

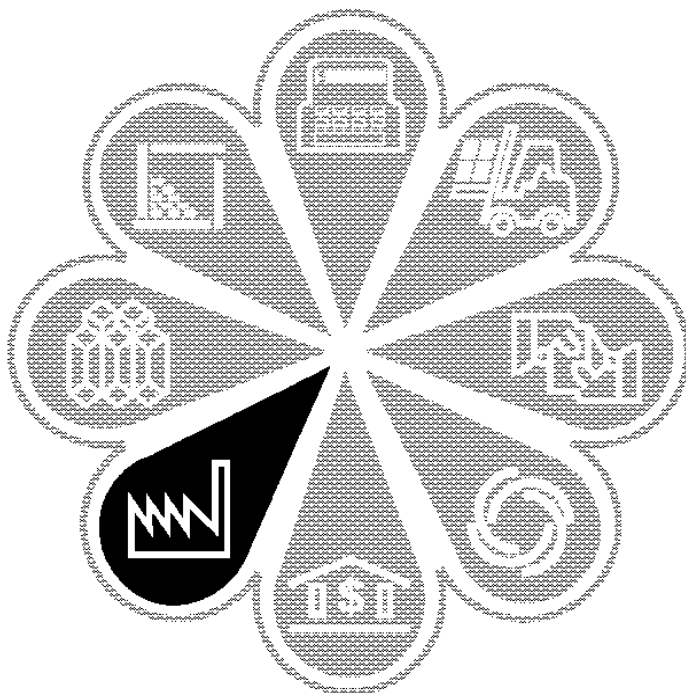
1992 Census of Manufactures

MC92-I-22A

INDUSTRY SERIES

Weaving and Floor Covering Mills

Industries 2211, 2221, 2231, 2241, and
2273



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David J. Barram, Deputy Secretary

Economics and Statistics Administration
Everett M. Ehrlich, Under Secretary
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BUREAU OF THE CENSUS
Martha Farnsworth Riche, Director

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Manufacturing and Construction Division prepared this report. **David W. Cartwright**, Assistant Chief for Census and Related Programs, was responsible for the overall planning, management, and coordination of the census of manufactures. Planning and implementation were under the direction of **Judy Dodds**, Chief, Food, Textiles, and Apparel Branch, assisted by **Robert Reinard**, Section Chief, with primary staff assistance by **Keith Featherstone**.

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If you have any questions concerning the statistics in this report, call 301-457-4651.



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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.

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

Policymaking agencies of the Federal Government use the data, especially in monitoring economic activity and providing assistance to business.

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 and 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.

AUTHORITY AND SCOPE

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 1992 Economic Census consists of the following eight censuses:

- Census of Retail Trade
- Census of Wholesale Trade
- Census of Service Industries
- Census of Financial, Insurance, and Real Estate Industries
- Census of Transportation, Communications, and Utilities
- Census of Manufactures
- Census of Mineral Industries
- Census of Construction Industries

Special programs also cover enterprise statistics and minority-owned and women-owned businesses. (The 1992 Census of Agriculture and 1992 Census of Governments are conducted separately.) The next economic census is scheduled to be taken in 1998 covering the year 1997.

AVAILABILITY OF THE DATA

The results of the economic census are available in printed reports for sale by the U.S. Government Printing Office and on compact discs for sale by the Census Bureau. Order forms for all types of products are available on request from Customer Services, Bureau of the Census, Washington, DC 20233-8300. A more complete description of publications being issued from this census is on the inside back cover of this document.

Census facts are also widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. Finally, State data centers in every State as well as business and industry data centers in many States also supply economic census statistics.

WHAT'S NEW IN 1992

The 1992 Economic Census covers more of the economy than any previous census. New for 1992 are data on communications, utilities, financial, insurance, and real estate, as well as coverage of more transportation industries. The economic, agriculture, and governments censuses now collectively cover nearly 98 percent of all economic activity.

Among other changes, new 1992 definitions affect the boundaries of about a third of all metropolitan areas. Also, the Survey of Women-Owned Businesses has now been expanded to include all corporations.

HISTORICAL INFORMATION

The economic census has been taken as an integrated program at 5-year intervals since 1967 and before that for 1963, 1958, and 1954. Prior to that time, the individual subcomponents 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 1840 and subsequent censuses to include mining and some commercial activities. In 1902, Congress established a permanent Census Bureau and directed that a census of manufactures be taken every 5 years. The 1905 Manufactures Census was the first time a census was taken apart from the regular every-10-year population census.

The first census of business was taken in 1930, covering 1929. Initially it covered retail and wholesale trade and construction industries, but it was broadened in 1933 to include some of the service trades.

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 Enterprise Statistics Program, which publishes combined data from the economic census, was made possible with the implementation of the integrated census program in 1954.

The range of industries covered in the economic censuses has continued to expand. The census of construction industries began on a regular basis in 1967, and the scope of service industries was broadened in 1967, 1977, and 1987. The census of transportation began in 1963 as a set of surveys covering travel, transportation of commodities, and trucks, but expanded in 1987 to cover business establishments in several transportation industries. For 1992, these statistics are incorporated into a broadened census of transportation, communications, and utilities. Also new for 1992 is the census of financial, insurance, and real estate industries. This is part of a gradual expansion in coverage of industries previously subjected to government regulation.

The Survey of Minority-Owned Business Enterprises was first conducted as a special project in 1969 and was incorporated into the economic census in 1972 along with the Survey of Women-Owned Businesses.

An economic census has also been taken in Puerto Rico since 1909, in the Virgin Islands of the United States and Guam since 1958, and in the Commonwealth of the Northern Mariana Islands since 1982.

Statistical reports from the 1987 and earlier censuses provide historical figures for the study of long-term time series and are available in some large libraries. All of the census data published since 1967 are still available for sale on microfiche from the Census Bureau.

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

While the census provides complete enumerations every 5 years, there are many needs for more frequent data as well. The Census Bureau conducts a number of monthly, quarterly, and annual surveys, with the results appearing in publication series such as Current Business Reports (retail and wholesale trade and service industries), the Annual Survey of Manufactures, Current Industrial Reports, and the Quarterly Financial Report. Most of these surveys, while providing more frequent observations, yield less kind-of-business and geographic detail than the census. The County Business Patterns program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county.

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 1992 Economic Census and Related Statistics*. More information on the methodology, procedures, and history of the census will be published in the *History of the 1992 Economic Census*. Contact Customer Services for information on availability.

Census of Manufactures

GENERAL

This report, from the 1992 Census of Manufactures, is one of a series of 83 industry reports, each of which provides statistics for individual industries or groups of related industries. Additional separate reports will be issued for each State and the District of Columbia and for special subjects such as manufacturers' shipments to the federal government and concentration ratios in manufacturing.

The industry reports include such statistics as number of establishments, employment, payroll, value added by manufacture, cost of materials consumed, capital expenditures, product shipments, etc.

State reports present similar statistics for each State and its important metropolitan areas (MA's), counties, and places. Selected statistical totals for "all manufacturing" have been shown in the State reports for MA's with 250 employees or more and for counties and places with 500 employees or more.

The *General Summary* report contains industry, product class, and geographic area statistics summarized in one report. The introduction to the *General Summary* discusses, at greater length, many of the subjects described in this introduction. For example, the *General Summary* text discusses the relationship of value added by manufacture to national income by industry of origin, the changes in statistical concepts over the history of the censuses, and the valuation problems arising from intracompany transfers between manufacturing plants of a company and between manufacturing plants and sales offices and sales branches of a company.

SCOPE OF CENSUS AND DEFINITION OF MANUFACTURING

The 1992 Census of Manufactures covers all establishments with one paid employee or more primarily engaged in manufacturing as defined in the *1987 Standard Industrial Classification (SIC) Manual*¹. This is the system of industrial classification developed by experts on classification in Government and private industry under the guidance of the Office of Information and Regulatory Affairs, Office of

¹*Standard Industrial Classification Manual: 1987*. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

Management and Budget. This classification system is used by Government agencies as well as many organizations outside the Government.

The SIC Manual defines manufacturing as the mechanical or chemical transformation of substances or materials into new products. The assembly of component parts of products also is considered to be manufacturing if the resulting product is neither a structure nor other fixed improvement. These activities are usually carried on in plants, factories, or mills that characteristically use power-driven machines and materials-handling equipment.

Manufacturing production is usually carried on for the wholesale market, for transfers to other plants of the same company, or to the order of industrial users rather than for direct sale to the household consumer. Some manufacturers in a few industries sell chiefly at retail to household consumers through the mail, through house-to-house routes, or through salespersons. Some activities of a service nature (enameling, engraving, etc.) are included in manufacturing when they are performed primarily for trade. They are considered nonmanufacturing when they are performed primarily to the order of the household consumer.

RELATIONSHIP BETWEEN ANNUAL SURVEY OF MANUFACTURES AND CENSUS OF MANUFACTURES

The Bureau of the Census conducts the annual survey of manufactures (ASM) in each of the 4 years between the censuses of manufactures. The ASM is a probability-based sample of approximately 62,000 establishments and collects the same industry statistics (employment, payroll, value of shipments, etc.) as the census of manufactures. In addition to collecting the information normally requested on the census form, the establishments in the ASM sample are requested to supply information on assets, capital expenditures, retirements, depreciation, rental payments, supplemental labor costs, costs of purchased services, and foreign content of materials consumed. Except for supplemental labor costs, the extra ASM items are collected only in census years.

ESTABLISHMENT BASIS OF REPORTING

The census of manufactures is conducted on an establishment basis. A company operating at more than one location is required to file a separate report for each

location. 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 1992, 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. This report excludes information for separately operated administrative offices, warehouses, garages, and other auxiliary units that service manufacturing establishments of the same company (see Auxiliaries).

MANUFACTURING UNIVERSE AND CENSUS REPORT FORMS

The 1992 Census of Manufactures universe includes approximately 380,000 establishments. 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. 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.** In the 1992 Census of Manufactures, approximately 143,000 small single-establishment companies were excused from filing reports. Selection of these small establishments was done on an industry-by-industry basis and was based on annual payroll and total shipments data as well as on the industry classification codes contained in the administrative records of Federal agencies. The cutoffs were selected so that these administrative-records cases would account for no more than 3 percent of the value of shipments for all manufacturing. Generally, all single-establishment companies with less than 5 employees were excused, while all establishments with more than 20 employees were mailed forms.

Information on the physical location of the establishment, as well as information on payrolls, receipts (shipments), and industry classification, was obtained from the administrative records of other Federal agencies under special arrangements, which 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" (n.s.k.) categories.

The industry classification codes included in the administrative-records 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 at the four-digit SIC level. This was especially true whenever there was a relatively fine line of demarcation between industries or between manufacturing and nonmanufacturing activity.

Sometimes these administrative-records cases were only given a two- or three-digit SIC group. For the 1992 Census of Manufactures, 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 four-digit SIC level. Establishments that did not return the classification form were coded later to those four-digit SIC industries identified as "not elsewhere classified" (n.e.c.) within the given two- or three-digit industry groups.

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 over 237,000 establishments covered in the mail canvass were divided into three groups:

- a. **ASM sample establishments.** This group consisted of approximately 62,000 establishments covering 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 (see Appendix B, Annual Survey of Manufactures).

In a census of manufactures 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 information on assets, capital expenditures, retirements, depreciation, rental payments, supplemental labor costs, and costs of purchased services. See appendix A, section 2, for an explanation of these items.

The census part of the report form is 1 of approximately 200 versions containing product, material, and special inquiries. The diversity of manufacturing activities necessitated the use of these many forms to canvass the 459 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 be performing. Respondents were requested to identify the products, the value of each product, and, in a large number of 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 materials-consumed 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 material not identified on the form.

Finally, 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 112,000 establishments were included in this group. A variable cutoff, based on administrative-records payroll data and determined on an industry-by-industry basis, was used to select those establishments that were to receive 1 of the approximately 200 census of manufactures 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 consisted of approximately 63,000 establishments. For those industries where application of the variable cutoff for administrative-records 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 approximately 80 versions of the short form, which requested summary product and

material data and totals but no details on employment, payrolls, cost of materials, inventories, and capital expenditures.

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

AUXILIARIES

In this industry report, the data on employment and payroll are limited to operating manufacturing establishments. The census report form filed for auxiliaries (ES-9200) requested a description of the activity of the establishments serviced. However, the manufacturing auxiliaries were coded only to the two-digit major group of the establishments they served; whereas, the operating establishments were coded to a four-digit manufacturing industry. Data for the approximately 11,000 separately operated auxiliaries are included in the geographic area series and in a report issued as part of the 1992 Enterprise Statistics Survey.

Auxiliaries are establishments whose employees are primarily engaged in performing supporting services for other establishments of the same company, rather than for the general public or for other business firms. They can be at different locations from the establishments served or at the same location as one of those establishments but not operating as an integral part thereof and serving two establishments or more. Where auxiliary operations are conducted at the same location as the manufacturing operation and operate as an integral part thereof, they usually are included in the report for the operating manufacturing establishment.

Included in the broad category of auxiliaries are administrative offices. Employees in administrative offices are concerned with the general management of multiestablishment companies, i.e., with the general supervision and control of two units or more, such as manufacturing plants, mines, sales branches, or stores. The functions of these employees may include the following:

1. Program planning, including sales research and coordination of purchasing, production, and distribution
2. Company purchasing, including general contracts and purchasing methods
3. Company financial policy and accounting
4. General engineering, including design of product machinery and equipment, and direction of engineering effort conducted at the individual operation locations
5. Company personnel matters
6. Legal and patent matters

Other types of auxiliaries serving the plants or central management of the company include purchasing offices, sales promotion offices, research and development organizations, etc.

INDUSTRY CLASSIFICATION OF ESTABLISHMENTS

Each of the establishments covered in the census was classified in 1 of 459 manufacturing industries in accordance with the industry definitions in the 1987 SIC Manual. The 1987 edition of this manual represents a major revision for manufacturing industries from the 1972 edition and its 1977 supplement. Appendix A of the 1987 Manual notes the revisions in the four-digit industry levels between 1972/77 and 1987.

An industry is generally defined as a group of establishments producing the same product or a closely related group of products. The product groupings from which industry classifications are derived are based on considerations such as similarity of manufacturing processes, types of materials used, types of customers, and the like. The resulting group of establishments must be significant in terms of number, value added by manufacture, value of shipments, and number of employees. The system operates in such a way that the definitions progressively become narrower with successive additions of numerical digits. For 1992, there are 20 major groups (two-digit SIC), 139 industry groups (three-digit SIC), and 459 industries (four-digit SIC). This represents an expansion of four-digit industries from 452 in 1972/77 and a reduction of three-digit groups from 143 in 1972/77. Product classes and products of the manufacturing industries have been assigned codes based on the industry from which they originate. There are about 11,000 products identified by a seven-digit code. The seven-digit products are considered the primary products of the industry with the same four digits.

Accordingly, an establishment is usually classified in a particular industry on the basis of its major activity during a particular year, i.e., production of the products primary to that industry exceeds, in value, production of the products primary to any other single industry. In a few instances, however, the industry classification of an establishment is not only determined by the products it makes but also by the process employed in operations. Refining of nonferrous metals from ore or rolling and drawing of nonferrous metals (processes which involve heavy capitalization in specialized equipment) would be classified according to the process used during a census year. These establishments then would be "frozen" in that industry during the following ASM years.

In either a census or ASM year, establishments included in the ASM sample with certainty weight, other than those involved with heavily capitalized activities described above, 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 (see Appendix B, Annual Survey of Manufactures). 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, at the aggregate level, some industries comprise different mixes of establishments between survey years and establishment data for such industry statistics as employment and payroll may be tabulated in different industries between survey years. Hence, comparisons between prior-year and current-year published totals, particularly at the four-digit SIC 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-records 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.

While some establishments produce only the primary products of the industry in which they are classified, all establishments of an industry rarely specialize to this extent. The industry statistics (employment, inventories, value added by manufacture, total value of shipments including resales and miscellaneous receipts, etc.) shown in tables 1a through 5a, therefore, reflect not only the primary activities of the establishments in that industry but also their secondary activities. The product statistics in table 6a represent the output of all establishments whether or not they are classified in the same industry as the product. For this reason, in relating the industry statistics, especially the value of shipments to the product statistics, the composition of the industry's output shown in table 5b should be considered.

The extent to which industry and product statistics may be matched with each other is measured by two ratios which are computed from the figures shown in table 5b. The first of these ratios, called the primary product specialization ratio, measures the proportion of product shipments (both primary and secondary) of the establishments classified in the industry represented by the primary products of those establishments. The second ratio, called the coverage ratio, is the proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

However, establishments making products falling into the same industry category may use a variety of processes and materials to produce them. Also, the same industry classification (based on end products) may include both establishments that are highly integrated and those that

put only the finishing touches on an already highly fabricated item. For example, the refrigeration equipment industry includes instances of almost complete integration (production of the compressor, condensing unit, electric motor, casting, stamping of the case, and final assembly) all carried on at one plant. On the other hand, the condensing unit, the motor, and the case may be purchased and only assembled into the finished product.

In some instances, separate industry categories have been established for integrated and nonintegrated establishments. For other industries, the census provides separate statistics on the production of intermediate commodities made and used in the producing plant. For some industries characterized by many plants of the same company, separate figures on interplant transfers of products usually are shown.

Differences in the integration of production processes, types of operations, and alternatives in types of materials used should be considered when relating the industry statistics (employment, payrolls, value added, etc.) to the product and material data.

VALUE OF SHIPMENTS FOR THE INDUSTRY COMPARED WITH VALUE OF PRODUCT SHIPMENTS

This report shows value of shipments data for industries and products. In tables 1a through 5b, 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 table 6a represents the total value of all products shipped that are classified as primary to an industry.

CENSUS DISCLOSURE RULES

In accordance with Federal law governing census reports, no data are published that would disclose the data for an individual establishment or company. However, the number of establishments classified in a specific industry is not considered a disclosure, so this information may be released even though other information is withheld.

The disclosure analysis for the industry statistics in tables 1a through 5a of this report 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 new capital expenditures. However, the suppressed data are included in higher-level totals. A separate disclosure analysis is performed for new capital expenditures that can be suppressed even though value of shipments data are publishable.

SPECIAL TABULATIONS

Special tabulations of data collected in the 1992 Census of Manufactures may be obtained on computer diskette or in tabular form. The data will be in summary form and 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) as are 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, Manufacturing and Construction Division, Bureau of the Census, Washington, DC 20233.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

- Represents zero.
- (D) Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
- (NA) Not available.
- (NC) Not comparable.
- (S) Withheld because estimate did not meet publication standards.
- (X) Not applicable.
- (Z) Less than half the unit shown.
- n.e.c. Not elsewhere classified.
- n.s.k. Not specified by kind.
- pt. Part.
- r Revised.
- SIC Standard Industrial Classification.

Other abbreviations, such as lb, gal, yd, doz, bbl, and s tons, are used in the customary sense.

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SIC's 357, 36-39	Bruce Goldhirsch	301-457-4817
Import/ export publications	Foreign Trade Division	301-457-3041
Industry analysis and forecasting	International Trade Administration	202-377-4356

Users' Guide for Locating Statistics in This Report by Table Number

[For explanation of terms, see appendixes]

Item	Four-digit industry statistics							Five-digit product class and seven-digit product statistics			
	Historical	Operating ratios	By geographic area	Summary and supplemental	By employment size	By industry and product class specialization	Materials consumed by kind	Industry-product analysis	Product shipments	Product class by geographic area	Historical product class
Number of companies	1a			3a					*6a		
Number of establishments.	1a		2	3a	4	5a					
Employment and payroll:											
Number of employees	1a	1b	2	3a	4	5a					
Payroll	1a	1b	2	3a	4	5a					
Supplemental labor costs				3a							
Production workers	1a	1b	2	3a	4	5a					
Production-worker hours	1a	1b	2	3a	4	5a					
Production-worker wages	1a	1b	2	3a	4	5a					
Shipments, cost of materials, and value added:											
Value of shipments (four-digit)	1a	1b	2	3a	4	5a		5b			
Product class shipments (five-digit)									6a	6b	6c
Product shipments (seven-digit)									6a		
Value added by manufacture	1a	1b	2	3a	4	5a					
Cost of materials	1a	1b	2	3a	4	5a					
Fuels and electric energy				3a							
Materials consumed by kind							7				
Inventories:											
Total, end of year	1a			3a	4						
By stage of fabrication				3a							
Capital expenditures, assets, rental payments, and purchased services:											
New capital expenditures	1a		2	3b	4	5a					
Used plant and equipment expenditures				3b							
Gross assets				3b							
Depreciation				3b							
Retirements of buildings and machinery				3b							
Rental payments				3b							
Foreign content of materials consumed				3c							
Purchased services				3c							
Ratios:											
Specialization	1a							5b			
Coverage	1a							5b			

*Number of companies with shipments of more than \$100 thousand.

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Weaving and Floor Covering Mills

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Description of Industries and Summary of Findings

This report shows 1992 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC code and title

2211	Broadwoven Fabrics Mills, Cotton
2221	Broadwoven Fabrics Mills, Manmade Fiber and Silk
2231	Broadwoven Fabrics Mills, Wool
2241	Narrow Fabrics Mills
2273	Carpets and Rugs

The industry statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments but also their activities in the manufacture of secondary products as well as their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 through 5a) with product statistics (table 6) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5b, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

Establishment data were tabulated based on industry definitions included in the *1987 Standard Industrial Classification (SIC) Manual*¹. The 1987 edition represents a major revision for manufacturing industries from the 1972 edition and its 1977 supplement. In addition to the 1987 SIC revision, changes were made to the product class (five-digit) and product code (seven-digit) categories. The product class and product code comparability between the 1992 and 1987 censuses is shown in appendix C. This appendix presents, in tabular form, the linkage from 1992 to 1987, and 1987 to 1992.

¹*Standard Industrial Classification Manual: 1987*. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

All dollar figures included in this report are at prices current for the year specified and, therefore, unadjusted for changes in price levels. Consequently, when making comparisons to prior years, users should take into consideration the inflation that has occurred.

INDUSTRY 2211, BROADWOVEN FABRICS MILLS, COTTON

This industry is made up of establishments primarily engaged in weaving fabrics more than 12 inches (30.48 centimeters) in width, wholly or chiefly by weight of cotton. Establishments primarily engaged in weaving or tufting carpet and rugs are classified in industry 2273; those making tire cord and fabrics are classified in industry 2296; and those engaged in finishing cotton broadwoven fabrics are classified in industry 2261.

The 1992 definition of this industry is the same as that used in the 1987 Standard Industrial Classification (SIC) system. The SIC number and title also are the same.

In the 1992 Census of Manufactures, Industry 2211, Broadwoven Fabrics Mills, Cotton, had employment of 55.9 thousand. The employment figure was 23 percent below the 72.3 thousand reported in 1987. Compared with 1991, employment decreased 15 percent. The 1991 data are based on the Census Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses.

The leading States in employment in 1992 were North Carolina, South Carolina, Georgia, and Alabama, accounting for approximately 87 percent of the industry's employment. This represents a shift from 1987 when North Carolina, South Carolina, Georgia, and Virginia, accounted for approximately 82 percent of the industry's employment.

The total value of shipments for establishments classified in this industry was \$5.8 billion.

Establishments in virtually all industries ship secondary products as well as products primary to the industry in which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 2211 shipped \$5.2 billion of products considered primary to the industry, \$602.8 million of secondary products, and had \$24.6 million of miscellaneous receipts, resales, and contract work. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in this industry was 90 percent (specialization ratio). In 1987, the specialization ratio was 87 percent.

Establishments in this industry also accounted for 91 percent of products considered primary to the industry no matter where they were actually produced (coverage ratio). In 1987, the coverage ratio was 88 percent.

The products primary to industry 2211, no matter in what industry they were produced, appear in table 6a and aggregate to \$5.7 billion. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and energy used by establishments classified in the broadwoven fabrics mills, cotton, industry amounted to \$3.3 billion. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with less than 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 2 percent of the total value of shipments.

INDUSTRY 2221, BROADWOVEN FABRICS MILLS, MANMADE FIBER AND SILK

This industry is made up of establishments primarily engaged in weaving fabrics more than 12 inches (30.48 centimeters) in width, wholly or chiefly by weight of silk and manmade fibers including glass. Establishments primarily engaged in weaving or tufting carpets and rugs from these fibers are classified in industry 2273; those manufacturing tire cord and fabrics are classified in industry 2296; and those engaged in finishing manmade fiber and silk broadwoven goods are classified in industry 2262.

The 1992 definition of this industry is the same as that used in the 1987 Standard Industrial Classification (SIC) system. The SIC number and title also are the same.

In the 1992 Census of Manufactures, Industry 2221, Broadwoven Fabrics Mills, Manmade and Silk, had employment of 87.4 thousand. The employment figure was 1 percent below the 88.3 thousand reported in 1987. Compared with 1991, employment increased 12 percent. The 1991 data are based on the Census Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses.

The leading States in employment in 1992 were South Carolina, North Carolina, Georgia, and Virginia, accounting for approximately 79 percent of the industry's employment. This represents a shift from 1987 when South Carolina, North Carolina, Georgia, and Alabama accounted for approximately 80 percent of the industry's employment.

The total value of shipments for establishments classified in this industry was \$8.8 billion.

Establishments in virtually all industries ship secondary products as well as products primary to the industry in which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry

2221 shipped \$7.8 billion of products considered primary to the industry, \$921.6 million of secondary products, and had \$60.9 million of miscellaneous receipts, resales, and contract work. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in this industry was 89 percent (specialization ratio). In 1987, the specialization ratio was 88 percent.

Establishments in this industry also accounted for 92 percent of products considered primary to the industry no matter where they were actually produced (coverage ratio). In 1987, the coverage ratio was 91 percent.

The products primary to industry 2221, no matter in what industry they were produced, appear in table 6a and aggregate to \$8.5 billion. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and energy used by establishments classified in the broadwoven fabrics mills, manmade fiber and silk industry amounted to \$4.8 billion. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with less than 15 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 2 percent of the total value of shipments.

INDUSTRY 2231, BROADWOVEN FABRICS MILLS, WOOL

This industry is made up of establishments primarily engaged in weaving fabrics more than 12 inches (30.48 centimeters) in width, wholly or chiefly by weight of wool, mohair, or similar animal fibers; dyeing and finishing all woven wool fabrics or dyeing wool, tops, or yarn; and those shrinking and sponging wool goods for the trade. Establishments primarily engaged in weaving or tufting wool carpets and rugs are classified in industry 2273.

The 1992 definition of this industry is the same as that used in the 1987 Standard Industrial Classification (SIC) system. The SIC number and title also are the same.

In the 1992 Census of Manufactures, Industry 2231, Broadwoven Fabrics Mills, Wool, had employment of 13.7 thousand. The employment figure was 2 percent below the 14.0 thousand reported in 1987. Compared with 1991, employment decreased 10 percent. The 1991 data are based on the Census Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses.

The leading States in employment in 1992 were Virginia, Georgia, Maine, and North Carolina, accounting for approximately 69 percent of the industry's employment. This

represents a shift from 1987 when Georgia, North Carolina, New Hampshire, and Virginia accounted for approximately 50 percent of the industry's employment.

The total value of shipments for establishments classified in this industry was \$1.6 billion.

Establishments in virtually all industries ship secondary products as well as products primary to the industry in which they are classified and have some miscellaneous receipts, such as resales and contract receipts.

The products primary to industry 2231, no matter in what industry they were produced, appear in table 6a and aggregate to \$1.4 billion. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and energy used by establishments classified in the broad-woven fabrics mills, wool, industry amounted to \$947.0 million. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with less than 20 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 4 percent of the total value of shipments.

INDUSTRY 2241, NARROW FABRICS MILLS

This industry is made up of establishments primarily engaged in weaving or braiding narrow fabrics of cotton, wool, silk, and manmade fibers, including glass fibers. These fibers are generally 12 inches (30.48 centimeters) or less in their final form but may be made initially in wider width than are specially constructed for cutting to narrow widths. Also included in this industry are establishments primarily engaged in producing fabric-covered elastic yarn or thread.

The 1992 definition of this industry is the same as that used in the 1987 Standard Industrial Classification (SIC) system. The SIC number and title also are the same.

In the 1992 Census of Manufactures, Industry 2241, Narrow Fabrics Mills, had employment of 16.8 thousand. The employment figure was 9 percent below the 18.5 thousand reported in 1987.

The leading States in employment in 1992 were North Carolina, Pennsylvania, Rhode Island, and South Carolina, accounting for approximately 52 percent of the industry's employment. These same States were the leaders in 1987 when they accounted for 57 percent of the industry's employment.

The total value of shipments for establishments classified in this industry was \$1.3 billion.

Establishments in virtually all industries ship secondary products as well as products primary to the industry in which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 2241 shipped \$1.2 billion of products considered primary to the industry, \$78.1 million of secondary products, and had \$12.0 million of miscellaneous receipts, resales, and contract work. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in this industry was 94 percent (specialization ratio). In 1987, the specialization ratio was 96 percent.

Establishments in this industry also accounted for 97 percent of products considered primary to the industry no matter where they were actually produced (coverage ratio). In 1987, the coverage ratio was 92 percent.

The products primary to industry 2241, no matter in what industry they were produced, appear in table 6a and aggregate to \$1.3 billion. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and energy used by establishments classified in the narrow fabrics mills industry amounted to \$605.2 million. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with less than 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 9 percent of the total value of shipments.

INDUSTRY 2273, CARPETS AND RUGS

This industry is made up of establishments primarily engaged in manufacturing woven, tufted, and other carpets and rugs, such as art squares, floor mattings, needle punch carpeting, and door mats and mattings, from textile materials or from twisted paper, grasses, reeds, coir, sisal, jute, or rags.

The 1992 definition of this industry is the same as that used in the 1987 Standard Industrial Classification (SIC) system. The SIC number and title also are the same.

In the 1992 Census of Manufactures, Industry 2273, Carpets and Rugs, had employment of 49.4 thousand. The employment figure was 7 percent below the 53.3 thousand reported in 1987. Compared with 1991, employment increased 2 percent. The 1991 data are based on the Census Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses.

The leading State in employment in 1992 was Georgia, accounting for approximately 64 percent of the industry's employment. This same State was the leader in 1987 when it accounted for 62 percent of the industry's employment.

The total value of shipments for establishments classified in this industry was \$9.8 billion.

Establishments in virtually all industries ship secondary products as well as products primary to the industry in which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 2273 shipped \$9.5 billion of products considered primary to the industry, \$145.8 million of secondary products, and had \$197.7 million of miscellaneous receipts, resales, and contract work. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in this industry was 98 percent (specialization ratio). In 1987, the specialization ratio was 97 percent.

Establishments in this industry also accounted for 99 percent of products considered primary to the industry no matter where they were actually produced (coverage ratio). In 1987, the coverage ratio also was 99 percent.

The products primary to industry 2273, no matter in what industry they were produced, appear in table 6a and

aggregate to \$9.5 billion. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and energy used by establishments classified in the carpets and rugs industry amounted to \$6.4 billion. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with less than 20 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 1 percent of the total value of shipments.

Table 1a. Historical Statistics for the Industry: 1992 and Earlier Years

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

Year ¹	All establishments ³			All employees		Production workers			Value added by manufacture ⁴ (million dollars)	Cost of materials ⁵ (million dollars)	Value of shipments (million dollars)	New capital expenditures ⁶ (million dollars)	End-of-year inventories ⁴ (million dollars)	Ratios	
	Companies ² (no.)	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						Specialization ⁷ (per cent)	Coverage ⁸ (per cent)
INDUSTRY 2211, BROADWOVEN FABRICS MILLS, COTTON															
1992 Census ---	281	323	117	55.9	1 146.8	50.2	105.9	944.2	2 505.0	3 291.9	5 814.0	168.1	802.7	90	91
1991 ASM -----	(NA)	(NA)	(NA)	65.9	1 246.4	58.8	122.8	1 025.1	2 480.1	3 191.5	5 694.6	160.9	872.5	(NA)	(NA)
1990 ASM -----	(NA)	(NA)	(NA)	62.5	1 137.1	55.6	114.5	938.1	2 457.0	2 891.0	5 324.5	199.1	850.5	(NA)	(NA)
1989 ASM -----	(NA)	(NA)	(NA)	67.2	1 221.4	60.3	125.3	1 023.4	2 605.7	2 894.3	5 456.6	215.4	854.8	(NA)	(NA)
1988 ASM -----	(NA)	(NA)	(NA)	72.3	1 228.0	64.8	129.8	1 026.6	2 838.8	2 882.5	5 664.4	239.8	830.3	(NA)	(NA)
1987 Census ---	246	301	151	72.3	1 260.0	64.9	137.9	1 072.1	2 610.2	2 915.9	5 508.3	198.9	770.0	87	88
1986 ASM -----	(NA)	(NA)	(NA)	58.3	932.8	52.5	104.4	798.1	2 115.6	1 980.3	4 155.1	113.9	606.4	(NA)	(NA)
1985 ASM -----	(NA)	(NA)	(NA)	62.1	924.2	56.2	108.5	791.5	1 767.4	2 177.0	4 025.2	191.6	704.9	(NA)	(NA)
1984 ASM -----	(NA)	(NA)	(NA)	69.6	999.6	63.0	118.3	844.1	1 928.5	2 533.0	4 347.2	175.7	819.1	(NA)	(NA)
1983 ASM -----	(NA)	(NA)	(NA)	71.6	1 020.9	65.2	128.6	882.9	1 870.6	2 540.1	4 391.6	212.8	709.6	(NA)	(NA)
1982 Census ---	209	269	143	76.9	964.6	69.2	127.0	818.2	1 637.5	2 293.7	3 972.0	297.9	699.2	84	90
1981 ASM -----	(NA)	(NA)	(NA)	100.4	1 220.4	90.3	177.8	1 042.5	2 248.8	3 059.0	5 284.8	289.3	797.5	(NA)	(NA)
1980 ASM -----	(NA)	(NA)	(NA)	107.7	1 249.6	97.2	197.1	1 073.8	2 360.5	2 989.1	5 245.3	217.5	824.0	(NA)	(NA)
1979 ASM -----	(NA)	(NA)	(NA)	111.0	1 191.5	100.6	206.5	1 034.5	2 213.3	2 647.6	4 864.8	185.3	689.6	(NA)	(NA)
1978 ASM -----	(NA)	(NA)	(NA)	109.5	1 065.3	100.0	199.0	916.6	1 851.5	2 305.4	4 153.0	167.4	659.0	(NA)	(NA)
1977 Census ---	211	314	192	117.2	1 046.8	107.2	214.3	902.0	1 944.5	2 579.8	4 431.2	187.2	657.8	84	(NA)
INDUSTRY 2221, BROADWOVEN FABRICS MILLS, MANMADE FIBER AND SILK															
1992 Census ---	321	422	255	87.4	1 860.0	76.9	158.4	1 459.0	4 031.6	4 824.4	8 793.5	357.3	1 181.9	89	92
1991 ASM -----	(NA)	(NA)	(NA)	78.3	1 600.0	68.5	141.6	1 229.5	3 550.5	4 755.9	8 315.2	331.9	1 085.7	(NA)	(NA)
1990 ASM -----	(NA)	(NA)	(NA)	85.3	1 688.4	74.6	154.0	1 316.2	3 619.3	4 961.3	8 577.9	440.0	1 123.8	(NA)	(NA)
1989 ASM -----	(NA)	(NA)	(NA)	88.4	1 705.2	77.6	159.0	1 343.1	3 706.1	5 025.0	8 690.0	393.2	1 125.9	(NA)	(NA)
1988 ASM -----	(NA)	(NA)	(NA)	90.4	1 671.8	78.8	163.4	1 323.2	3 753.7	4 775.9	8 462.6	378.8	1 066.3	(NA)	(NA)
1987 Census ---	316	436	270	88.3	1 595.7	77.0	163.2	1 272.7	3 595.9	4 504.0	8 048.9	314.3	966.1	88	91
1986 ASM -----	(NA)	(NA)	(NA)	109.7	1 881.7	95.5	196.1	1 497.0	3 776.8	4 847.1	8 665.5	350.6	1 091.3	(NA)	(NA)
1985 ASM -----	(NA)	(NA)	(NA)	115.0	1 832.3	99.9	197.2	1 454.2	3 542.1	4 791.4	8 401.9	484.4	1 127.5	(NA)	(NA)
1984 ASM -----	(NA)	(NA)	(NA)	130.6	2 005.3	115.0	229.4	1 614.2	4 011.5	5 296.2	9 273.9	471.8	1 220.0	(NA)	(NA)
1983 ASM -----	(NA)	(NA)	(NA)	137.2	2 023.6	120.4	243.0	1 641.1	3 940.6	5 391.3	9 285.0	380.4	1 248.0	(NA)	(NA)
1982 Census ---	342	523	363	140.8	1 815.2	123.0	230.5	1 446.6	3 488.6	4 647.1	8 191.2	385.3	1 142.1	89	92
1981 ASM -----	(NA)	(NA)	(NA)	141.5	1 877.6	125.0	252.5	1 522.9	3 607.6	5 149.7	8 725.7	408.7	1 151.6	(NA)	(NA)
1980 ASM -----	(NA)	(NA)	(NA)	142.7	1 730.1	125.7	254.3	1 414.5	3 574.9	4 383.2	7 851.0	372.2	1 114.2	(NA)	(NA)
1979 ASM -----	(NA)	(NA)	(NA)	145.1	1 630.2	128.9	265.3	1 340.7	3 310.2	4 006.6	7 291.5	264.6	937.7	(NA)	(NA)
1978 ASM -----	(NA)	(NA)	(NA)	143.4	1 492.0	127.6	264.2	1 226.7	2 929.0	3 613.6	6 523.3	257.2	869.3	(NA)	(NA)
1977 Census ---	267	449	351	151.0	1 428.7	134.6	275.4	1 168.7	2 790.9	3 563.5	6 325.9	260.2	871.0	86	(NA)
INDUSTRY 2231, BROADWOVEN FABRICS MILLS, WOOL															
1992 Census ---	87	99	54	13.7	279.4	11.8	25.3	214.0	690.5	947.0	1 612.4	32.7	298.1	(D)	(D)
1991 ASM -----	(NA)	(NA)	(NA)	15.3	295.7	13.2	28.3	227.2	704.9	1 093.3	1 804.4	30.2	293.0	(NA)	(NA)
1990 ASM -----	(NA)	(NA)	(NA)	15.7	291.1	13.5	27.6	223.4	674.6	1 116.0	1 798.3	34.5	298.5	(NA)	(NA)
1989 ASM -----	(NA)	(NA)	(NA)	17.2	317.6	14.8	30.1	246.4	657.8	1 404.5	2 068.3	39.6	314.7	(NA)	(NA)
1988 ASM -----	(NA)	(NA)	(NA)	16.9	297.9	14.6	29.9	229.6	686.2	1 274.8	1 928.3	57.6	323.4	(NA)	(NA)
1987 Census ---	106	118	68	14.0	235.8	12.2	24.5	183.8	498.0	589.1	1 050.7	40.1	198.6	90	82
1986 ASM -----	(NA)	(NA)	(NA)	12.3	194.8	10.6	21.6	149.2	371.6	432.5	815.0	24.2	153.1	(NA)	(NA)
1985 ASM -----	(NA)	(NA)	(NA)	13.1	203.8	11.2	22.8	154.8	461.5	475.8	932.5	33.9	171.3	(NA)	(NA)
1984 ASM -----	(NA)	(NA)	(NA)	13.7	211.2	11.9	25.0	162.1	461.5	564.3	1 015.7	33.4	170.1	(NA)	(NA)
1983 ASM -----	(NA)	(NA)	(NA)	13.6	197.8	11.8	24.8	153.3	402.7	477.2	879.3	20.4	162.9	(NA)	(NA)
1982 Census ---	115	131	71	13.1	175.8	11.3	22.8	136.5	349.4	394.2	762.8	27.7	150.6	88	75
1981 ASM -----	(NA)	(NA)	(NA)	14.4	189.7	12.3	24.8	141.6	437.9	429.1	844.2	18.2	180.9	(NA)	(NA)
1980 ASM -----	(NA)	(NA)	(NA)	14.5	172.6	12.4	24.3	130.2	369.2	337.7	698.5	22.5	156.3	(NA)	(NA)
1979 ASM -----	(NA)	(NA)	(NA)	15.4	166.9	13.2	27.0	127.1	344.9	330.0	662.6	21.8	135.6	(NA)	(NA)
1978 ASM -----	(NA)	(NA)	(NA)	15.4	156.2	13.0	26.9	116.6	317.8	317.5	626.1	17.4	117.6	(NA)	(NA)
1977 Census ---	154	165	84	14.6	136.6	12.6	25.9	105.8	312.9	283.7	583.3	14.9	111.0	83	80
INDUSTRY 2241, NARROW FABRICS MILLS															
1992 Census ---	224	258	131	16.8	324.8	14.3	29.0	235.4	718.8	605.2	1 313.9	50.3	209.6	94	97
1991 ASM -----	(NA)	(NA)	(NA)	16.1	290.8	13.9	28.2	212.4	697.9	558.5	1 247.6	28.3	198.0	(NA)	(NA)
1990 ASM -----	(NA)	(NA)	(NA)	17.0	306.7	14.7	30.2	221.2	671.4	588.9	1 259.7	34.0	185.2	(NA)	(NA)
1989 ASM -----	(NA)	(NA)	(NA)	18.0	304.5	15.5	30.5	220.7	667.6	578.9	1 247.7	28.8	198.8	(NA)	(NA)
1988 ASM -----	(NA)	(NA)	(NA)	19.4	330.8	16.6	34.2	237.1	731.4	617.5	1 342.2	35.0	217.6	(NA)	(NA)
1987 Census ---	247	272	166	18.5	295.5	15.7	31.6	210.7	580.1	557.7	1 135.7	32.5	193.4	96	92
1986 ASM -----	(NA)	(NA)	(NA)	17.2	259.7	14.7	27.5	182.4	594.5	452.6	1 040.0	32.4	171.9	(NA)	(NA)
1985 ASM -----	(NA)	(NA)	(NA)	16.9	242.3	14.4	27.2	173.5	550.0	415.3	962.3	28.9	157.4	(NA)	(NA)
1984 ASM -----	(NA)	(NA)	(NA)	18.1	240.1	15.6	29.6	176.6	555.2	409.6	954.6	55.9	148.8	(NA)	(NA)
1983 ASM -----	(NA)	(NA)	(NA)	16.9	227.3	14.5	28.6	170.1	509.0	414.8	918.9	18.8	158.2	(NA)	(NA)
1982 Census ---	241	281	161	17.5	215.5	15.2	28.5	158.9	464.7	388.3	851.8	22.3	137.2	95	97
1981 ASM -----	(NA)	(NA)	(NA)	21.1	245.2	18.1	35.4	181.3	478.4	481.2	941.5	25.9	155.0	(NA)	(NA)
1980 ASM -----	(NA)	(NA)	(NA)	20.7	224.5	17.8	34.6	165.4	426.1	398.8	824.7	22.0	129.9	(NA)	(NA)
1979 ASM -----	(NA)	(NA)	(NA)	21.3	209.2	18.7	36.6	162.3	397.3	390.2	787.4	29.9	127.3	(NA)	(NA)
1978 ASM -----	(NA)	(NA)	(NA)	20.4	191.8	17.8	35.6	147.3	360.4	345.1	701.4	25.5	108.0	(NA)	(NA)
1977 Census ---	291	335	182	20.8	171.6	18.1	35.7	130.9	350.8	333.9	682.9	16.2	109.3	96	97
INDUSTRY 2273, CARPETS AND RUGS															
1992 Census ---	383	447	210	49.4	1 088.0	38.9	81.7	721.8	3 480.5	6 360.2	9 831.0	144.6	1 160.2	98	99
1991 ASM -----	(NA)	(NA)	(NA)	48.5	1 027.9	37.8	82.4	680.4	2 846.0	6 072.5	8 988.1	179.6	1 160.7	(NA)	(NA)
1990 ASM -----	(NA)	(NA)	(NA)	51.8	1 059.0	41.0	89.2	709.4	2 917.3	7 026.1	10 038.4	201.7	1 285.7	(NA)	(NA)
1989 ASM -----	(NA)	(NA)	(NA)	54.5	1 104.6	43.4	94.0	748.9	3 225.7	7 072.5	10 220.0	210.1	1 316.2	(NA)	(NA)
1988 ASM -----	(NA)	(NA)	(NA)	54.6	1 078.1	42.6	91.9	720.4	3 145.7	7 148.7	10 256.0</				

Table 1a. Historical Statistics for the Industry: 1992 and Earlier Years—Con.

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

Year ¹	All establishments ³			All employees		Production workers			Value added by manufacture ⁴ (million dollars)	Cost of materials ⁵ (million dollars)	Value of shipments (million dollars)	New capital expenditures ⁶ (million dollars)	End-of-year inventories ⁴ (million dollars)	Ratios	
	Companies ² (no.)	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						Specialization ⁷ (percent)	Coverage ⁸ (percent)
INDUSTRY 2273, CARPETS AND RUGS—Con.															
1978 ASM-----	(NA)	(NA)	(NA)	56.3	612.1	44.8	94.6	421.0	1 602.0	3 631.1	5 174.7	107.0	814.9	(NA)	(NA)
1977 Census ---	(NA)	592	285	55.8	556.6	44.3	91.4	379.7	1 530.1	3 280.0	4 774.6	82.4	753.6	(NA)	(NA)

¹In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1977, see 1977 Census of Manufactures, vol. II, table 1 of the industry chapter.

²For the Census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Beginning in 1982, all respondents were requested to report their inventories at cost or market prior to adjustment to LIFO cost. This is a change from prior years when respondents were permitted to value their inventories using any generally accepted accounting method. Consequently, 1982 data for inventories and value added by manufacture are not comparable to prior-year data.

⁵Cost of materials is the sum of five components: the cost of (1) parts used in the manufacture of finished goods (materials, parts, containers, and supplies incorporated into products or otherwise directly consumed in the process); (2) purchased items later resold without further manufacture; (3) fuels; (4) electricity; and (5) commissions or fees to outside parties for contract manufacturing. A separate cost for each of the five components is shown in table 3a. Detailed data on materials consumed by type, are shown in table 7.

⁶Detailed data on new machinery and equipment expenditures are provided in table 3c.

⁷Represents ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for establishments classified in the industry.

⁸Represents ratio of primary products shipped by establishments classified in industry to total shipments of such products by all manufacturing establishments, wherever classified.

Table 1b. Selected Operating Ratios for the Industry: 1992 and Earlier Years

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

Year	Payroll per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
INDUSTRY 2211, BROADWOVEN FABRICS MILLS, COTTON									
1992 Census-----	20 515	90	2 110	8.92	57	76	44 812	46	23.65
1991 ASM -----	18 914	89	2 088	8.35	56	78	37 634	50	20.20
1990 ASM -----	18 194	89	2 059	8.19	54	76	39 312	46	21.46
1989 ASM -----	18 176	90	2 078	8.17	53	75	38 775	47	20.80
1988 ASM -----	16 985	90	2 003	7.91	51	73	39 264	43	21.87
1987 Census-----	17 427	90	2 125	7.77	53	76	36 102	48	18.93
1986 ASM -----	16 000	90	1 989	7.64	48	70	36 288	44	20.26
1985 ASM -----	14 882	90	1 931	7.29	54	77	28 461	52	16.29
1984 ASM -----	14 362	91	1 878	7.14	58	81	27 708	52	16.30
1983 ASM -----	14 258	91	1 972	6.87	58	81	26 126	55	14.55
1982 Census-----	12 544	90	1 835	6.44	58	82	21 294	59	12.89
1981 ASM -----	12 155	90	1 969	5.86	58	81	22 398	54	12.65
1980 ASM -----	11 603	90	2 028	5.45	57	81	21 917	53	11.98
1979 ASM -----	10 734	91	2 053	5.01	54	79	19 940	54	10.72
1978 ASM -----	9 729	91	1 990	4.61	56	81	16 909	58	9.30
1977 Census-----	8 932	91	1 999	4.21	58	82	16 591	54	9.07
INDUSTRY 2211, BROADWOVEN FABRICS MILLS, MANMADE FIBER AND SILK									
1992 Census-----	21 281	88	2 060	9.21	55	76	46 128	46	25.45
1991 ASM -----	20 434	87	2 067	8.68	57	76	45 345	45	25.07
1990 ASM -----	19 794	87	2 064	8.55	58	78	42 430	47	23.50
1989 ASM -----	19 290	88	2 049	8.45	58	77	41 924	46	23.31
1988 ASM -----	18 493	87	2 074	8.10	56	76	41 523	45	22.97
1987 Census-----	18 071	87	2 119	7.80	56	76	40 724	44	22.03
1986 ASM -----	17 153	87	2 053	7.63	56	78	34 428	50	19.26
1985 ASM -----	15 933	87	1 974	7.37	57	79	30 801	52	17.96
1984 ASM -----	15 355	88	1 995	7.04	57	79	30 716	50	17.49
1983 ASM -----	14 749	88	2 018	6.75	58	80	28 722	51	16.22
1982 Census-----	12 892	87	1 874	6.28	57	79	24 777	52	15.13
1981 ASM -----	13 269	88	2 020	6.03	59	81	25 495	52	14.29
1980 ASM -----	12 124	88	2 023	5.56	56	78	25 052	48	14.06
1979 ASM -----	11 235	89	2 058	5.05	55	77	22 813	49	12.48
1978 ASM -----	10 404	89	2 071	4.64	55	78	20 425	51	11.09
1977 Census-----	9 462	89	2 046	4.24	56	79	18 483	51	10.13
INDUSTRY 2231, BROADWOVEN FABRICS MILLS, WOOL									
1992 Census-----	20 394	86	2 144	8.46	59	76	50 401	40	27.29
1991 ASM -----	19 327	86	2 144	8.03	61	77	46 072	42	24.91
1990 ASM -----	18 541	86	2 044	8.09	62	78	42 968	43	24.44
1989 ASM -----	18 465	86	2 034	8.19	68	83	38 244	48	21.85
1988 ASM -----	17 627	86	2 048	7.68	66	82	40 604	43	22.95
1987 Census-----	16 843	87	2 008	7.50	56	79	35 571	47	20.33
1986 ASM -----	15 837	86	2 038	6.91	53	77	30 211	52	17.20
1985 ASM -----	15 557	85	2 036	6.79	51	73	35 229	44	20.24
1984 ASM -----	15 416	87	2 101	6.48	56	76	33 686	46	18.46
1983 ASM -----	14 544	87	2 102	6.18	54	77	29 610	49	16.24
1982 Census-----	13 420	86	2 018	5.99	52	75	26 672	50	15.32
1981 ASM -----	13 174	85	2 016	5.71	51	73	30 410	43	17.66
1980 ASM -----	11 903	86	1 960	5.36	48	73	25 462	47	15.19
1979 ASM -----	10 838	86	2 045	4.71	50	75	22 396	48	12.77
1978 ASM -----	10 143	84	2 069	4.33	51	76	20 636	49	11.81
1977 Census-----	9 356	86	2 056	4.08	49	72	21 432	44	12.08

Table 1b. Selected Operating Ratios for the Industry: 1992 and Earlier Years—Con.

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

Year	Payroll per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
INDUSTRY 2241, NARROW FABRICS MILLS									
1992 Census	19 333	85	2 028	8.12	46	71	42 786	45	24.79
1991 ASM	18 062	86	2 029	7.53	45	68	43 348	42	24.75
1990 ASM	18 041	86	2 054	7.32	47	71	39 494	46	22.23
1989 ASM	16 917	86	1 968	7.24	46	71	37 089	46	21.89
1988 ASM	17 052	86	2 060	6.93	46	71	37 701	45	21.39
1987 Census	15 973	85	2 013	6.67	49	75	31 357	51	18.36
1986 ASM	15 099	85	1 871	6.63	44	68	34 564	44	21.62
1985 ASM	14 337	85	1 889	6.38	43	68	32 544	44	20.22
1984 ASM	13 265	86	1 897	5.97	43	68	30 674	43	18.76
1983 ASM	13 450	86	1 972	5.95	45	70	30 118	45	17.80
1982 Census	12 314	87	1 875	5.58	46	71	26 554	46	16.31
1981 ASM	11 621	86	1 956	5.12	51	77	22 673	51	13.51
1980 ASM	10 845	86	1 944	4.78	48	76	20 585	53	12.32
1979 ASM	9 822	88	1 957	4.43	50	76	18 653	53	10.86
1978 ASM	9 402	87	2 000	4.14	49	77	17 667	53	10.12
1977 Census	8 250	87	1 972	3.67	49	74	16 865	49	9.83
INDUSTRY 2273, CARPETS AND RUGS									
1992 Census	22 024	79	2 100	8.83	65	76	70 455	31	42.60
1991 ASM	21 194	78	2 180	8.26	68	79	58 680	36	34.54
1990 ASM	20 444	79	2 176	7.95	70	81	56 319	36	32.71
1989 ASM	20 268	80	2 166	7.97	69	80	59 187	34	34.32
1988 ASM	19 745	78	2 157	7.84	70	80	57 614	34	34.23
1987 Census	19 497	76	2 099	8.12	70	80	57 411	34	35.92
1986 ASM	17 207	75	2 140	7.37	72	82	47 847	36	29.93
1985 ASM	17 084	79	2 063	7.13	72	82	47 513	36	29.15
1984 ASM	16 216	80	2 082	6.80	72	82	48 859	33	29.47
1983 ASM	15 740	79	2 053	6.55	71	80	50 225	31	30.81
1982 Census	14 428	79	1 976	6.10	70	81	40 950	35	26.33
1981 ASM	13 563	78	2 005	5.69	72	83	35 719	38	22.76
1980 ASM	12 411	78	2 007	5.25	71	82	31 099	40	19.79
1979 ASM	11 769	79	2 081	4.87	71	82	31 043	38	18.80
1978 ASM	10 872	80	2 112	4.45	70	82	28 455	38	16.93
1977 Census	9 975	79	2 063	4.15	69	80	27 421	36	16.74

Note: For qualifications of data, see footnotes on table 1a.

Table 2. Industry Statistics for Selected States: 1992 and 1987

[Excludes data for auxiliaries. States with 100 employees or more are shown. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and geographic area	1992									1987				
	E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
		Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
INDUSTRY 2211, BROADWOVEN FABRICS MILLS, COTTON														
United States	—	323	117	55.9	1 146.8	50.2	105.9	944.2	2 505.0	3 291.9	5 814.0	168.1	72.3	2 610.2
Alabama	—	7	7	4.1	80.6	3.8	7.6	71.7	232.8	200.5	434.7	21.7	6.4	231.3
California	E ⁵	35	3	.2	3.9	.2	.4	2.6	8.3	8.0	16.3	.3	E	(D)
Connecticut	—	5	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
Georgia	—	31	23	14.0	284.1	12.3	26.7	230.3	662.8	716.8	1 375.0	44.1	13.9	571.5
Mississippi	—	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
New Jersey	E ⁴	17	4	.2	4.4	.2	.3	3.1	7.7	8.1	15.4	.4	E	(D)
New York	E ²	25	2	.2	3.1	.1	.3	2.3	5.3	7.8	13.4	.1	C	(D)
North Carolina	—	39	24	18.6	392.4	16.5	35.3	313.5	700.6	1 279.0	1 978.4	49.5	23.8	966.9
Pennsylvania	E ²	13	4	.4	8.8	.3	.7	6.7	15.3	15.0	30.1	(D)	.6	20.7
South Carolina	—	41	34	11.9	234.1	11.0	22.4	200.5	530.6	753.7	1 313.0	29.7	13.6	454.9
Tennessee	—	7	2	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2	63.4
Texas	—	19	6	2.1	42.1	1.8	3.9	35.5	108.4	92.9	198.5	(D)	G	(D)
Virginia	—	2	2	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8.1	141.3

See footnotes at end of table.

MANUFACTURES—INDUSTRY SERIES

WEAVING AND FLOOR COVERING MILLS 22A-9

Table 2. Industry Statistics for Selected States: 1992 and 1987—Con.

[Excludes data for auxiliaries. States with 100 employees or more are shown. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and geographic area	1992											1987		
	E1	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
		Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
INDUSTRY 2221, BROADWOVEN FABRICS MILLS, MANMADE FIBER AND SILK														
United States	—	422	255	87.4	1 860.0	76.9	158.4	1 459.0	4 031.6	4 824.4	8 793.5	357.3	88.3	3 595.9
Alabama	—	19	14	6.3	132.0	5.6	11.2	106.2	308.5	288.1	595.4	19.5	5.8	246.7
California	E4	29	5	.3	5.3	.2	.5	3.7	10.3	11.3	20.8	.6	E	(D)
Georgia	—	31	25	9.8	215.5	8.1	17.2	154.5	499.2	658.8	1 152.5	45.1	9.1	432.5
Maine	—	7	5	1.2	27.3	1.0	2.1	20.0	51.7	56.0	106.1	(D)	G	(D)
Maryland	—	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
Massachusetts	—	12	9	3.2	77.6	2.7	5.7	53.4	189.3	194.1	381.4	11.2	H	(D)
Minnesota	—	4	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Mississippi	—	3	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
New Hampshire	—	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
New Jersey	E1	8	4	.4	12.5	.3	.7	7.5	24.1	35.0	59.0	1.9	E	(D)
New York	—	20	6	.7	19.2	.6	1.1	12.8	31.4	26.1	56.7	1.8	E	(D)
North Carolina	—	67	49	19.2	393.5	17.1	34.2	312.8	797.3	1 073.6	1 858.7	79.1	19.2	753.5
Pennsylvania	E1	30	23	3.3	71.8	2.8	5.8	52.6	142.0	180.5	325.6	12.9	3.4	138.7
Rhode Island	—	8	6	.5	10.8	.4	1.0	8.7	21.8	20.7	42.7	1.6	.3	18.0
South Carolina	—	88	80	31.0	642.0	28.1	58.2	531.0	1 398.0	1 607.4	2 972.5	144.2	36.3	1 414.7
Tennessee	—	3	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
Texas	—	13	3	.3	6.8	.3	.6	5.6	22.1	16.7	38.4	.1	G	(D)
Virginia	—	15	12	9.1	195.9	8.0	17.0	157.9	427.6	553.8	973.2	28.4	4.4	215.6
Wisconsin	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
INDUSTRY 2231, BROADWOVEN FABRICS MILLS, WOOL														
United States	—	99	54	13.7	279.4	11.8	25.3	214.0	690.5	947.0	1 612.4	32.7	14.0	498.0
Connecticut	—	3	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
Georgia	—	11	8	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	H	(D)
Maine	E2	8	5	1.6	30.6	1.3	2.8	23.4	62.4	57.5	122.8	4.8	2.1	69.1
Massachusetts	—	10	5	.5	11.0	.4	.9	8.1	26.8	11.9	38.7	.6	F	(D)
Minnesota	—	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
New Hampshire	—	5	3	.7	15.3	.6	1.3	11.8	33.0	36.5	68.4	2.6	G	(D)
New York	E3	8	2	.1	2.0	.1	.2	1.7	3.6	3.5	7.1	.1	(NA)	(NA)
North Carolina	—	6	3	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
Ohio	—	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
Oregon	—	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	8.0
Pennsylvania	—	7	4	.8	15.3	.6	1.1	9.3	20.7	5.6	25.4	(D)	.2	6.6
Rhode Island	—	6	6	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	35.6
Virginia	—	5	5	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
Washington	—	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
INDUSTRY 2241, NARROW FABRICS MILLS														
United States	—	258	131	16.8	324.8	14.3	29.0	235.4	718.8	605.2	1 313.9	50.3	18.5	580.1
Alabama	E1	6	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	E	(D)
California	—	14	4	.5	10.2	.4	.9	7.3	25.5	20.0	45.0	4.2	E	(D)
Connecticut	—	4	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
Florida	E1	10	6	.4	6.5	.3	.6	4.3	11.4	8.4	19.9	1.3	E	(D)
Georgia	E7	13	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
Illinois	E5	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
Kentucky	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Maine	—	4	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
Maryland	—	5	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
Massachusetts	E4	15	7	.5	11.4	.4	.8	7.2	22.2	18.5	40.4	.7	G	(D)
Mississippi	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Nebraska	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
New Hampshire	—	6	5	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	47.3
New Jersey	E2	20	9	.8	19.5	.7	1.4	13.9	32.0	26.2	57.8	5.1	F	(D)
New York	E1	20	4	.3	5.0	.2	.5	3.4	7.1	6.7	13.7	.4	E	(D)
North Carolina	—	35	23	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	15.3	H	(D)
Ohio	—	3	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
Pennsylvania	—	33	17	2.1	43.2	1.8	3.7	30.4	80.3	51.0	130.9	3.4	2.3	65.3
Rhode Island	—	18	11	1.7	31.2	1.5	2.8	22.2	69.0	55.1	123.0	.9	2.3	62.9
South Carolina	—	13	12	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
Tennessee	E1	6	5	.3	6.7	.3	.6	4.9	16.3	14.0	30.3	.6	E	(D)
Virginia	—	5	4	1.1	18.3	1.0	2.0	14.1	34.3	22.6	56.2	1.6	F	(D)
West Virginia	E9	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)

See footnotes at end of table.

Table 2. Industry Statistics for Selected States: 1992 and 1987—Con.

[Excludes data for auxiliaries. States with 100 employees or more are shown. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and geographic area	1992											1987		
	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)	
	E1	Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
INDUSTRY 2273, CARPETS AND RUGS														
United States -----	—	447	210	49.4	1 088.0	38.9	81.7	721.8	3 480.5	6 360.2	9 831.0	144.6	53.3	3 060.0
Alabama -----	—	6	4	.9	18.7	.7	1.6	13.7	57.2	71.9	130.1	3.1	G	(D)
Arkansas -----	—	2	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
California -----	—	38	21	3.2	85.9	2.3	5.0	49.9	202.7	354.2	556.6	11.1	3.7	241.7
Georgia -----	—	238	133	31.6	700.2	24.7	52.1	456.3	2 444.7	4 725.7	7 165.6	95.8	32.9	1 966.0
Indiana -----	—	4	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
Maine -----	—	2	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Michigan -----	E3	5	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
Mississippi -----	—	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
New Hampshire -----	—	2	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
New York -----	E2	8	1	.2	3.9	.2	.3	3.6	7.7	11.9	19.6	.1	C	(D)
North Carolina -----	—	29	10	2.9	56.7	2.5	5.2	40.3	174.3	331.3	506.5	(D)	3.1	165.9
Oklahoma -----	—	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
Pennsylvania -----	—	10	6	2.3	55.8	1.6	3.6	38.1	111.1	219.0	329.4	1.8	2.8	85.5
Rhode Island -----	—	7	4	.4	6.0	.3	.6	4.8	10.4	12.5	22.2	(D)	E	(D)
South Carolina -----	—	16	11	2.7	52.6	2.3	4.4	35.9	137.7	281.7	417.4	9.2	3.2	162.7
Tennessee -----	—	11	5	.7	11.0	.6	1.1	8.7	46.1	73.9	120.0	(D)	1.3	49.1
Virginia -----	—	3	1	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)

Note: For qualifications of data, see footnotes on table 1a.

¹Payroll and sales data for some 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 the items shown 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 for those States where estimated value of shipments data based on administrative-record data account for 10 percent or more of figure shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²Statistics for some producing States have been withheld to avoid disclosing data for individual companies. However, for States with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: 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.

Table 3a. Summary Statistics for the Industry: 1992

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

Item	Broadwoven fabrics mills, cotton (SIC 2211)	Broadwoven fabrics mills, manmade fiber and silk (SIC 2221)	Broadwoven fabrics mills, wool (SIC 2231)			Narrow fabrics mills (SIC 2241)	Carpets and rugs (SIC 2273)
			Total	Manufacturers (SIC 2231-11)	Commission mills (SIC 2231-51)		
Companies -----number--	281	321	87	60	27	224	383
All establishments -----number--	323	422	99	72	27	258	447
With 1 to 19 employees -----number--	206	167	45	25	20	127	237
With 20 to 99 employees -----number--	26	59	31	25	6	73	95
With 100 employees or more -----number--	91	196	23	22	1	58	115
Employment and labor costs:							
Employees -----1,000--	55.9	87.4	13.7	12.8	1.0	16.8	49.4
Compensation, total -----mil dol--	1 390.1	2 275.0	346.1	322.5	23.6	393.6	1 303.7
Annual payroll -----mil dol--	1 146.8	1 860.0	279.4	260.0	19.4	324.8	1 088.0
Fringe benefits -----mil dol--	243.3	415.0	66.7	62.5	4.2	68.8	215.7
Social Security and other legally required payments -----mil dol--	112.7	187.6	29.3	27.4	1.9	30.4	111.3
Employer voluntary payments -----mil dol--	130.6	227.4	37.4	35.1	2.3	38.4	104.3
Production workers:							
Average for year -----1,000--	50.2	76.9	11.8	11.1	.7	14.3	38.9
March -----1,000--	50.4	76.9	11.8	11.1	.7	14.3	38.8
May -----1,000--	50.2	76.7	11.9	11.2	.7	14.3	39.0
August -----1,000--	50.0	77.2	11.9	11.2	.7	14.4	39.0
November -----1,000--	50.1	76.8	11.6	10.9	.7	14.3	38.9
Hours -----millions--	105.9	158.4	25.3	23.7	1.5	29.0	81.7
Wages -----mil dol--	944.2	1 459.0	214.0	202.1	11.9	235.4	721.8
Cost of materials ¹ -----mil dol--	3 291.9	4 824.4	947.0	939.2	7.8	605.2	6 360.2
Materials, parts, containers, etc., consumed ² -----mil dol--	2 982.0	4 381.5	887.3	881.2	6.1	564.5	6 043.1
Resales -----mil dol--	8.0	26.1	3.3	3.3	—	6.1	47.0
Fuels -----mil dol--	42.8	45.0	11.7	11.2	.5	6.9	68.0
Purchased electricity -----mil dol--	180.5	298.7	26.3	25.2	1.1	23.9	79.7
Contract work -----mil dol--	78.5	73.1	18.4	18.3	.1	3.7	122.4
Quantity of electric energy used for heat and power:							
Purchased -----mil kWh--	4 088.1	6 844.8	466.2	450.6	15.6	398.9	1 444.2
Generated less sold -----mil kWh--	83.8	(D)	(D)	(D)	—	(D)	(D)
Total value of shipments -----mil dol--	5 814.0	8 793.5	1 612.4	1 572.6	39.8	1 313.9	9 831.0
Value added -----mil dol--	2 505.0	4 031.6	690.5	657.6	32.9	718.8	3 480.5

See footnotes at end of table.

Table 3a. Summary Statistics for the Industry: 1992—Con.

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

Item	Broadwoven fabrics mills, cotton (SIC 2211)	Broadwoven fabrics mills, manmade fiber and silk (SIC 2221)	Broadwoven fabrics mills, wool (SIC 2231)			Narrow fabrics mills (SIC 2241)	Carpets and rugs (SIC 2273)
			Total	Manufacturers (SIC 2231-11)	Commission mills (SIC 2231-51)		
Inventories by stage of fabrication:							
Beginning of 1992	826.2	1 126.6	274.4	245.3	29.1	200.8	1 156.2
Finished goods	423.7	393.1	89.0	66.0	23.0	76.0	511.5
Work in process	252.0	412.1	124.0	122.8	1.2	54.8	245.4
Materials and supplies	150.6	321.4	61.4	56.5	4.9	69.9	399.3
End of 1992							
Finished goods	802.7	1 181.9	298.1	268.3	29.7	209.6	1 160.2
Work in process	417.6	457.1	93.2	69.5	23.8	79.1	526.0
Materials and supplies	241.0	410.7	144.9	143.6	1.3	61.7	240.6
Materials and supplies	144.2	314.2	59.9	55.3	4.6	68.8	393.6

Note: For qualifications of data, see footnotes on table 1a.

¹Data on purchased services for the repair of buildings and machinery and for communication services are not included in cost of materials, etc., but are shown in table 3c.

²Data on materials consumed by type are shown in table 7. Data on amount purchased or transferred from foreign sources are shown in table 3c.

Table 3b. Gross Book Value of Depreciable Assets, Capital Expenditures, Retirements, Depreciation, and Rental Payments: 1992

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

Item	Broadwoven fabrics mills, cotton (SIC 2211)	Broadwoven fabrics mills, manmade fiber and silk (SIC 2221)	Broadwoven fabrics mills, wool (SIC 2231)	Narrow fabrics mills (SIC 2241)	Carpets and rugs (SIC 2273)
Gross book value of depreciable assets:					
Total:					
Beginning of year	2 801.7	5 304.7	534.5	435.4	1 888.1
New capital expenditures ¹	168.1	357.3	32.7	50.3	144.6
Used capital expenditures	15.6	21.8	4.6	4.0	20.0
Retirements	74.3	226.0	5.3	10.3	43.7
End of year	2 911.1	5 457.8	566.6	479.4	2 009.0
Buildings and other structures:					
Beginning of year	515.2	889.0	139.5	97.4	429.7
New capital expenditures	20.6	35.3	5.2	10.5	35.1
Used capital expenditures .....	.7	5.4	1.7	1.0	2.6
Retirements	5.6	26.5	1.3	1.2	3.2
End of year	530.9	903.1	145.0	107.7	464.3
Machinery and equipment:					
Beginning of year	2 286.5	4 415.7	395.0	337.9	1 458.4
New capital expenditures ¹	147.6	322.0	27.5	39.9	109.5
Used capital expenditures	14.9	16.4	3.0	3.0	17.4
Retirements	68.7	199.5	4.0	9.1	40.5
End of year	2 380.2	4 554.6	421.5	371.7	1 544.8
Depreciation charges during 1992:					
Total	185.9	312.5	32.3	34.2	133.2
Buildings and other structures	22.0	33.7	5.8	4.9	20.0
Machinery and equipment	163.9	278.8	26.5	29.3	113.3
Rental payments:					
Total	13.3	35.8	5.1	8.2	45.5
Buildings and other structures	4.1	12.9	3.0	4.6	27.8
Machinery and equipment	9.1	22.9	2.1	3.6	17.7

¹Data on new machinery and equipment expenditures by type are provided in table 3c.

Table 3c. Supplemental Industry Statistics Based on Sample Estimates: 1992

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

Item	Broadwoven fabrics mills, cotton (SIC 2211)		Broadwoven fabrics mills, manmade fiber and silk (SIC 2221)		Broadwoven fabrics mills, wool (SIC 2231)		Narrow fabrics mills (SIC 2241)		Carpets and rugs (SIC 2273)	
	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)
Purchased services:										
Cost of purchased services for the repair of—										
Buildings and other structures	12.3	(X)	25.4	(X)	2.7	(X)	1.1	(X)	7.5	(X)
Response coverage ratio (percent) ²	76.5	(X)	81.5	(X)	83.8	(X)	64.9	(X)	72.9	(X)
Machinery	83.4	(X)	108.0	(X)	7.6	(X)	8.9	(X)	58.3	(X)
Response coverage ratio (percent) ²	79.9	(X)	82.4	(X)	83.8	(X)	68.2	(X)	74.1	(X)
Other purchased services:										
Communications	4.6	(X)	10.2	(X)	1.6	(X)	2.2	(X)	12.1	(X)
Response coverage ratio (percent) ²	72.3	(X)	81.8	(X)	85.9	(X)	63.9	(X)	58.8	(X)
Legal	1.7	(X)	4.5	(X)	.8	(X)	2.1	(X)	3.9	(X)
Response coverage ratio (percent) ²	75.5	(X)	78.5	(X)	88.5	(X)	69.6	(X)	60.1	(X)
Accounting and bookkeeping	1.7	(X)	2.6	(X)	.6	(X)	.9	(X)	3.3	(X)
Response coverage ratio (percent) ²	74.2	(X)	74.3	(X)	86.2	(X)	64.0	(X)	61.2	(X)
Advertising	2.1	(X)	5.2	(X)	.7	(X)	1.4	(X)	13.5	(X)
Response coverage ratio (percent) ²	74.8	(X)	79.0	(X)	88.5	(X)	68.0	(X)	60.8	(X)
Software and other data processing	1.5	(X)	7.9	(X)	1.2	(X)	.5	(X)	4.2	(X)
Response coverage ratio (percent) ²	89.1	(X)	79.6	(X)	88.5	(X)	69.6	(X)	65.7	(X)
Refuse removal, including hazardous waste	2.2	(X)	4.9	(X)	.6	(X)	.6	(X)	5.3	(X)
Response coverage ratio (percent) ²	91.2	(X)	77.2	(X)	86.6	(X)	67.3	(X)	68.7	(X)
New machinery and equipment expenditures	147.6	(X)	322.0	(X)	27.5	(X)	39.9	(X)	109.5	(X)
Automobiles, trucks, etc., for highway use .....	.6	1	2.9	4	(D)	(X)	.1	13	2.4	8
Computers and peripheral data processing equipment	4.1	1	12.3	3	(D)	(X)	1.8	8	5.4	9
All other	142.8	1	306.8	1	24.3	8	37.9	1	101.7	1
Adjustment ratio ³	1.1	(X)	1.0	(X)	.9	(X)	1.8	(X)	1.1	(X)
Cost of materials, components, parts, etc., used	2 982.0	(X)	4 381.5	(X)	887.3	(X)	564.5	(X)	6 043.1	(X)
Materials purchased or transferred from foreign sources ⁴	15.5	1	107.5	5	432.3	1	(S)	(X)	(S)	(X)
Materials purchased or transferred from domestic sources	2 966.5	1	4 274.0	1	455.0	1	(S)	(X)	(S)	(X)
Adjustment ratio ³	1.4	(X)	1.8	(X)	1.1	(X)	(S)	(X)	(S)	(X)

Note: The amounts shown for purchased services reflect only those services that establishments purchase from other companies. Amounts purchased by separate central administrative offices and services provided to establishments by central administrative offices are excluded.

¹For description of relative standard error of estimate, see Qualifications of the Data in appendixes.

²A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight, see appendix B) for those ASM establishments that reported to the weighted total employment for all ASM establishments classified in the industry.

³Detail has been adjusted upwards to account for nonresponse. Inverse of the ratio shown represents a measure of the response of the inquiry. (See appendixes for further explanation.)

⁴Data may understate the true cost of imported parts, components, and supplies since some respondents do not know the origin of these materials. Includes cases where materials were purchased from secondary suppliers or where they were transferred from company-operated warehouses or other distribution points. Direct purchases from foreign suppliers and importers by domestic manufacturing establishments are believed to be reported accurately.

Table 4. Industry Statistics by Employment Size of Establishment: 1992

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

Industry and employment size class	E ¹	All establishments (no.)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
INDUSTRY 2211, BROADWOVEN FABRICS MILLS, COTTON												
Total	-	323	55.9	1 146.8	50.2	105.9	944.2	2 505.0	3 291.9	5 814.0	168.1	802.7
Establishments with an average of—												
1 to 4 employees	E9	152	.3	4.4	.3	.5	3.7	7.9	9.0	17.0	.5	2.2
5 to 9 employees	E6	29	.2	2.6	.2	.3	2.2	6.4	7.1	13.4	.3	1.5
10 to 19 employees	E6	25	.3	5.3	.3	.5	4.3	9.8	10.2	19.7	.4	2.7
20 to 49 employees	E1	14	.5	8.5	.4	.8	5.5	20.5	21.4	42.1	.6	4.0
50 to 99 employees	E1	12	.8	15.2	.6	1.3	11.3	28.9	31.7	60.4	1.0	8.6
100 to 249 employees	-	17	3.0	56.8	2.7	5.4	48.1	105.9	179.7	293.0	14.6	29.3
250 to 499 employees	-	33	11.3	236.5	10.4	22.4	196.2	538.1	663.9	1 208.9	35.3	166.4
500 to 999 employees	-	27	17.1	358.2	15.4	32.2	300.4	819.6	907.0	1 715.7	51.4	204.1
1,000 to 2,499 employees	-	13	22.5	459.4	19.9	42.5	372.5	967.9	1 462.0	2 443.9	64.1	384.0
2,500 employees or more	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ²	E9	180	.5	7.6	.5	1.0	6.5	14.7	16.6	31.2	.8	3.8

See footnotes at end of table.

Table 4. Industry Statistics by Employment Size of Establishment: 1992—Con.

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

Industry and employment size class	E ¹	All establishments (no.)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
INDUSTRY 2221, BROADWOVEN FABRICS MILLS, MANMADE FIBER AND SILK												
Total	-	422	87.4	1 860.0	76.9	158.4	1 459.0	4 031.6	4 824.4	8 793.5	357.3	1 181.9
Establishments with an average of—												
1 to 4 employees	E9	99	.2	3.0	.1	.3	2.3	5.5	7.3	12.8	.5	1.6
5 to 9 employees	E9	47	.3	5.5	.3	.5	4.2	9.2	11.8	21.1	.8	2.8
10 to 19 employees	E5	21	.3	5.0	.2	.5	3.8	8.1	12.2	20.2	.7	2.5
20 to 49 employees	E1	32	1.0	21.2	.9	1.7	15.4	49.4	62.3	110.9	2.4	14.2
50 to 99 employees	-	27	2.0	47.3	1.7	3.5	34.4	85.5	144.1	227.9	4.9	39.7
100 to 249 employees	-	75	12.7	296.7	10.8	22.7	217.4	804.4	1 116.5	1 899.6	61.4	248.7
250 to 499 employees	-	70	26.5	564.9	23.6	48.4	448.4	1 338.6	1 401.2	2 729.5	119.5	375.8
500 to 999 employees	-	40	26.4	538.8	23.8	48.6	441.9	1 034.2	1 335.8	2 351.1	95.0	262.5
1,000 to 2,499 employees	-	10	17.9	377.6	15.5	32.1	291.2	696.7	733.2	1 420.4	72.1	234.1
2,500 employees or more	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ²	E9	150	.6	10.0	.5	1.1	7.8	16.7	21.6	38.3	1.6	4.7
INDUSTRY 2231, BROADWOVEN FABRICS MILLS, WOOL												
Total	-	99	13.7	279.4	11.8	25.3	214.0	690.5	947.0	1 612.4	32.7	298.1
Establishments with an average of—												
1 to 4 employees	E6	14	(Z)	.4	(Z)	(Z)	.3	1.2	1.5	2.7	.1	.8
5 to 9 employees	E7	16	.1	2.0	.1	.2	1.5	4.2	3.1	7.2	.2	2.2
10 to 19 employees	E5	15	.2	3.9	.2	.3	2.9	9.3	7.1	16.3	.4	4.3
20 to 49 employees	E1	22	.7	13.8	.6	1.2	9.6	29.5	24.3	54.0	1.1	7.6
50 to 99 employees	E2	9	.7	15.6	.5	1.1	10.8	36.5	35.6	71.9	4.3	18.7
100 to 249 employees	-	9	1.6	34.5	1.3	2.8	25.6	76.5	69.2	145.5	5.2	46.2
250 to 499 employees	E2	5	10.5	209.3	9.1	19.6	163.3	533.2	806.2	1 314.7	4.0	218.3
500 to 999 employees	-	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	17.4	(D)
1,000 to 2,499 employees	-	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ²	E9	30	.2	3.1	.1	.3	2.3	6.8	4.4	11.2	.3	3.7
INDUSTRY 2241, NARROW FABRICS MILLS												
Total	-	258	16.8	324.8	14.3	29.0	235.4	718.8	605.2	1 313.9	50.3	209.6
Establishments with an average of—												
1 to 4 employees	E8	54	.1	1.8	.1	.2	1.2	3.6	3.8	7.4	.3	1.0
5 to 9 employees	E6	32	.2	3.9	.2	.4	2.7	10.5	8.2	18.6	.9	2.3
10 to 19 employees	E5	41	.6	11.1	.5	1.0	7.6	23.5	23.7	47.4	1.2	7.2
20 to 49 employees	E2	36	1.2	21.5	1.0	1.9	14.9	43.6	33.5	75.7	1.4	11.6
50 to 99 employees	-	37	2.5	45.0	2.1	4.3	31.9	82.8	61.2	143.2	4.5	22.0
100 to 249 employees	-	45	7.1	141.5	6.2	12.7	103.8	287.5	267.5	551.9	24.1	86.1
250 to 499 employees	-	9	2.7	54.2	2.3	4.5	38.3	118.2	113.6	229.3	18.0	39.3
500 to 999 employees	-	4	2.3	46.0	2.0	4.1	34.8	149.1	93.8	240.3	(D)	40.2
Covered by administrative records ²	E9	74	.3	5.2	.3	.6	3.8	10.4	8.7	19.1	.9	2.7
INDUSTRY 2273, CARPETS AND RUGS												
Total	-	447	49.4	1 088.0	38.9	81.7	721.8	3 480.5	6 360.2	9 831.0	144.6	1 160.2
Establishments with an average of—												
1 to 4 employees	E7	141	.2	4.9	.2	.4	3.5	13.7	27.6	41.3	.8	4.9
5 to 9 employees	E4	53	.4	6.3	.3	.6	4.3	20.5	35.8	56.3	1.0	6.7
10 to 19 employees	E3	43	.6	11.0	.4	.9	7.0	31.9	39.8	71.8	1.1	11.9
20 to 49 employees	-	54	1.6	31.3	1.3	2.8	22.2	71.0	115.4	186.3	2.5	20.4
50 to 99 employees	-	41	3.0	65.0	2.3	4.9	41.0	159.5	245.4	404.5	8.1	54.8
100 to 249 employees	-	46	7.0	146.6	5.8	12.0	104.9	392.2	899.9	1 298.4	26.7	151.0
250 to 499 employees	-	42	14.6	299.5	11.8	24.1	204.0	1 075.4	1 971.3	3 046.6	57.8	315.5
500 to 999 employees	-	22	14.7	348.3	11.4	24.1	225.1	1 200.0	2 184.6	3 377.4	34.6	376.9
1,000 to 2,499 employees	-	5	7.3	175.1	5.5	11.9	109.9	516.3	840.5	1 348.3	11.9	218.0
Covered by administrative records ²	E9	158	.4	7.1	.3	.7	5.0	18.1	33.9	52.0	1.1	6.9

Note: For qualifications of data, see footnotes on table 1a. Data shown as (D) are included in underscored figures above.

¹Payroll and sales data for some small single-establishment manufacturing 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 the items shown 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 for those employment-size classes where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²Report forms were not mailed to small single-establishment companies with up to 20 employees (cutoff varied by industry). Payroll and sales data for 1992 were obtained from administrative records supplied by other agencies of the Federal Government. Those data were then used in conjunction with industry averages to estimate the items shown. Data are also included in respective employment-size classes shown.

Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1992

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry or product class code	Industry or primary product class	All establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
2211	Broadwoven fabrics mills, cotton:										
	All establishments in industry -----	323	55.9	1 146.8	50.2	105.9	944.2	2 505.0	3 291.9	5 814.0	168.1
	Establishments with this product class primary:										
2211B	Plain weave fabrics, except pile (gray goods) -----	27	9.2	187.4	8.5	17.1	159.1	392.0	415.9	804.6	37.7
2211C	Twill weave fabrics, except pile (gray goods) -----	26	13.6	297.2	12.4	27.4	255.2	688.2	898.3	1 602.4	31.6
2211D	All other weaves, except pile (gray goods) -----	10	4.2	86.7	3.7	7.2	71.4	137.7	256.3	394.9	9.4
2211E	Pile fabrics (gray goods) -----	9	2.6	52.8	2.4	5.2	46.0	137.3	195.7	327.6	5.9
2211F	Finished cotton broadwoven fabrics (finished in weaving mills) -----	21	10.1	226.0	8.8	19.0	174.7	534.3	594.1	1 129.4	58.4
2211G	Cotton towels and washcloths (made in weaving mills) -----	7	10.9	202.4	9.7	20.4	165.3	376.3	574.6	951.3	16.5
2211H	Fabricated cotton textile products, except towels and washcloths (made in weaving mills) -----	15	4.1	76.9	3.7	7.7	57.9	206.6	319.1	533.0	6.9
2221	Broadwoven fabrics mills, manmade fiber and silk:										
	All establishments in industry -----	422	87.4	1 860.0	76.9	158.4	1 459.0	4 031.6	4 824.4	8 793.5	357.3
	Establishments with this product class primary:										
2221B	85 percent or more filament rayon and/or acetate fabrics, including blends chiefly rayon and/or acetate (gray goods) -----	21	4.6	106.0	4.2	9.2	88.2	240.1	391.3	626.4	29.5
2221C	85 percent or more filament fabrics, except rayon or acetate (gray goods) -----	67	18.5	420.3	15.4	32.1	307.9	1 020.0	1 363.4	2 368.6	103.6
2221D	85 percent or more spun yarn plain weave fabrics, except wool blends (gray goods) -----	58	27.8	558.3	25.7	51.2	469.1	1 097.1	1 175.7	2 258.0	82.4
2221E	85 percent or more spun yarn twill weave fabrics, except pile, excluding wool blends (gray goods) -----	8	2.6	52.0	2.4	5.1	45.6	135.6	139.3	273.7	8.9
2221F	Other 85 percent or more spun yarn fabrics, except pile, excluding wool blends (gray goods) -----	13	3.6	77.5	3.1	6.7	59.1	130.1	132.7	255.4	11.4
2221G	Combinations of spun yarn and filament fabrics, except wool blends, each less than 85% of total fiber content (gray) -----	28	10.6	221.6	9.3	18.9	173.0	512.2	557.7	1 060.3	63.0
2221H	Other manmade fiber fabrics and silk fabrics (gray goods) -----	9	1.6	33.6	1.4	2.8	25.5	42.5	97.9	140.1	4.1
2221J	Finished manmade fiber and silk broadwoven fabrics (finished in weaving mills) -----	38	11.5	253.6	9.6	20.1	185.1	584.8	745.4	1 323.2	39.5
2221M	Fabricated manmade fiber and silk textile products, except sheets and pillowcases (made in weaving mills) -----	7	5.5	116.8	4.8	10.3	89.6	233.0	179.7	410.8	11.7
2231	Broadwoven fabrics mills, wool:										
	All establishments in industry -----	99	13.7	279.4	11.8	25.3	214.0	690.5	947.0	1 612.4	32.7
	Establishments with this product class primary:										
22311	Finished wool yarns, tops, or raw stock, not combed or spun at the same establishment -----	9	.3	5.5	.2	.4	3.4	15.2	15.3	30.7	.7
22312	Wool broadwoven fabrics (gray goods) -----	19	4.8	98.9	4.2	8.8	79.5	162.1	324.7	483.8	15.8
22316	Finished broadwoven wool fabrics and felts -----	20	8.1	162.4	6.9	15.1	122.4	484.4	587.4	1 049.4	14.9
22317	Receipts for commission finishing or sponging of wool fabrics -----	25	.3	7.2	.3	.6	4.7	15.9	6.0	22.0	.3
22319	Fabricated textile products, 36 percent or more wool (made in weaving mills) -----	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2241	Narrow fabrics mills:										
	All establishments in industry -----	258	16.8	324.8	14.3	29.0	235.4	718.8	605.2	1 313.9	50.3
	Establishments with this product class primary:										
22411	Woven narrow fabrics (12 inches or less in width) -----	104	10.9	212.7	9.2	18.7	151.9	472.6	359.8	827.7	30.9
22414	Braided narrow fabrics (12 inches or less in width) -----	38	3.3	61.6	2.8	5.7	43.5	141.6	89.9	230.7	4.7
22415	Covered rubber thread -----	13	1.6	33.8	1.5	3.0	28.3	71.9	130.9	198.6	12.1
2273	Carpets and rugs:										
	All establishments in industry -----	447	49.4	1 088.0	38.9	81.7	721.8	3 480.5	6 360.2	9 831.0	144.6
	Establishments with this product class primary:										
22731	Woven carpets and rugs -----	16	2.5	55.9	2.1	4.3	40.0	146.9	136.0	279.2	9.4
22732	Tufted carpets and rugs -----	189	42.2	943.1	32.9	69.0	617.4	3 121.4	5 988.0	9 103.9	123.9
22733	Carpets and rugs, n.e.c. -----	25	2.6	48.2	2.1	4.4	33.6	109.5	118.9	228.6	6.6

Note: For qualifications of data, see footnotes on table 1a.

Table 5b. Industry–Product Analysis—Value of Industry and Primary Product Shipments; Specialization and Coverage Ratios: 1992 and Earlier Census Years

[Million dollars. An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as merchandising or contract work (total miscellaneous receipts). Subtotals for total value of shipments show this product pattern for an industry. Primary products specialization ratio is the primary products value of shipments divided by the sum of primary products value of shipments plus secondary products value of shipments. The extent of which an industry's primary products are shipped by establishments classified both in and out of an industry is the coverage ratio and is calculated by dividing the primary products value of shipments by the value of primary products shipments made in all industries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry	1992	1987	1982
INDUSTRY 2211, BROADWOVEN FABRICS MILLS, COTTON			
Total value of shipments	5 814.0	5 508.3	3 972.0
Primary products value of shipments	5 186.6	4 751.2	3 270.0
Secondary products value of shipments	602.8	731.4	643.7
Total miscellaneous receipts	24.6	25.7	58.4
Value of resales	9.4	4.2	(D)
Contract receipts	(D)	(D)	(D)
Other miscellaneous receipts	(D)	(D)	6.6
Primary products specialization ratio	90	87	84
Value of primary products shipments made in all industries	5 711.6	5 405.6	3 635.0
Value of primary products shipments made in this industry	5 186.6	4 751.2	3 270.0
Value of primary products shipments made in other industries	525.0	654.4	365.0
Coverage ratio	91	88	90
INDUSTRY 2221, BROADWOVEN FABRICS MILLS, MANMADE FIBER AND SILK			
Total value of shipments	8 793.5	8 048.9	8 191.2
Primary products value of shipments	7 811.0	7 059.8	7 201.1
Secondary products value of shipments	921.6	955.6	932.4
Total miscellaneous receipts	60.9	33.6	57.7
Value of resales	33.4	14.4	21.8
Contract receipts	14.7	12.2	25.2
Receipts for commission spinning of yarn	(D)	(NA)	(NA)
Weaving broadwoven fabrics	5.2	(NA)	(NA)
Receipts for work done for others on their materials	6.0	(NA)	(NA)
Receipts for work done for others on their materials, n.s.k.	(D)	(NA)	(NA)
Other miscellaneous receipts	12.7	6.9	10.7
Primary products specialization ratio	89	88	89
Value of primary products shipments made in all industries	8 470.8	7 772.0	7 820.3
Value of primary products shipments made in this industry	7 811.0	7 059.8	7 201.1
Value of primary products shipments made in other industries	659.7	712.2	619.2
Coverage ratio	92	91	92
INDUSTRY 2231, BROADWOVEN FABRICS MILLS, WOOL			
Total value of shipments	1 612.4	1 050.7	762.8
Primary products value of shipments	(D)	938.0	628.4
Secondary products value of shipments	(D)	101.5	85.8
Total miscellaneous receipts	18.9	11.3	48.6
Value of resales	(D)	7.7	(D)
Contract receipts	7.4	(D)	24.6
Receipts for commission spinning of yarn	2.8	(NA)	(NA)
Weaving broadwoven fabrics	3.2	(NA)	(NA)
Receipts for work done for others on their materials	(D)	(NA)	(NA)
Receipts for work done for others on their materials, n.s.k.	(D)	(NA)	(NA)
Other miscellaneous receipts	(D)	(D)	(D)
Primary products specialization ratio	(D)	90	88
Value of primary products shipments made in all industries	1 388.2	1 146.7	834.0
Value of primary products shipments made in this industry	(D)	938.0	628.4
Value of primary products shipments made in other industries	(D)	208.7	205.5
Coverage ratio	(D)	82	75
INDUSTRY 2241, NARROW FABRICS MILLS			
Total value of shipments	1 313.9	1 135.7	851.8
Primary products value of shipments	1 223.8	1 071.9	798.0
Secondary products value of shipments	78.1	47.5	40.5
Total miscellaneous receipts	12.0	16.3	13.3
Value of resales	7.7	10.7	3.7
Contract receipts	3.8	5.6	8.0
Other miscellaneous receipts .....	.5	.1	1.7
Primary products specialization ratio	94	96	95
Value of primary products shipments made in all industries	1 263.7	1 170.6	826.1
Value of primary products shipments made in this industry	1 223.8	1 071.9	798.0
Value of primary products shipments made in other industries	40.0	98.8	28.1
Coverage ratio	97	92	97
INDUSTRY 2273, CARPETS AND RUGS			
Total value of shipments	9 831.0	9 795.0	5 807.8
Primary products value of shipments	9 487.5	9 221.3	(NA)
Secondary products value of shipments	145.8	277.8	(NA)
Total miscellaneous receipts	197.7	295.9	(NA)
Value of resales	61.6	132.1	(NA)
Contract receipts	130.0	158.0	(NA)
Other miscellaneous receipts	6.1	5.8	(NA)
Primary products specialization ratio	98	97	(NA)
Value of primary products shipments made in all industries	9 514.2	9 291.3	(NA)
Value of primary products shipments made in this industry	9 487.5	9 221.3	(NA)
Value of primary products shipments made in other industries	26.7	70.0	(NA)

22A–16 WEAVING AND FLOOR COVERING MILLS

MANUFACTURES—INDUSTRY SERIES

Table 5b. Industry–Product Analysis—Value of Industry and Primary Product Shipments; Specialization and Coverage Ratios: 1992 and Earlier Census Years—Con.

[Million dollars. An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as merchandising or contract work (total miscellaneous receipts). Subtotals for total value of shipments show this product pattern for an industry. Primary products specialization ratio is the primary products value of shipments divided by the sum of primary products value of shipments plus secondary products value of shipments. The extent of which an industry's primary products are shipped by establishments classified both in and out of an industry is the coverage ratio and is calculated by dividing the primary products value of shipments by the value of primary products shipments made in all industries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry	1992	1987	1982
INDUSTRY 2273, CARPETS AND RUGS—Con.			
Coverage ratio	99	99	(NA)

Note: For qualifications of data, see footnotes on table 1a.

Table 6a–1. Product and Product Classes—Quantity and Value of Shipments by All Producers: 1992 and 1987

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

Product code	Product	1992				1987			
		Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments ¹		Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments ¹	
				Quantity ²	Value (million dollars)			Quantity ²	Value (million dollars)
2211—	BROADWOVEN FABRICS MILLS, COTTON								
	Total	(NA)	(X)	(X)	5 711.6	(NA)	(X)	(X)	5 405.6
2211B	Plain weave fabrics, except pile (gray goods)	(NA)	(X)	(X)	941.4	(NA)	(X)	(X)	2 014.9
2211B 00	Plain weave fabrics, except pile (gray goods)	45	2 239.9	1 152.0	941.4	55	2 854.9	2 490.5	2 014.9
2211C	Twill weave fabrics, except pile (gray goods)	(NA)	(X)	(X)	1 381.7	(NA)	(X)	(X)	675.5
2211C 00	Twill weave fabrics, except pile (gray goods)	28	1 460.2	1 036.5	1 381.7	24	631.1	561.5	675.5
2211D	All other weaves, except pile (gray goods)	(NA)	(X)	(X)	535.1	(NA)	(X)	(X)	223.6
2211D 00	All other weaves, except pile (gray goods)	34	469.1	386.9	535.1	27	289.1	192.3	223.6
2211E	Pile fabrics (gray goods)	(NA)	(X)	(X)	300.9	(NA)	(X)	(X)	369.3
2211E 00	Pile fabrics (gray goods)	14	474.0	335.5	300.9	9	460.3	333.0	369.3
2211F	Finished cotton broadwoven fabrics (finished in weaving mills) ³	(NA)	(X)	(X)	1 253.6	(NA)	(X)	(X)	809.9
	Plain weave, except pile:								
2211F 01	Print cloth (finished)	6	(D)	(D)	(D)	(NA)	(⁴)	(⁴)	(⁴)
2211F 03	Poplin and broadcloth (finished)	1	(D)	(D)	(D)	(NA)	(⁴)	(⁴)	(⁴)
2211F 05	Sheeting, including bedsheeting and osnaburgs (finished)	4	(D)	(D)	(D)	(NA)	(⁴)	(⁴)	(⁴)
2211F 07	Tobacco, cheese, and bandage cloth (finished)	1	(D)	(D)	(D)	(NA)	(⁴)	(⁴)	(⁴)
2211F 09	Duck (finished)	(NA)	—	—	—	(NA)	(⁴)	(⁴)	(⁴)
2211F 11	Other, including lawns, voiles, and batistes (finished)	—	(D)	(D)	(D)	(NA)	(⁴)	(⁴)	(⁴)
2211F 13	Twill weave, except pile (finished)	9	493.6	490.1	752.9	(NA)	(⁴)	(⁴)	(⁴)
2211F 15	Other weaves, except pile:								
2211F 19	Sateens (finished)	1	(D)	(D)	(D)	(NA)	(⁴)	(⁴)	(⁴)
2211F 23	Other, including oxfords, table damask, jacquard, dobby shirting, and birdseye diaper cloth (finished)	8	102.3	100.3	142.2	(NA)	(⁴)	(⁴)	(⁴)
2211F 00	Pile fabrics (velvets, plushes, corduroy, terry toweling, terry cloth, and others)	6	(D)	(D)	(D)	27	⁴ 631.7	⁴ 475.4	⁴ 809.9
2211G	Finished cotton broadwoven fabrics (finished in weaving mills), n.s.k.	(NA)	(X)	(X)	2.6	(NA)	(X)	(X)	(⁴)
2211G 10	Cotton towels and washcloths (made in weaving mills) ³	(NA)	(X)	(X)	731.6	(NA)	(X)	(X)	783.7
2211G 30	Terry, including pile	6	(X)	(X)	(D)	9	(X)	(X)	(D)
2211G 00	Huck and crash towels	1	(X)	(X)	(D)	2	(X)	(X)	(D)
2211H	Cotton towels and washcloths (made in weaving mills), n.s.k.	(NA)	(X)	(X)	—	(NA)	(X)	(X)	(D)
2211H 01	Fabricated cotton textile products, except towels and washcloths (made in weaving mills)	(NA)	(X)	(X)	497.6	(NA)	(X)	(X)	396.5
2211H 03	Quilted	4	(X)	(X)	(D)	(NA)	(X)	(X)	(D)
2211H 25	Nonquilted (except sheets and pillowcases)	9	(X)	(X)	103.5	(NA)	(X)	(X)	(D)
2211H 00	Sheets and pillowcases ⁵	5	(X)	(X)	(D)	6	(X)	(X)	209.4
22110	Fabricated cotton textile products, except towels and washcloths (made in weaving mills), n.s.k.	(NA)	(X)	(X)	—	(NA)	(X)	(X)	—
22110 00	Broadwoven fabrics mills, cotton, n.s.k.	(NA)	(X)	(X)	69.6	(NA)	(X)	(X)	132.3
22110 02	Broadwoven fabrics mills, cotton, n.s.k. ⁶	(NA)	(X)	(X)	41.0	(NA)	(X)	(X)	73.7
22110 02	Broadwoven fabrics mills, cotton, n.s.k. ⁷	(NA)	(X)	(X)	28.6	(NA)	(X)	(X)	58.6

See footnotes at end of table.

Table 6a-1. Product and Product Classes—Quantity and Value of Shipments by All Producers: 1992 and 1987—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 further explanation, see Value of Shipments in appendixes. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	1992				1987			
		Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments ¹		Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments ¹	
				Quantity ²	Value (million dollars)			Quantity ²	Value (million dollars)
2221--	BROADWOVEN FABRICS MILLS, MANMADE FIBER AND SILK								
	Total -----	(NA)	(X)	(X)	8 470.8	(NA)	(X)	(X)	7 772.0
2221B	85 percent or more filament rayon and/or acetate fabrics, including blends chiefly rayon and/or acetate (gray goods)-----	(NA)	(X)	(X)	639.7	(NA)	(X)	(X)	559.3
2221B 00	85 percent or more filament rayon and/or acetate fabrics, including blends chiefly rayon and/or acetate (gray goods)----- mil sq yd..	29	799.9	710.9	639.7	33	625.3	603.7	559.3
2221C	85 percent or more filament fabrics, except rayon or acetate (gray goods)-----	(NA)	(X)	(X)	2 222.9	(NA)	(X)	(X)	1 452.6
2221C 00	85 percent or more filament fabrics, except rayon and/or acetate (gray goods)----- mil sq yd..	71	4 955.7	4 053.7	2 222.9	52	2 244.2	2 127.3	1 452.6
2221D	85 percent or more spun yarn plain weave fabrics, except wool blends (gray goods)-----	(NA)	(X)	(X)	1 952.7	(NA)	(X)	(X)	2 035.9
2221D 00	85 percent or more spun yarn plain weave fabrics, except pile, excluding wool blends (gray goods)----- mil sq yd..	48	3 394.5	3 038.1	1 952.7	48	4 086.9	3 833.6	2 035.9
2221E	85 percent or more spun yarn twill weave fabrics, except pile, excluding wool blends (gray goods)-----	(NA)	(X)	(X)	301.7	(NA)	(X)	(X)	240.2
2221E 00	85 percent or more spun yarn twill weave fabrics, except pile, excluding wool blends (gray goods)----- mil sq yd..	21	454.3	305.2	301.7	20	291.2	276.3	240.2
2221F	Other 85 percent or more spun yarn fabrics, except pile, excluding wool blends (gray goods)-----	(NA)	(X)	(X)	359.3	(NA)	(X)	(X)	210.7
2221F 00	Other 85 percent or more spun yarn fabrics, except pile, excluding wool blends (gray goods)----- mil sq yd..	36	350.9	328.1	359.3	26	203.6	196.7	210.7
2221G	Combinations of spun yarn and filament fabrics, except wool blends, each less than 85% of total fiber content (gray)-----	(NA)	(X)	(X)	983.6	(NA)	(X)	(X)	952.6
2221G 00	Combinations of spun yarn and filament fabrics, except wool blends, each less than 85% of total fiber content (gray)----- mil sq yd..	35	1 285.4	1 253.7	983.6	39	1 410.9	1 308.1	952.6
2221H	Other manmade fiber fabrics and silk fabrics (gray goods)-----	(NA)	(X)	(X)	236.8	(NA)	(X)	(X)	666.9
2221H 10	Pile fabrics (gray goods)----- mil sq yd..	8	51.5	40.2	142.2	7	87.9	45.7	185.3
2221H 20	Other chiefly manmade fiber fabrics, including chiefly manmade fiber blends with wool, and silk fabrics (gray goods)----- mil sq yd..	7	54.7	54.1	94.6	29	733.4	650.6	479.9
2221H 00	Other manmade fiber fabrics and silk fabrics (gray goods), n.s.k.-----	(NA)	(X)	(X)	—	(NA)	(X)	(X)	1.7
2221J	Finished manmade fiber and silk broadwoven fabrics (finished in weaving mills) ³ -----	(NA)	(X)	(X)	1 291.0	(NA)	(X)	(X)	1 036.4
	85 percent or more spun yarn fabrics:								
	Plain weave, except pile:								
2221J 01	Print cloth (finished)----- mil sq yd..	4	46.5	*16.5	37.8	(NA)	(⁶)	(⁶)	(⁶)
2221J 03	Poplin and broadcloth (finished)----- mil sq yd..	5	(D)	(D)	(D)	(NA)	(⁶)	(⁶)	(⁶)
2221J 05	Sheeting, including bedsheeting and osnaburgs (finished)----- mil sq yd..	2	(D)	(D)	(D)	(NA)	(⁶)	(⁶)	(⁶)
2221J 07	Lawns, voiles, and batistes (finished)----- mil sq yd..	(NA)	—	—	—	(NA)	(⁶)	(⁶)	(⁶)
2221J 11	Other types (finished)----- mil sq yd..	4	34.0	17.2	40.5	(NA)	(⁶)	(⁶)	(⁶)
2221J 13	Twill weave, except pile (finished)----- mil sq yd..	8	150.8	149.2	322.7	(NA)	(⁶)	(⁶)	(⁶)
	Other weaves, except pile:								
2221J 15	Sateens (finished)----- mil sq yd..	2	(D)	(D)	(D)	(NA)	(⁶)	(⁶)	(⁶)
2221J 19	Other, including oxfords, table damask, jacquard, and dobby shirting (finished)----- mil sq yd..	4	134.5	133.7	180.9	(NA)	(⁶)	(⁶)	(⁶)
2221J 23	Pile fabrics (velvets, plushes, corduroy, and others) (finished)----- mil sq yd..	5	19.9	19.9	49.2	(NA)	(⁶)	(⁶)	(⁶)
	85 percent or more filament yarn fabrics:								
2221J 25	Chiefly rayon and/or acetate (finished)----- mil sq yd..	3	(D)	(D)	(D)	(NA)	(⁶)	(⁶)	(⁶)
2221J 27	Chiefly polyester (finished)----- mil sq yd..	13	72.3	74.2	145.9	(NA)	(⁶)	(⁶)	(⁶)
2221J 29	Other (finished)----- mil sq yd..	7	150.3	149.4	197.6	(NA)	(⁶)	(⁶)	(⁶)
2221J 31	Other fabrics, including combinations of spun yarn and filament, blends with wool, silk, and blends with silk (finished)----- mil sq yd..	7	(D)	(D)	(D)	36	⁸ 597.1	⁸ 557.3	⁸ 1 036.4
2221J 00	Finished manmade fiber and silk broadwoven fabrics (finished in weaving mills), n.s.k.-----	(NA)	(X)	(X)	4.3	(NA)	(X)	(X)	(⁶)
2221K	Sheets and pillowcases, wholly or chiefly manmade fibers and silk (made in weaving mills)-----	(NA)	(X)	(X)	(D)	(NA)	(X)	(X)	(D)
2221K 00	Sheets and pillowcases, wholly or chiefly manmade fibers and silk (made in weaving mills) ⁵ -----	3	(X)	(X)	(D)	4	(X)	(X)	(D)
2221M	Fabricated manmade fiber and silk textile products, except sheets and pillowcases (made in weaving mills)-----	(NA)	(X)	(X)	(D)	(NA)	(X)	(X)	(D)
2221M 01	Quilted-----	2	(X)	(X)	(D)	(NA)	(X)	(X)	(D)
2221M 03	Nonquilted-----	12	(X)	(X)	(D)	(NA)	(X)	(X)	(D)
2221M 00	Fabricated manmade fiber and silk textile products, except sheets and pillowcases (made in weaving mills), n.s.k.-----	(NA)	(X)	(X)	—	(NA)	(X)	(X)	(D)
22210	Broadwoven fabrics mills, manmade fiber and silk, n.s.k.-----	(NA)	(X)	(X)	70.8	(NA)	(X)	(X)	186.3
22210 00	Broadwoven fabrics mills, manmade fiber and silk, n.s.k. ⁹ -----	(NA)	(X)	(X)	33.7	(NA)	(X)	(X)	103.2
22210 02	Broadwoven fabrics mills, manmade fiber and silk, n.s.k. ¹⁰ -----	(NA)	(X)	(X)	37.1	(NA)	(X)	(X)	83.1

See footnotes at end of table.

22A-18 WEAVING AND FLOOR COVERING MILLS

MANUFACTURES—INDUSTRY SERIES

Table 6a-1. Product and Product Classes—Quantity and Value of Shipments by All Producers: 1992 and 1987—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 further explanation, see Value of Shipments in appendixes. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	1992				1987			
		Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments ¹		Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments ¹	
				Quantity ²	Value (million dollars)			Quantity ²	Value (million dollars)
2231—	BROADWOVEN FABRICS MILLS, WOOL								
	Total	(NA)	(X)	(X)	1 388.2	(NA)	(X)	(X)	1 146.7
22311	Finished wool yarns, tops, or raw stock, not combed or spun at the same establishment	(NA)	(X)	(X)	63.4	(NA)	(X)	(X)	83.8
22311 00	Finished wool yarns, tops, or raw stock, not combed or spun at the same establishment mil lb..	12	(S)	(S)	63.4	11	41.5	*41.5	83.8
22312	Wool broadwoven fabrics (gray goods)	(NA)	(X)	(X)	393.4	(NA)	(X)	(X)	393.4
22312 00	Wool broadwoven fabrics (gray goods) mil sq yd..	19	186.1	121.3	393.4	18	180.8	132.3	393.4
22316	Finished broadwoven wool fabrics and felts	(NA)	(X)	(X)	887.0	(NA)	(X)	(X)	599.6
22316 00	Finished broadwoven wool fabrics and felts mil sq yd..	18	166.2	165.9	887.0	(NA)	81.3	*79.8	599.6
22317	Receipts for commission finishing or sponging of wool fabrics	(NA)	(X)	(X)	(D)	(NA)	(X)	(X)	20.9
22317 91	Shrinking, sponging, mending, etc., of wool broadwoven fabrics	4	(X)	(X)	(D)	6	(X)	(X)	8.1
22317 92	Job or commission finishing of wool broadwoven fabrics	4	(X)	(X)	3.1	2	(X)	(X)	(D)
22317 93	Finishing wool textiles, except broadwoven fabrics	3	(X)	(X)	3.1	6	(X)	(X)	10.0
22317 00	Receipts for commission finishing or sponging of wool fabrics, n.s.k.	(NA)	(X)	(X)	5.8	(NA)	(X)	(X)	(D)
22319	Fabricated textile products, 36 percent or more wool (made in weaving mills)	(NA)	(X)	(X)	(D)	(NA)	(X)	(X)	13.8
22319 01	Quilted	(NA)	(X)	(X)	-	(NA)	(X)	(X)	(D)
22319 03	Nonquilted	2	(X)	(X)	.6	(NA)	(X)	(X)	(D)
22319 00	Fabricated textile products, 36 percent or more wool (made in weaving mills), n.s.k.	(NA)	(X)	(X)	(D)	(NA)	(X)	(X)	2.1
22310	Broadwoven fabrics mills, wool, n.s.k.	(NA)	(X)	(X)	19.7	(NA)	(X)	(X)	35.1
22310 00	Broadwoven fabrics mills, wool, n.s.k. ¹¹	(NA)	(X)	(X)	11.6	(NA)	(X)	(X)	21.5
22310 02	Broadwoven fabrics mills, wool, n.s.k. ¹²	(NA)	(X)	(X)	8.1	(NA)	(X)	(X)	13.6
Product code	Product	1992				1987			
		Number of companies with shipments of \$100,000 or more	Product shipments ¹		Number of companies with shipments of \$100,000 or more	Product shipments ¹			
			Quantity ²	Value (million dollars)		Quantity ²	Value (million dollars)		
2241—	NARROW FABRICS MILLS								
	Total	(NA)	(X)	(X)	1 263.7	(NA)	(X)	(X)	1 170.6
22411	Woven narrow fabrics (12 inches or less in width)	(NA)	(X)	(X)	810.7	(NA)	(X)	(X)	770.6
	Woven elastic narrow fabrics:								
22411 03	Corset mil lin yd..	1	(D)	(D)	(D)	(NA)	(NA)	(NA)	(13)
22411 05	Underwear and other apparel mil lin yd..	12	*918.3	159.3	159.3	(NA)	(NA)	(NA)	(13)
22411 07	Other uses mil lin yd..	13	*110.5	25.5	25.5	41	(NA)	(NA)	13250.7
	Woven nonelastic narrow fabrics:								
22411 11	Labels mil labels..	18	**5 406.7	142.0	142.0	(NA)	(NA)	(NA)	(14)
22411 13	Ribbons, woven edge mil lin yd..	14	**1 308.2	117.8	117.8	(NA)	(NA)	(NA)	(14)
22411 14	Zipper tape mil lin yd..	2	(D)	(D)	(D)	(NA)	(NA)	(NA)	(14)
22411 15	Apparel tape, except zipper mil lin yd..	8	(S)	8.1	8.1	(NA)	(NA)	(NA)	(14)
22411 16	All other tape mil lin yd..	10	(D)	(D)	(D)	(NA)	(NA)	(NA)	(14)
22411 19	All other, including webbing mil lin yd..	36	890.0	195.4	195.4	79	(NA)	(NA)	14518.2
22411 00	Woven narrow fabrics (12 inches or less in width), n.s.k.	(NA)	(X)	(X)	78.5	(NA)	(X)	(X)	1.7
22414	Braided narrow fabrics (12 inches or less in width)	(NA)	(X)	(X)	201.4	(NA)	(X)	(X)	165.3
22414 01	Elastic braids (flat, round, and tubular) mil lin yd..	16	644.7	47.1	47.1	(NA)	(NA)	(NA)	(15)
	Nonelastic braids:								
22414 03	Shoe and corset laces mil lin yd..	8	*479.9	35.0	35.0	(NA)	(NA)	(NA)	(15)
22414 05	Other nonelastic braids mil lb..	20	**29.5	109.8	109.8	(NA)	(NA)	(NA)	15165.3
22414 00	Braided narrow fabrics (12 inches or less in width), n.s.k.	(NA)	(X)	(X)	9.5	(NA)	(X)	(X)	(15)
22415	Covered rubber thread	(NA)	(X)	(X)	197.8	(NA)	(X)	(X)	175.1
22415 00	Covered rubber thread mil lb..	15	*26.8	197.8	197.8	14	*26.0	*26.0	175.1
22410	Narrow fabrics mills, n.s.k.	(NA)	(X)	(X)	53.9	(NA)	(X)	(X)	59.7
22410 00	Narrow fabrics mills, n.s.k. ¹⁶	(NA)	(X)	(X)	35.5	(NA)	(X)	(X)	22.0
22410 02	Narrow fabrics mills, n.s.k. ¹⁷	(NA)	(X)	(X)	18.3	(NA)	(X)	(X)	37.7

See footnotes at end of table.

Table 6a-1. Product and Product Classes—Quantity and Value of Shipments by All Producers: 1992 and 1987—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 further explanation, see Value of Shipments in appendixes. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	1992			1987		
		Number of companies with shipments of \$100,000 or more	Product shipments ¹		Number of companies with shipments of \$100,000 or more	Product shipments ¹	
			Quantity ²	Value (million dollars)		Quantity ²	Value (million dollars)
2273—	CARPETS AND RUGS						
	Total	(NA)	(X)	9 514.2	(NA)	(X)	9 291.3
22731	Woven carpets and rugs	(NA)	(X)	285.1	(NA)	(X)	269.7
22731 00	Woven carpets and rugs ¹⁸	19	18.8	285.1	25	*20.0	269.7
22732	Tufted carpets and rugs	(NA)	(X)	8 801.6	(NA)	(X)	8 547.1
22732 20	Tufted only or tufted and finished in the same establishment ¹⁸	128	1 321.3	8 094.7	111	1 237.3	7 170.6
22732 40	Finished only	25	158.7	706.9	32	377.8	1 363.7
22732 00	Tufted carpets and rugs, n.s.k.	(NA)	(X)	—	(NA)	(X)	39.8
22733	Carpets and rugs, n.e.c.	(NA)	(X)	331.2	(NA)	(X)	330.2
22733 00	Carpets, rugs, and mats, n.e.c. (knitted, braided, hooked, needlepunched, woven paper yarn, coconut fiber, etc.) ¹⁸	30	89.3	331.2	(NA)	(S)	330.2
22730	Carpets and rugs, n.s.k.	(NA)	(X)	96.3	(NA)	(X)	144.3
22730 00	Carpets and rugs, n.s.k. ¹¹	(NA)	(X)	24.2	(NA)	(X)	—
22730 02	Carpets and rugs, n.s.k. ¹²	(NA)	(X)	72.1	(NA)	(X)	144.3

¹Data reported by all producers, not just those with shipments of \$100,000 or more.

²For 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: *10 to 19 percent estimated; **20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

³This product class is primary to more than one industry.

⁴For 1987, data for these products were not collected separately, but are included with product code 2211F 23. Detailed data for 1987 were published in the Current Industrial Report Series MA22S, Finished Broadwoven Fabric Production.

⁵This product code is primary to more than one industry.

⁶Typically for establishments with 5 employees or more.

⁷Typically for establishments with less than 5 employees.

⁸For 1987, data for these products were not collected separately, but are included with product code 2221J 31. Detailed data for 1987 were published in the Current Industrial Report Series MA22S, Finished Broadwoven Fabric Production.

⁹Typically for establishments with 15 employees or more.

¹⁰Typically for establishments with less than 15 employees.

¹¹Typically for establishments with 20 employees or more.

¹²Typically for establishments with less than 20 employees.

¹³For 1987, data for these products were not collected separately, but are included with product code 22411 07. Detailed data for 1987 were published in the Current Industrial Report Series MA22G, Narrow Fabrics.

¹⁴For 1987, data for these products were not collected separately, but are included with product code 22411 19. Detailed data for 1987 were published in the Current Industrial Report Series MA22G, Narrow Fabrics.

¹⁵For 1987, data for these products were not collected separately, but are included with product code 22414 05. Detailed data for 1987 were published in the Current Industrial Report Series MA22G, Narrow Fabrics.

¹⁶Typically for establishments with 10 employees or more.

¹⁷Typically for establishments with less than 10 employees.

¹⁸Additional detail is collected for this product code in the Current Industrial Reports. For the survey number and title, see appendix C, part 3.

Table 6a-2. Selected Products Primary to More Than One Industry—Quantity and Value of Shipments by Industry: 1992 and 1987

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

Product code	Product	1992				1987			
		Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments ¹		Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments ¹	
				Quantity ²	Value (million dollars)			Quantity ²	Value (million dollars)
2211F	Finished cotton broadwoven fabrics	(NA)	(X)	(X)	3 120.4	(NA)	(X)	(X)	1 759.0
22617	Finished in weaving mills	(NA)	(X)	(X)	1 253.6	(NA)	(X)	(X)	809.9
	Finished in other industries	(NA)	(X)	(X)	1 866.8	(NA)	(X)	(X)	949.1
2211F 01	Plain weave print cloth	(NA)	410.3	384.0	416.3	(NA)	(3)	(3)	(3)
22617 01	Finished in weaving mills	6	(D)	(D)	(D)	(NA)	(3)	(3)	(3)
	Finished in other industries	23	(D)	(D)	(D)	(NA)	(3)	(3)	(3)
2211F 03	Plain weave poplin and broadcloth	(NA)	96.1	95.1	80.0	(NA)	(3)	(3)	(3)
22617 03	Finished in weaving mills	1	(D)	(D)	(D)	(NA)	(3)	(3)	(3)
	Finished in other industries	7	(D)	(D)	(D)	(NA)	(3)	(3)	(3)
2211F 05	Plain weave sheeting, including bedsheets and osnaburgs	(NA)	1 136.0	1 130.8	831.5	(NA)	(3)	(3)	(3)
22617 05	Finished in weaving mills	4	(D)	(D)	(D)	(NA)	(3)	(3)	(3)
	Finished in other industries	18	(D)	(D)	(D)	(NA)	(3)	(3)	(3)
2211F 07	Plain weave tobacco, cheese, and bandage cloth	(NA)	53.4	53.1	55.3	(NA)	(3)	(3)	(3)
22617 07	Finished in weaving mills	1	(D)	(D)	(D)	(NA)	(3)	(3)	(3)
	Finished in other industries	3	(D)	(D)	(D)	(NA)	(3)	(3)	(3)
2211F 09	Plain weave duck	(NA)	(D)	(D)	(D)	(NA)	(3)	(3)	(3)
22617 09	Finished in weaving mills	—	—	—	—	(NA)	(3)	(3)	(3)
	Finished in other industries	7	(D)	(D)	(D)	(NA)	(3)	(3)	(3)

See footnotes at end of table.

22A-20 WEAVING AND FLOOR COVERING MILLS

MANUFACTURES—INDUSTRY SERIES

Table 6a-2. Selected Products Primary to More Than One Industry—Quantity and Value of Shipments by Industry: 1992 and 1987—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 further explanation, see Value of Shipments in appendixes. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	1992				1987			
		Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments ¹		Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments ¹	
				Quantity ²	Value (million dollars)			Quantity ²	Value (million dollars)
	Finished cotton broadwoven fabrics—Con.								
	Other plain weave fabrics, including lawns, voiles, and batistes	(NA)	(D)	(D)	(D)	(NA)	(3)	(3)	(3)
2211F 11	Finished in weaving mills	—	(D)	(D)	(D)	(NA)	(3)	(3)	(3)
22617 11	Finished in other industries	4	15.1	13.4	17.3	(NA)	(3)	(3)	(3)
	Twill weave, except pile	(NA)	764.2	748.6	1 034.3	(NA)	(3)	(3)	(3)
2211F 13	Finished in weaving mills	9	493.6	490.1	752.9	(NA)	(3)	(3)	(3)
22617 13	Finished in other industries	10	270.6	258.5	281.4	(NA)	(3)	(3)	(3)
	Sateens	(NA)	8.3	7.1	16.0	(NA)	(3)	(3)	(3)
2211F 15	Finished in weaving mills	1	(D)	(D)	(D)	(NA)	(3)	(3)	(3)
22617 15	Finished in other industries	6	(D)	(D)	(D)	(NA)	(3)	(3)	(3)
	Other weave fabrics, including oxfords, table damask, jacquard, dobby shirting, and birdseye diaper cloth	(NA)	190.5	185.9	266.3	(NA)	(3)	(3)	(3)
2211F 19	Finished in weaving mills	8	102.3	100.3	142.2	(NA)	(3)	(3)	(3)
22617 19	Finished in other industries	8	88.2	85.7	124.1	(NA)	(3)	(3)	(3)
	Pile fabrics (velvets, plushes, corduroy, terry toweling, terry cloth, etc.)	(NA)	136.4	136.3	249.1	(NA)	³¹ 519.1	³¹ 320.7	³¹ 759.0
2211F 23	Finished in weaving mills	6	(D)	(D)	(D)	27	^{3631.7}	^{3475.4}	^{3809.9}
22617 23	Finished in other industries	3	(D)	(D)	(D)	68	^{3887.4}	^{3845.3}	^{3949.1}
	Finished cotton broadwoven fabrics, n.s.k.	(NA)	(X)	(X)	19.9	(NA)	(X)	(X)	(3)
2211F 00	Finished in weaving mills	(NA)	(X)	(X)	2.6	(NA)	(X)	(X)	(3)
22617 00	Finished in other industries	(NA)	(X)	(X)	17.3	(NA)	(X)	(X)	(3)
	Towels and washcloths	(NA)	(X)	(X)	1 343.1	(NA)	(X)	(X)	1 284.3
2211G	Made in weaving mills	(NA)	(X)	(X)	731.6	(NA)	(X)	(X)	783.7
23923	Made in other industries	(NA)	(X)	(X)	611.4	(NA)	(X)	(X)	500.6
	Terry towels and washcloths, including pile	(NA)	(X)	(X)	1 283.5	(NA)	(X)	(X)	(D)
2211G 10	Made in weaving mills	6	(X)	(X)	(D)	9	(X)	(X)	(D)
23923 10	Made in other industries	20	(X)	(X)	(D)	19	(X)	(X)	480.8
	Other towels, including huck and crash	(NA)	(X)	(X)	14.3	(NA)	(X)	(X)	(D)
2211G 30	Made in weaving mills	1	(X)	(X)	(D)	2	(X)	(X)	(D)
23923 13	Made in other industries	5	(X)	(X)	(D)	4	(X)	(X)	19.8
	Towels and washcloths, n.s.k.	(NA)	(X)	(X)	45.2	(NA)	(X)	(X)	(D)
2211G 00	Made in weaving mills	(NA)	(X)	(X)	—	(NA)	(X)	(X)	(D)
23923 00	Made in other industries	(NA)	(X)	(X)	45.2	(NA)	(X)	(X)	—
	Sheets and pillowcases	(NA)	(X)	(X)	1 560.8	(NA)	(X)	(X)	(D)
	Made in weaving mills	(NA)	(X)	(X)	559.0	(NA)	(X)	(X)	(D)
2211H 25	Wholly or chiefly cotton fabrics	5	(X)	(X)	(D)	6	(X)	(X)	209.4
2221K 00	Wholly or chiefly manmade fibers and silk	3	(X)	(X)	(D)	4	(X)	(X)	(D)
23922 00	Made in other industries	43	(X)	(X)	1 001.8	45	(X)	(X)	717.8
	Finished manmade fiber and silk broadwoven fabrics	(NA)	(X)	(X)	3 258.0	(NA)	(X)	(X)	3 737.0
2221J	Finished in weaving mills	(NA)	(X)	(X)	1 291.0	(NA)	(X)	(X)	1 036.4
22628	Finished in other industries	(NA)	(X)	(X)	1 967.0	(NA)	(X)	(X)	2 700.6
	Plain weave print cloth	(NA)	265.3	235.2	227.0	(NA)	(3)	(3)	(3)
2221J 01	Finished in weaving mills	4	46.5	*16.5	37.8	(NA)	(3)	(3)	(3)
22628 01	Finished in other industries	16	218.8	218.8	189.2	(NA)	(3)	(3)	(3)
	Plain weave poplin and broadcloth	(NA)	*242.1	*241.0	283.2	(NA)	(3)	(3)	(3)
2221J 03	Finished in weaving mills	5	(D)	(D)	(D)	(NA)	(3)	(3)	(3)
22628 03	Finished in other industries	7	(D)	(D)	(D)	(NA)	(3)	(3)	(3)
	Plain weave sheeting, including bedsheets and osnaburgs	(NA)	100.8	83.1	111.8	(NA)	(3)	(3)	(3)
2221J 05	Finished in weaving mills	2	(D)	(D)	(D)	(NA)	(3)	(3)	(3)
22628 05	Finished in other industries	5	(D)	(D)	(D)	(NA)	(3)	(3)	(3)
	Plain weave lawns, voiles, and batistes	(NA)	(D)	(D)	(D)	(NA)	(3)	(3)	(3)
2221J 07	Finished in weaving mills	—	—	—	—	(NA)	(3)	(3)	(3)
22628 07	Finished in other industries	1	(D)	(D)	(D)	(NA)	(3)	(3)	(3)
	Other plain weave fabrics	(NA)	112.7	94.7	101.5	(NA)	(3)	(3)	(3)
2221J 11	Finished in weaving mills	4	34.0	17.2	40.5	(NA)	(3)	(3)	(3)
22628 11	Finished in other industries	6	78.7	77.5	61.0	(NA)	(3)	(3)	(3)
	Twill weave, except pile	(NA)	377.4	364.5	522.3	(NA)	(3)	(3)	(3)
2221J 13	Finished in weaving mills	8	150.8	149.2	322.7	(NA)	(3)	(3)	(3)
22628 13	Finished in other industries	6	226.7	215.3	199.6	(NA)	(3)	(3)	(3)
	Sateens	(NA)	(D)	(D)	(D)	(NA)	(3)	(3)	(3)
2221J 15	Finished in weaving mills	2	(D)	(D)	(D)	(NA)	(3)	(3)	(3)
22628 15	Finished in other industries	4	22.0	22.0	27.4	(NA)	(3)	(3)	(3)
	Other weave fabrics, including oxfords, table damask, jacquard, and dobby shirting	(NA)	356.1	350.9	514.5	(NA)	(3)	(3)	(3)
2221J 19	Finished in weaving mills	4	134.5	133.7	180.9	(NA)	(3)	(3)	(3)
22628 19	Finished in other industries	9	221.6	217.2	333.6	(NA)	(3)	(3)	(3)
	Pile fabrics	(NA)	77.3	77.3	124.7	(NA)	(3)	(3)	(3)
2221J 23	Finished in weaving mills	5	19.9	19.9	49.2	(NA)	(3)	(3)	(3)
22628 23	Finished in other industries	4	57.4	57.4	75.5	(NA)	(3)	(3)	(3)
	85 percent or more chiefly rayon and/or acetate	(NA)	*137.6	98.1	164.6	(NA)	(3)	(3)	(3)
2221J 25	Finished in weaving mills	3	(D)	(D)	(D)	(NA)	(3)	(3)	(3)
22628 25	Finished in other industries	9	(D)	(D)	(D)	(NA)	(3)	(3)	(3)
	85 or more chiefly polyester	(NA)	348.7	341.1	496.8	(NA)	(3)	(3)	(3)
2221J 27	Finished in weaving mills	13	72.3	74.2	145.9	(NA)	(3)	(3)	(3)
22628 27	Finished in other industries	13	276.4	266.9	350.9	(NA)	(3)	(3)	(3)
	Other 85 percent or more filament yarn fabrics	(NA)	272.1	268.4	349.8	(NA)	(3)	(3)	(3)
2221J 29	Finished in weaving mills	7	150.3	149.4	197.6	(NA)	(3)	(3)	(3)
22628 29	Finished in other industries	8	121.7	119.0	152.2	(NA)	(3)	(3)	(3)
	Other fabrics, including combinations of spun yarn and filament, blends with wool, silk, and blends with silk	(NA)	143.5	143.5	302.5	(NA)	⁴² 390.2	⁴² 305.4	⁴³ 737.0
2221J 31	Finished in weaving mills	7	(D)	(D)	(D)	36	^{4597.1}	^{4557.3}	⁴¹ 036.4
22628 31	Finished in other industries	6	(D)	(D)	(D)	61	^{41 793.1}	^{41 748.1}	⁴² 700.6
	Finished manmade fiber and silk broadwoven fabrics, n.s.k.	(NA)	(X)	(X)	24.8	(NA)	(X)	(X)	(3)
2221J 00	Finished in weaving mills	(NA)	(X)	(X)	4.3	(NA)	(X)	(X)	(3)
22628 00	Finished in other industries	(NA)	(X)	(X)	20.5	(NA)	(X)	(X)	(3)

Note: For qualifications of data, see footnotes on table 6a-1.

Table 6a-2. **Selected Products Primary to More Than One Industry—Quantity and Value of Shipments by Industry: 1992 and 1987—Con.**

¹Data reported by all producers, not just those with shipments of \$100,000 or more.
²For 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: *10 to 19 percent estimated; **20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).
³For 1987, data for these products were not collected separately, but were included with either 2211F 23 or 22617 23.
⁴For 1987, data for these products were not collected separately, but were included with either 2221J 31 or 22628 31.

Table 6b. **Product Classes—Value of Shipments by All Producers for Specified States: 1992 and 1987**

[Million dollars. Product classes shown are those where the data are 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 1992. For meaning of abbreviations and symbols, see introductory text]

Product class and geographic area	1992 value of product shipments	1987 value of product shipments	Product class and geographic area	1992 value of product shipments	1987 value of product shipments
2211B, PLAIN WEAVE FABRICS, EXCEPT PILE (GRAY GOODS)			2221C, 85 PERCENT OR MORE FILAMENT FABRICS, EXCEPT RAYON OR ACETATE (GRAY GOODS)		
United States	941.4	2 014.9	United States	2 222.9	1 452.6
Alabama	94.4	114.9	Georgia	611.0	347.3
Georgia	248.1	364.1	Massachusetts	33.8	(NA)
North Carolina	96.9	618.3	New York	35.6	(NA)
South Carolina	410.9	786.6	North Carolina	384.2	268.1
			Pennsylvania	107.1	82.0
			South Carolina	618.6	337.8
			Virginia	251.3	(NA)
2211C, TWILL WEAVE FABRICS, EXCEPT PILE (GRAY GOODS)			2221D, 85 PERCENT OR MORE SPUN YARN PLAIN WEAVE FABRICS, EXCEPT WOOL BLENDS (GRAY GOODS)		
United States	1 381.7	675.5	United States	1 952.7	2 035.9
Georgia	290.8	181.2	Alabama	235.7	183.8
North Carolina	551.1	178.5	Georgia	158.6	215.6
South Carolina	407.8	199.0	North Carolina	334.0	248.9
			South Carolina	1 178.4	1 285.2
2211D, ALL OTHER WEAVES, EXCEPT PILE (GRAY GOODS)			2221E, 85 PERCENT OR MORE SPUN YARN TWILL WEAVE FABRICS, EXCEPT PILE, EXCLUDING WOOL BLENDS (GRAY GOODS)		
United States	535.1	223.6	United States	301.7	240.2
Georgia	77.0	17.4	North Carolina	29.3	39.8
North Carolina	188.8	93.4	South Carolina	232.0	132.3
Pennsylvania	28.6	34.7			
South Carolina	88.2	43.8	2221F, OTHER 85 PERCENT OR MORE SPUN YARN FABRICS, EXCEPT PILE, EXCLUDING WOOL BLENDS (GRAY GOODS)		
2211E, PILE FABRICS (GRAY GOODS)			United States	359.3	210.7
United States	300.9	369.3	Georgia	23.3	13.3
Georgia	22.0	(NA)	North Carolina	136.3	67.5
			Pennsylvania	18.8	7.2
2211F, FINISHED COTTON BROADWOVEN FABRICS (FINISHED IN WEAVING MILLS)			South Carolina	137.0	79.6
United States	1 253.6	809.9	2221G, COMBINATIONS OF SPUN YARN AND FILAMENT FABRICS, EXCEPT WOOL BLENDS, EACH LESS THAN 85% OF TOTAL FIBER CONTENT (GRAY)		
Georgia	409.8	301.7	United States	983.6	952.6
North Carolina	448.7	308.2	Alabama	112.2	90.0
South Carolina	44.3	64.1	North Carolina	359.0	447.2
Texas	167.5	94.5	Pennsylvania	56.4	49.5
2211G, COTTON TOWELS AND WASHCLOTHS (MADE IN WEAVING MILLS)			South Carolina	242.1	320.2
United States	731.6	783.7	2221H, OTHER MANMADE FIBER FABRICS AND SILK FABRICS (GRAY GOODS)		
			United States	236.8	666.9
2211H, FABRICATED COTTON TEXTILE PRODUCTS, EXCEPT TOWELS AND WASHCLOTHS (MADE IN WEAVING MILLS)			North Carolina	143.3	140.7
United States	497.6	396.5	South Carolina	15.2	(NA)
North Carolina	84.0	101.4	2221J, FINISHED MANMADE FIBER AND SILK BROADWOVEN FABRICS (FINISHED IN WEAVING MILLS)		
2221B, 85 PERCENT OR MORE FILAMENT RAYON AND/OR ACETATE FABRICS, INCLUDING BLENDS CHIEFLY RAYON AND/OR ACETATE (GRAY GOODS)			United States	1 291.0	1 036.4
United States	639.7	559.3	Georgia	133.4	89.8
North Carolina	91.0	133.8	North Carolina	308.2	318.3
Pennsylvania	21.3	78.9	Pennsylvania	53.4	(NA)
Rhode Island	29.3	(NA)	Rhode Island	17.9	(NA)
South Carolina	135.6	55.4	South Carolina	220.9	262.7
Virginia	239.4	182.1	Virginia	215.2	(NA)

See footnotes at end of table.

Table 6b. Product Classes—Value of Shipments by All Producers for Specified States: 1992 and 1987—Con.

[Million dollars. Product classes shown are those where the data are 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 1992. For meaning of abbreviations and symbols, see introductory text]

Product class and geographic area	1992 value of product shipments	1987 value of product shipments	Product class and geographic area	1992 value of product shipments	1987 value of product shipments
2221K, SHEETS AND PILLOWCASES, WHOLLY OR CHIEFLY MANMADE FIBERS AND SILK (MADE IN WEAVING MILLS)			22411, WOVEN NARROW FABRICS (12 INCHES OR LESS IN WIDTH)		
United States	(D)	(D)	United States	810.7	770.6
			Alabama	42.5	37.8
			California	39.1	(NA)
			Florida	11.6	(NA)
			Georgia	19.6	9.6
			Massachusetts	30.3	40.4
			New Jersey	44.9	41.7
			New York	4.2	24.0
			North Carolina	76.5	128.2
			Pennsylvania	65.7	68.9
			Rhode Island	66.8	71.0
			South Carolina	133.1	105.8
			Tennessee	10.3	8.3
			Virginia	43.2	(NA)
2221M, FABRICATED MANMADE FIBER AND SILK TEXTILE PRODUCTS, EXCEPT SHEETS AND PILLOWCASES (MADE IN WEAVING MILLS)			22414, BRAIDED NARROW FABRICS (12 INCHES OR LESS IN WIDTH)		
United States	(D)	(D)	United States	201.4	165.3
			Massachusetts	11.0	16.1
			North Carolina	22.0	(NA)
			Pennsylvania	45.6	23.9
			Rhode Island	42.8	48.1
22311, FINISHED WOOL YARNS, TOPS, OR RAW STOCK, NOT COMBED OR SPUN AT THE SAME ESTABLISHMENT			22415, COVERED RUBBER THREAD		
United States	63.4	83.8	United States	197.8	175.1
Georgia	6.3	(NA)	North Carolina	185.2	159.0
22312, WOOL BROADWOVEN FABRICS (GRAY GOODS)			22731, WOVEN CARPETS AND RUGS		
United States	393.4	393.4	United States	285.1	269.7
Pennsylvania	7.1	(NA)	Georgia	84.9	53.2
22316, FINISHED BROADWOVEN WOOL FABRICS AND FELTS			Pennsylvania	25.3	23.8
United States	887.0	599.6	South Carolina	82.7	(NA)
Maine	88.9	119.6	22732, TUFTED CARPETS AND RUGS		
New Hampshire	59.2	(NA)	United States	8 801.6	8 546.4
22317, RECEIPTS FOR COMMISSION FINISHING OR SPONGING OF WOOL FABRICS			Alabama	129.7	194.9
United States	(D)	20.9	California	523.4	616.9
Massachusetts	9.0	6.0	Georgia	6 776.9	6 332.0
New York	2.2	(NA)	South Carolina	282.1	323.3
22319, FABRICATED TEXTILE PRODUCTS, 36 PERCENT OR MORE WOOL (MADE IN WEAVING MILLS)			Tennessee	122.6	153.2
United States	(D)	13.8	22733, CARPETS AND RUGS, N.E.C.		
			United States	331.2	330.2
			Georgia	70.6	41.5
			Rhode Island	10.8	19.2
			South Carolina	32.3	13.5

Note: For qualifications of data, see footnotes on table 6a.

Table 6c. Historical Statistics for Product Classes—Value Shipped by All Producers: 1992 and Earlier Years

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

Product code	Product class	1992	1991 ¹	1990 ¹	1989 ¹	1988 ¹	1987	1982	1977
2211-	Broadwoven fabrics mills, cotton	5 711.6	5 497.7	5 286.4	5 336.9	5 349.8	5 405.6	3 635.0	4 132.0
2211B	Plain weave fabrics, except pile (gray goods)	941.4	1 916.9	1 882.6	1 911.8	1 971.4	2 014.9	} 2 066.2	} 2 615.1
2211C	Twill weave fabrics, except pile (gray goods)	1 381.7	769.8	658.3	645.7	667.6	675.5		
2211D	All other weaves, except pile (gray goods)	535.1	368.3	325.2	257.4	206.0	223.6		
2211E	Pile fabrics (gray goods)	300.9	320.3	330.2	320.6	336.8	369.3		
2211F	Finished cotton broadwoven fabrics (finished in weaving mills)	1 253.6	918.7	832.9	809.0	878.6	809.9	724.7	928.1
2211G	Cotton towels and washcloths (made in weaving mills)	731.6	727.2	794.5	932.9	788.3	783.7	608.1	416.4
2211H	Fabricated cotton textile products, except towels and washcloths (made in weaving mills)	497.6	380.4	350.6	344.7	357.3	396.5	99.8	108.2
2211I	Broadwoven fabrics mills, cotton, n.s.k.	69.6	96.1	111.9	114.9	143.9	132.3	136.2	64.2

See footnotes at end of table.

Table 6c. Historical Statistics for Product Classes—Value Shipped by All Producers: 1992 and Earlier Years—Con.

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

Product code	Product class	1992	1991 ¹	1990 ¹	1989 ¹	1988 ¹	1987	1982	1977
2221-2221B	Broadwoven fabrics mills, manmade fiber and silk -----	8 470.8	7 898.2	8 133.4	8 434.2	8 332.3	7 772.0	7 820.3	5 981.5
	85 percent or more filament rayon and/or acetate fabrics, including blends chiefly rayon and/or acetate (gray goods) -----	639.7	720.0	726.6	703.2	661.1	559.3		
2221C	85 percent or more filament fabrics, except rayon or acetate (gray goods) -----	2 222.9	1 975.1	1 908.0	1 950.8	1 682.1	1 452.6		
2221D	85 percent or more spun yarn plain weave fabrics, except wool blends (gray goods) -----	1 952.7	1 848.4	1 755.8	1 792.1	1 844.0	2 035.9	5 820.2	4 300.8
2221E	85 percent or more spun yarn twill weave fabrics, except pile, excluding wool blends (gray goods) -----	301.7	248.6	214.7	242.4	235.6	240.2		
2221F	Other 85 percent or more spun yarn fabrics, except pile, excluding wool blends (gray goods) -----	359.3	190.5	160.2	196.5	234.7	210.7		
2221G	Combinations of spun yarn and filament fabrics, except wool blends, each less than 85% of total fiber content (gray) -----	983.6	972.7	992.9	1 006.6	1 036.5	952.6		
2221H	Other manmade fiber fabrics and silk fabrics (gray goods) -----	236.8	671.1	758.9	758.5	737.2	666.9		
2221J	Finished manmade fiber and silk broadwoven fabrics (finished in weaving mills) -----	1 291.0	718.0	811.7	880.5	1 050.1	1 036.4	1 109.8	1 127.0
2221K	Sheets and pillowcases, wholly or chiefly manmade fibers and silk (made in weaving mills) -----	(D)	(D)	(D)	(D)	(D)	(D)	462.9	426.8
2221M	Fabricated manmade fiber and silk textile products, except sheets and pillowcases (made in weaving mills) -----	(D)	(D)	(D)	(D)	(D)	(D)	86.2	126.9
22210	Broadwoven fabrics mills, manmade fiber and silk, n.s.k. -----	70.8	134.2	140.1	188.6	219.3	186.3	341.2	
2231-22311	Broadwoven fabrics mills, wool -----	1 388.2	1 491.7	1 442.6	1 658.0	1 625.9	1 146.7	834.0	581.3
	Finished wool yarns, tops, or raw stock, not combed or spun at the same establishment -----	63.4	(D)	(D)	(D)	97.2	83.8	(D)	39.5
22312	Wool broadwoven fabrics (gray goods) -----	393.4	419.1	418.1	471.0	481.0	393.4	137.8	97.3
22316	Finished broadwoven wool fabrics and felts -----	887.0	939.3	866.1	1 017.1	967.5	599.6	570.1	382.5
22317	Receipts for commission finishing or sponging of wool fabrics -----	(D)	(D)	(D)	(D)	26.3	20.9	(D)	26.8
22319	Fabricated textile products, 36 percent or more wool (made in weaving mills) -----	(D)	(D)	(D)	(D)	18.7	13.8	24.5	9.2
22310	Broadwoven fabrics mills, wool, n.s.k. -----	19.7	27.9	31.1	30.4	35.2	35.1	44.3	26.0
2241-22411	Narrow fabrics mills -----	1 263.7	1 164.7	1 197.6	1 254.6	1 320.3	1 170.6	826.1	645.0
	Woven narrow fabrics (12 inches or less in width) -----	810.7	764.7	827.1	806.7	873.8	770.6	568.2	413.5
22414	Braided narrow fabrics (12 inches or less in width) -----	201.4	156.5	145.1	170.0	170.3	165.3	135.7	133.4
22415	Covered rubber thread -----	197.8	170.2	154.5	212.6	210.3	175.1	86.8	56.1
22410	Narrow fabrics mills, n.s.k. -----	53.9	73.3	71.0	65.2	65.9	59.7	35.4	42.0
2273-22731	Carpets and rugs -----	9 514.2	8 555.2	9 610.5	9 825.8	9 759.0	9 291.3	5 592.4	4 433.1
	Woven carpets and rugs -----	285.1	306.1	320.2	296.3	270.6	269.7	217.8	167.9
22732	Tufted carpets and rugs -----	8 801.6	7 763.2	8 821.8	9 100.3	9 089.2	8 547.1	5 152.4	4 172.2
22733	Carpets and rugs, n.e.c. -----	331.2	301.0	269.2	253.3	242.3	330.2	148.2	93.0
22730	Carpets and rugs, n.s.k. -----	96.3	185.0	199.3	175.9	156.9	144.3	(NA)	(NA)

¹Figures are estimates derived from a representative sample of manufacturing establishments. Standard errors associated with estimates are published in annual survey of manufactures publications for this period.

Table 7. Materials Consumed by Kind: 1992 and 1987

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

Material code	Material	1992		1987	
		Quantity ¹	Delivered cost (million dollars)	Quantity ¹	Delivered cost (million dollars)
	INDUSTRY 2211, BROADWOVEN FABRICS MILLS, COTTON				
	Materials, ingredients, containers, and supplies -----	(X)	2 982.0	(X)	2 487.7
	Raw fibers:				
013101	Raw cotton ----- 1,000 bales ..	3 332.3	1 068.8	2 993.3	898.2
020001	Raw wool, mohair, and other animal fibers (scoured weight) ----- mil lb ..	--	--	(NA)	(?)
229963	Wool tops ----- mil lb ..	--	--	(NA)	(?)
	Staple and tow:				
282305	Rayon and acetate ----- mil lb ..	**11.3	12.2	4.1	3.7
282413	Nylon ----- mil lb ..	(D)	(D)	(D)	(D)
282425	Polyester ----- mil lb ..	131.9	98.3	197.0	116.3
282428	All other manmade fiber staple and tow (except glass) ----- mil lb ..	2.0	1.4	1.3	.9
010014	All other fibers (silk, jute, reused wool, waste, etc.) ----- mil lb ..	(D)	(D)	(D)	(D)
	Filament yarns:				
282301	Rayon and acetate ----- mil lb ..	18.6	41.9	(D)	(D)
282411	Nylon ----- mil lb ..	(D)	(D)	.3	.9
282423	Polyester ----- mil lb ..	70.0	62.0	42.5	35.0
282407	All other filament yarn, except glass ----- mil lb ..	3.4	6.3	5.2	4.0
322935	Glass filament yarn and roving ----- mil lb ..	(D)	(D)	(D)	(D)
228101	Spun yarn, all fibers ----- mil lb ..	*489.4	583.2	336.7	406.4
220211	Broadwoven fabrics ----- mil sq yd ..	712.7	461.8	*292.0	377.1
280031	Dyes, lakes, and toners -----	(X)	112.1	(X)	83.9
970099	All other materials and components, parts, containers, and supplies -----	(X)	504.1	(X)	2521.1
971000	Materials, ingredients, containers, and supplies, n.s.k. ³ -----	(X)	26.2	(X)	25.5

See footnotes at end of table.

22A-24 WEAVING AND FLOOR COVERING MILLS

MANUFACTURES—INDUSTRY SERIES

Table 7. Materials Consumed by Kind: 1992 and 1987—Con.

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

Material code	Material	1992		1987	
		Quantity ¹	Delivered cost (million dollars)	Quantity ¹	Delivered cost (million dollars)
INDUSTRY 2221, BROADWOVEN FABRICS MILLS, MANMADE FIBER AND SILK					
Materials, ingredients, containers, and supplies -----		(X)	4 381.5	(X)	4 041.9
Raw fibers:					
013101	Raw cotton ----- 1,000 bales--	980.0	342.2	813.3	285.0
020001	Raw wool, mohair, and other animal fibers (scoured weight) ----- mil lb--	(D)	(D)	(D)	(D)
229963	Wool tops----- mil lb--	(D)	(D)	(D)	(D)
Staple and tow:					
282305	Rayon and acetate----- mil lb--	175.1	204.9	*96.7	72.1
282413	Nylon----- mil lb--	**19.7	36.6	6.0	9.4
282425	Polyester----- mil lb--	504.3	370.4	469.9	317.3
282428	All other manmade fiber staple and tow (except glass)----- mil lb--	192.2	90.1	(S)	21.2
010014	All other fibers (silk, jute, reused wool, waste, etc.)----- mil lb--	(S)	12.2	(S)	16.7
Filament yarns:					
282301	Rayon and acetate----- mil lb--	152.6	235.0	139.9	204.7
282411	Nylon----- mil lb--	173.4	252.2	84.2	163.5
282423	Polyester----- mil lb--	342.6	504.5	377.4	513.2
282407	All other filament yarn, except glass ----- mil lb--	157.7	278.4	*79.2	156.6
322935	Glass filament yarn and roving ----- mil lb--	148.2	252.3	*137.3	235.5
228101	Spun yarn, all fibers ----- mil lb--	*546.6	939.5	*520.4	862.1
220211	Broadwoven fabrics ----- mil sq yd--	107.8	103.5	*240.3	342.2
280031	Dyes, lakes, and toners -----	(X)	41.5	(X)	44.3
970099	All other materials and components, parts, containers, and supplies-----	(X)	666.0	(X)	749.9
971000	Materials, ingredients, containers, and supplies, n.s.k. ³ -----	(X)	39.1	(X)	46.1
INDUSTRY 2231, BROADWOVEN FABRICS MILLS, WOOL					
Materials, ingredients, containers, and supplies -----		(X)	887.3	(X)	524.6
Raw fibers:					
013101	Raw cotton ----- 1,000 bales--	(D)	(D)	(D)	(D)
020001	Raw wool, mohair, and other animal fibers (scoured weight) ----- mil lb--	**97.0	196.4	100.5	174.8
229963	Wool tops----- mil lb--	**26.9	90.0	52.0	150.1
Staple and tow:					
282305	Rayon and acetate----- mil lb--	(D)	(D)	(D)	(D)
282413	Nylon----- mil lb--	(S)	8.0	3.9	4.8
282425	Polyester----- mil lb--	(D)	(D)	(D)	(D)
282428	All other manmade fiber staple and tow (except glass)----- mil lb--	(D)	(D)	(D)	(D)
010014	All other fibers (silk, jute, reused wool, waste, etc.)----- mil lb--	(D)	(D)	(D)	(D)
Filament yarns:					
282301	Rayon and acetate----- mil lb--	(D)	(D)	(NA)	(²)
282411	Nylon----- mil lb--	(D)	(D)	(D)	(D)
282423	Polyester----- mil lb--	(D)	(D)	(D)	(D)
282407	All other filament yarn, except glass ----- mil lb--	(D)	(D)	(NA)	(²)
322935	Glass filament yarn and roving ----- mil lb--	-	-	(NA)	(²)
228101	Spun yarn, all fibers ----- mil lb--	50.5	205.8	*13.4	27.8
220211	Broadwoven fabrics ----- mil sq yd--	(D)	(D)	(D)	(D)
280031	Dyes, lakes, and toners -----	(X)	33.2	(X)	19.7
970099	All other materials and components, parts, containers, and supplies-----	(X)	53.4	(X)	² 98.0
971000	Materials, ingredients, containers, and supplies, n.s.k. ³ -----	(X)	7.3	(X)	7.3
Material code	Material	1992 delivered cost (million dollars)		1987 delivered cost (million dollars)	
INDUSTRY 2241, NARROW FABRICS MILLS					
Materials, ingredients, containers, and supplies -----		564.5		²515.0	
228102	Cotton yarns -----	38.9		(²)	
282423	Polyester yarns -----	102.4		(²)	
282411	Filament nylon yarns -----	116.8		(²)	
282412	Filament rayon and acetate yarns -----	6.6		(²)	
228011	All other yarns-----	88.7		(²)	
3069E1	Bare rubber thread-----	51.5		(²)	
970099	All other materials and components, parts, containers, and supplies-----	103.7		² 515.0	
971000	Materials, ingredients, containers, and supplies, n.s.k. ³ -----	55.9		(²)	

See footnotes at end of table.

Table 7. Materials Consumed by Kind: 1992 and 1987—Con.

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

Material code	Material	1992		1987	
		Quantity ¹	Delivered cost (million dollars)	Quantity ¹	Delivered cost (million dollars)
INDUSTRY 2273, CARPETS AND RUGS					
	Materials, ingredients, containers, and supplies -----	(X)	6 043.1	(X)	6 446.0
	Yarns:				
	Spun:				
228301	Wool and chiefly wool yarns ----- mil lb..	11.1	29.5	(S)	44.5
228141	Nylon ----- mil lb..	*802.7	1 559.9	*952.2	1 830.2
228143	Polyester ----- mil lb..	*123.4	153.7	*183.4	183.6
228146	Polypropylene ----- mil lb..	**104.2	121.1	19.3	19.9
228147	All other ----- mil lb..	*20.3	35.8	61.7	107.6
	Filament:				
282411	Nylon filament yarns ----- mil lb..	*480.8	1 006.7	630.0	1 269.1
282423	Polyester filament yarn ----- mil lb..	*4.6	6.8	(S)	14.0
282436	Polypropylene ----- mil lb..	188.3	232.0	**129.1	177.9
282409	All other ----- mil lb..	*26.2	38.7	56.3	99.5
	Staple and tow:				
282305	Rayon and acetate ----- mil lb..	—	—	(NA)	(²)
282413	Nylon staple and tow ----- mil lb..	(D)	(D)	(NA)	(²)
282414	Polypropylene ----- mil lb..	*44.7	36.1	(NA)	(²)
282425	Polyester staple and tow ----- mil lb..	27.0	16.0	(NA)	(²)
282428	All other manmade fiber staple and tow (except glass) ----- mil lb..	*2.7	2.9	(NA)	(²)
010014	All other fibers (silk, jute, reused wool, waste, etc.) ----- mil lb..	(D)	(D)	(NA)	(²)
	Primary backing:				
	Manmade fiber fabrics:				
220301	Polypropylene ----- mil sq yd..	**659.6	190.5	(S)	279.0
220303	All other manmade fiber fabrics ----- mil sq yd..	*106.8	73.3	(S)	57.1
220305	All other fabrics (except manmade) ----- mil sq yd..	4.1	5.1	(S)	4.7
	Secondary backing:				
229961	Jute ----- mil sq yd..	(S)	80.0	**284.9	56.0
308602	Foam or high density rubber cushion backing ----- mil sq yd..	30.2	13.7	(S)	23.8
308603	Other cushion backings (including vinyl, polyurethane, etc.) ----- mil sq yd..	(S)	95.9	(S)	72.1
220307	Woven and nonwoven manmade fiber fabrics ----- mil sq yd..	*399.1	107.3	(S)	107.3
220308	All other (including scrim, solid vinyl, etc.) ----- mil sq yd..	**94.1	47.4	(S)	31.1
280031	Dyes, lakes, and toners -----	(X)	185.5	(X)	159.0
970099	All other materials and components, parts, containers, and supplies -----	(X)	781.2	(X)	² 1 778.9
971000	Materials, ingredients, containers, and supplies, n.s.k. ³ -----	(X)	93.8	(X)	130.7

¹For 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: *10 to 19 percent estimated; **20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

²For 1987, these materials were included with material code 970099.

³Total cost of materials of establishments that did not report detailed materials data, including establishments that were not mailed a form.

Appendix A. Explanation of Terms

This appendix is in two sections. Section 1 includes items requested of all establishments mailed census of manufactures forms including annual survey of manufactures (ASM) forms. Note that this section also includes several items (number of establishments and companies, value added, classes of products, and specialization and coverage ratios) not included on the report forms but derived from information collected on the forms. Section 2 covers supplementary items requested only from establishments included in the ASM sample. Results of the supplementary ASM inquiries are included in table 3c of this report.

SECTION 1. ITEMS COLLECTED OR DERIVED BASED ON ALL CENSUS OF MANUFACTURES (INCLUDING ASM) REPORT FORMS

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.

In this report, data are shown for establishments in operation at any time during the year. A comparison with the number of establishments in operation at the end of the year will be provided in the Introduction of the *General Summary* subject report.

Employment and related items. The report forms requested separate information on production workers for a specific payroll period within each quarter of the year and on other employees as of the payroll period which included the 12th of March.

All 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 line-supervisor 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 truckdrivers and their helpers), advertising, credit, collection, installation and servicing of own products, clerical and routine office function, 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 to the plant and utilized as a separate work force.

In addition to reports sent to operating manufacturing establishments, information on employment during the payroll period which included March 12 and annual payrolls also was requested of auxiliary units (e.g., administrative offices, warehouses, and research and development

laboratories) of multiestablishment companies. However, these figures are not included in the totals for individual industries shown in this report. They are included in the *General Summary* and geographic area reports as a separate category.

Payroll. This item includes the gross earnings of all employees on the payrolls of operating manufacturing establishments paid in the calendar year 1992. 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' supplemental labor costs, both those required by Federal and State laws and those incurred voluntarily or as part of collective bargaining agreements. (Supplemental labor costs are explained later in this appendix.)

As in the case of employment figures, the payrolls of separate auxiliary units of multiestablishment companies are not included in the totals for individual industries or industry groups.

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.

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.

The important components of this cost item are (1) 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) electric energy purchased, (3) fuels consumed for heat, power, or the generation of electricity, (4) work done by

others on materials or parts furnished by manufacturing establishments (contract work), and (5) products bought and resold in the same condition. (See discussion of duplication of data below.)

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. Information on the establishments consuming less than a specified amount (usually \$25,000) of a specific material were not requested to report consumption of that material separately. Also, the cost of materials for the small establishments for which either administrative records or short forms were used was imputed as "not specified by kind." (See Census of Manufactures for the importance of administrative records in the industry.)

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 resold without further processing. Included are all items made by or for the establishments from materials 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. (See discussion of duplication of data below.)

Individual products. As in previous censuses, data were collected for most industries on the quantity and value of individual products shipped. In the 1992 census program, information was collected on the output of almost 11,000 individual product items. The term "product," as used in the census of manufactures, represents the finest level of detail for which output information was requested. Consequently, it is not necessarily synonymous with the term "product" as used in the marketing sense. In some cases, it may be much more detailed and, in other cases, it is more aggregative. For example, "pharmaceutical preparations" was distributed into over 100 terms; whereas, "motor gasoline" was reported as a single item.

Approximately 6,300 of the product items were listed separately on the 1992 census report forms. Data for

about 4,500 products were obtained in the monthly, quarterly, or annual surveys comprising the Current Industrial Reports series of the Census Bureau. Totals for the year 1992 for these items, as derived from the commodity surveys, are shown in the "products shipped" table.

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 1987 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 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.

Classes of products. To summarize the product information, the separate products were aggregated into classes of products that, in turn, were grouped into all primary products of each industry. The code structure used is a seven-digit number for the individual product, a five-digit number for the class of product, and a four-digit number for the total primary products in an industry. (See Census of Manufactures, Industry Classification of Establishments, for application of the coding structure to the assignment of SIC codes for establishments.)

In the 1992 census, the 11,000 products were grouped into approximately 1,500 separate classes on the basis of general similarity of manufacturing processes, types of materials used, etc. However, the grouping of products was affected by the economic significance of the class and, in some cases, dissimilar products were grouped because the products were not sufficiently significant to warrant separate classes.

Duplication in cost of materials and value of shipments. 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.

Value added by manufacture. 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 beginning- and end-of-year inventories.

For those industries where value of production is collected instead of value of shipments (see footnote in table 1a), 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.

New and used capital expenditures. For establishments in operation and any known plants under construction, manufacturers were asked to report their new 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.

The totals for new expenditures include expenditures 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 used plant and equipment (although reported in the census), expenditures for land, and cost of maintenance and repairs charged as current operating expenses.

Manufacturers also were requested to report the value of all used buildings and equipment purchased during the year at the purchase price. 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. Furthermore, if the establishment changed ownership during the year, the cost of the fixed assets (building and equipment) was to be reported under used capital expenditures.

Total expenditures for used plant and equipment is a universe figure; it is collected on all census forms. However, the breakdown of this figure between expenditures for used buildings and other structures and expenditures for used machinery and equipment is collected only on the ASM form. The data for total new capital expenditures, new building expenditures, and new machinery expenditures, as well as the data for total used expenditures, are shown in table 3b.

End-of-year inventories. Respondents were asked to report their 1991 and 1992 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). 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.

SECTION 2. ITEMS COLLECTED ONLY ON ASM REPORT FORMS

The following items were collected only from establishments included in the ASM sample:

Supplemental labor costs. Supplemental labor costs 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

Because of this change in reporting instructions, the 1982 through 1992 data for inventories and value added by manufacture included in the tables of this report are not comparable to the prior-year data shown in table 1a of this report and in historical census of manufactures and annual survey of manufactures publications.

In using inventory data by stage of fabrication for "all industries" and at the two-digit industry 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 another 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 individual industries, industry groups, and "all manufacturing", which are aggregates of figures reported by establishments in specified industries.

Specialization and coverage ratios. These items are not collected on the report forms but are derived from the data shown in table 5b. 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 5a and data on product shipments shown in tables 6a through 6c.

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.

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 company-operated cafeterias, in-plant medical services, free parking lots, discounts on employee purchases, and uniforms and work clothing for employees.

While the excluded items do benefit employees and all or part of their cost generally is similar to the items covered in the ASM labor costs statistics, accounting records generally do not provide reliable figures on net employee benefits of these types.

Retirements of depreciable assets. Included in this item is the gross value of assets sold, retired, scrapped, destroyed, etc., during 1992. 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.

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.

Rental payments. Total rental payments is 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 company-owned 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.

Depreciable assets. Total value of gross depreciable assets is collected on all census forms. However, the detail for depreciable assets is collected only on the ASM forms. The data encompass all fixed depreciable assets on the books of establishments at the beginning and end of the year. 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 new and used capital expenditures, less retirements, equalled assets at the end of the year.

New and used capital expenditures. The data for total new capital expenditures, new building expenditures, new machinery expenditures, and total used capital expenditures are collected on all census forms. However, the breakdown between expenditures for used buildings and other structures and expenditures for used machinery and equipment is collected only on the ASM form. (See further explanation on capital expenditures in section 1.)

Quantity of electric energy consumed for heat and power. Data on the cost of purchased electric energy are collected on all census forms. However, data on the quantity of purchased electric energy are collected only on the ASM forms. 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.

Breakdown of new capital expenditures for machinery and equipment. ASM establishments were requested to separate their capital expenditures for new machinery and equipment into (1) automobiles, trucks, etc., for highway use, (2) computers and peripheral data processing equipment, and (3) all other.

The category "automobiles, trucks, etc., for highway use" is intended to measure expenditures for vehicles designed for highway use that were acquired through a purchase or lease-purchase agreement. Vehicles normally operating off public highways (vehicles specifically designed to transport materials, property, or equipment on mining, construction, logging, and petroleum development projects) are excluded from this item.

Foreign content of cost of materials. Establishments included in the ASM sample panel were requested to provide information on foreign-made materials purchased or transferred from foreign sources. This includes materials acquired from a central warehouse or other domestic establishment of the same company but made in an operation outside of the 50 States, District of Columbia, Puerto Rico, or U.S. territories.

Cost of purchased services. 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 reflect the costs paid directly by the establishment, and exclude 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, such as painting, roof repairs, replacing parts, and overhauling equipment. Such 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 were capitalized are considered capital expenditures for used buildings and machinery and are, 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.

Three basic approaches were utilized to produce these statistics.

1. For items 1 through 6, data were estimated (imputed) for all non-ASM establishments using the available data in the establishment record and industry-based parameters. The statistics were then generated by simply tabulating all census records including the imputed value for non-ASM establishments and the unweighted value for ASM establishments. Separate imputation rates were developed and are shown in the table. For quantity of purchased electricity for heat and power (item 7), a similar procedure was used; however, the imputation parameters were geographically-based instead of industry-based. For quantities of generated less sold electricity, no imputation was performed for non-ASM establishments. The estimates for these items are simply tabulations of unweighted ASM values.

Since the published statistics for these items were developed from the complete census universe and not just the ASM establishments, there are no sampling variances associated with these statistics. However, there is an unknown level of bias for each of the items due to the imputation of the non-ASM establishments. This bias is felt to be small due to the strong correlation between the items being imputed and the collected items that were used to generate the impute values.

2. For items 8 and 9, the estimates were developed using a ratio estimation methodology. For item 8, an estimate of the breakout of new capital expenditures for machinery and equipment into the three categories was made from ASM establishments reporting these categories. The estimated proportions were then applied to the corresponding census value for new capital expenditures for machinery and equipment to produce the estimates.

The estimates for item 9, foreign content of cost of materials, were developed in a similar manner based on costs of parts, supplies, and components (item 5a) as the control total for the three categories.

For items 8 and 9, an adjustment ratio of the following form was computed:

$$R_j = \frac{NMc}{TMEasm}$$

where:

NMc = the census value of new capital expenditures for machinery and equipment

TMEasm = the weighted ASM value of new capital expenditures for machinery and equipment from reporters of the detailed breakout data

3. For item 10, cost of purchased services, the estimates were made by simply tabulating weighted data for all the ASM records that reported the item. A response coverage ratio (a measure of the extent to which respondents reported for each item) is shown in table 3c for the types of services. It is derived for each item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight, see appendix B) for those ASM establishments that reported the specific inquiry to the weighted total employment for all ASM establishments classified in the industry.

Appendix B.

Annual Survey of Manufactures Sampling and Estimating Methodologies

DESCRIPTION OF SURVEY SAMPLE

The annual survey of manufactures (ASM) contains two components. The mail portion of the survey is a probability sample of about 64,000 manufacturing establishments selected from a total of about 216,000 establishments. These 216,000 establishments represent all manufacturing establishments of multiunit companies and all single-establishment companies mailed schedules in the 1987 Census of Manufactures. This mail portion is supplemented annually by a Social Security Administration list of new manufacturing establishments opened after 1987 and a list of new multiunit manufacturing establishments identified from the Census Bureau's Company Organization Survey.

For the current panel, all establishments of companies with 1987 shipments in manufacturing in excess of \$500 million were included in the survey panel with certainty. There are approximately 500 such companies collectively accounting for approximately 18,000 establishments. For the remaining portion of the mail survey, the establishment was defined as the sampling unit. For this portion, all establishments with 250 employees or more and establishments with a very large value of shipments also were included in the survey panel with certainty. A total of 12,100 establishments were selected from this portion of the universe with certainty. Therefore, of the 64,000 manufacturing establishments included in the ASM panel, approximately 31,000 are selected with certainty. These certainty establishments collectively account for approximately 80 percent of the total value of shipments in the 1987 census.

Smaller establishments in the remaining portion of the mail survey were sampled with probabilities ranging from 0.999 to 0.005 in accordance with mathematical theory for optimum allocation of a sample. The probabilities of selection assigned to the smaller establishments were proportional to measures of size determined for each establishment. The measures of size depend directly upon each establishment's 1987 product class values and the historic variability of the year-to-year shipments of each product class. Product classes displaying more volatile year-to-year change in shipments at the establishment level were sampled at a heavier rate.

This method of assigning measures of size was used in order to maximize the precision (that is, minimize the variance of estimates of the year-to-year change) in the value of product class shipments. Implicitly, it also gave weight differences in employment, value added, and other

general statistics, since these are highly correlated with value of shipments. Individual sample selection probabilities were obtained by multiplying each establishment's final measure of size by an overall sampling fraction coefficient calculated to yield a total expected sample size.

The sample selection procedure gave each establishment in the sampling frame an independent chance of selection. This method of independent selection permits the rotation of small establishments out of a given sample panel without introducing a bias into the survey estimates.

The nonmail portion of the survey includes all single-establishment companies that were tabulated as administrative records in the 1987 Census of Manufactures. Although this portion contained approximately 134,000 establishments, it accounted for less than 2 percent of the estimate for total value of shipments at the total manufacturing level. This portion was not sampled; rather, the data for every establishment in this group were estimated based on selected information obtained annually from the administrative records of the Internal Revenue Service and the Social Security Administration. This administrative-records information, which includes payroll, total employment, industry classification, and physical location of the establishment, was obtained under conditions which safeguard the confidentiality of both tax and census records. Estimates of data other than payroll and employment for these small establishments were developed from industry averages.

The corresponding estimates for the mail and nonmail establishments were added together, along with the base-year differences, as defined in the Description of Estimating Procedure section, to produce the figures shown in this publication.

DESCRIPTION OF ESTIMATING PROCEDURES

Most of the ASM estimates for the years 1988-1991 were computed using a difference estimation procedure. For each item, a base-year difference was developed. This base-year difference is equal to the difference between the 1987 census published number for an item total and the linear ASM estimate of the total for 1987. The ASM linear estimate was obtained by multiplying each sample establishment's data by its sample weight (the reciprocal of its probability of selection) and summing the weighted values.

These base-year differences were then added to the corresponding current-year linear estimates, which include the sum of the estimates for the mail and nonmail

establishments, to produce the estimates for the years 1983-1991. Estimates developed by this procedure usually are far more reliable than comparable linear estimates developed from the current sample data alone.

However, the 1992 sample estimates for the purchased service items, shown in table 3c, are strictly ASM linear estimates developed only from ASM establishments that reported the specific item.

The remaining estimates in table 3c, showing the breakdown of expenditures for new machinery and equipment and costs of parts (separated into purchases from foreign sources and purchases from domestic sources), were computed as ratio estimates. To do this, linear estimates of the new machinery detail items were developed from the ASM establishments and were ratio adjusted to the corresponding census total for new machinery. In a similar fashion, the ASM linear estimates of the detailed purchased materials items were ratio adjusted to the corresponding census total for cost of parts.

QUALIFICATIONS OF THE DATA

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

The particular sample selected for the ASM is one of a large number of 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 theoretical, comparable, complete-coverage values.

Estimates of the standard errors have been computed from the sample data for selected statistics in this report. They are presented 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, complete-coverage value for specified percentages of all the possible samples).

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

1. From one standard error below to one standard error above the derived estimate for about two-thirds of all possible samples.
2. From two standard errors below to two standard errors above the derived estimate for about 19 of 20 of all possible samples.
3. 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 as 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 in the course of 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 only moderately higher. However, for particular estimates, the total error may considerably exceed the standard errors shown.

The concept of complete coverage under the conditions prevailing for the ASM is not identical to the complete coverage of the census of manufactures, as the censuses have been conducted. Nearly all types of operational errors that affect the ASM also occur in the censuses. The ASM and the censuses, are conducted under quite different conditions, and operational errors can be better controlled in the ASM than in the censuses. As a result, for many of the census figures, the errors are of the same order of size as the total errors of the corresponding annual survey estimates. The differences between the census and ASM operating conditions also disturb, to some degree, the comparability of the ASM and census data.

Any figures shown in the tables in this publication having an associated standard error exceeding 15 percent may be of limited reliability. However, the figure may be combined with higher-level totals, creating a broader aggregate, which then may be of acceptable reliability.

Appendix C. Product Code Reference Tables

Part 1. Comparability of Product Classes and Product Codes That Changed: 1992 to 1987

1992	1987	1992	1987	1992	1987	1992	1987
2211F 01	2211F 00	22316 00	22314 00	22525 01	22525 11	22628 19	22628 00
2211F 03	2211F 00			22525 01	22525 15	22628 23	22628 00
2211F 05	2211F 00			22525 01	22525 17	22628 25	22628 00
2211F 07	2211F 00	22317	22315	22525 03	22525 11	22628 27	22628 00
2211F 09	2211F 00	22317 91	22315 91	22525 03	22525 15	22628 29	22628 00
2211F 11	2211F 00	22317 92	22315 92	22525 03	22525 17	22628 31	22628 00
2211F 13	2211F 00	22317 93	22315 93	22525 13	22525 11		
2211F 15	2211F 00			22525 13	22525 17	22629 01	22629 00
2211F 19	2211F 00					22629 03	22629 00
2211F 23	2211F 00	22319 01	22319 25	2253D 01	2253D 11	22629 05	22629 00
		22319 01	22319 27	2253D 01	2253D 13	22629 07	22629 00
		22319 01	22319 29	2253D 01	2253D 15	22629 11	22629 00
2211H 01	2211H 42	22319 01	22319 31	2253D 01	2253D 16	22629 13	22629 00
2211H 01	2211H 73	22319 03	22319 25	2253D 01	2253D 19	22629 15	22629 00
2211H 01	2211H 75	22319 03	22319 27	2253D 01	2253D 33	22629 19	22629 00
2211H 03	2211H 37	22319 03	22319 29	2253D 05	2253D 38	22629 23	22629 00
2211H 03	2211H 43	22319 03	22319 31	2253D 05	2253D 62	22629 25	22629 00
2211H 03	2211H 44			2253D 09		22629 27	22629 00
2211H 03	2211H 46					22629 29	22629 00
2211H 03	2211H 62	22411 03	22411 01	22544	22542	22629 31	22629 00
2211H 03	2211H 65	22411 05	22411 01				
2211H 03	2211H 67	22411 07	22411 01	22544	22543		
2211H 03	2211H 69	22411 11	22411 31			22812 15	22812 51
		22411 13	22411 31	22544 11	22542 00	22812 15	22812 61
2221J 01	2221J 00	22411 14	22411 31	22544 13	22543 00	22812 15	22812 71
2221J 03	2221J 00	22411 15	22411 31				
2221J 05	2221J 00	22411 16	22411 31			22952	22951
2221J 07	2221J 00	22411 19	22411 31	22617 01	22617 00		
2221J 11	2221J 00			22617 03	22617 00	22953 11	22951 11
2221J 13	2221J 00			22617 05	22617 00	22953 11	22951 15
2221J 15	2221J 00	22414 01	22414 00	22617 07	22617 00	22953 11	22951 19
2221J 19	2221J 00	22414 03	22414 00	22617 09	22617 00	22953 17	22953 22
2221J 23	2221J 00	22414 05	22414 00	22617 11	22617 00	22953 17	22953 24
2221J 25	2221J 00			22617 13	22617 00	22953 17	22953 26
2221J 27	2221J 00			22617 15	22617 00		
2221J 29	2221J 00	22514 13	22514 21	22617 19	22617 00	22972 41	22972 43
2221J 31	2221J 00	22514 13	22514 37	22617 23	22617 00	22972 41	22972 45
		22514 13	22514 39			22972 41	22972 48
		22514 13	22514 45	22619 01	22619 00		
2221M 01	2221M 21	22514 15	22514 21	22619 03	22619 00	22981 11	22981 18
2221M 01	2221M 71	22514 15	22514 37	22619 05	22619 00	22981 11	22981 29
2221M 01	2221M 77	22514 15	22514 39	22619 07	22619 00		
2221M 03	2221M 23	22514 15	22514 45	22619 09	22619 00	22982 14	22982 15
2221M 03	2221M 25	22514 19	22514 21	22619 11	22619 00	22982 19	22982 15
2221M 03	2221M 27	22514 19	22514 37	22619 13	22619 00		
2221M 03	2221M 33	22514 19	22514 39	22619 15	22619 00		
2221M 03	2221M 41			22619 19	22619 00	22991 11	22991 12
2221M 03	2221M 42			22619 23	22619 00	22991 11	22991 13
2221M 03	2221M 43	22514 19	22514 45			22991 11	22991 15
2221M 03	2221M 47	22514 23	22514 21			22991 11	22991 17
		22514 23	22514 37	22628 01	22628 00	22991 11	22991 21
		22514 23	22514 39	22628 03	22628 00	22991 11	22991 23
		22514 23	22514 45	22628 05	22628 00		
22316	22313			22628 07	22628 00	22994 11	22994 31
				22628 11	22628 00	22994 11	22994 35
22316	22314			22628 13	22628 00	22994 13	22994 22
		22516 15	22516 18	22628 15	22628 00	22994 13	22994 39
22316 00	22313 00	22516 17	22516 18				

Part 2. Comparability of Product Classes and Product Codes That Changed: 1987 to 1992

1987	1992	1987	1992	1987	1992	1987	1992
2211F 00	2211F 01	22315	22317	22525 15	22525 15	22628 00	22628 31
2211F 00	2211F 03	22315 91	22317 91	22525 17	22525 01		
2211F 00	2211F 05	22315 92	22317 92	22525 17	22525 03	22629 00	22629 01
2211F 00	2211F 07	22315 93	22317 93	22525 17	22525 13	22629 00	22629 03
2211F 00	2211F 09					22629 00	22629 05
2211F 00	2211F 11	22319 25	22319 01	2253D 11	2253D 01	22629 00	22629 07
2211F 00	2211F 13	22319 25	22319 03	2253D 13	2253D 01	22629 00	22629 11
2211F 00	2211F 15	22319 27	22319 01	2253D 15	2253D 01	22629 00	22629 13
2211F 00	2211F 19	22319 27	22319 03	2253D 16	2253D 01	22629 00	22629 15
2211F 00	2211F 23	22319 29	22319 01	2253D 19	2253D 01	22629 00	22629 19
		22319 29	22319 03	2253D 33	2253D 05	22629 00	22629 23
2211H 37	2211H 03	22319 31	22319 01	2253D 38	2253D 05	22629 00	22629 25
2211H 42	2211H 01	22319 31	22319 03	2253D 62	2253D 09	22629 00	22629 27
2211H 43	2211H 03					22629 00	22629 29
2211H 44	2211H 03	22411 01	22411 03	22542	22544	22629 00	22629 31
2211H 46	2211H 03	22411 01	22411 05	22542 00	22544 11		
2211H 62	2211H 03	22411 01	22411 07				
2211H 65	2211H 03	22411 31	22411 11	22543	22544	22812 51	22812 15
2211H 67	2211H 03	22411 31	22411 13	22543 00	22544 13	22812 61	22812 15
2211H 69	2211H 03	22411 31	22411 14			22812 71	22812 15
2211H 73	2211H 01	22411 31	22411 15	22617 00	22617 01		
2211H 75	2211H 01	22411 31	22411 16	22617 00	22617 03	22951	22952
		22411 31	22411 19	22617 00	22617 05		
2221J 00	2221J 01			22617 00	22617 07	22951 11	22953 11
2221J 00	2221J 03	22414 00	22414 01	22617 00	22617 09	22951 15	22953 11
2221J 00	2221J 05	22414 00	22414 03	22617 00	22617 11	22951 19	22953 11
2221J 00	2221J 07	22414 00	22414 05	22617 00	22617 13		
2221J 00	2221J 11			22617 00	22617 15		
2221J 00	2221J 13	22514 21	22514 13	22617 00	22617 19	22953 22	22953 17
2221J 00	2221J 15	22514 21	22514 15	22617 00	22617 23	22953 24	22953 17
2221J 00	2221J 19	22514 21	22514 19			22953 26	22953 17
2221J 00	2221J 23	22514 21	22514 23	22619 00	22619 01		
2221J 00	2221J 25	22514 37	22514 13	22619 00	22619 03	22972 43	22972 41
2221J 00	2221J 27	22514 37	22514 15	22619 00	22619 05	22972 45	22972 41
2221J 00	2221J 29	22514 37	22514 19	22619 00	22619 07	22972 48	22972 41
2221J 00	2221J 31	22514 37	22514 23	22619 00	22619 09		
		22514 39	22514 13	22619 00	22619 11	22981 18	22981 11
2221M 21	2221M 01	22514 39	22514 15	22619 00	22619 13	22981 29	22981 11
2221M 23	2221M 03	22514 39	22514 19	22619 00	22619 15		
2221M 25	2221M 03			22619 00	22619 19		
2221M 27	2221M 03	22514 39	22514 23	22619 00	22619 23	22982 15	22982 14
2221M 33	2221M 03	22514 45	22514 13			22982 15	22982 19
2221M 41	2221M 03	22514 45	22514 15				
2221M 42	2221M 03	22514 45	22514 19	22628 00	22628 01		
2221M 43	2221M 03	22514 45	22514 19	22628 00	22628 03	22991 12	22991 11
2221M 47	2221M 03	22514 45	22514 23	22628 00	22628 05	22991 13	22991 11
2221M 71	2221M 01			22628 00	22628 07	22991 15	22991 11
2221M 77	2221M 01	22516 18	22516 15	22628 00	22628 11	22991 17	22991 11
		22516 18	22516 17	22628 00	22628 13	22991 21	22991 11
				22628 00	22628 15	22991 23	22991 11
				22628 00	22628 19		
22313	22316	22525 11	22525 01	22628 00	22628 23	22994 22	22994 13
22313 00	22316 00	22525 11	22525 03	22628 00	22628 25	22994 31	22994 11
		22525 11	22525 13	22628 00	22628 27	22994 35	22994 11
22314	22316	22525 15	22525 01	22628 00	22628 29	22994 39	22994 11
22314 00	22316 00	22525 15	22525 03	22628 00			

Part 3. Current Industrial Reports by Product Code

[Current Industrial Reports (CIR) data are contained in the publication *Manufacturing Profiles: 1992* [MP-1(92)] issued August 1994 and available through the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. To access the most current CIR data electronically, dial the Census-BEA Electronic Forum at 301-457-2310. Your communications modem should be set as follows: Baud rate: 1200, 2400, 9600; Parity: None; Data bits: 8; Stop bits: 1; Duplex: full. Before making your first call, decide on a password and be prepared to provide the following regarding your computer: PC brand name, monitor screen dimensions (e.g., 80 columns by 24 lines), monitor color support, modem baud rate, and PC communications software package. Call the voice number, 301-457-1242, for further bulletin board assistance.]

Product code	Current Industrial Report
2273100	MA22Q, Carpets and Rugs
2273220	MA22Q, Carpets and Rugs
2273300	MA22Q, Carpets and Rugs

Publication Program

1992 CENSUS OF MANUFACTURES

Publications of the 1992 Census of Manufactures, containing preliminary and final data on manufacturing establishments in the United States, are described below. Publications order forms for the specific reports may be obtained from any Department of Commerce district office or from Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233-8300.

Preliminary Reports

Industry series—83 reports (MC92-I-20A(P) to -39D(P))

Preliminary industry data are issued in 83 separate reports covering 459 industries. Preliminary summary data for the United States and States are released in one report.

Final Reports

Industry series—83 reports (MC92-1-20A to -39D)

Each of the 83 reports provides information for a group of related industries ("dairy products" includes industries for butter, cheese, milk, etc.). Final figures for the United States are shown for each of the 459 manufacturing industries on quantity and value of products shipped and materials consumed, cost of fuels and electric energy, capital expenditures, assets, rents, inventories, employment, payroll, payroll supplements, hours worked, value added by manufacture, number of establishments, and number of companies. Comparative statistics for earlier years are provided where available.

For each industry, data on value of shipments, value added by manufacture, capital expenditures, employment, and payroll are shown by employment-size class of establishment, State, and degree of primary product specialization.

Geographic area series—51 reports (MC92-A-1 to -51)

A separate report is being published for each State and the District of Columbia. Each report presents data for industry groups and industries on value of shipments, cost of materials, value added by manufacture, employment, payroll, hours worked, new capital expenditures, and number of manufacturing establishments for the State, MA's, counties, and selected places. Comparative statistics for earlier census years are shown for the State and large MA's. Manufacturing totals are presented for each county and for places with significant manufacturing activity. Detailed statistics (including inventories, assets, rents, and energy costs) are presented only in statewide totals.

Subject series—3 reports (MC92-S-1 to -3)

Each of the three reports contains detailed statistics for an individual subject, such as concentration ratios in manufacturing, manufacturers' shipments to the Federal Government, and a general national-level summary.

Reference series—1 report (MC92-R-1)

The *Numerical List of Manufactured and Mineral Products* includes a description of the principal products and services published in the 1992 Censuses of Manufactures and Mineral Industries.

Location of Manufacturing Plants—1 report (MC92-LM)

This report includes data for number of establishments by four-digit SIC industry and by employment-size class for counties, incorporated places of 2,500 inhabitants or more, and Zip Codes for each State. This report is available only on compact disc-read only memory (CD-ROM).

Analytical Reports—2 reports (AR92-1 and -2)

Exports From Manufacturing Establishments (AR92-1)

This report presents data on exports by two- and three-digit SIC industry groups for the United States and States. Information is presented on value of direct report shipments and estimates of the employment required to manufacture these products. Included are estimates of employment in manufacturing and nonmanufacturing establishments that supply parts, materials, and services for production of manufactured exports.

Selected Characteristics of Manufacturing Establishments That Export (AR92-2)

This report presents data on the number of manufacturing companies and establishments that export by major group, State, employment size, and ratios of exports to shipments.

Electronic Media

All data included in the printed reports are available on CD-ROM. The CD-ROM's provide the same information found in the reports as well as additional information not published in the final reports, such as location of manufacturing plants. Electronic media products are available for users who wish to summarize, rearrange, or process large amounts of data. These products, with corresponding technical documentation, are sold by Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233-8300.

OTHER ECONOMIC CENSUSES REPORTS

Data on retail trade, wholesale trade, financial, insurance, real estate, service industries, construction industries, mineral industries, transportation, communications, utilities, enterprise statistics, minority-owned businesses, and women-owned businesses also are available from the 1992 Economic Census. A separate series of reports covers the census of outlying areas—Puerto Rico, Virgin Islands of the United States, Guam, and the Commonwealth of the Northern Mariana Islands. Separate announcements describing these reports are available free of charge from Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233-8300.