meeting standards of metropolitan character. In New England, cities and towns, rather than counties, are the component geographic units. Determination of the MAs was made by the Office of Management and Budget (OMB) as of June 30, 1997. The population estimates were from the 1990 Census of Population or a subsequent special census. When applicable, the make-up of an MA is included in Appendix E. Changes to geographical boundaries are noted in Appendix D.

The state reports include data for counties with 500 employees or more. These are the primary divisions of states, except in Louisiana where they are called parishes and in Alaska where they are called boroughs and census areas. Maryland, Missouri, Nevada, and Virginia have one or more places that are independent of county organizations. These places are treated as counties and places. The counties and places are defined as of January 1, 1997.

The state reports include data for places with 500 employees or more. Places are typically cities, towns, and villages. They may be incorporated municipalities, semiindependent municipalities, special economic urban areas (SEUAs), or other place equivalents.

The state reports also include data for consolidated cities with 500 employees or more. Consolidated cities are made up of separately incorporated municipalities.

COMPARABILITY OF THE 1992 AND 1997 CENSUSES

The adoption of the North American Industry Classification System (NAICS) has had a major impact on the comparability of data between the 1992 and 1997 censuses. Approximately half of the industries in the manufacturing sector of NAICS do not have comparable industries in the Standard Industrial Classification (SIC) system that was used in the past. If industries are not comparable between the two censuses, historic data are not shown. When applicable, Appendix G shows the product class and product comparability between the two systems.

While most of the change affecting the manufacturing sector was change within the sector, some industries left manufacturing and others came into manufacturing. Prominent among those leaving manufacturing are logging and portions of publishing. Prominent among the industries coming into the manufacturing sector are bakeries, candy stores where candy is made on the premises, custom tailors, makers of custom draperies, and tire retreading. Data for the industries coming into manufacturing as well as those leaving manufacturing are included in the manufacturing industry report series for 1997. However, the state and summary reports only include data for industries in the NAICS definition of manufacturing. Another change resulting from the conversion to NAICS is that data for central administrative offices (CAOs) associated with manufacturing are not included along side the manufacturing data. This change affects data in the state reports and the general summary.

DISCLOSURE

In accordance with Federal law governing census reports (Title 13 of the United States Code), no data are published that would disclose the operations of an individual establishment or company. However, the number of establishments classified in a specific industry or geography is not considered a disclosure, and may be released even when other information is withheld.

The disclosure analysis for the industry statistics files is based on the total value of shipments. When the total value of shipments cannot be shown without disclosing information for individual companies, the complete line is suppressed except for capital expenditures. However, the suppressed data are included in higher-level totals. A separate disclosure analysis is performed for capital expenditures that can be suppressed even though value of shipments data are published.

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

The Census Bureau conducts the Annual Survey of Manufactures (ASM) in each of the 4 years between the economic censuses. The ASM is a probability-based sample of approximately 58,000 establishments and collects many of the same industry statistics (including employment, payroll, value of shipments, etc.) as the economic census. However, there are selected statistics not included in the ASM. Among these are the number of companies and establishments, detailed product and materials data, and substate geographic data.

In addition to the ASM, the Census Bureau conducts a Current Industrial Reports (CIR) program. The CIR publishes detailed product statistics for selected manufacturing industries at the U.S. level annually and, in some cases, monthly and/or quarterly. For the 1997 Economic Census – Manufacturing, the annual CIR data are included in the Product Summary report.

The Census Bureau also conducts the monthly Manufacturers' Shipments, Inventories, and Orders (M3) program, which publishes detailed statistics for manufacturing industries at the U.S. level.

Table 1. Industry Statistics on NAICS Basis With Distribution Among 1987 SIC-Based Industries: 1997

NAICS				All em	ployees	Pr	oduction work	ers				Total capital
or SIC code	Industry	Com- panies ¹	estab- lish- ments ²	Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)	Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	expendi- tures (\$1,000)
313210	Broadwoven fabric mills	733	909	132 898	3 431 910	115 883	241 991	2 726 683	7 491 442	10 638 091	18 233 393	894 286
221100	Weaving mills, cotton		398	46 426	1 169 740	42 157	85 614	987 195	2 369 679	3 806 164	6 195 171	306 305
222100 223110	Weaving mills, synthetics Weaving & finishing mills, wool	N	452	77 123	2 024 968	65 667	140 277	1 557 577	4 662 636	5 949 945	10 682 267	547 505
229930	(pt) Textile goods, n.e.c. (pt)	N N	40 19	9 227 122	234 278 2 924	7 963 96	15 919 181	179 995 1 916	451 575 7 552	876 874 5 108	1 343 310 12 645	40 140 336

[NAICS codes appear in bold type. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control. ²Includes establishments with payroll at any time during the year.

Table 2. Industry Statistics for Selected States: 1997

[States that are disclosures or with less than 100 employees are not shown. For explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

		All establishments		All employees		Pr	oduction work	ers				
Industry and geographic area	E1	Total	With 20 em- ploy- ees or more	Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)	Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
313210, BROADWOVEN FABRIC MILLS												
United States	1	909	411	132 898	3 431 910	115 883	241 991	2 726 683	7 491 442	10 638 091	18 233 393	894 286
Alabama Arizona California Florida Georgia	- 2 5 6 1	24 8 82 42 74	20 1 11 3 52	9 309 118 1 463 396 21 328	252 765 2 475 27 433 9 099 542 333	8 467 101 1 353 336 18 745	18 914 186 2 154 614 40 541	217 165 2 111 23 152 6 478 435 896	526 140 6 372 52 492 23 877 1 317 234	710 142 7 078 65 827 20 161 1 797 174	1 233 921 13 324 119 261 43 936 3 125 643	73 324 290 4 145 2 081 129 388
Maine Massachusetts Michigan Minnesota New Jersey	1	16 22 15 8 29	7 11 3 3 6	2 255 3 274 233 303 672	53 639 101 729 6 208 8 849 18 598	1 536 2 697 212 251 547	2 911 6 458 395 543 1 076	35 914 73 280 4 920 5 830 11 614	106 046 175 142 14 743 19 702 39 538	96 801 186 680 19 847 27 902 55 811	200 475 368 300 34 596 47 764 95 119	17 339 29 135 1 595 1 071 4 522
New York North Carolina Ohio Oregon Pennsylvania	5 1 6 - 2	60 112 23 6 43	16 77 5 2 24	1 510 33 072 471 111 3 352	57 298 846 714 11 009 2 181 85 636	1 241 28 810 390 70 2 786	2 475 60 358 637 142 5 929	29 392 685 508 7 081 1 757 64 168	123 616 1 575 327 24 191 5 958 210 863	201 101 2 872 576 22 634 9 291 241 028	323 772 4 476 299 47 315 14 905 450 726	9 801 222 202 1 958 261 28 844
Rhode Island South Carolina Tennessee Texas Virginia Washington	- - 2 1	11 123 15 32 30 16	6 104 8 23 2	1 009 32 014 2 282 2 189 13 676 383	28 390 814 797 58 835 57 520 341 162 8 621	842 28 665 2 028 1 931 11 517 308	1 818 57 687 4 116 3 659 24 785 447	19 283 665 849 47 907 44 136 261 374 6 468	44 961 1 853 243 130 827 181 373 813 061 9 874	74 229 2 497 398 127 200 160 669 1 231 492 16 746	123 205 4 389 452 251 489 339 530 2 078 540 26 020	1 887 238 187 9 974 7 517 81 535 645

* Hawaii has no incorporated places in the sense of functioning governmental units; however, in agreement with Hawaiian law, the Bureau of the Census reports data for census designated places (CDPs) which have been designated as place equivalents. Those CDPs, only for the state of Hawaii, with 2,500 or more population are recognized.

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

Table 3. Detailed Statistics by Industry: 1997

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

Item	Value	Item	Value
313210, BROADWOVEN FABRIC MILLS		313210, BROADWOVEN FABRIC MILLS-Con.	
Companies ¹ number	733	Value added \$1,000	7 491 442
All establishments number. Establishments with 1 to 19 employees number. Establishments with 20 to 99 employees number. Establishments with 00 employees or more number.	909 498 123 288		2 512 173 1 010 284 888 135 613 754
All employees number. Total compensation ² \$1,000. Annual payroll \$1,000. Total finge benefits \$1,000.	132 898 4 179 449 3 431 910 747 539	Total inventories, end of year \$1,000. Finished goods inventories, end of year \$1,000. Work-in-process inventories, end of year \$1,000. Materials and supplies inventories, end of year \$1,000.	2 379 165 964 399 830 160 584 606
Production workers, average for year number Production workers on March 12 number	115 883 115 488	Gross book value of total assets at beginning of year\$1,000 Total capital expenditures (new and used)\$1,000 Capital expenditures for buildings and other structures	10 374 026 894 286
Production workers on May 12	116 625 115 603 115 816	Capital experior under internitienty and equipment (new	105 020
Production workers on November 12	241 991 2 726 683	and used)	789 266 334 357 10 933 955
Total cost of materials\$1.000	10 638 091	Total depreciation during year ² \$1,000	679 443
Cost of materials, parts, containers, etc., consumed. \$1,000. Cost of resales \$1,000. Cost of fuels \$1,000. Cost of purchased electricity \$1,000. Cost of contract work \$1,000.	9 640 929 146 802 123 282 507 295 219 783	Machinery and equipment rental payments ² \$1,000 Cost of purchased services for the repair of buildings and other	157 034 90 302 66 732
Quantity of electricity purchased for heat and power	12 160 373 7 836	Cost of purchased services for the repair of machinery and	49 084 77
Total value of shipments \$1,000. Primary products value of shipments \$1,000. Secondary products value of shipments \$1,000. Total miscellaneous receipts \$1,000. Value of resales \$1,000.	18 233 393 17 008 437 945 720 279 236 175 696	equipment ³ \$1,000. Response coverage ratio ⁴ percent. Cost of purchased communications services ³ \$1,000. Response coverage ratio ⁴ percent. Cost of purchased legal services ³ \$1,000. Response coverage ratio ⁴ percent.	167 042 77 14 061 77 5 716 77
Contract receipts\$1,000 Other miscellaneous receipts\$1,000		Cost of purchased accounting and bookkeeping services ³	4 707 77 3 268
Primary products specialization ratio	94 17 372 828 17 008 437	Response coverage ratio ⁴ percent.	77 77 7 577
Value of primary products shipments made in this industry \$1,000 Value of primary products shipments made in other industries		Response coverage ratio ⁴ percent Cost of purchased refuse removal (including hazardous waste)	77
Coverage ratio percent	97	services ³ \$1,000 Response coverage ratio ⁴ percent	7 799 77

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control. ²These items are collected in the ASM and estimated for the remaining establishments; therefore, the levels of estimation are higher than for other items in the table. ³Based on ASM sample data. ⁴A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those ASM establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note: The amounts shown for purchased services reflect only those services that establishments purchase from other companies.

Table 4. Industry Statistics by Employment Size: 1997

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

			All shments	All em	ployees	Pr	oduction work	ers				
Employment size class	E1	Total	With 20 em- ploy- ees or more	Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)	Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
313210, BROADWOVEN FABRIC MILLS												
All establishments	1	909	411	132 898	3 431 910	115 883	241 991	2 726 683	7 491 442	10 638 091	18 233 393	894 286
Establishments with 1 to 4 employees Establishments with 5 to 9		287	-	575	11 503	559	928	9 533	23 765	32 656	56 317	2 894
employees Establishments with 10 to 19	9	131	-	882	18 142	780	1 400	14 875	37 262	49 885	87 166	4 542
employees Establishments with 20 to 49	7	80	-	1 065	22 378	923	1 601	16 592	44 419	61 597	105 668	5 169
employees Establishments with 50 to 99	3	69	69	2 212	53 050	1 835	3 455	37 464	130 965	176 901	306 881	15 299
employees Establishments with 100 to 249	2	54	54	4 093	110 567	3 441	6 873	73 770	266 579	359 488	621 193	21 187
employees Establishments with 250 to 499	1	115	115	19 440	557 609	16 746	34 102	432 889	1 482 184	1 893 323	3 406 224	130 515
employees Establishments with 500 to 999	1	96	96	34 508	862 416	30 629	63 445	698 839	1 951 030	2 687 302	4 656 599	268 190
employees Establishments with 1,000 to 2,499	-	58	58	38 830	973 099	34 087	69 576	789 019	1 876 085	2 954 076	4 852 079	231 481
employees Establishments with 2,500 employees	1	17	17	D	D	D	D	D	D	D	D	D
or more	4	2	2	D	D	D	D	D	D	D	D	D
Administrative records ²	9	428	-	2 340	43 086	2 134	3 541	36 205	87 576	122 402	209 824	11 326

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 8–80 to 89 percent or more. ²Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Table 5. Industry Statistics by Industry and Primary Product Class Specialization: 1997

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

NAICS		All	All emp	ployees	Pr	oduction work	ers	Value added			Total capital
industry or product class code	Industry or primary product class	estab- lish- ments	Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)	by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	expendi- tures (\$1,000)
313210	Broadwoven fabric mills	909	132 898	3 431 910	115 883	241 991	2 726 683	7 491 442	10 638 091	18 233 393	894 286
3132101	Cotton broadwoven plain weave fabrics (except pile) (gray goods)	28	8 001	200 204	7 272	14 331	168 828	540 138	532 886	1 061 860	54 439
3132103	Cotton broadwoven twill weave fabrics (except pile) (gray goods)	30	15 225	394 885	13 767	27 833	328 691	694 101	1 483 265	2 186 972	101 069
3132105	Cotton broadwoven fabrics, weaves other than plain, twill, and pile (gray	12	2 420	69 288	0 100	4 010	54.000	140 500	105 547	347 725	10 500
3132107	goods) Cotton broadwoven pile fabrics (gray	9	2 420 2 866	09 288 73 211	2 108 2 650	4 318 5 401	54 882 63 264	140 599 126 831	195 547 199 932	347 725 345 714	16 566 14 751
3132109	goods) Finished cotton broadwoven fabrics (finished in weaving mills)	9 14	2 800 6 886	157 070	2 650 6 278	13 272	133 873	363 628	540 403	345 714 891 929	39 319
313210B	Cotton towels and washcloths (made										
313210C	in weaving mills) Fabricated cotton textile products	5	7 451	200 372	6 819	15 018	176 889	309 989	617 717	930 760	58 879
313210E	(except towels and washcloths) (made in weaving mills) Manmade fiber broadwoven fabrics of 85 percent or more filament yarns,	8	1 000	25 945	889	1 879	18 792	100 823	145 410	243 128	5 208
313210G	chiefly rayon, acetate, and-or lyocell (gray goods)	14	2 718	70 105	2 429	5 604	58 530	158 897	378 385	535 570	22 902
313210H	(except rayon, acetate, and-or lycocell) (gray goods) Manmade fiber broadwoven plain weave fabrics of 85 percent or more	73	21 021	570 529	17 576	37 515	433 624	1 490 156	1 883 181	3 364 186	162 155
	spun yarns (except pile), excluding wool blends (gray goods)	32	9 258	228 431	8 365	17 049	192 353	557 030	567 133	1 139 616	62 426
313210J	Manmade fiber broadwoven twill weave fabrics of 85 percent or more spun yarns (except pile), excluding wool blends (gray goods)	2	D	D	D	D	D	D	D	D	D
313210L	Manmade fiber broadwoven fabrics, of weaves other than plain, twill, and pile, of 85 percent or more spun yarn, excluding wool blends (gray	2	D	D	D	D	U	U	D	U	D
313210M	goods) Manmade fiber broadwoven fabrics, combinations of spun and filament yarns (except wool blends), each	20	5 109	129 378	4 064	8 103	97 001	285 600	450 981	739 816	31 415
313210N	less than 85 percent of total fiber content (gray goods) Other broadwoven fabrics of manmade fibers including pile; and broadwoven fabrics of silk and	33	14 157	379 459	12 729	27 595	309 063	724 215	962 538	1 691 428	110 202
	natural fibers (except cotton) (gray goods)	11	2 437	66 529	2 171	5 199	51 546	163 363	174 730	339 211	13 588

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Table 5. Industry Statistics by Industry and Primary Product Class Specialization: 1997-Con.

NAICS industry or		All				Value added			Total capital		
product class code	Industry or primary product class	estab- lish- ments	Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)	by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	expendi- tures (\$1,000)
313210	Broadwoven fabric mills – Con.										
313210P	Finished manmade fiber and silk broadwoven fabrics (finished in weaving mills)	38	12 140	337 062	9 724	22 261	235 695	792 149	972 237	1 766 443	84 796
313210R	Fabricated manmade fiber and silk textile products (except sheets and pillowcases) (made in weaving										
313210T	mills)	18	6 448	156 040	5 265	10 973	110 992	329 959	249 241	617 580	44 107
	goods)	12	3 240	80 722	2 916	5 842	69 185	107 481	274 385	382 930	9 110
313210U	Finished broadwoven wool fabrics and felts (finished in weaving mills)	12	5 028	128 337	4 242	8 635	95 269	294 969	559 125	869 727	27 378
313210V	Fabricated textile products, 36 percent or more wool (made in										
	weaving mills)	4	882	23 513	737	1 316	14 181	46 743	40 392	85 338	3 540

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

Table 6a. Products Statistics: 1997 and 1992

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

			19	997		1992				
NAICS		Number of companies		Product	shipments	Number of companies		Product shipments		
product code	Product	with shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)	with shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)	
313210	Broadwoven fabrics	N	x	х	17 372 828	N	x	х	N	
3132101	Cotton broadwoven plain weave fabrics (except pile) (gray goods) @	N	x	x	972 249	N	x	x	941 436	
31321011 3132101100	Cotton broadwoven plain weave fabrics (except pile) (gray goods)Cotton broadwoven plain weave fabrics (except pile) (gray goods)mil sq yd	N 42	X P2 474.2	X 2 336.8	972 249 972 249	N 45	X 2 239.9	X 1 152.0	N 941 436	
3132103	Cotton broadwoven twill weave fabrics (except pile) (gray goods) @	N	x	х	2 000 932	N	x	х	1 381 677	
31321031 3132103100	Cotton broadwoven twill weave fabrics (except pile) (gray goods) Cotton broadwoven twill weave fabrics (except pile) (gray goods)mil sq yd	N 28	X P1 818.3	X 1 449.6	2 000 932 2 000 932	N 28	X 1 460.2	X 1 036.5	N 1 381 677	
3132105	Cotton broadwoven fabrics, weaves other than plain, twill, or pile (gray goods) @	N	x	x	427 214	N	x	х	535 135	
31321051 3132105100	Cotton broadwoven fabrics, weaves other than plain, twill, or pile (gray goods) Cotton broadwoven fabrics, weaves other than plain, twill, or pile (gray	N	×	х	427 214	N	x	х	N	
3132107	goods)mil sq yd	39	9359.4	q338.8	427 214	34	469.1	386.9	535 135	
	Cotton broadwoven pile fabrics (gray goods) @	N	x	х	375 689	N	х	х	300 859	
31321071 3132107100	Cotton broadwoven pile fabrics (gray goods) . Cotton broadwoven pile fabrics (gray goods)	N 9	X ۹433.5	x	375 689 375 689	N 14	X 474.0	X 335.5	N 300 859	
3132109	Finished cotton broadwoven fabrics (finished in weaving mills)	N	ч-55.5	x	874 786	N N	474.0 X	333.3 X	1 253 595	
31321091	Finished cotton broadwoven fabrics									
3132109111	(finished in weaving mills) Finished cotton broadwoven print cloth (finished in weaving mills) \$	N 6	x x	X 35.2	872 744 42 745	N 6	X D	X D	N D	
3132109121 3132109131	Finished cotton broadwoven poplin and broadcloth (finished in weaving mills) \$mil fin sq yd Finished cotton broadwoven sheeting,	1	x	D	D	1	D	D	D	
	plain weave, including bedsheeting and osnaburgs (finished in weaving mills) \$mil fin sq yd	1	x	D	D	4	D	D	D	
3132109141	Finished cotton broadwoven tobacco, cheese, and bandage cloth (finished in weaving mills) \$mil fin sq yd	1	x	D	D	1	D	D	D	
3132109151	Finished cotton broadwoven fabrics, other plain weave fabrics (except pile), including lawns, voiles, batistes, and duck (finished in weaving mills) \$mil fin sq yd	2	x	D	D	N	x	x	N	
3132109161	Finished cotton broadwoven twill weave fabrics (finished in weaving mills) \$ mil fin sq yd	7	x	278.0	579 705	9	493.6	490.1	752 911	
3132109171	Finished cotton broadwoven fabrics, weaves other than plain, twill, and pile, including sateens, oxfords, table damask, jacquard, and doby shirting									
3132109181	(finished in weaving mills) \$	4	x	24.4	40 482	N	x	х	N	
	cloth, (finished in weaving mills) \$ mil fin sq yd	6	x	938.6	98 599	6	D	D	D	
3132109Y 3132109YWV	Finished cotton broadwoven fabrics (finished in weaving mills), nsk Finished cotton broadwoven fabrics	N	x	х	2 042	N	x	х	Ν	
313210B	(finished in weaving mills), nsk Cotton towels and washcloths (made in	N	x	Х	2 042	N	х	х	2 600	
	weaving mills)	N	x	x	685 656	N	х	х	731 630	
313210B1 313210B110	Cotton towels and washcloths (made in weaving mills) Cotton terry towels and washcloths,	N	x	х	675 791	N	х	х	Ν	
313210B120	including other pile (made in weaving mills) \$ Other cotton towels and washcloths, including huck and crash (made in	3	x	x	675 791	6	x	x	D	
212210PV	weaving mills) \$	-	х	х	-	1	х	х	D	
313210BY 313210BYWV	Cotton towels and washcloths (made in weaving mills), nsk Cotton towels and washcloths (made in weaving mills), nsk.	N N	x x	x x	9 865 9 865	N N	x x	x x	N _	

See footnotes at end of table.

Table 6a. Products Statistics: 1997 and 1992-Con.

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

			19	997			19	92	
NAICS		Number of		Product	shipments	Number of		Product	shipments
product code	Product	companies with shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)	companies with shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)
313210	Broadwoven fabrics-Con.								
313210C	Fabricated cotton textile products (except towels and washcloths) (made in weaving mills)	N	x	x	505 677	N	x	x	497 620
313210C1	Fabricated cotton textile products (except towels and washcloths) (made in weaving mile)	N	х	x	494 899	N	x	x	N
313210C110	weaving mills)	3	x	x	455 066	5	x	x	D
313210C120	Bedspreads, chiefly cotton (made in	2	x	x		N	x	x	N
313210C130	weaving mills) \$ Comforters and quilts, chiefly cotton (made in weaving mills) \$	5	x	x	11 389	N	x	x	N
313210C141	Other fabricated cotton textile products, made in weaving mills	8	x	x	D	N	x	x	N
313210CY	Fabricated cotton textile products (except towels and washcloths) (made in	0	X	~			~	^	N
313210CYWV	weaving mills), nsk Fabricated cotton textile products (except towels and washcloths) (made	N	X	x	10 778	N	X	x	Ν
313210E	in weaving mills), nsk Manmade fiber broadwoven fabrics of 85 percent or more filament yarns, chiefly	N	х	x	10 778	N	x	x	_
313210E1	rayon, acetate, and-or lyocell (gray goods) @ Manmade fiber broadwoven fabrics of 85 Manmade fiber broadwoven fabrics of 85	N	х	х	538 652	N	x	x	639 686
313210E100	percent or more filament yarns, chiefly rayon, acetate, and-or lyocell (gray goods) Manmade fiber broadwoven fabrics of	N	х	х	538 652	N	x	x	Ν
0100100	85 percent or more filament yarns, chiefly rayon, acetate, and-or lyocell (gray goods)mil sq yd	25	٩632.4	₽569.2	538 652	29	799.9	710.9	639 686
313210G	Manmade fiber broadwoven fabrics of 85 percent or more filament yarns (except rayon, acetate, and-or lyocell) (gray goods) @	N	x	x	3 167 653	N	x	x	2 222 868
313210G1	Manmade fiber broadwoven fabrics of 85 percent or more filament yarns (except rayon, acetate, and-or lyocell) (gray	N	x	x	3 167 653	N	x	x	N
313210G100	goods)								
313210H	(gray goods)mil sq yd Manmade fiber broadwoven plain weave fabrics, of 85 percent or more spun yarns (except pile), excluding wool blends (gray	67	₽5 310.7	4 785.1	3 167 653	71	4 955.7	4 053.7	2 222 868
313210H1	goods) @ Manmade fiber broadwoven plain weave fabrics, of 85 percent or more spun	N	х	x	1 162 434	N	x	х	1 952 706
313210H100	yarns (except pile), excluding wool blends (gray goods) Manmade fiber broadwoven plain weave fabrics, of 85 percent or more	N	х	x	1 162 434	N	x	x	Ν
313210J	spun yarns (except pile), excluding wool blends (gray goods)mil sq yd Manmade fiber broadwoven twill weave	34	^p 2 094.6	91 906.2	1 162 434	48	3 394.5	3 038.1	1 952 706
	fabrics, of 85 percent or more spun yarns (except pile), excluding wool blends (gray goods) @	N	x	x	198 999	N	x	x	301 704
313210J1	Manmade fiber broadwoven twill weave fabrics, of 85 percent or more spun yarns (except pile), excluding wool blends (gray goods)	N	х	x	198 999	N	x	x	N
313210J100	Manmade fiber broadwoven twill weave fabrics, of 85 percent or more spun yarns (except pile), excluding wool blends (gray goods)mil sq yd	19	P299.8	P232.8	198 999	21	454.3	305.2	301 704
313210L	Manmade fiber broadwoven fabrics, of weaves other than plain, twill, and pile, of 85 percent or more spun yarn, excluding wool blends (gray goods) @	N	×200.0	X	710 479	N	X	x	359 440
313210L1	Manmade fiber broadwoven fabrics, of weaves other than plain, twill, and pile,		~				~	^	000 110
313210L100	of 85 percent or more spun yam, excluding wool blends (gray goods) Manmade fiber broadwoven fabrics, of weaves other than plain, twill, and pile, of 85 percent or more spun yam, excluding wool blends (gray goods)mil sq yd	N 35	x	x	710 479	N 37	X 350.9	X 328.2	N 359 440
313210M	Manmade fiber broadwoven fabrics, combinations of spun and filament yarns (except wool blends), each less than 85		3		110 4/9	57	000.9	020.2	000 440
	percent of total fiber content (gray goods) @	N	х	x	1 497 959	N	x	x	1 009 332

See footnotes at end of table.

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Table 6a. Products Statistics: 1997 and 1992-Con.

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

		19	997			19	992	
	Number of		Product	shipments	Number of		Product	shipments
Product	with shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)	with shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)
Broadwoven fabrics-Con.								
Manmade fiber broadwoven fabrics, combinations of spun and filament yarns (except wool blends), each less than 85 percent of total fiber content (gray goods) @ — Con.								
Manmade fiber broadwoven fabrics, combinations of spun yarn and filament yarns (except wool blends) each less than 85 percent of total fiber content								
(gray goods) Manmade fiber broadwoven fabrics, combinations of spun and filament yarns (except wool blends), each less	N	Х	х	1 497 959	N	x	х	Ν
(gray goods)mil sq yd	35	S	P1 883.6	1 497 959	36	1 285.4	1 253.7	1 009 332
Other broadwoven fabrics of manmade fibers including pile; and broadwoven fabrics of silk and natural fibers (except cotton) (gray goods) @	N	х	х	375 539	N	x	x	N
Other broadwoven fabrics of manmade fibers including pile; and broadwoven fabrics of silk and natural fibers (except		, v		075 500		×		
Manmade fiber and silk broadwoven								N 142 174
Other broadwoven fabrics of manmade fibers including wool blends, and broadwoven fabrics of silk and natural								142 174 N
		107.7	172.0	277 137	IN	^	^	IN .
fibers including pile; and broadwoven fabrics of silk and natural fibers (except								
cotton) (gray goods), nsk Other broadwoven fabrics of manmade fibers including pile; and broadwoven fabrics of silk and natural fibers	N	х	x	-	N	x	х	N
(except cotton) (gray goods), nsk Finished manmade fiber and silk	N	Х	х	-	N	x	х	N
mills)	N	х	х	1 789 850	N	x	х	1 290 996
broadwoven fabrics (finished in weaving mills)	N	х	x	1 635 267	N	x	х	Ν
print cloth, of 85 percent or more spun yarns (finished in weaving mills) \$ mil fin sq yd Finished manmade fiber broadwoven	9	х	٩122.5	261 437	4	46.5	P16.5	37 836
more spun yarns (finished in weaving mills) \$mil fin sq yd	2	х	D	D	5	D	D	D
sheeting, plain weave, including bedsheeting and osnaburgs, of 85 percent or more spun yarns (finished	1	x	П	П	2	D	П	D
Finished manmade fiber broadwoven fabrics, other plain weave fabrics (except pile), including lawns, voiles, and batistes, of 85 percent or more						_		
\$	2	х	D	D	N	x	x	Ν
more spun yarns (finished in weaving mills) \$mil fin sq yd	3	х	D	D	8	150.8	149.2	322 703
sateen fabrics, of 85 percent or more spun yarns (finished in weaving mills)	3	x	9.9	10 616	2	D	П	D
Finished manmade fiber broadwoven fabrics, weaves other than plain, twill, sateen, and pile, of 85 percent or		X	0.0	10 010	2	U	D	b
mills) \$mil fin sq yd Finished manmade fiber broadwoven pile fabrics, including velvets, plushes, and corduroys, of 85 percent or more	5	Х	S	152 123	4	134.5	133.7	180 933
S	8	х	q48.3	168 983	5	19.9	19.9	49 245
weaving mills) \$	3	х	٩12.7	10 282	3	D	D	D 145 888
	Manmade fiber broadwoven fabrics, combinations of spun and filament yams (except wool blends), each less than 85 percent of total fiber content (gray goods) @ -Con. Manmade fiber broadwoven fabrics, combinations of spun and filament yams (except wool blends), each less than 85 percent of total fiber content (gray goods). 	Product companies with shipments of \$100,000 Broadwoven fabrics—Con. Mammade fiber broadwoven fabrics, combinations of plan and filament percent of total fiber content (gray goods) @—Con. N Mammade fiber broadwoven fabrics, combinations of spun yam and filament yams (except wool blends) each less than 85 percent of total fiber content (gray goods). N Mammade fiber broadwoven fabrics, combinations of spun yam and filament yams (except wool blends) each less than 85 percent of total fiber content (gray goods). N Other broadwoven fabrics of combinations of spun and filament yams (except wool blends), each less than 85 percent of total fiber content (gray goods). N Other broadwoven fabrics of mammade fibers including pile; and broadwoven fabrics of silk and natural fibers (except cotton) (gray goods). N Other broadwoven fabrics of mammade fibers including pile; and broadwoven pile fabrics (gray goods). N N Mammade fiber and silk broadwoven fabrics of silk and natural fibers (except cotton) (gray goods). N N Other broadwoven fabrics of mammade fibers including pile; and broadwoven fabrics of silk and natural fibers (except cotton) (gray goods). N Finished mammade fiber and silk broadwoven fabrics of mammade fibers including pile; and broadwoven fabrics of silk and natural fibers (except cotton) (gray goods). N Finished mammade fiber totadwoven fabrics of silk and natural fibers (except cotton) (gray goods	Product comparise shipments of production or more comparise by purposes Broadwoven fabrics - Con. Marmade fiber broadwoven fabrics. Combinations of spun and filement years or more upper state percent of total fiber content (gray goods) e [®] - Con. N Marmade fiber broadwoven fabrics. combinations of spun and filement yams (except wool blends), each less than 85 percent of total fiber content (gray goods). N X Other broadwoven fabrics of marmade fibers including pile; and broadwoven tabrics of skin and filement yams (except wool blends), each less than 85 percent of total fiber content (gray goods). N X Other broadwoven fabrics of marmade fibers including pile; and broadwoven tabrics of skin and natural fibers content (gray goods). N X Other broadwoven fabrics of marmade fibers including pile; and broadwoven pile fabrics (gray goods). N X Other broadwoven fabrics of marmade fibers including pile; and broadwoven tabrics of skin and natural fibers (except cotton) (gray goods). N X Other broadwoven fabrics of marmade fibers including pile; and broadwoven tabrics of skin and antical fibers (except cotton) (gray goods). N X Other broadwoven fabrics of marmade fibers including pile; and broadwoven tabrics of skin and antical fibers (except cotton) (gray goods), insk. N X Finished marmade fiber and sik broadwoven fabrics of marmade fibers including pile; and broa	Product comparises signments or more purposes Quantity or more purposes Broadwoven fabrics	Product comparison structure (structure) Comparison (structure) Comparison (structure)	Product companies prime companies prime <thcompanies prime companies prime<td>Product comparison stream comparison production comparison pr</td><td>Product comparing environment production constitution production constitution production constitution production constitution production Broadwore fabrics Cox. Image: Constitution of the production of the production production of the production of the production</td></thcompanies 	Product comparison stream comparison production comparison pr	Product comparing environment production constitution production constitution production constitution production constitution production Broadwore fabrics Cox. Image: Constitution of the production of the production production of the production

See footnotes at end of table.

MANUFACTURING-INDUSTRY SERIES

Products Statistics: 1997 and 1992-Con. Table 6a.

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

33210 Broadworm fabricsCo. 313210F Finded manuals flor and sik manualsCo. N X X 154 563 N X 312100F Finded manuals flor and sik manuals flor and sik manuals flor and sik finded in wearing mild. N X X D N X 312100F Finded manuals flor and sik manuals flor and sik finded in wearing mild. N X X D N X 312100F Finded manuals flor and sik finded in wearing mild. N X X				19	997			19	1992		
Discrete interview Product Additionality of bit more in purpose County of County of purpose County o	NAICS				Product	shipments			Product	shipments	
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status wearing mills mark N X X D N X X 313210600 Sinests and slik exalls products (except sheets and slik exalls products (except sheets and plikwcases) (made in weaving mills) 1 X X D 3 X X 31321071 Fabricated marmade fiber and slik textile products (except sheets and plikwcases) (made in weaving mills) N X X D N X X 31321071 Fabricated marmade fiber and slik textile products (except sheets and plikwcases) (made in weaving mills) N X X D N X X 313210711 Bestgraded, clifely marmade fibers or and usik (made in weaving mills) N X X 147 712 N X X 3132107110 Summare fiber and slik textile products (except sheets and plast textile products (except sheets and products (except s	313210Q0	mills)	N	х	х	D	N	x	х	D	
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or more wool (made in weaving mills)6XX79 316NXX313210WBroadwoven fabrics, nsk, totalNXNX528 944NXX313210WYBroadwoven fabrics, nsk, totalNXX528 944NXX313210WYWWBroadwoven fabrics, nsk, totalNXX528 944NXX313210WYWWBroadwoven fabrics, nsk, for nonadministrative-record establishmentsNXX325 692NXX		more wool (made in weaving mills)	N	x	х	79 316	N	x	x	Ν	
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313210WYWW Broadwoven fabrics, nsk, for nonadministrative-record establishments										N	
		Broadwoven fabrics, nsk, for nonadministrative-record								N	
313210WYWY Broadwoven tabrics, nsk, tor administrative-record establishments	313210WYWY	Broadwoven fabrics, nsk, for								N	

Additional information is available for this item; see Appendix F. @ Additional data are available for these codes at the aggregate U.S. level in the Current Industrial Report (CIR) series; see Appendix F for the CIR survey number and title. \$ This product is primary to more than one industry; see Appendix F for a listing of the related product codes.

Note: For some establishments, data have been estimated from central unit values which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: ^p 10 to 19 percent estimated; ^q 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Table 6b. Product Class Shipments for Selected States: 1997 and 1992

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 1997. For meaning of abbreviations and symbols, see introductory text. For explanations of terms, see appendixes]

NAICS product class	Product class and geographic area	Value of product shipments (\$1,000)			
code		1997	19		
132101	COTTON BROADWOVEN PLAIN WEAVE FABRICS (EXCEPT PILE) (GRAY GOODS) @				
	United States	972 249	941 4		
	Alabama	163 203	94 4		
	California Georgia	9 783 124 516	248 1		
	North Carolina	36 301	96 9		
	South Carolina	529 931	410 8		
132103	COTTON BROADWOVEN TWILL WEAVE FABRICS (EXCEPT PILE) (GRAY GOODS) @ United States	2 000 932	1 381 6		
	Georgia	398 775	290 8		
	South Carolina	664 057	407 8		
	Texas	128 021			
132105	COTTON BROADWOVEN FABRICS, WEAVES OTHER THAN PLAIN, TWILL, OR PILE (GRAY GOODS) @				
	United States	427 214	535		
	Georgia	57 994 168 026	77 - 188 -		
	Pennsylvania	79 757	28		
	South Carolina	46 575	88 2		
132107	COTTON BROADWOVEN PILE FABRICS (GRAY GOODS) @				
	United States	375 689	300		
	South Carolina	74 211			
122100	FINISHED COTTON BROADWOVEN FABRICS (FINISHED IN WEAVING MILLS)				
132109		074 700	1 253		
	United States	874 786			
	Georgia Michigan	334 827 5 438	409		
	North Carolina	294 629	448 (
13210B	COTTON TOWELS AND WASHCLOTHS (MADE IN WEAVING MILLS)				
02102	United States	685 656	731		
	United States	005 050	751 0		
13210C	FABRICATED COTTON TEXTILE PRODUCTS (EXCEPT TOWELS AND WASHCLOTHS) (MADE IN WEAVING MILLS) United States	505 677	497 6		
13210E	MANMADE FIBER BROADWOVEN FABRICS OF 85 PERCENT OR MORE FILAMENT YARNS, CHIEFLY RAYON, ACETATE, AND-OR LYOCELL (GRAY GOODS) @				
	United States	538 652	639 (
	North Carolina Pennsylvania	52 688 68 437	90 21		
	South Carolina	105 629	135		
	Virginia	118 536	239		
13210G	MANMADE FIBER BROADWOVEN FABRICS OF 85 PERCENT OR MORE FILAMENT YARNS (EXCEPT RAYON, ACETATE, AND-OR LYOCELL) (GRAY GOODS) @				
	United States	3 167 653	2 222 1		
	Georgia	981 284	610 9		
	New York	54 070 500 973	35 384		
	Pennsylvania	144 828 852 562	107 618		
	South Carolina	306 250	251		
13210H	MANMADE FIBER BROADWOVEN PLAIN WEAVE FABRICS, OF 85 PERCENT OR MORE SPUN YARNS (EXCEPT PILE), EXCLUDING WOOL BLENDS (GRAY GOODS) @				
	United States	1 162 434	1 952		
	Georgia	100 750	158		
	North Carolina	120 210 758 788	334 (1 178 4		
	MANMADE FIBER BROADWOVEN TWILL WEAVE FABRICS, OF 85 PERCENT OR MORE	730 700	1 176		
I3210J					
I3210J	SPUN YARNS (EXCEPT PILE), EXCLUDING WOOL BLENDS (GRAY GOODS) @	198 999	301		
13210J	SPUN YARNS (EXCEPT PILE), EXCLUDING WOOL BLENDS (GRAY GOODS) @ United States		301 7		
13210J	SPUN YARNS (EXCEPT PILE), EXCLUDING WOOL BLENDS (GRAY GOODS) @ United States	15 758 23 285	29 :		
	SPUN YARNS (EXCEPT PILE), EXCLUDING WOOL BLENDS (GRAY GOODS) @ United States Alabama North Carolina South Carolina MANMADE FIBER BROADWOVEN FABRICS, OF WEAVES OTHER THAN PLAIN, TWILL,	15 758	29 :		
	SPUN YARNS (EXCEPT PILE), EXCLUDING WOOL BLENDS (GRAY GOODS) @ United States Alabama North Carolina South Carolina	15 758 23 285	29		
	SPUN YARNS (EXCEPT PILE), EXCLUDING WOOL BLENDS (GRAY GOODS) @ United States	15 758 23 285	29 2 232 (
13210J 13210L	SPUN YARNS (EXCEPT PILE), EXCLUDING WOOL BLENDS (GRAY GOODS) @ United States	15 758 23 285 101 607 710 479 69 804	29 2 232 (359 4 23 2		
	SPUN YARNS (EXCEPT PILE), EXCLUDING WOOL BLENDS (GRAY GOODS) @ United States Alabama North Carolina South Carolina MANMADE FIBER BROADWOVEN FABRICS, OF WEAVES OTHER THAN PLAIN, TWILL, AND PILE, OF 85 PERCENT OR MORE SPUN YARN, EXCLUDING WOOL BLENDS (GRAY GOODS) @ United States	15 758 23 285 101 607 710 479	29 232 3 59		

See footnotes at end of table.

MANUFACTURING-INDUSTRY SERIES

Table 6b. Product Class Shipments for Selected States: 1997 and 1992-Con.

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 1997. For meaning of abbreviations and symbols, see introductory text. For explanations of terms, see appendixes]

NAICS product class	Product class and geographic area	Value of product shipments (\$1,000)			
code		1997	1992		
313210M	MANMADE FIBER BROADWOVEN FABRICS, COMBINATIONS OF SPUN AND FILAMENT YARNS (EXCEPT WOOL BLENDS), EACH LESS THAN 85 PERCENT OF TOTAL FIBER CONTENT (GRAY GOODS) @				
	United States	1 497 959	1 009 332		
	Georgia . North Carolina . Pennsylvania . South Carolina . Virginia .	172 994 322 924 22 793 377 127 134 532	N 358 989 56 427 242 142 N		
313210N	OTHER BROADWOVEN FABRICS OF MANMADE FIBERS INCLUDING PILE; AND BROADWOVEN FABRICS OF SILK AND NATURAL FIBERS (EXCEPT COTTON) (GRAY GOODS) @				
	United States	375 539	N		
	North Carolina	225 031 52 132	N N		
313210P	FINISHED MANMADE FIBER AND SILK BROADWOVEN FABRICS (FINISHED IN WEAVING MILLS)				
	United States	1 789 850	1 290 996		
	Georgia . Massachusetts . North Carolina . South Carolina . Virginia .	98 912 30 191 818 572 261 141 245 004	133 434 N 308 235 220 874 215 232		
313210Q	SHEETS AND PILLOWCASES, WHOLLY OR CHIEFLY MANMADE FIBERS AND SILK (MADE IN WEAVING MILLS)				
	United States	D	D		
313210R	FABRICATED MANMADE FIBER AND SILK TEXTILE PRODUCTS (EXCEPT SHEETS AND PILLOWCASES) (MADE IN WEAVING MILLS)				
	United States	D	D		
	North Carolina	48 083	N		
313210T	WOOL BROADWOVEN FABRICS (GRAY GOODS) @				
	United States	258 345	393 320		
	Pennsylvania	7 139	7 106		
313210U	FINISHED BROADWOVEN WOOL FABRICS AND FELTS (FINISHED IN WEAVING MILL)				
	United States	682 535	N		
	New Hampshire	67 599	N		
313210V	FABRICATED TEXTILE PRODUCTS, 36 PERCENT OR MORE WOOL (MADE IN WEAVING MILLS)				
	United States	79 316	D		

Additional information is available for this item; see Appendix F. @ Additional data are available for these codes at the aggregate U.S. level in the Current Industrial Report (CIR) series; see Appendix F for the CIR survey number and title. \$ This product is primary to more than one industry; see Appendix F for a listing of the related product codes.

Table 7. Materials Consumed by Kind: 1997 and 1992

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

NAICS		19	97	19	92
material code	Material consumed	Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
313210	BROADWOVEN FABRIC MILLS				
11192001 11200000 31499905 32522105 32522215	Raw cotton fibers 1,000 bales. Raw wool, mohair, and other animal fibers (scoured weight) mil b. Wool tops mil b. Rayon and acetate staple and tow mil b. Nylon staple and tow mil b.	4 164.1 73.9 D 110.8 P15.4	1 685 115 162 041 D 175 863 22 402	N N N N N N N N	N N N N N
32522223 32522227 00999829 32522101 32522211	Polyester staple and tow mil lb. All other manmade fiber staple and tow (except glass) mil lb. All other fibers (silk, jute, reused wool, waste, etc.) mil lb. Rayon, acetate, and/or lyocell filament yarns mil lb. Nylon filament yarns mil lb.	656.5 S D 140.1 P168.0	416 526 163 543 D 282 724 480 792		N N N N N
32522221 32522203 32721207 31311101 31321027	Polyester filament yarns mil lb. All other filament yarns, except glass mil lb. Glass filament yarn and roving mil lb. Spun yarn, all fibers mil lb. Broadwoven fabrics mil sq.	499.1 231.7 S 1 049.8 S	869 292 421 975 306 883 1 890 047 737 912	N N N N N	N N N N N

See footnotes at end of table.

Table 7. Materials Consumed by Kind: 1997 and 1992-Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

NAICS		1997 Quantity Delivered cost (\$1,000)		1992	
material code	Material consumed			Quantity	Delivered cost (\$1,000)
313210	BROADWOVEN FABRIC MILLS-Con.				
32513003 00970099 00971000	Dyes, lakes, and toners	X X X	231 746 1 316 849 380 013	X X X	N N N

Additional information is available for this item; see Appendix F.

Note: For some establishments, data have been estimated from central unit values which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: ^p 10 to 19 percent estimated; ^q 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Appendix A. Explanation of Terms

BEGINNING- AND END-OF-YEAR INVENTORIES

Respondents were asked to report their beginning-ofyear and end-of-year inventories at cost or market. Effective with the 1982 Economic Census, this change to a uniform instruction for reporting inventories was introduced for all sector reports. Prior to 1982, respondents were permitted to value inventories using any generally accepted accounting method (FIFO, LIFO, market, to name a few). Beginning in 1982, LIFO users were asked to first report inventory values prior to the LIFO adjustment and then to report the LIFO reserve and the LIFO value after adjustment for the reserve.

Inventory Data by Stage of Fabrication

Total inventories and three detailed components (1) finished goods, (2) work-in-process, and (3) materials, supplies, fuels, etc., were collected.

When using inventory data by stage of fabrication for "all industries" and at the three-digit subsector level, it should be noted that an item treated as a finished product by an establishment in one industry may be reported as a raw material by an establishment in a different industry. For example, the finished-product inventories of a steel mill would be reported as raw materials by a stamping plant. Such differences are present in the inventory figures by stage of fabrication shown for all publication levels.

COST OF MATERIALS

This term refers to direct charges actually paid or payable for items consumed or put into production during the year, including freight charges and other direct charges incurred by the establishment in acquiring these materials. It includes the cost of materials or fuel consumed, whether purchased by the individual establishment from other companies, transferred to it from other establishments of the same company, or withdrawn from inventory during the year.

Included in this item are:

- 1. Cost of parts, components, containers, etc.—Includes all raw materials, semifinished goods, parts, containers, scrap, and supplies put into production or used as operating supplies and for repair and maintenance during the year.
- 2. Cost of products bought and sold in the same condition.

- 3. Cost of fuels consumed for heat and power—Includes the cost of materials or fuel consumed, whether purchased by the individual establishment from other companies, transferred to it from other establishments of the same company, or withdrawn from inventory during the year.
- 4. Cost of purchased electricity—The cost of purchased electric energy represents the amount actually used during the year for heat and power. In addition, information was collected on the quantity of electric energy generated by the establishment and the quantity of electric energy sold or transferred to other plants of the same company.
- 5. Cost of contract work—This term applies to work done by others on materials furnished by the manufacturing establishment. The actual cost of the material is to be reported on the cost of materials, parts, and containers line of this item. The term "Contract Work" refers to the fee a company pays to another company to perform a service.

Specific Materials Consumed

In addition to the total cost of materials, which every establishment was required to report, information also was collected for most manufacturing industries on the consumption of major materials used in manufacturing. The inquiries were restricted to those materials which were important parts of the cost of production in a particular industry and for which cost information was available from manufacturers' records. If less than \$25,000 of a listed material was consumed by an establishment, the cost data could be reported in the "Cost of all other materials...," Census material code 00970099. Also, the cost of materials for small establishments for which administrative records or short forms were used was imputed into the "Materials not specified by kind," Census materials code 00971000.

Duplication in Cost of Materials and Value of Shipment

The aggregate of the cost of materials and value of shipments figures for industry groups and for all manufacturing industries includes large amounts of duplication since the products of some industries are used as materials by others. This duplication results, in part, from the addition of related industries representing successive

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stages in the production of a finished manufactured product. Examples are the addition of flour mills to bakeries in the food group and the addition of pulp mills to paper mills in the paper and allied products group of industries. 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 survey.

Duplication of products within individual industries is significant within a number of industry groups, e.g., machinery and transportation industries. These industries frequently include complete machinery and their parts. In this case, the parts made for original equipment are materials consumed for assembly plants in the same industry.

Even when no significant amount of duplication is involved, value of shipments figures are deficient as measures of the relative economic importance of individual manufacturing industries or geographic areas because of the wide variation in ratio of materials, labor, and other processing costs of value of shipments, both among industries and within the same industry.

Before 1962, cost of materials and value of shipments were not published for some industries which included considerable duplication. Since then, these data have been published for all industries at the U.S. level and beginning in 1964, for all geographic levels.

COST OF PURCHASED SERVICES

Annual Survey of Manufactures (ASM) establishments were requested to provide information on the cost of purchased services for the repair of buildings and other structures, the repair of machinery, communication services, legal services, accounting and bookkeeping services, advertising, software and other data processing services, and refuse removal. Each of these items reflects the costs paid directly by the establishment and excludes salaries paid to employees of the establishment for these services.

Included in the cost of purchased services for the repair of buildings and machinery are payments made for all maintenance and repair work on buildings and equipment. Payments made to other establishments of the same company and for repair and maintenance of any leased property also are included. Extensive repairs or reconstruction that was capitalized is considered capital expenditures and is, therefore, excluded from this item. Repair and maintenance costs provided by an owner as part of a rental contract or incurred directly by an establishment in using its own work force also are excluded.

Included in the cost of purchased advertising services are payments for printing, media coverage, and other advertising services and materials.

Included in the cost of purchased software and other data processing services are all purchases by the establishment from other companies. Excluded are services provided by other establishments of the same company (such as by a separate data processing unit). Included in the cost of purchased refuse removal services are all costs of refuse removal services paid by the establishment, including costs for hazardous waste removal or treatment. Excluded are all costs included in rental payments or as capital expenditures.

Response Coverage Ratio

A response coverage ratio is a measure of the extent to which respondents report for an item. The estimate is made by calculating the ratio value of the weighted total employment data for all the ASM establishments that report the item to the weighted total employment data for all ASM establishments classified in an industry (reporters and non-reporters).

DEPRECIATION CHARGES FOR FIXED ASSETS

This item includes depreciation and amortization charged during the year against assets. Depreciation charged against fixed assets acquired since the beginning of the year and against assets sold or retired during the year are components of this category. Respondents were requested to make certain that they did not report accumulated depreciation.

EMPLOYEES

This item includes all full-time and part-time employees on the payrolls of operating manufacturing establishments during any part of the pay period which included the 12th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded. The "all employees" number is the average number of production workers plus the number of other employees in mid-March. The number of production workers is the average for the payroll periods including the 12th of March, May, August, and November.

Production Workers

This item includes workers (up through the linesupervisor level) engaged in fabricating, processing, assembling, inspecting, receiving, storing, handling, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial and guard services, product development, auxiliary production for plant's own use (e.g., power plant), recordkeeping, and other services closely associated with these production operations at the establishment covered by the report. Employees above the working-supervisor level are excluded from this item.

All Other Employees

This item covers nonproduction employees of the manufacturing establishment including those engaged in factory supervision above the line-supervisor level. It includes sales (including driver-salespersons), 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 employees. Also included are employees on the payroll of the manufacturing establishment engaged in the construction of major additions or alterations utilized as a separate work force.

FRINGE BENEFITS

Fringe benefits are divided into legally required expenditures and payments for voluntary programs. The legally required portion consists primarily of Federal old age and survivors' insurance, unemployment compensation, and workers' compensation. Payments for voluntary programs include all programs not specifically required by legislation whether they were employer initiated or the result of collective bargaining. They include the employer portion of such plans as insurance premiums, premiums for supplemental accident and sickness insurance, pension plans, supplemental unemployment compensation, welfare plans, stock purchase plans on which the employer payment is not subject to withholding tax, and deferred profit-sharing plans. They exclude such items as companyoperated cafeterias, in-plant medical services, free parking lots, discounts on employee purchases, and uniforms and work clothing for employees.

GROSS BOOK VALUE OF DEPRECIABLE ASSETS AT BEGINNING OF YEAR (BOY) AND END OF YEAR (EOY)

Total value of depreciable assets is collected on all census forms. It shows the value of depreciable assets for the beginning of year and end of year. The data encompass all fixed depreciable assets on the books of establishments. The values shown (book value) represent the actual cost of assets at the time they were acquired, including all costs incurred in making the assets usable (such as transportation and installation). Included are all buildings, structures, machinery, and equipment (production, office, and transportation equipment) for which depreciation reserves are maintained. Excluded are nondepreciable capital assets including inventories and intangible assets, such as timber and mineral rights.

The definition of fixed depreciable assets is consistent with the definition of capital expenditures. For example, expenditures include actual capital outlays during the year rather than the final value of equipment put in place and buildings completed during the year. Accordingly, the value of assets at the end of the year includes the value of construction in progress.

In addition, respondents were requested to make certain that assets at the beginning of the year plus capital expenditures, less retirements, equaled assets at the end of the year.

NUMBER OF ESTABLISHMENTS AND COMPANIES

A separate report was required for each manufacturing establishment (plant) with one employee or more. An establishment is defined as a single physical location where manufacturing is performed. A company, on the other hand, is defined as a business organization consisting of one establishment or more under common ownership or control.

If the company operated at different physical locations, even if the individual locations were producing the same line of goods, a separate report was requested for each location. If the company operated in two or more distinct lines of manufacturing at the same location, a separate report was requested for each activity.

An establishment not in operation for any portion of the year was requested to return the report form with the proper notation in the "Operational Status" section of the form. In addition, the establishment was requested to report data on any employees, capital expenditures, inventories, or shipments from inventories during the year.

PAYROLL

This item includes the gross earnings of all employees on the payrolls of operating manufacturing establishments paid in the calendar year. Respondents were told they could follow the definition of payrolls used for calculating the Federal withholding tax. It includes all forms of compensation, such as salaries, wages, commissions, dismissal pay, bonuses, vacation and sick leave pay, and compensation in kind, prior to such deductions as employees' social security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of corporations; it excludes payments to proprietors or partners of unincorporated concerns. Also excluded are payments to members of Armed Forces and pensioners carried on the active payrolls of manufacturing establishments.

The census definition of payrolls is identical to that recommended to all Federal statistical agencies by the Office of Management and Budget. It should be noted that this definition does not include employers' social security contributions or other nonpayroll labor costs, such as employees' pension plans, group insurance premiums, and workers' compensation.

The ASM provides estimates of employers' total supplemental labor costs (those required by Federal and state laws and those incurred voluntarily or as part of collective bargaining agreements).

PRODUCT CODES AND CLASSES OF PRODUCTS

NAICS United States industries are identified by a sixdigit code, in contrast to the four-digit SIC code. The longer code accommodates the large number of sectors and allows more flexibility in designing subsectors. Each

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product or service is assigned a ten-digit code. The product coding structure represents an extension by the Census Bureau of the six-digit industry classifications of the manufacturing and mining sectors. The classification system operates so that the industrial coverage is progressively narrower with the successive addition of digits. This is illustrated as follows:

NAICS level	NAICS code	Description
	NAICO COUE	Description
Industry	33461	Manufacturing and reproduction of magnetic and optical media
U.S. industry	334612	Reproduction of software
Product class	3346120	Prerecorded compact disc (except software), tape, and record repro- ducing
BLS link code	3346120X	
Product code	3346120XXX	

As in previous censuses, data were collected for most industries on the quantity and value of individual products shipped. In the 1997 census program, information was collected on the output of almost 10,000 individual product items.

In the new system, there are about 1,500 product classes (seven-digit codes), about 6,000 census products (ten-digit codes), and an additional 3,700 CIR products (ten-digit codes). The ten-digit products are considered the primary products of the industry with the same first six digits.

The list of products for which separate information was collected was prepared after consultation with industry and government representatives. Comparability with previous figures was given considerable weight in the selection of product categories so that comparable 1992 information is presented for most products.

Typically, both quantity and value of shipments information were collected. However, if quantity was not significant or could not be reported by manufacturers, only value of shipments was collected.

Shipments include both commercial shipments and transfers of products to other plants of the same company. For industries in which a considerable portion of the total shipments is transferred to other plants of the same company, separate information on interplant transfers also was collected. Moreover, for products that are used to a large degree within the same establishment as materials or components in the fabrication of other products, total production and often consumption of the item within the plant (quantity produced and consumed) was collected. Typically, the information on production also was collected for products for which there are significant differences between total production and shipments in a given year because of wide fluctuations in finished goods inventories. Other measures of output of products with long production cycles were used as appropriate and feasible.

PRIMARY PRODUCT CLASS CODE

This file presents selected statistics for establishments according to their degree of specialization in products primary to their industry. This field contains either the sixdigit North American Industrial Classification System (NAICS) industry code corresponding to all establishments in the industry, or the seven-digit NAICS product class code for all establishments within the industry that are specialized in a particular product class. Product class specialization is determined by evaluating the ratio of the largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment.

PRODUCTION-WORKER HOURS

This item covers 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.

QUANTITY OF ELECTRIC ENERGY CONSUMED FOR HEAT AND POWER

Data on the cost of purchased electric energy were collected on all census forms. However, data on the quantity of purchased electric energy were collected only on the Annual Survey of Manufactures (ASM) form. In addition, information is collected on the quantity of electric energy generated by the establishment and the quantity of electric energy sold or transferred to other plants of the same company.

RENTAL PAYMENTS

Total rental payments are collected on all census forms. However, the breakdown between rental payments for buildings and other structures and rental payments for machinery and equipment is collected only on the ASM forms. This item includes rental payments for the use of all items for which depreciation reserves would be maintained if they were owned by the establishment, e.g., structures and buildings, and production, office, and transportation equipment. Excluded are royalties and other payments for the use of intangibles and depletable assets and land rents where separable.

When an establishment of a multiestablishment company was charged rent by another part of the same company for the use of assets owned by the company, it was instructed to exclude that cost from rental payments. However, the book value (original cost) of these companyowned assets was to be reported as assets of the establishment at the end of the year.

If there were assets at an establishment rented from another company and the rents were paid centrally by the head office of the establishment, the company was instructed to report these rental payments as if they were paid directly by the establishment.

RETIREMENTS OF DEPRECIABLE ASSETS

Included in this item is the gross value of assets sold, retired, scrapped, destroyed, etc., during the calendar year. When a complete operation or establishment changed ownership, the respondent was instructed to report the value of the assets sold at the original cost as recorded in the books of the seller. The respondent also was requested to report retirements of equipment or structures owned by a parent company that the establishment was using as if it were a tenant.

TOTAL CAPITAL EXPENDITURES (NEW AND USED)

For establishments in operation and any known plants under construction, manufacturers were asked to report their new and used expenditures for (1) permanent additions and major alterations to manufacturing establishments and (2) machinery and equipment used for replacement and additions to plant capacity if they were of the type for which depreciation accounts were ordinarily maintained.

Totals for expenditures include the costs of assets leased from nonmanufacturing concerns through capital leases. 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 nonprofit organizations are excluded. Also excluded are expenditures for land and cost of maintenance and repairs charged as current operating expenses.

For any equipment or structure transferred for the use of the reporting establishment by the parent company or one of its subsidiaries, the value at which it was transferred to the establishment was to be reported. If an establishment changed ownership during the year, the cost of the fixed assets (building and equipment) was to be reported.

VALUE ADDED

This measure of manufacturing activity is derived by subtracting the cost of materials, supplies, containers, fuel, purchased electricity, and contract work from the value of shipments (products manufactured plus receipts for services rendered). The result of this calculation is adjusted by the addition of value added by merchandising operations (i.e., the difference between the sales value and the cost of merchandise sold without further manufacture, processing, or assembly) plus the net change in finished goods and work-in-process between the beginningand end-of-year inventories.

For those industries where value of production is collected instead of value of shipments, value added is adjusted only for the change in work-in-process inventories between the beginning and end of year. For those industries where value of work done is collected, the value added does not include an adjustment for the change in finished goods or work-in-process inventories.

"Value added" avoids the duplication in the figure for value of shipments that results from the use of products of some establishments as materials by others. Value added is considered to be the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

VALUE OF SHIPMENTS

This item covers the received or receivable net selling values, f.o.b. plant (exclusive of freight and taxes), of all products shipped, both primary and secondary, as well as all miscellaneous receipts, such as receipts for contract work performed for others, installation and repair, sales of scrap, and sales of products bought and sold without further processing. Included are all items made by or for the establishments from material owned by it, whether sold, transferred to other plants of the same company, or shipped on consignment. The net selling value of products made in one plant on a contract basis from materials owned by another was reported by the plant providing the materials.

In the case of multiunit companies, the manufacturer was requested to report the value of products transferred to other establishments of the same company at full economic or commercial value, including not only the direct cost of production but also a reasonable proportion of "all other costs" (including company overhead) and profit.

In addition to the value for NAICS defined products, aggregates of the following categories of miscellaneous receipts are reported as part of a total establishment's value of product shipments:

- 1. Reported contract work—Receipts for work or services that a plant performed for others on their materials.
- 2. Value of resales—Sales of products brought and sold without further manufacture, processing, or assembly.
- 3. Other miscellaneous receipts—Such as repair work, installation, sales of scrap, etc.

Industry primary product value of shipments represents one of the three components of value of shipments. These components are:

- 1. Primary products value of shipments.
- 2. Secondary product value of shipments.
- 3. Total miscellaneous receipts.

Primary product shipments is used in the calculations of industry specialization ratio and industry coverage ratio. The term "Value of primary products shipments made in this industry" is used in this publication and refers to the same data.

Duplication in Cost of Materials and Value of Shipment

The aggregate of the cost of materials and value of shipments figures for industry groups and for all manufacturing industries includes large amounts of duplication since the products of some industries are used as materials by others. This duplication results, in part, from the addition of related industries representing successive stages in the production of a finished manufactured product. Examples are the addition of flour mills to bakeries in the food group and the addition of pulp mills to paper mills in the paper and allied products group of industries. 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 annual survey.

Duplication of products within individual industries is significant within a number of industry groups, e.g., machinery and transportation industries. These industries frequently include complete machinery and their parts. In this case, the parts made for original equipment are materials consumed for assembly plants in the same industry.

Even when no significant amount of duplication is involved, value of shipments figures are deficient as measures of the relative economic importance of individual manufacturing industries or geographic areas because of the wide variation in ratio of materials, labor, and other processing costs of value of shipments, both among industries and within the same industry. Before 1962, cost of materials and value of shipments were not published for some industries which included considerable duplication. Since then, these data have been published for all industries at the U.S. level and beginning in 1964, for all geographic levels.

Specialization and Coverage Ratios

These items are not collected on the report forms but are derived from the data shown in Table 3. An establishment is classified in a particular industry if its shipments of primary products of that industry exceed in value its shipments of the products of any other single industry.

An establishment's shipments include those products assigned to an industry (primary products), those considered primary to other industries (secondary products), and receipts for miscellaneous activities (merchandising, contract work, resales, etc.). Specialization and coverage ratios have been developed to measure the relationship of primary product shipments to the data on shipments for the industry shown in Tables 1a through 5 and data on product shipments shown in Tables 6a and 6b.

Specialization ratio represents the ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for the establishments classified in the industry.

Coverage ratio represents the ratio of primary products shipped by the establishments classified in the industry to the total shipments of such products that are shipped by all manufacturing establishments wherever classified.

Appendix B. NAICS Codes, Titles, and Descriptions

313210 BROADWOVEN FABRIC MILLS

This U.S. industry comprises establishments primarily engaged in weaving broadwoven fabrics and felts (except tire fabrics and rugs). Establishments in this industry may weave only, weave and finish, or weave, finish, and further fabricate fabric products. The data published with NAICS code 313210 include the following SIC industries:

2211 Weaving mills, cotton

2221 Weaving mills, synthetics

2231 Weaving and finishing mills, wool (pt)

2299 Textile goods, n.e.c. (pt)

Appendix C. Coverage and Methodology

MAIL/NONMAIL UNIVERSE

The manufacturing universe includes about 400,000 establishments. This number includes those industries in the North American Industry Classification System (NAICS) definition of manufacturing, but not those industries leaving the manufacturing sector in the classification change. The amounts of information requested from manufacturing establishments were dependent upon a number of factors. The more important considerations were the size of the company and whether it was included in the annual survey of manufactures (ASM). The methods of obtaining information for the various subsets of the universe to arrive at the aggregate figures shown in the publication are described below:

1. Small single-establishment companies not sent a report form.

Approximately 40 percent of the manufacturing establishments were small single-establishment companies that were excused from filing a census report. Selection of these establishments was based on two factors: annual payroll and our ability to assign the correct six-digit NAICS industry classification to the establishment. For each four-digit Standard Industrial Classification (SIC) industry code, an annual payroll cutoff was determined. These cutoffs were derived so that the establishments with payroll less than the cutoff were expected to account for no more than 3 percent of the value of shipments for the industry. Generally, all single-establishment companies with less than 5 employees were excused, while all establishments with more than 20 employees were mailed forms. Establishments below the cutoff that could not be directly assigned a six-digit NAICS code were mailed a classification report which requested information for assigning NAICS industry codes. Establishments below the cutoff that could be directly assigned a six-digit NAICS code were excused from filing any report. For below cutoff establishments, information on the physical location, payroll, and receipts was obtained from the administrative records of other Federal agencies under special arrangements that safeguarded their confidentiality.

Estimates of data for these small establishments were developed using industry averages in conjunction with the administrative information. The value of shipments and cost of materials were not distributed among specific products and materials for these establishments but were included in the product and material "not specified by kind" (nsk) categories.

The industry classification codes included in the administrative-record files were assigned on the basis of brief descriptions of the general activity of the establishment. As a result, an indeterminate number of establishments were erroneously coded to a fourdigit SIC industry and then erroneously re-coded to a six-digit NAICS industry. This was especially true whenever there was a relatively fine line of demarcation between industries or between manufacturing and nonmanufacturing activity.

Sometimes the administrative-record cases had only two- or three-digit SIC group classification codes available in the files. For the 1997 Economic Census – Manufacturing, these establishments were sent a separate classification form, which requested information on the products and services of the establishment. This form was used to code many of these establishments to the appropriate six-digit NAICS level. Establishments that did not return the classification form were coded later to those six-digit NAICS industries identified as "All other" industries within the given subsector.

As a result of these situations, a number of small establishments may have been misclassified by industry. However, such possible misclassification has no significant effect on the statistics other than on the number of companies and establishments.

The total establishment count for individual industries should be viewed as an approximation rather than a precise measurement. The counts for establishments with 20 employees or more are far more reliable than the count of total number of establishments.

2. Establishments sent a report form.

The establishments covered in the mail canvass were divided into three groups:

a. ASM sample establishments.

This group accounts for approximately 15 percent of all manufacturing establishments. The ASM panel covers all the units of large manufacturing establishments as well as a sample of the medium and smaller establishments. The probability of selection was proportionate to size. For more information, see the Description of the ASM Survey Sample.

In an economic census year, the ASM report form (MA-1000) replaces the first page of the regular census form for those establishments included in the ASM. In addition to information on employment, payroll, and other items normally requested on the regular census form, establishments in the ASM sample were requested to supply additional information on gross book value of assets and capital expenditures. ASM establishments were also requested to provide information on retirements, depreciation, rental payments, and supplemental labor costs. For establishments not included in the ASM, these additional items were estimated using relationships observed in the ASM establishment data. The census statistics for these variables are a sum of the ASM establishment data and the estimated data for non-ASM establishments. ASM establishments were also requested to provide information for selected purchased services. The census statistics for the purchased service items were derived solely from the ASM establishments. See Appendix A, Explanation of Terms for an explanation of these items. The census part of the report form is 1 of 220 versions containing product, material, and special inquiries. The diversity of manufacturing activities necessitated the use of this many forms to canvass the 480 manufacturing industries. Each form was developed for a group of related industries.

Appearing on each form was a list of products primary to the group of related industries as well as secondary products and miscellaneous services that establishments classified in these industries were likely to perform. Respondents were requested to identify the products, the value of each product, and, in many cases, the quantity of the product shipped during the survey year. Space also was provided for the respondent to describe products not specifically identified on the form.

The report form also contained a materialsconsumed inquiry which varied from form to form depending on the industries being canvassed. The respondents were asked to review a list of materials generally used in their production processes. From this list, each establishment was requested to identify those materials consumed during the survey year, the cost of each, and, in certain cases, the quantity consumed. Once again, space was provided for the respondent to describe significant materials not identified on the form.

A wide variety of special inquiries was included to measure activities peculiar to a given industry, such as operations performed and equipment used.

b. Large and medium establishments (non-ASM).

Approximately 30 percent of all manufacturing establishments were included in this group. A variable cutoff, based on administrative-record payroll data and determined on an industry-by-industry basis, was used to select those establishments that were to receive 1 of the 220 economic census – manufacturing regular forms. The first page, requesting establishment data for items such as employment and payroll, was standard but did not contain the detailed statistics included on the ASM form. The product, material, and special inquiry sections supplied were based on the historical industry classification of the establishment.

c. Small single-establishment companies (non-ASM).

This group includes approximately 15 percent of all manufacturing establishments. For those industries where application of the variable cutoff for administrative-record cases resulted in a large number of small establishments being included in the mail canvass, an abbreviated or short form was used. These establishments received 1 of the 31 versions of the short form, which requested summary product and material data and totals but no details on employment, payroll, cost of materials, inventories, and capital expenditures.

Use of the short form has no adverse effect on published totals for the industry statistics because the same data were collected on the short form as on the long form. However, detailed information on products and materials consumed was not collected on the short form; thus, its use would increase the value of the nsk categories.

INDUSTRY CLASSIFICATION OF ESTABLISHMENTS

Each of the establishments covered in the 1997 Economic Census – Manufacturing was classified in 1 of 480 industries (473 manufacturing industries and 7 former manufacturing industries) in accordance with the industry definitions in the 1997 NAICS Manual. This is the first edition of the NAICS Manual and it is a major change from the 1987 SIC Manual that was used previously. Appendix A of the 1997 NAICS Manual notes the comparability between the 1987 SIC and 1997 NAICS classification systems. When applicable, Appendix G of this report shows the product class and product comparability between the two systems for data in this report.

In the NAICS system, an industry is generally defined as a group of establishments that have similar production processes. To the extent practical, the system uses supplybased or production-oriented concepts in defining industries. The resulting group of establishments must be significant in terms of number, value added by manufacture, value of shipments, and number of employees.

The coding system works in such a way that the definitions progressively become narrower with successive additions of numerical digits. In the manufacturing sector for 1997, there are 21 subsectors (three-digit NAICS), 86 industry groups (four-digit NAICS), 184 NAICS industries (five-digit NAICS) that are comparable with Canadian and Mexican classification, and 473 U.S. industries (six-digit NAICS). This represents an expansion of the four-digit SICbased U.S. industries from 459 in 1987. Product classes and products of the manufacturing industries have been assigned codes based on the industry from which they originate. In the new system, there are about 1,500 product classes (seven-digit codes), about 6,000 census products, and an additional 3,700 CIR products (ten-digit codes). The ten-digit products are considered the primary products of the industry with the same first six digits. These counts do not include the seven former manufacturing industries that are included in the 1997 Economic Census – Manufacturing.

For the 1997 Economic Census – Manufacturing, all establishments were classified in particular industries based on the products they produced. If an establishment made products of more than one industry, it was classified in the industry with the largest product value. For 1997, there were no "resistance rules" or "frozen industries."

In ASM years, establishments included in the ASM sample with certainty weights are reclassified by industry only if the change in the primary activity from the prior year is significant or if the change has occurred for 2 successive years. This procedure prevents reclassification when there are minor shifts in product mix.

In ASM years, establishments included in the ASM sample with noncertainty weight are not shifted from one industry classification to another. They are retained in the industry where they were classified in the base census year. However, in the following census year, these ASM plants are allowed to shift from one industry to another.

The results of these rules covering the switching of plants from one industry classification to another are that some industries comprise different mixes of establishments in different survey years. Hence, comparisons between prior-year and current-year published totals, particularly at the six-digit NAICS level, should be viewed with caution. This is particularly true for the comparison between the data shown for a census year versus the data shown for the previous ASM year.

As previously noted, the small establishments that may have been misclassified by industry are usually administrative-record cases whose industry codes were assigned on the basis of incomplete descriptions of the general activity of the establishment. Such possible misclassifications have no significant effect on the statistics other than on the number of companies and establishments. Establishments frequently make products classified both in their industry (primary products) and other industries (secondary products). Industry statistics (employment, payroll, value added by manufacture, value of shipments, etc.) reflect the activities of the establishments which may make both primary and secondary products. Product statistics, however, represent the output of all establishments without regard for the classification of the producing establishment. For this reason, when relating the industry statistics, especially the value of shipments, to the product statistics, the composition of the industry's output should be considered.

The extent to which industry and product statistics may be matched with each other is measured by the primary product specialization ratio and the coverage ratio. The primary product specialization ratio is the proportion of industry shipments accounted for by the primary products of establishments classified in the industry. The coverage ratio is the proportion of product shipments accounted for by establishments classified in the industry.

ESTABLISHMENT BASIS OF REPORTING

The economic census – manufacturing is conducted on an establishment basis. A company operating at more than one location is required to file a separate report for each location or establishment. The ASM also is conducted on an establishment basis, but separate reports are filed for just those establishments selected in the sample. Companies engaged in distinctly different lines of activity at one location are requested to submit separate reports if the plant records permit such a separation and if the activities are substantial in size.

In 1997, as in earlier years, a minimum size limit was set for inclusion of establishments in the census. All establishments employing one person or more at any time during the census year are included. The same size limitation has applied since 1947 in censuses and annual surveys of manufactures. In the 1939 and earlier censuses, establishments with less than \$5,000 value of products were excluded. The change in the minimum size limit in 1947 does not appreciably affect the historical comparability of the census figures except for data on number of establishments for a few industries.

The 1997 Economic Census – Manufacturing excludes data for central administrative offices (CAOs). These would include separately operated administrative offices, warehouses, garages, and other auxiliary units that service manufacturing establishments of the same company. These data are published in a separate report series.

DESCRIPTION OF THE ASM SURVEY SAMPLE

The annual survey of manufactures (ASM) sample is drawn for the second survey year after a census. The most recent sample was drawn for the 1994 survey year based on the 1992 Census of Manufactures. This sample will be in place through the 1998 ASM.

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In 1992, there were approximately 370,000 individual manufacturing establishments. For sample efficiency and cost considerations, the 1992 manufacturing population was partitioned into two components for developing estimates within the ASM; a mail stratum and a nonmail stratum.

Mail stratum. The mail stratum of the survey is comprised of larger single-location manufacturing companies and all manufacturing establishments of multiunit companies (companies that operate at more than one physical location). Approximately 230,000 of the 370,000 establishments in the 1992 census were assigned to the mail stratum. On an annual basis, the mail stratum is supplemented with larger, newly active single-location companies identified from a list provided by the Internal Revenue Service (IRS) and new manufacturing locations of multiunit companies identified from the Census Bureau's Company Organization Survey (COS).

For the 1994 survey, a new sample of approximately 58,000 individual establishments was selected from the mail stratum assembled from the 1992 census. Supplemental samples representing both 1993 and 1994 births (newly active establishments that were not included in the 1992 census) were also selected. Establishments selected for the sample are mailed an ASM survey questionnaire for each year through 1998.

The 1994-98 ASM sample design is similar to the one used since 1984. Companies in the 1992 Census of Manufactures with manufacturing shipments of at least \$500 million were defined as company certainties. For these large companies, each manufacturing establishment is included in the mail sample. For the 1994-98 sample, there are approximately 650 certainty companies collectively accounting for over 18,000 establishments.

For the remaining portion of the mail component of the survey, the establishment was defined as the sample unit. All establishments with 250 employees or more were defined as employment certainties. In addition, all establishments producing products in SIC 3571 (Electronic Computers) were defined as certainties. Across these three arbitrary certainty classes, there were approximately 25,000 establishments included in the sample with certainty. Collectively, these certainty establishments accounted for approximately 80 percent of the total value of shipments in the 1992 Census of Manufactures.

Smaller establishments in the remaining portion of the mail stratum were sampled with probabilities ranging from .02 to 1.00. The initial probabilities of selection assigned to these establishments were proportionate to a measure-of-size determined for each establishment. The measure-of-size was a function of the establishment's 1992 industry classification, its 1992 product class data, and the historical variability of the year-to-year estimates of the product class estimates. For each product class (1,755) and four-digit industry (459), a desired reliability constraint was specified. Using a technique developed by Dr. James R. Chromy of the Research Triangle Institute, the initial establishment probabilities were optimized such that the expected sample satisfied all industry and product class reliability constraints while the sample size was minimized. This technique reduces the likelihood of selecting nonrepresentative samples for individual product classes or industries.

This method of assigning probabilities based on product class shipments is motivated by our primary desire to produce reliable estimates of both product class and industry shipments. The high correlation between shipments and employment, value-added, and other general statistics assures that these variables will also be well represented by the sample. The actual sample selection procedure uses an independent chance of selection method (Poisson sampling) which permits us to prevent small establishments from being selected in consecutive samples without introducing a bias into the survey estimates.

Nonmail component. The initial nonmail component of the survey was comprised of approximately 140,000 small, single-establishment companies that were tabulated as administrative records in the 1992 Census of Manufactures. The nonmail stratum is also supplemented annually using the list of newly active single-location companies provided by the Internal Revenue Service (IRS) and payroll cutoffs. Companies with payroll below the payroll cutoff are added to the nonmail stratum. For this portion of the population, sampling is not used. The data for this group are estimated based on selected information obtained annually from the administrative records of the IRS and Social Security Administration (SSA). This administrative information, which includes payroll, total employment, industry classification, and physical location, is obtained under conditions which safeguard the confidentiality of both tax and census records.

DESCRIPTION OF THE ASM ESTIMATING PROCEDURE

Most of the ASM estimates derived for the mail stratum are computed using a difference estimator. At the establishment level, there is a strong correlation between the current-year data values and the corresponding 1992 (base) data values. Therefore, within the mailed stratum, for each item at each level of aggregation, an estimate of the "difference" between the current year and the base year is computed from sample cases and added to the corresponding base-year values. For the 1993-1997 ASM estimates, the 1992 Census of Manufactures values serve as the base year. For the 1998 ASM, the base will be updated to be the 1997 Economic Census – Manufacturing.

Due to the positive year-to-year correlation, estimates derived using this methodology are generally more reliable than comparable estimates developed from the current sample data alone. Estimates for the capital expenditures variables are not generated using the difference estimator because the year-to-year correlations are considerably weaker. The standard linear estimator is used for these variables.

For the nonmail stratum, estimates for payroll and employment are directly tabulated from the administrative-record data provided by IRS and SSA. Estimates of data other than payroll and employment are developed from industry averages. Although the nonmail stratum contains approximately 170,000 individual establishments in 1994, it accounts for less than 2 percent of the estimate for total value of shipments at the total manufacturing level.

Corresponding estimates for the mail and nonmail components are combined to produce the estimates included in this publication.

QUALIFICATIONS OF THE ASM DATA

The estimates developed from the sample are apt to differ somewhat from the results of a survey covering all companies in the sample lists but otherwise conducted under essentially the same conditions as the actual sample survey. The estimates of the magnitude of the sampling errors (the difference between the estimates obtained and the results theoretically obtained from a comparable, complete-coverage survey) are provided by the standard errors of estimates.

The particular sample selected for the ASM is one of many similar probability samples that, by chance, might have been selected under the same specifications. Each of the possible samples would yield somewhat different sets of results, and the standard errors are measures of the variation of all the possible sample estimates around the theoretically comparable, complete-coverage values.

Estimates of the standard errors have been computed from the sample data for selected ASM statistics in this report. They are represented in the form of relative standard errors (the standard errors divided by the estimated values to which they refer).

In conjunction with its associated estimate, the relative standard error may be used to define confidence intervals (ranges that would include the comparable, completecoverage value for specified percentages of all the possible samples).

The complete-coverage value would be included in the range:

From one standard error below to one standard error above the derived estimate for about two-thirds of all possible samples.

From two standard errors below to two standard errors above the derived estimate for about 19 out of 20 of all possible samples.

From three standard errors below to three standard errors above the derived estimate for nearly all samples.

An inference that the comparable, complete-survey result would be within the indicated ranges would be correct in approximately the relative frequencies shown. Those proportions, therefore, may be interpreted as defining the confidence that the estimates from a particular sample would differ from complete-coverage results by as much as one, two, or three standard errors, respectively.

For example, suppose an estimated total is shown at 50,000 with an associated relative standard error of 2 percent, that is, a standard error of 1,000 (2 percent of 50,000). There is approximately 67 percent confidence that the interval 49,000 to 51,000 includes the complete-coverage total, about 95 percent confidence that the interval 48,000 to 52,000 includes the complete-coverage total, and almost certain confidence that the interval 47,000 to 53,000 includes the complete-coverage total.

In addition to the sample errors, the estimates are subject to various response and operational errors: errors of collection, reporting, coding, transcription, imputation for nonresponse, etc. These operational errors also would occur if a complete canvass were to be conducted under the same conditions as the survey. Explicit measures of their effects generally are not available. However, it is believed that most of the important operational errors were detected and corrected during the Census Bureau's review of the data for reasonableness and consistency. The small operational errors usually remain. To some extent, they are compensating in the aggregated totals shown. When important operational errors were detected too late to correct the estimates, the data were suppressed or were specifically qualified in the tables.

As derived, the estimated standard errors included part of the effect of the operational errors. The total errors, which depend upon the joint effect of the sampling and operational errors, are usually of the order of size indicated by the standard error, or moderately higher. However, for particular estimates, the total error may considerably exceed the standard errors shown. Any figures shown in the tables in this publication having an associated standard error exceeding 15 percent may be combined with higher level totals, creating a broader aggregate, which then may be of acceptable reliability.

DATA FROM THE CURRENT INDUSTRIAL REPORTS (CIR)

The CIR program provides product statistics for selected manufacturing industries at the U.S. level annually and, in some cases, monthly and/or quarterly. When detail product data are collected in the CIR, they are not also collected in the census. However, the annual CIR data are included in the census Product Summary report.

The CIR program uses a unified data collection, processing, and publication system. The Census Bureau updates the survey panels for most reports annually and reconciles the estimates to the results of the broaderbased annual survey of manufactures and the economic

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census – manufacturing. The economic census – manufacturing provides a complete list of all producers of the products covered by the CIR program and serves as the primary source for CIR sampling. Where a small number of producers exist, CIR surveys cover all known producers of a product. However, when the number of producers is large, cutoff and random sampling techniques are used. Surveys are continually reviewed and modified to provide the most up-to-date information on products produced. While the CIR program includes both mandatory and voluntary surveys, the annual data are mandatory.

DUPLICATION IN COST OF MATERIALS AND VALUE OF SHIPMENTS

Data for cost of materials and value of shipments include varying amounts of duplication, especially at higher levels of aggregation. This is because the products of one establishment may be the materials of another. The value added statistics avoid this duplication and are, for most purposes, the best measure for comparing the relative economic importance of industries and geographic areas.

VALUE OF INDUSTRY SHIPMENTS COMPARED WITH VALUE OF PRODUCT SHIPMENTS

The 1997 Economic Census – Manufacturing shows value of shipments data for industries and products. In the industry statistics tables and files, these data represent the total value of shipments of all establishments classified in a particular industry. The data include the shipments of the products classified in the industry (primary to the industry), products classified in other industries (secondary to the industry), and miscellaneous receipts (repair work, sale of scrap, research and development, installation receipts, and resales). Value of product shipments shown in the products statistics tables and files represent the total value of all products shipped that are classified as primary to an industry regardless of the classification of the producing establishment.

Appendix D. Geographic Notes

Not applicable for this report.

Appendix E. Metropolitan Areas

Not applicable for this report.

Appendix F. Footnotes for Products Statistics and Materials Consumed by Kind

Part 1. Products Statistics (Tables 6a and 6b)

NAICS product code	Footnote	
@3132101	For additional detail, see Current Industrial Report MQ313T, Broadwoven Fabrics.	
@3132103	For additional detail, see Current Industrial Report MQ313T, Broadwoven Fabrics.	
@3132105	For additional detail, see Current Industrial Report MQ313T, Broadwoven Fabrics.	
@3132107	For additional detail, see Current Industrial Report MQ313T, Broadwoven Fabrics.	
3132109111	This product code is primary to more than one industry. For a list of product codes that are primary to more than one industry, see "1997 Economic Census, Numerical List of Manufactured and Mineral Products," Appendix D.	
3132109121	This product code is primary to more than one industry. For a list of product codes that are primary to more than one industry, see "1997 Economic Census, Numerical List of Manufactured and Mineral Products," Appendix D.	
3132109131	This product code is primary to more than one industry. For a list of product codes that are primary to more than one industry, see "1997 Economic Census, Numerical List of Manufactured and Mineral Products," Appendix D.	
3132109141	This product code is primary to more than one industry. For a list of product codes that are primary to more than one industry, see "1997 Economic Census, Numerical List of Manufactured and Mineral Products," Appendix D.	
3132109151	This product code is primary to more than one industry. For a list of product codes that are primary to more than one industry, see "1997 Economic Census, Numerical List of Manufactured and Mineral Products," Appendix D.	
3132109161	This product code is primary to more than one industry. For a list of product codes that are primary to more than one industry, see "1997 Economic Census, Numerical List of Manufactured and Mineral Products," Appendix D.	
3132109171	This product code is primary to more than one industry. For a list of product codes that are primary to more than one industry, see "1997 Economic Census, Numerical List of Manufactured and Mineral Products," Appendix D.	
\$ 3132109181	This product code is primary to more than one industry. For a list of product codes that are primary to more than one industry, see "1997 Economic Census, Numerical List of Manufactured and Mineral Products," Appendix D.	
\$313210B110	This product code is primary to more than one industry. For a list of product codes that are primary to more than one industry, see "1997 Economic Census, Numerical List of Manufactured and Mineral Products," Appendix D.	
\$ 313210B120	This product code is primary to more than one industry. For a list of product codes that are primary to more than one industry, see "1997 Economic Census, Numerical List of Manufactured and Mineral Products," Appendix D.	
\$ 313210C110	This product code is primary to more than one industry. For a list of product codes that are primary to more than one industry, see "1997 Economic Census, Numerical List of Manufactured and Mineral Products," Appendix D.	
\$ 313210C120	This product code is primary to more than one industry. For a list of product codes that are primary to more than one industry, see "1997 Economic Census, Numerical List of Manufactured and Mineral Products," Appendix D.	
\$ 313210C130	This product code is primary to more than one industry. For a list of product codes that are primary to more than one industry, see "1997 Economic Census, Numerical List of Manufactured and Mineral Products," Appendix D.	
@313210E	For additional detail, see Current Industrial Report MQ313T, Broadwoven Fabrics.	
@313210G	For additional detail, see Current Industrial Report MQ313T, Broadwoven Fabrics.	
@313210H	For additional detail, see Current Industrial Report MQ313T, Broadwoven Fabrics.	
@313210J	For additional detail, see Current Industrial Report MQ313T, Broadwoven Fabrics.	
@313210L	For additional detail, see Current Industrial Report MQ313T, Broadwoven Fabrics.	

Part 1. Products Statistics (Tables 6a and 6b)-Con.

NAICS product code	Footnote
@313210M	For additional detail, see Current Industrial Report MQ313T, Broadwoven Fabrics.
@313210N	For additional detail, see Current Industrial Report MQ313T, Broadwoven Fabrics.
\$ 313210P111	This product code is primary to more than one industry. For a list of product codes that are primary to more than one industry, see "1997 Economic Census, Numerical List of Manufactured and Mineral Products," Appendix D.
\$ 313210P121	This product code is primary to more than one industry. For a list of product codes that are primary to more than one industry, see "1997 Economic Census, Numerical List of Manufactured and Mineral Products," Appendix D.
\$ 313210P131	This product code is primary to more than one industry. For a list of product codes that are primary to more than one industry, see "1997 Economic Census, Numerical List of Manufactured and Mineral Products," Appendix D.
\$ 313210P141	This product code is primary to more than one industry. For a list of product codes that are primary to more than one industry, see "1997 Economic Census, Numerical List of Manufactured and Mineral Products," Appendix D.
\$ 313210P151	This product code is primary to more than one industry. For a list of product codes that are primary to more than one industry, see "1997 Economic Census, Numerical List of Manufactured and Mineral Products," Appendix D.
\$ 313210P161	This product code is primary to more than one industry. For a list of product codes that are primary to more than one industry, see "1997 Economic Census, Numerical List of Manufactured and Mineral Products," Appendix D.
\$ 313210P171	This product code is primary to more than one industry. For a list of product codes that are primary to more than one industry, see "1997 Economic Census, Numerical List of Manufactured and Mineral Products," Appendix D.
\$ 313210P181	This product code is primary to more than one industry. For a list of product codes that are primary to more than one industry, see "1997 Economic Census, Numerical List of Manufactured and Mineral Products," Appendix D.
\$ 313210P191	This product code is primary to more than one industry. For a list of product codes that are primary to more than one industry, see "1997 Economic Census, Numerical List of Manufactured and Mineral Products," Appendix D.
\$ 313210P1B1	This product code is primary to more than one industry. For a list of product codes that are primary to more than one industry, see "1997 Economic Census, Numerical List of Manufactured and Mineral Products," Appendix D.
\$ 313210P1D1	This product code is primary to more than one industry. For a list of product codes that are primary to more than one industry, see "1997 Economic Census, Numerical List of Manufactured and Mineral Products," Appendix D.
\$ 313210P1F1	This product code is primary to more than one industry. For a list of product codes that are primary to more than one industry, see "1997 Economic Census, Numerical List of Manufactured and Mineral Products," Appendix D.
\$ 313210Q000	This product code is primary to more than one industry. For a list of product codes that are primary to more than one industry, see "1997 Economic Census, Numerical List of Manufactured and Mineral Products," Appendix D.
\$ 313210R111	This product code is primary to more than one industry. For a list of product codes that are primary to more than one industry, see "1997 Economic Census, Numerical List of Manufactured and Mineral Products," Appendix D.
\$ 313210R121	This product code is primary to more than one industry. For a list of product codes that are primary to more than one industry, see "1997 Economic Census, Numerical List of Manufactured and Mineral Products," Appendix D.
\$ 313210R131	This product code is primary to more than one industry. For a list of product codes that are primary to more than one industry, see "1997 Economic Census, Numerical List of Manufactured and Mineral Products," Appendix D.
@313210T	For additional detail, see Current Industrial Report MQ313T, Broadwoven Fabrics.

Part 2. Materials Consumed by Kind (Table 7)

Not applicable.

Appendix G. Comparability of Product Classes and Product Codes: 1997 to 1992

1997 published	1997 collected	1992 published	1997 published	1997 collected	1992 published	1997 published	1997 collected	1992 published
3131111111 3131111221	22811 2281110 2281187 2281100	2281110 2281187	3132105100 3132107	2211D 2211D00 2211E 2211E 00	2211D00 2211E	313210V 313210V100 pt 313210V100 pt 313210V100 pt	2231900 pt 2231900 pt	2231900 2231901
3131113 3131113111 3131113121 3131113YWV	2281210 2281215	2281210 2281215	3132109 3132109111 3132109121		2211F 2211F01 2211F03	313210W pt 313210W pt 313210W pt		22210
3131115 3131115111 3131115121 3131115YWV	2281310 2281343	2281310 2281343	3132109141 3132109151 pt 3132109151 pt 3132109151 pt	2211F07 2211F10 pt 2211F10 pt 2211F13 2211F13 pt	2211F07 2211F09 2211F11 2211F13	313210W pt 313210WYWW pt 313210WYWW pt 313210WYWW pt	22990 pt 2211000 2221000	22990 pt 2211000 2221000
3131117111 3131117221 3131117331	22814 2281420 2281441 2281480 2281481	2281420 2281441 2281480	3132109171 pt 3132109181	2211F18 pt 2211F23 2211F00	2211F19 2211F23 2211F00	313210WYWW pt 313210WYWY pt 313210WYWY pt 313210WYWY pt 313210WYWY pt	2299000 pt 2211002 2221002 2231002 pt	2299000 pt 2211002 2221002
3131117YWV 3131119 3131119111 3131119121	2281400 22815 2281510 2281520	2281400 22815 2281510 2281520	313210B110 313210B120 313210BYWV	2211G10 2211G30 2211G00	2211G10 2211G30 2211G00	3132211 pt 3132211 pt 3132211 pt	22411 22996 pt	22411 22996 pt
3131119YWV 313111A 313111A111	2281500 22996 pt 2299602 2299606	2281500 22996 pt 2299601 pt 2299603 pt	313210C120 pt 313210C120 pt 313210C130 pt 313210C130 pt	2211H25 2211H06 pt 2211H06 pt 2211H08 pt.	2211H25 2211H01 pt 2211H03 pt 2211H01 pt 2211H03 pt	3132211111 pt 3132211111 pt 3132211231 3132211231 3132211241 3132211251 pt 3132211251 pt	2241104 pt 2241107 2241111 2241113 2241113 pt	2241105 2241107 2241111 2241113 2241114
313111C111 313111C121	22996 pt 2299610 2299611 2299600 pt 22810	2299610 2299611 2299600 pt	313210C141 pt 313210CYWV 313210E	2211H11 pt 2211H00	2211H03 pt 2211H00 2221B	3132211261 3132211371 pt 3132211371 pt 3132211371 pt 3132211371 pt 3132211YWV pt	2241116 2241119 2299613 2299614 2241100	2241116 2241119 2299601 pt 2299603 pt 2241100
313111W pt 313111WYWW pt 313111WYWW pt	22990 pt 2281000 2299000 pt 2281002	22990 pt 2281000 2299000 pt 2281002	313210H	2221C00	2221C00 2221D	3132213121	22414 2241401 2241403 2241405	22414 2241401 2241403 2241405
3131121 3131121111 3131121121		22822 pt 2282221 pt 2282231	313210J100 313210L	2221E 2221E00 2221F 2221F 00	2221E00 2221F	3132213YWV 3132215 3132215100	22415 2241500	22415 2241500
3131123 3131123111 3131123221 3131123231	22823 2282311 2282313 2282315	22823 2282311 2282313 2282315	313210M 313210M100		2221G 2221G00	313221W pt 313221W pt 313221WYWW pt 313221WYWW pt 313221WYWY pt	2299000 pt	22990 pt 2241000 2299000 pt
	22825 2282500	22825 2282500	313210N pt 313210N111 313210N121 pt 313210N121 pt	22996 pt 2221H10	22996 pt 2221H10 2221H20	313221WYWY pt 3132220 3132220000 3132220YWW	2299002 pt	23970 2397000 pt
3131127 3131127100 pt 3131127100 pt 3131127100 pt	2282911 22820 pt	2282900 pt 2282911 22820 pt	313210N121 pt 313210NYWV pt 313210NYWV pt	2299608 2221H00 2299600 pt	2299603 pt 2221H00 2299600 pt	3132220YWY 3132301 3132301111 pt	2397002 22971 2297138 pt	2397000 pt 2397002 22971 2297131 pt
313112WYWY 3131130 pt		2282002 pt 22840 pt	313210P 313210P111 313210P121 313210P131 313210P141 pt	2221J03 2221J05 2221J12 pt	2221J01 2221J03 2221J05 2221J07	3132301111 pt 3132301111 pt 3132301121 pt 3132301121 pt 3132301121 pt	2297138 pt 2297138 pt 2297132 pt 2297132 pt 2297132 pt	2297133 pt 2297135 pt 2297131 pt 2297133 pt 2297135 pt
3131130121		22996 pt 2284010 pt 2284023 pt	313210P141 pt 313210P151 313210P151 313210P161 313210P171 313210P171	2221J15 2221J19 2221J23	2221J13 2221J15 2221J19 2221J23	3132301131 pt 3132301131 pt 3132301131 pt 3132301131 pt	2297134 pt	
3131130131 pt 3131130141 pt 3131130141 pt 3131130151 pt 3131130151 pt 3131130161 pt	2284045 pt 2284047 pt 2284047 pt 2284035 pt 2284035 pt	2284051 pt 2284043 pt 2284051 pt 2284031 pt 2284051 pt 2284033 pt	313210Q	2221J27 2221J29 2221J31 2221J00 2221K	2221J27 2221J29 2221J31 2221J00 2221K	3132301141 pt 3132301141 pt 3132301151 pt 3132301151 pt 3132301151 pt 3132301161 pt 3132301161 pt	2297134 pt 2297134 pt 2297136 pt 2297136 pt 2297136 pt 2297142 pt 2297142 pt	2297133 pt 2297135 pt 2297131 pt 2297133 pt 2297135 pt 2297131 pt 2297133 pt
3131130161 pt 3131130171 3131130181 3131130191	2284081 2284083	2284010 pt 2284023 pt	313210Q000 313210R 313210R111 pt 313210R111 pt	2221M 2221M06 pt	2221M 2221M01 pt	3132301161 pt 3132301YWV 3132303	2297142 pt 2297100 22972	2297135 pt 2297100 22972
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MANUFACTURING-INDUSTRY SERIES

1997 published	1997 collected	1992 published	1997 published	1997 collected	1992 published	1997 published	1997 collected	1992 published
313230W pt 313230WYWW pt 313230WYWW pt 313230WYWY pt 313230WYWY pt	2297000 2299000 pt 2297002	2299000 pt 2297002	3133115 pt 3133115111 pt 3133115111 pt 3133115221 pt 3133115221 pt 3133115221 pt	5131801 2262803 5131803 2262805	2262805	3133120 pt 3133120111 3133120121 3133120131 3133120141 3133120151	51319 2269012 2269021 2269023 2269026 2269030	2269012 2269021 2269023 2269026 2269030
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