

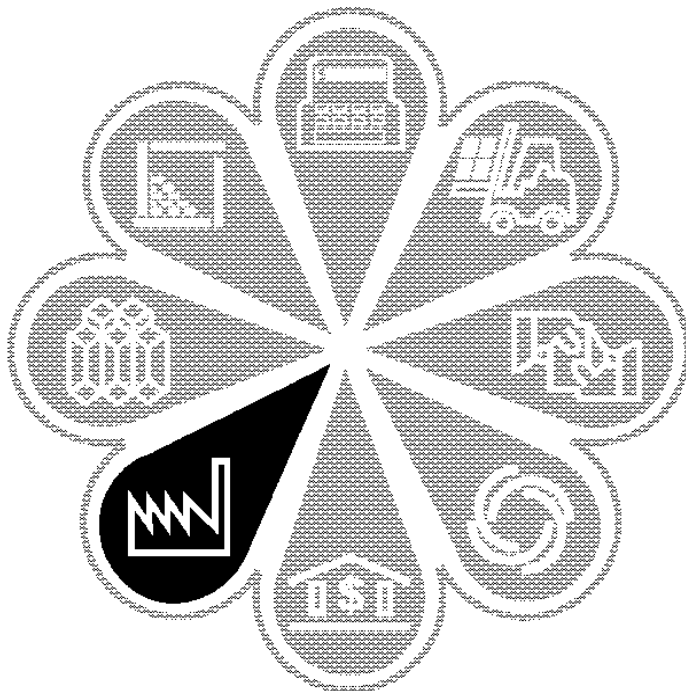
1992 Census of Manufactures

MC92-I-22B

INDUSTRY SERIES

Knitting Mills

Industries 2251, 2252, 2253, 2254, 2257,
2258, and 2259



1992 Census of Manufactures

MC92-I-22B

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Knitting Mills

Industries 2251, 2252, 2253, 2254, 2257,
2258, and 2259

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

The Economic Statistical Methods and Programming Division, **Charles P. Pautler, Jr.**, Chief, developed and coordinated the computer processing systems. **Martin S. Harahush**, Assistant Chief for Quinquennial Programs, was responsible for design and implementation of the computer systems. **Gary T. Sheridan**, Chief, Manufactures and Construction Branch, assisted by **Gerald S. Turnage**, supervised the preparation of the computer programs.

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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 33-35 (exc. 357)	Kenneth Hansen	301-457-4755
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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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

2251	Women's Hosiery, Except Socks
2252	Hosiery, N.E.C.
2253	Knit Outerwear Mills
2254	Knit Underwear Mills
2257	Weft Knit Fabrics Mills
2258	Lace and Warp Knit Fabrics Mills
2259	Knitting Mills, N.E.C.

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 2251, WOMEN'S HOSIERY, EXCEPT SOCKS

This industry is made up of establishments primarily engaged in knitting, dyeing, or finishing women's and misses' full-length and knee-length hosiery (except socks) both seamless and full-fashion, and panty hose. Establishments primarily engaged in knitting, dyeing, or finishing women's and misses' knee-length socks and anklets are classified in industry 2252. Establishments primarily engaged in manufacturing elastic (orthopedic) hosiery are classified in industry 3842.

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 2251, Women's Hosiery, Except Socks, had employment of 25.3 thousand. The employment figure was 14 percent below the 29.3 thousand reported in 1987.

The leading State in employment in 1992 was North Carolina, accounting for approximately 66 percent of the industry's employment. The same State was the leader in 1987 when it accounted for 68 percent of the industry's employment.

The total value of shipments for establishments classified in this industry was \$1.8 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 2251 shipped \$1.8 billion of women's hosiery, except socks, considered primary to the industry, \$29.8 million of secondary products, and had \$26.0 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 98 percent (specialization ratio). In 1987, the specialization ratio also was 98 percent.

Establishments in this industry also accounted for 96 percent of products considered primary to the industry no matter where they were actually produced (coverage ratio). In 1987, the coverage ratio also was 96 percent.

The products primary to industry 2651, no matter in what industry they were produced, appear in table 6a and aggregate to \$1.9 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 women's hosiery, except socks, industry amounted to \$893.7 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 5 percent of the total value of shipments.

INDUSTRY 2252, HOSIERY, N.E.C.

This industry is made up of establishments primarily engaged in knitting, dyeing, or finishing hosiery, not elsewhere classified. Establishments primarily engaged in manufacturing women's full-length and knee-length hosiery (except socks) are classified in industry 2251. Establishments primarily engaged in manufacturing elastic (orthopedic) hosiery are classified in industry 3842.

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 2252, Hosiery, N.E.C., had employment of 38.1 thousand. The employment figure was 4 percent above the 36.5 thousand reported in 1987.

The leading State in employment in 1992 was North Carolina, accounting for approximately 63 percent of the industry's employment. The same State was the leader in 1987 when it accounted for 66 percent of the industry's employment.

The total value of shipments for establishments classified in this industry was \$2.6 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. Industry 2252 shipped \$2.4 billion of hosiery, not elsewhere classified, considered primary to the industry, \$67.8 million of secondary products, and had \$86.7 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 97 percent (specialization ratio). In 1987, the specialization ratio was 98 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 was 98 percent.

The products primary to industry 2252, no matter in what industry they were produced, appear in table 6a and aggregate to \$2.5 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 hosiery, not elsewhere classified, industry amounted to \$1.3 billion. 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 2253, KNIT OUTERWEAR MILLS

This industry is made up of establishments primarily engaged in knitting outerwear from yarn or in manufacturing outerwear from knit fabrics produced in the same establishment. Establishments primarily engaged in hand knitting outerwear for the trade are included in this industry. Establishments primarily engaged in knitting gloves and mittens are classified in industry 2259, and those manufacturing outerwear from purchased knit fabrics are classified in major group 23. Products of this industry also are collected in the Current Industrial Report (CIR) MQ-23A, Apparel. For information regarding the CIR, see Contacts for Data Users at the end of the Census of Manufactures section.

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 2253, Knit Outerwear Mills, had employment of 53.0 thousand. The employment figure was 10 percent below the 59.0 thousand reported in 1987.

The leading States in employment in 1992 were Kentucky, Louisiana, New York, and North Carolina, accounting for approximately 54 percent of the industry's employment. This represents a shift from 1987 when New York, North Carolina, Virginia, and Pennsylvania accounted for approximately 65 percent of the industry's employment.

The total value of shipments for establishments classified in this industry was \$4.2 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 2253 shipped \$3.4 billion of knit outerwear mills products considered primary to the industry, \$695.8 million of secondary products, and had \$51.8 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 83 percent (specialization ratio). In 1987, the specialization ratio was 94 percent.

Establishments in this industry also accounted for 98 percent of products considered primary to the industry no matter where they were actually produced (coverage ratio). In 1987, the coverage ratio was 90 percent.

The products primary to industry 2253, no matter in what industry they were produced, appear in table 6a and aggregate to \$3.5 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 knit underwear mills industry amounted to \$1.9 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 8 percent of the total value of shipments.

INDUSTRY 2254, KNIT UNDERWEAR MILLS

This industry is made up of establishments primarily engaged in knitting underwear and nightwear from yarn or in manufacturing underwear and nightwear from knit fabrics produced in the same establishment. Establishments primarily engaged in manufacturing underwear and nightwear from purchased knit fabrics are classified in major group 23. Establishments primarily engaged in knitting robes are classified in industry 2253. Products of this industry also are collected in the Current Industrial Report (CIR) MQ-23A, Apparel. For information regarding the CIR, see Contacts for Data Users at the end of the Census of Manufactures section.

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 2254, Knit Underwear Mills, had employment of 12.0 thousand. The employment figure was 38 percent below the 19.3 thousand reported in 1987. Compared with 1991, employment decreased 14 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 Georgia, North Carolina, Pennsylvania, and Texas, accounting for approximately 73 percent of the industry's employment. This represents a shift from 1987 when North Carolina, Kentucky, Tennessee, and Louisiana were the leading States.

The total value of shipments for establishments classified in this industry was \$89.1 million.

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 2254 shipped \$777.9 million of knit underwear mills products considered primary to the industry, \$102.3 million of secondary products, and had \$10.9 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 88 percent (specialization ratio). In 1987, the specialization ratio was 72 percent.

Establishments in this industry also accounted for 68 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 2254, no matter in what industry they were produced, appear in table 6a and aggregate to \$1.1 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 knit underwear mills industry amounted to \$403.9 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 1 percent of the total value of shipments.

INDUSTRY 2257, WEFT KNIT FABRICS MILLS

This industry is made up of establishments primarily engaged in knitting weft (circular) knit fabrics or in dyeing or finishing weft (circular) knit fabrics.

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 2257, Weft Knit Fabrics Mills, had employment of 41.7 thousand. The employment figure was 19 percent above the 34.9 thousand reported in 1987. Compared with 1991, employment increased 35 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 North Carolina, accounting for approximately 49 percent of the industry's employment. The same State was the leader in 1987 when it accounted for 44 percent of the industry's employment.

The total value of shipments for establishments classified in this industry was \$4.9 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 2257 shipped \$4.5 billion of products considered primary to the industry, \$359.5 million of secondary products, and had \$15.8 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 93 percent (specialization ratio). In 1987, the specialization ratio was 94 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 95 percent.

The products primary to industry 2257, no matter in what industry they were produced, appear in table 6a and aggregate to \$5.0 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 weft knit fabrics mills industry amounted to \$3.0 billion. 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 4 percent of the total value of shipments.

INDUSTRY 2258, LACE AND WARP KNIT FABRICS MILLS

This industry is made up of establishments primarily engaged in knitting, dyeing, or finishing warp (flat) knit fabrics, or in manufacturing, dyeing, or finishing lace goods.

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 2258, Lace and Warp Knit Fabrics Mills, had employment of 20.0 thousand. The employment figure was 2 percent below the 20.5 thousand reported in 1987. Compared with 1991, employment decreased 11 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, New Jersey, New York, and Pennsylvania, accounting for approximately 67 percent of the industry's employment. These same States were the leaders in 1987.

The total value of shipments for establishments classified in this industry was \$2.3 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 2258 shipped \$2.2 billion of products considered primary to the industry, \$103.1 million of secondary products, and had \$15.6 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 96 percent (specialization ratio). In 1987, the specialization ratio was 97 percent.

Establishments in this industry also accounted for 89 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 2258, no matter in what industry they were produced, appear in table 6a and aggregate to \$2.5 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 lace and warp knit fabrics mills industry amounted to \$1.3 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 4 percent of the total value of shipments.

INDUSTRY 2259, KNITTING MILLS, N.E.C.

This industry is made up of establishments primarily engaged in knitting gloves and other articles, not elsewhere classified. Establishments primarily engaged in manufacturing woven or knit fabrics gloves and mittens from purchased fabrics are classified in industry 2381.

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 2259, Knitting Mills, N.E.C., had employment of 3.2 thousand. The employment figure was 16 percent below the 3.8 thousand reported in 1987. Compared with 1991, employment decreased 18 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 North Carolina, accounting for approximately 34 percent of the industry's employment. The leading States in 1987 were North Carolina, New York, and Wisconsin.

The total value of shipments for establishments classified in this industry was \$235.8 million.

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 2259 shipped \$211.9 million of products considered primary to the industry, \$10.0 million of secondary products, and had \$13.9 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 95 percent (specialization ratio). In 1987, the specialization ratio was 98 percent.

Establishments in this industry also accounted for 90 percent of products considered primary to the industry no matter where they were actually produced (coverage ratio). In 1987, the coverage ratio was 79 percent.

The products primary to industry 2259, no matter in what industry they were produced, appear in table 6a and aggregate to \$236.4 million. 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 knitting mills, not elsewhere classified, industry amounted to \$112.8 million. 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 26 percent of the total value of shipments.

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 (per cent)	Coverage ⁸ (per cent)
INDUSTRY 2257, WEFT KNIT FABRICS MILLS—Con.															
1978 ASM-----	(NA)	(NA)	(NA)	49.2	496.4	42.0	81.8	378.5	991.0	1 980.1	2 975.4	86.1	323.2	(NA)	(NA)
1977 Census ---	462	530	310	51.8	493.0	44.0	88.2	371.2	1 033.5	2 141.1	3 169.4	91.6	316.2	90	88
INDUSTRY 2258, LACE AND WARP KNIT FABRICS MILLS															
1992 Census ---	252	278	163	20.0	417.6	16.5	34.2	302.9	998.6	1 312.4	2 309.6	75.8	275.0	96	89
1991 ASM-----	(NA)	(NA)	(NA)	22.4	442.2	18.8	40.3	321.2	1 087.3	1 424.9	2 499.0	85.5	259.3	(NA)	(NA)
1990 ASM-----	(NA)	(NA)	(NA)	22.3	440.0	18.7	39.5	319.4	931.6	1 348.7	2 298.3	85.7	246.8	(NA)	(NA)
1989 ASM-----	(NA)	(NA)	(NA)	22.0	434.0	18.7	38.8	321.4	989.8	1 520.2	2 518.0	84.9	260.9	(NA)	(NA)
1988 ASM-----	(NA)	(NA)	(NA)	18.8	380.6	15.3	33.6	270.8	724.5	1 237.5	1 839.3	65.5	255.7	(NA)	(NA)
1987 Census ---	216	240	158	20.5	387.9	16.8	35.5	286.3	812.2	1 181.0	1 991.9	67.3	220.9	97	92
1986 ASM-----	(NA)	(NA)	(NA)	16.1	289.3	13.3	26.8	208.0	588.6	944.1	1 533.9	55.2	189.5	(NA)	(NA)
1985 ASM-----	(NA)	(NA)	(NA)	17.6	308.4	14.3	29.1	217.3	712.5	983.5	1 705.7	74.7	187.0	(NA)	(NA)
1984 ASM-----	(NA)	(NA)	(NA)	18.8	307.6	15.4	32.9	222.1	745.9	995.0	1 728.8	74.2	200.3	(NA)	(NA)
1983 ASM-----	(NA)	(NA)	(NA)	23.0	350.7	18.5	38.6	256.6	740.2	1 121.6	1 839.8	40.4	229.1	(NA)	(NA)
1982 Census ---	124	272	152	21.1	286.4	17.0	33.0	207.3	580.4	929.5	1 538.0	44.9	196.1	(NA)	(NA)
1981 ASM-----	(NA)	(NA)	(NA)	23.7	309.5	20.3	41.1	235.3	687.8	1 145.9	1 835.2	68.0	238.3	(NA)	(NA)
1980 ASM-----	(NA)	(NA)	(NA)	25.0	300.8	21.3	42.9	228.3	676.2	1 198.7	1 850.8	42.3	246.0	(NA)	(NA)
1979 ASM-----	(NA)	(NA)	(NA)	26.6	284.4	22.6	46.3	217.6	595.4	1 210.9	1 806.8	42.3	240.2	(NA)	(NA)
1978 ASM-----	(NA)	(NA)	(NA)	25.1	255.7	21.3	43.5	196.5	563.2	1 140.1	1 683.7	35.4	239.0	(NA)	(NA)
1977 Census ---	283	306	177	25.9	244.6	21.9	45.5	183.8	472.1	982.4	1 453.1	57.3	221.6	(NA)	(NA)
INDUSTRY 2259, KNITTING MILLS, N.E.C.															
1992 Census ---	82	84	27	3.2	60.7	2.7	5.5	44.3	123.0	112.8	235.8	5.8	41.7	95	90
1991 ASM-----	(NA)	(NA)	(NA)	3.9	65.5	3.3	6.0	47.3	137.3	116.3	247.8	7.7	56.7	(NA)	(NA)
1990 ASM-----	(NA)	(NA)	(NA)	3.9	63.6	3.3	6.0	47.0	136.5	111.2	249.3	8.4	48.2	(NA)	(NA)
1989 ASM-----	(NA)	(NA)	(NA)	3.2	50.8	2.7	4.8	36.9	111.9	93.6	205.4	3.9	44.3	(NA)	(NA)
1988 ASM-----	(NA)	(NA)	(NA)	3.8	57.8	3.1	5.8	40.9	117.1	110.5	222.9	3.2	46.9	(NA)	(NA)
1987 Census ---	79	79	35	3.8	54.7	3.2	5.8	38.3	97.9	93.1	187.6	6.6	36.7	98	79
1986 ASM-----	(NA)	(NA)	(NA)	2.7	42.4	2.4	4.6	33.2	79.1	79.7	157.1	3.5	22.2	(NA)	(NA)
1985 ASM-----	(NA)	(NA)	(NA)	2.4	34.3	2.1	3.1	26.2	62.0	61.5	124.4	1.9	18.3	(NA)	(NA)
1984 ASM-----	(NA)	(NA)	(NA)	2.6	31.6	2.3	4.2	24.6	62.6	59.1	121.2	2.4	20.0	(NA)	(NA)
1983 ASM-----	(NA)	(NA)	(NA)	3.0	38.1	2.9	5.2	29.5	65.9	67.5	133.2	3.0	29.4	(NA)	(NA)
1982 Census ---	71	72	29	2.9	33.8	2.5	4.7	25.7	55.4	57.5	114.5	1.5	27.3	97	81
1981 ASM-----	(NA)	(NA)	(NA)	3.2	29.6	3.0	6.6	24.2	32.2	57.0	100.5	1.6	19.9	(NA)	(NA)
1980 ASM-----	(NA)	(NA)	(NA)	3.6	30.7	3.3	6.9	25.8	44.9	56.0	115.1	2.6	19.8	(NA)	(NA)
1979 ASM-----	(NA)	(NA)	(NA)	4.2	32.4	3.9	8.0	26.6	55.3	61.3	116.2	3.3	21.0	(NA)	(NA)
1978 ASM-----	(NA)	(NA)	(NA)	4.0	30.9	3.7	7.5	24.5	51.1	57.5	105.5	2.2	22.9	(NA)	(NA)
1977 Census ---	191	192	47	3.4	24.1	3.1	6.0	19.0	40.9	54.8	95.7	1.5	15.2	97	81

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 2251, WOMEN'S HOSIERY, EXCEPT SOCKS									
1992 Census-----	15 731	90	2 009	7.02	48	70	38 636	41	21.34
1991 ASM-----	15 457	90	2 020	6.88	46	67	40 179	38	22.07
1990 ASM-----	14 936	90	2 009	6.66	44	66	38 940	38	21.49
1989 ASM-----	14 190	90	1 868	6.73	43	65	36 421	39	21.55
1988 ASM-----	13 665	92	2 020	6.18	44	69	31 571	43	16.99
1987 Census-----	13 171	88	2 073	5.98	48	74	26 263	50	14.33
1986 ASM-----	13 147	89	2 070	5.48	44	68	31 052	42	16.87
1985 ASM-----	12 442	89	2 026	5.24	42	66	29 675	42	16.47
1984 ASM-----	11 926	88	1 913	5.47	42	64	31 064	38	18.43
1983 ASM-----	11 510	89	1 935	5.24	43	66	29 318	39	16.97
1982 Census-----	10 301	88	1 858	4.87	45	67	25 742	40	15.67
1981 ASM-----	9 780	86	1 945	4.54	46	69	23 949	41	14.35
1980 ASM-----	9 229	87	1 905	4.41	47	70	21 748	42	13.07
1979 ASM-----	8 542	88	1 905	4.08	46	69	20 471	42	12.24
1978 ASM-----	8 007	88	1 822	3.97	48	70	18 604	43	11.58
1977 Census-----	7 192	89	1 853	3.55	48	70	17 180	42	10.36

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MANUFACTURES—INDUSTRY SERIES

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 2252, HOSIERY, N.E.C.									
1992 Census	15 643	87	1 921	7.32	52	75	33 110	47	19.83
1991 ASM	15 014	92	1 997	6.85	57	80	28 907	52	15.72
1990 ASM	14 417	93	2 014	6.49	55	80	27 513	52	14.73
1989 ASM	13 921	92	1 926	6.56	53	77	28 609	49	16.07
1988 ASM	13 077	89	1 905	6.21	52	76	26 197	50	15.40
1987 Census	12 816	89	1 834	6.24	52	76	26 304	49	16.11
1986 ASM	12 605	88	1 830	6.09	55	81	22 392	56	13.93
1985 ASM	12 189	88	1 828	5.83	55	80	22 022	55	13.69
1984 ASM	11 306	86	1 878	5.46	56	80	21 252	53	13.18
1983 ASM	11 146	90	1 842	5.32	54	77	22 964	49	13.78
1982 Census	10 015	88	1 778	5.04	58	80	18 936	53	12.06
1981 ASM	9 825	87	1 915	4.55	60	83	17 392	56	10.39
1980 ASM	8 991	87	1 900	4.25	59	84	15 328	59	9.27
1979 ASM	8 332	88	1 916	3.94	59	84	13 942	60	8.28
1978 ASM	7 471	90	1 872	3.63	56	80	14 289	52	8.46
1977 Census	6 792	90	1 814	3.41	57	81	12 469	54	7.63
INDUSTRY 2253, KNIT OUTERWEAR MILLS									
1992 Census	16 525	89	1 960	7.60	46	67	43 396	38	24.86
1991 ASM	15 305	88	2 022	6.64	48	70	36 443	42	20.59
1990 ASM	14 580	89	1 887	6.90	50	76	28 038	52	16.76
1989 ASM	14 562	88	1 863	6.93	51	76	28 176	52	17.21
1988 ASM	14 270	81	1 908	6.86	51	77	27 005	53	17.53
1987 Census	14 210	86	1 915	6.39	49	75	28 602	50	17.41
1986 ASM	13 657	85	1 852	6.32	51	74	28 068	49	17.81
1985 ASM	13 241	84	1 837	6.21	53	76	26 721	50	17.24
1984 ASM	12 316	84	1 909	5.58	49	72	28 118	44	17.46
1983 ASM	11 574	85	1 806	5.56	47	72	24 733	47	16.09
1982 Census	11 099	84	1 825	5.29	46	70	25 521	43	16.71
1981 ASM	10 546	85	1 825	5.05	49	73	22 267	47	14.28
1980 ASM	9 499	86	1 796	4.61	49	74	19 957	48	12.88
1979 ASM	8 855	86	1 790	4.24	51	75	17 706	50	11.46
1978 ASM	8 440	87	1 791	4.04	49	76	16 682	51	10.69
1977 Census	7 973	86	1 818	3.70	52	77	15 884	50	10.17
INDUSTRY 2254, KNIT UNDERWEAR MILLS									
1992 Census	15 850	90	1 898	7.62	45	67	41 567	38	24.33
1991 ASM	15 432	91	1 913	7.55	47	64	49 957	31	28.81
1990 ASM	14 695	92	1 865	7.29	49	69	38 734	38	22.68
1989 ASM	14 706	90	1 856	7.26	48	72	31 035	47	18.58
1988 ASM	15 087	92	1 875	7.46	57	83	27 481	55	15.97
1987 Census	14 285	90	1 902	6.99	52	78	26 762	53	15.60
1986 ASM	13 502	92	1 824	6.73	55	79	25 103	54	14.97
1985 ASM	12 575	90	1 815	6.38	59	86	20 488	61	12.54
1984 ASM	12 088	88	1 869	6.00	51	81	19 712	61	11.93
1983 ASM	10 990	88	1 835	5.61	46	74	21 840	50	13.47
1982 Census	10 417	90	1 765	5.43	45	73	20 009	52	12.64
1981 ASM	9 892	90	1 778	5.15	43	73	15 404	64	9.63
1980 ASM	9 459	91	1 826	4.75	53	81	15 143	62	9.10
1979 ASM	8 096	90	1 794	4.11	51	80	14 362	56	8.92
1978 ASM	7 615	91	1 855	3.84	51	79	14 902	51	8.87
1977 Census	6 952	93	1 825	3.56	54	81	12 131	57	7.16
INDUSTRY 2257, WEFT KNIT FABRICS MILLS									
1992 Census	19 319	85	2 048	8.21	61	78	45 278	43	26.11
1991 ASM	20 244	84	2 231	8.15	62	78	48 714	42	25.87
1990 ASM	19 420	85	2 177	8.10	62	79	44 625	44	24.20
1989 ASM	19 356	86	2 148	8.17	60	76	49 338	39	26.84
1988 ASM	17 193	85	2 010	7.74	63	81	35 078	49	20.52
1987 Census	16 553	84	1 962	7.41	61	77	40 848	41	24.88
1986 ASM	16 567	83	1 969	7.37	64	81	34 604	48	21.13
1985 ASM	16 288	82	1 962	7.24	66	85	28 977	56	17.99
1984 ASM	14 152	83	1 870	6.63	66	84	25 997	54	16.71
1983 ASM	13 849	82	2 062	5.96	67	84	28 099	49	16.54
1982 Census	13 534	83	1 981	6.07	66	82	27 344	49	16.71
1981 ASM	12 364	85	1 971	5.45	66	83	23 769	52	14.23
1980 ASM	11 811	85	1 989	5.23	66	83	23 757	50	14.03
1979 ASM	10 935	85	1 968	4.91	65	82	22 413	49	13.44
1978 ASM	10 089	85	1 948	4.63	67	83	20 142	50	12.11
1977 Census	9 517	85	2 005	4.21	68	83	19 952	48	11.72
INDUSTRY 2258, LACE AND WARP KNIT FABRICS MILLS									
1992 Census	20 880	83	2 073	8.86	57	75	49 930	42	29.20
1991 ASM	19 741	84	2 144	7.97	57	75	48 540	41	26.98
1990 ASM	19 731	84	2 112	8.09	59	78	41 776	47	23.58
1989 ASM	19 727	85	2 075	8.28	60	78	44 991	44	25.51
1988 ASM	20 245	81	2 196	8.06	64	83	38 537	53	21.56
1987 Census	18 922	82	2 113	8.06	59	79	39 620	48	22.88
1986 ASM	17 969	83	2 015	7.76	62	80	36 559	49	21.96
1985 ASM	17 523	81	2 035	7.47	58	76	40 483	43	24.48
1984 ASM	16 362	82	2 136	6.75	58	75	39 676	41	22.67
1983 ASM	15 248	80	2 086	6.65	61	80	32 183	47	19.18
1982 Census	13 573	81	1 941	6.28	60	79	27 507	49	17.59
1981 ASM	13 059	86	2 025	5.73	62	79	29 021	45	16.73
1980 ASM	12 032	85	2 014	5.32	65	81	27 048	44	15.76
1979 ASM	10 692	85	2 049	4.70	67	83	22 383	48	12.86
1978 ASM	10 187	85	2 042	4.52	68	83	22 438	45	12.95
1977 Census	9 444	85	2 078	4.04	68	84	18 228	52	10.38

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 2259, KNITTING MILLS, N.E.C.									
1992 Census	18 969	84	2 037	8.05	48	74	38 438	49	22.36
1991 ASM	16 795	85	1 818	7.88	47	73	35 205	48	22.88
1990 ASM	16 308	85	1 818	7.83	45	70	35 000	47	22.75
1989 ASM	15 875	84	1 778	7.69	46	70	34 969	45	23.31
1988 ASM	15 211	82	1 871	7.05	50	76	30 816	49	20.19
1987 Census	14 395	84	1 813	6.60	50	79	25 763	56	16.88
1986 ASM	15 704	89	1 917	7.22	51	78	29 296	54	17.20
1985 ASM	14 292	87	1 476	8.45	49	77	25 833	55	20.00
1984 ASM	12 154	88	1 826	5.86	49	75	24 077	50	14.90
1983 ASM	12 700	97	1 793	5.67	51	79	21 967	58	12.67
1982 Census	11 655	86	1 880	5.47	50	80	19 103	61	11.79
1981 ASM	9 250	94	2 200	3.67	57	86	10 063	92	4.88
1980 ASM	8 528	92	2 091	3.74	49	75	12 472	68	6.51
1979 ASM	7 714	93	2 051	3.33	53	81	13 167	59	6.91
1978 ASM	7 725	93	2 027	3.27	55	84	12 775	60	6.81
1977 Census	7 088	91	1 935	3.17	57	82	12 029	59	6.82

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				
	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 employ-ees ² (1,000)	Value added by manufacture (million dollars)
	Total (no.)	With 20 employ-ees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
INDUSTRY 2251, WOMEN'S HOSIERY, EXCEPT SOCKS													
United States	151	88	25.3	398.0	22.8	45.8	321.7	977.5	893.7	1 843.0	65.0	29.3	769.5
Alabama	6	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Arkansas	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Florida	3	1	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
Georgia	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
Illinois	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Mississippi	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
New Mexico	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
New York	10	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
North Carolina	98	62	16.7	259.0	15.2	29.8	211.8	620.0	548.5	1 152.6	28.8	18.3	403.0
South Carolina	9	7	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	H	(D)
Tennessee	5	4	1.4	17.5	1.0	2.1	10.3	30.8	40.4	70.7	(D)	H	(D)
Virginia	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
INDUSTRY 2252, HOSIERY, N.E.C.													
United States	448	277	38.1	596.0	33.1	63.6	465.5	1 261.5	1 345.3	2 582.5	66.4	36.5	960.1
Alabama	118	54	5.4	78.9	4.7	8.8	59.4	149.1	230.2	378.5	8.2	3.3	73.9
California	2	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Georgia	21	15	2.1	33.5	1.7	3.4	24.0	59.9	104.8	161.3	3.1	G	(D)
Iowa	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
Kentucky	4	4	F	(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 York	5	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
North Carolina	242	165	23.2	365.4	20.2	38.5	289.3	795.4	763.8	1 540.3	43.9	24.1	630.4
Pennsylvania	6	4	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	51.1
Tennessee	23	15	3.1	47.0	2.8	5.6	38.1	87.2	92.5	176.3	5.3	3.3	84.2
Virginia	6	5	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
West Virginia	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
Wisconsin	2	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(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 2253, KNIT OUTERWEAR MILLS														
United States	—	679	334	53.0	875.8	47.2	92.5	703.1	2 300.0	1 928.9	4 182.3	117.5	59.0	1 687.5
Alabama	—	22	8	3.6	59.9	3.3	6.0	50.6	120.8	109.2	227.4	4.0	G	(D)
California	E1	70	33	2.5	39.9	2.2	4.6	30.4	101.2	77.1	176.9	7.1	H	(D)
Connecticut	—	4	1	.1	2.0	.1	.1	1.1	2.7	2.6	5.5	(D)	E	(D)
Florida	E2	20	10	.9	11.3	.8	1.4	8.6	27.0	15.5	41.6	(D)	G	(D)
Georgia	—	8	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	E	(D)
Illinois	—	11	5	.3	5.5	.3	.5	3.8	11.1	9.1	20.0	.5	C	(D)
Kentucky	—	4	4	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
Louisiana	—	4	2	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Massachusetts	E1	6	3	.2	3.2	.1	.2	2.0	2.8	3.3	6.3	(D)	G	(D)
Minnesota	—	5	4	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	F	(D)
Mississippi	—	4	3	2.5	39.5	2.4	4.4	35.7	65.5	25.3	86.1	2.8	G	(D)
Missouri	—	5	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
New Hampshire	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
New Jersey	E1	55	28	1.4	23.7	1.3	2.5	17.7	45.1	36.9	82.0	2.3	2.6	70.4
New York	E3	255	113	7.6	128.3	6.7	13.2	95.9	265.0	249.3	510.8	20.7	12.7	326.7
North Carolina	—	53	36	12.5	224.0	11.3	22.6	183.0	548.6	628.5	1 171.3	56.6	H	(D)
Ohio	—	6	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1	G	(D)
Oregon	—	5	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
Pennsylvania	—	37	25	2.9	46.8	2.4	4.5	30.6	94.1	104.5	195.5	3.2	5.7	225.3
South Carolina	E1	11	5	.9	12.5	.7	1.1	8.9	24.0	7.7	31.5	.9	2.5	64.5
Tennessee	E1	21	18	2.9	39.3	2.3	4.9	25.3	99.7	135.7	245.7	2.4	2.1	116.9
Texas	E2	10	3	.3	4.1	.2	.5	2.8	6.0	7.3	13.0	.2	C	(D)
Virginia	—	10	7	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.6	H	(D)
Washington	E3	9	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West Virginia	—	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
Wisconsin	E1	8	6	.5	6.0	.4	.7	3.9	12.0	7.7	19.7	.2	E	(D)
INDUSTRY 2254, KNIT UNDERWEAR MILLS														
United States	—	69	50	12.0	190.2	10.8	20.5	156.3	498.8	403.9	891.1	35.5	19.3	516.5
Alabama	—	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Georgia	—	4	4	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
Kentucky	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	H	(D)
Louisiana	—	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
Mississippi	—	3	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
New York	—	6	4	.4	5.3	.3	.6	4.1	28.1	20.1	48.1	.4	G	(D)
North Carolina	—	13	11	4.2	74.8	3.7	7.3	61.8	112.8	123.8	229.0	19.7	3.9	96.6
Ohio	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
Pennsylvania	—	16	11	1.6	28.7	1.4	2.7	21.9	109.5	62.8	176.7	(D)	1.9	55.6
South Carolina	—	4	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Texas	—	1	1	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Virginia	—	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
INDUSTRY 2257, WEFT KNIT FABRICS MILLS														
United States	—	387	234	41.7	805.6	35.3	72.3	593.6	1 888.1	3 018.5	4 924.1	159.8	34.9	1 425.6
Alabama	—	8	8	2.0	38.3	1.8	3.8	30.7	66.4	218.3	284.4	(D)	G	(D)
Arkansas	—	2	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
California	—	27	15	2.0	40.7	1.6	3.6	27.0	95.4	193.0	286.7	7.0	G	(D)
Florida	E2	12	5	.4	9.2	.3	.7	6.7	18.4	41.4	59.7	1.4	C	(D)
Georgia	—	12	9	1.8	31.1	1.6	3.1	24.0	62.8	80.8	145.0	5.1	G	(D)
Massachusetts	—	5	3	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
New Hampshire	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
New Jersey	—	30	14	.8	19.0	.7	1.5	14.1	31.7	39.2	70.8	3.2	1.1	37.0
New York	E2	83	24	1.5	31.1	1.2	2.6	22.2	59.2	96.9	156.6	5.6	G	(D)
North Carolina	—	115	92	20.5	387.4	17.6	36.0	300.3	927.9	1 587.9	2 516.1	83.9	15.5	638.8
Pennsylvania	—	30	15	1.4	30.7	1.2	2.5	22.7	70.1	56.7	126.9	5.2	1.4	59.9
Rhode Island	E1	5	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	C	(D)
South Carolina	—	22	17	2.7	51.6	2.3	4.8	37.6	106.2	152.4	272.5	8.9	2.1	95.5
Tennessee	E2	14	12	2.2	49.3	1.8	3.7	32.2	131.8	127.3	263.0	(D)	1.8	95.2
Virginia	—	6	6	2.2	34.5	1.9	3.6	28.5	100.6	152.5	253.4	(D)	H	(D)
Wisconsin	E1	5	4	.4	9.2	.3	.8	6.9	20.5	40.6	61.5	(D)	E	(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 employ-ees 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)						
E1													
INDUSTRY 2258, LACE AND WARP KNIT FABRICS MILLS													
United States -----	278	163	20.0	417.6	16.5	34.2	302.9	998.6	1 312.4	2 309.6	75.8	20.5	812.2
Alabama -----	5	3	.3	6.1	.3	.5	4.6	10.7	12.2	22.1	(D)	C	(D)
California -----	11	3	.3	5.8	.2	.5	4.1	12.7	10.9	23.6	.7	E	(D)
Connecticut -----	4	4	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
Georgia -----	7	4	.7	17.8	.6	1.3	12.0	37.2	44.2	81.1	(D)	F	(D)
Kentucky -----	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
Maine -----	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Massachusetts -----	6	3	.2	5.6	.2	.4	3.7	11.9	8.5	20.5	(D)	C	(D)
New Jersey -----	55	30	2.4	56.0	2.0	4.2	42.7	111.4	93.1	202.9	4.9	1.9	71.5
New York -----	58	26	2.5	53.0	2.1	4.3	39.6	123.9	153.0	277.6	5.9	H	(D)
North Carolina -----	55	46	6.6	132.7	5.4	11.1	95.3	394.4	436.3	828.6	34.1	6.8	270.4
Pennsylvania -----	15	13	1.9	34.6	1.6	3.2	24.7	112.1	147.0	256.5	6.7	2.2	95.1
Rhode Island -----	12	9	.8	16.2	.7	1.4	13.4	37.3	63.5	100.3	2.9	1.2	47.5
South Carolina -----	9	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	48.4
Tennessee -----	7	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1	(NA)	(NA)
Texas -----	5	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	(NA)	(NA)
Virginia -----	6	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	1.1	14.6
INDUSTRY 2259, KNITTING MILLS, N.E.C.													
United States -----	E2 84	27	3.2	60.7	2.7	5.5	44.3	123.0	112.8	235.8	5.8	3.8	97.9
California -----	E1 5	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Illinois -----	E5 2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
Indiana -----	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
New York -----	E1 18	3	.6	12.3	.5	1.1	9.6	28.0	17.2	45.1	2.0	F	(D)
North Carolina -----	16	7	1.1	19.7	1.0	1.9	15.6	39.9	42.0	83.1	1.3	G	(D)
Wisconsin -----	E8 2	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(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	Women's hosiery, except socks (SIC 2251)	Hosiery, n.e.c. (SIC 2252)	Knit outerwear mills (SIC 2253)				Knit underwear mills (SIC 2254)
			Total	Manufacturers (SIC 2253-11)	Jobbers (SIC 2253-22)	Contractors (SIC 2253-33)	
Companies -----number--	127	403	646	297	46	310	57
All establishments -----number--	151	448	679	319	46	314	69
With 1 to 19 employees -----number--	63	171	345	153	31	161	19
With 20 to 99 employees -----number--	36	176	230	90	14	126	25
With 100 employees or more -----number--	52	101	104	76	1	27	25
Employment and labor costs:							
Employees -----1,000--	25.3	38.1	53.0	39.5	.9	12.7	12.0
Compensation, total -----mil dol--	480.1	712.5	1 081.5	829.2	24.8	227.6	238.2
Annual payroll -----mil dol--	398.0	596.0	875.8	665.2	21.7	189.0	190.2
Fringe benefits -----mil dol--	82.1	116.5	205.7	164.1	3.1	38.6	48.0
Social Security and other legally required payments -----mil dol--	44.7	59.7	98.5	76.8	2.1	19.7	25.6
Employer voluntary payments -----mil dol--	37.3	56.8	107.2	87.3	1.0	18.9	22.4
Production workers:							
Average for year -----1,000--	22.8	33.1	47.2	35.1	.5	11.5	10.8
March -----1,000--	22.9	33.0	45.7	34.0	.5	11.2	10.3
May -----1,000--	23.2	33.5	47.2	35.1	.5	11.6	10.6
August -----1,000--	22.7	33.5	47.8	35.5	.6	11.7	11.1
November -----1,000--	22.6	32.3	47.9	35.9	.5	11.5	11.4
Hours -----millions--	45.8	63.6	92.5	68.5	1.2	22.8	20.5
Wages -----mil dol--	321.7	465.5	703.1	537.0	9.5	156.7	156.3
Cost of materials ¹ -----mil dol--	893.7	1 345.3	1 928.9	1 680.5	145.5	102.9	403.9
Materials, parts, containers, etc., consumed ² -----mil dol--	825.9	1 191.7	1 635.2	1 483.5	71.4	80.4	354.4
Resales -----mil dol--	12.6	71.4	32.4	30.1	2.1	.3	4.6
Fuels -----mil dol--	8.1	15.7	26.2	22.7	.4	3.1	5.9
Purchased electricity -----mil dol--	32.1	34.7	34.3	27.6	.7	5.9	11.2
Contract work -----mil dol--	15.0	31.8	200.7	116.6	70.9	13.2	27.7

See footnotes at end of table.

22B-14 KNITTING MILLS

MANUFACTURES—INDUSTRY SERIES

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	Women's hosiery, except socks (SIC 2251)	Hosiery, n.e.c. (SIC 2252)	Knit outerwear mills (SIC 2253)				Knit underwear mills (SIC 2254)
			Total	Manufacturers (SIC 2253-11)	Jobbers (SIC 2253-22)	Contractors (SIC 2253-33)	
Quantity of electric energy used for heat and power:							
Purchased..... mil kWh..	546.5	632.7	573.2	483.8	8.4	81.0	217.0
Generated less sold..... mil kWh..	-	-	-	-	-	-	-
Total value of shipments.....mil dol..	1 843.0	2 582.5	4 182.3	3 531.8	222.6	427.9	891.1
Value added.....mil dol..	977.5	1 261.5	2 300.0	1 891.0	83.0	326.0	498.8
Inventories by stage of fabrication:							
Beginning of 1992.....mil dol..	218.8	331.6	514.1	449.0	23.5	41.6	122.1
Finished goods.....mil dol..	77.8	147.8	269.4	249.8	9.6	10.1	67.5
Work in process.....mil dol..	86.4	109.8	117.8	101.5	6.6	9.6	26.6
Materials and supplies.....mil dol..	54.6	74.1	126.9	97.7	7.3	22.0	28.0
End of 1992.....mil dol..	244.2	359.0	555.0	481.1	30.4	43.5	134.7
Finished goods.....mil dol..	83.0	166.4	300.5	279.1	11.3	10.2	73.9
Work in process.....mil dol..	109.3	115.5	133.1	112.0	10.7	10.4	31.8
Materials and supplies.....mil dol..	51.9	77.2	121.4	90.0	8.4	22.9	29.0

Item	Weft knit fabrics mills (SIC 2257)				Lace and warp knit fabrics mills (SIC 2258)				Knitting mills, n.e.c. (SIC 2259)
	Total	Manufacturers (SIC 2257-11)	Jobbers (SIC 2257-22)	Contractors (SIC 2257-33)	Total	Manufacturers (SIC 2258-11)	Jobbers (SIC 2258-22)	Contractors (SIC 2258-33)	
Companies.....number..	344	206	11	135	252	158	4	94	82
All establishments.....number..	387	236	11	140	278	176	4	98	84
With 1 to 19 employees.....number..	153	92	6	55	115	71	3	41	57
With 20 to 99 employees.....number..	132	70	2	60	106	62	1	43	19
With 100 employees or more.....number..	102	74	3	25	57	43	-	14	8
Employment and labor costs:									
Employees.....1,000..	41.7	32.1	.6	8.9	20.0	15.2	.1	4.7	3.2
Compensation, total.....mil dol..	981.0	749.6	15.7	215.7	497.9	380.3	2.6	115.0	73.5
Annual payroll.....mil dol..	805.6	615.6	13.6	176.4	417.6	317.0	2.2	98.3	60.7
Fringe benefits.....mil dol..	175.4	134.0	2.1	39.4	80.3	63.3	.4	16.7	12.8
Social Security and other legally required payments.....mil dol..	82.6	63.4	1.4	17.8	38.3	29.8	.2	8.4	7.5
Employer voluntary payments.....mil dol..	92.8	70.6	.7	21.6	42.0	33.5	.2	8.3	5.2
Production workers:									
Average for year.....1,000..	35.3	27.2	.5	7.6	16.5	12.6	(Z)	3.9	2.7
March.....1,000..	35.3	26.9	.5	7.8	16.6	12.6	(Z)	3.9	2.7
May.....1,000..	35.6	27.2	.5	7.9	16.7	12.6	(Z)	4.0	2.8
August.....1,000..	35.4	27.6	.4	7.4	16.7	12.6	(Z)	4.0	2.8
November.....1,000..	34.9	27.3	.5	7.1	16.2	12.3	(Z)	3.9	2.7
Hours.....millions..	72.3	55.3	.9	16.1	34.2	26.1	.1	8.1	5.5
Wages.....mil dol..	593.6	452.5	8.5	132.6	302.9	230.8	0.5	71.7	44.3
Cost of materials ¹.....mil dol..	3 018.5	2 680.5	140.0	198.0	1 312.4	1 192.9	30.8	88.7	112.8
Materials, parts, containers, etc., consumed ².....mil dol..	2 736.6	2 478.7	98.3	159.6	1 198.3	1 109.6	20.7	68.0	97.0
Resales.....mil dol..	4.3	3.9	-	.4	1.0	.5	.4	.1	11.6
Fuels.....mil dol..	64.9	46.1	.3	18.5	23.4	14.2	-	9.2	.5
Purchased electricity.....mil dol..	77.3	59.3	1.2	16.7	40.5	31.2	(Z)	9.3	2.3
Contract work.....mil dol..	135.5	92.5	40.2	2.8	49.2	37.3	9.6	2.2	1.4
Quantity of electric energy used for heat and power:									
Purchased..... mil kWh..	1 429.3	1 141.1	17.5	270.7	644.4	518.4	.3	125.7	39.1
Generated less sold..... mil kWh..	(D)	(D)	-	-	-	-	-	-	-
Total value of shipments.....mil dol..	4 924.1	4 114.0	189.4	620.8	2 309.6	1 994.8	35.8	278.9	235.8
Value added.....mil dol..	1 888.1	1 421.1	48.1	418.9	998.6	804.9	4.4	189.3	123.0
Inventories by stage of fabrication:									
Beginning of 1992.....mil dol..	425.0	365.8	21.9	37.3	266.5	246.3	5.8	14.4	41.0
Finished goods.....mil dol..	138.4	127.3	4.8	6.3	74.4	69.6	2.2	2.7	24.1
Work in process.....mil dol..	142.7	122.2	8.8	11.6	104.7	99.1	2.2	3.4	4.5
Materials and supplies.....mil dol..	143.9	116.2	8.4	19.3	87.4	77.6	1.4	8.3	12.4
End of 1992.....mil dol..	409.6	351.7	19.6	38.3	275.0	256.8	5.5	12.8	41.7
Finished goods.....mil dol..	130.4	120.1	4.6	5.7	76.5	72.4	2.0	2.2	23.7
Work in process.....mil dol..	133.2	117.0	7.7	8.5	104.0	99.2	1.8	3.0	5.0
Materials and supplies.....mil dol..	146.0	114.6	7.3	24.1	94.5	85.1	1.8	7.6	13.1

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	Women's hosiery, except socks (SIC 2251)	Hosiery, n.e.c. (SIC 2252)	Knit outerwear mills (SIC 2253)	Knit underwear mills (SIC 2254)	Weft knit fabrics mills (SIC 2257)	Lace and warp knit fabrics mills (SIC 2258)	Knitting mills, n.e.c. (SIC 2259)
Gross book value of depreciable assets:							
Total:							
Beginning of year	532.3	665.5	969.0	259.9	1 461.3	879.5	70.5
New capital expenditures ¹	65.0	66.4	117.5	35.5	159.8	75.8	5.8
Used capital expenditures	(D)	8.1	6.3	(D)	9.3	4.6	.4
Retirements	(D)	16.5	43.0	(D)	36.3	23.4	1.2
End of year	580.9	723.5	1 049.8	290.8	1 594.0	936.5	75.5
Buildings and other structures:							
Beginning of year	124.5	164.3	258.7	79.6	322.9	160.6	11.4
New capital expenditures	6.0	10.7	23.0	6.0	21.6	7.2	.9
Used capital expenditures	(D)	2.3	3.5	(D)	2.7	.3	(Z)
Retirements	(D)	3.3	9.1	(D)	.7	.4	.1
End of year	129.4	174.0	276.0	86.0	346.4	167.8	12.3
Machinery and equipment:							
Beginning of year	407.8	501.1	710.4	180.3	1 138.4	718.9	59.0
New capital expenditures ¹	59.1	55.7	94.5	29.5	138.2	68.6	4.9
Used capital expenditures	6.3	5.9	2.9	.6	6.6	4.3	.4
Retirements	21.5	13.2	34.0	5.7	35.6	23.0	1.1
End of year	451.6	549.4	773.8	204.8	1 247.6	768.7	63.1
Depreciation charges during 1992:							
Total	37.0	55.9	72.2	16.5	100.7	63.0	5.6
Buildings and other structures	5.1	9.6	11.8	3.4	13.3	6.5	.6
Machinery and equipment	31.9	46.4	60.4	13.1	87.4	56.5	5.1
Rental payments:							
Total	8.7	13.6	23.8	3.2	27.1	13.3	2.3
Buildings and other structures	3.7	7.7	12.5	1.3	13.0	8.0	1.3
Machinery and equipment	5.0	6.0	11.4	1.9	14.1	5.3	1.0

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	Women's hosiery, except socks (SIC 2251)		Hosiery, n.e.c. (SIC 2252)		Knit outerwear mills (SIC 2253)		Knit underwear mills (SIC 2254)	
	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	2.2	(X)	3.6	(X)	4.4	(X)	2.1	(X)
Response coverage ratio (percent) ²	65.1	(X)	81.2	(X)	80.4	(X)	86.7	(X)
Machinery	17.2	(X)	11.1	(X)	15.9	(X)	7.1	(X)
Response coverage ratio (percent) ²	74.8	(X)	81.2	(X)	82.0	(X)	87.9	(X)
Other purchased services:								
Communications	1.9	(X)	2.8	(X)	2.9	(X)	1.1	(X)
Response coverage ratio (percent) ²	73.0	(X)	80.6	(X)	79.6	(X)	87.2	(X)
Legal	1.1	(X)	1.8	(X)	1.9	(X)	.4	(X)
Response coverage ratio (percent) ²	72.6	(X)	78.3	(X)	80.7	(X)	83.4	(X)
Accounting and bookkeeping .....	.4	(X)	1.8	(X)	2.0	(X)	.3	(X)
Response coverage ratio (percent) ²	72.6	(X)	81.1	(X)	83.8	(X)	83.4	(X)
Advertising	1.8	(X)	3.8	(X)	2.4	(X)	2.3	(X)
Response coverage ratio (percent) ²	74.8	(X)	80.0	(X)	81.7	(X)	80.5	(X)
Software and other data processing	1.0	(X)	2.1	(X)	1.9	(X)	.5	(X)
Response coverage ratio (percent) ²	74.8	(X)	79.7	(X)	82.7	(X)	83.4	(X)
Refuse removal, including hazardous waste .....	.8	(X)	.5	(X)	1.6	(X)	.3	(X)
Response coverage ratio (percent) ²	74.1	(X)	77.9	(X)	80.5	(X)	83.4	(X)
New machinery and equipment expenditures								
Automobiles, trucks, etc., for highway use	59.1	(X)	55.7	(X)	94.5	(X)	29.5	(X)
Computers and peripheral data processing equipment .....	.2	8	2.0	13	2.2	16	.3	5
All other	1.2	5	1.4	20	5.2	25	1.4	3
Adjustment ratio ³	57.6	1	52.3	1	87.2	2	27.8	1
Adjustment ratio ³	1.0	(X)	1.3	(X)	1.5	(X)	1.1	(X)
Cost of materials, components, parts, etc., used								
Materials purchased or transferred from foreign sources ⁴	825.9	(X)	1 191.7	(X)	1 635.2	(X)	354.4	(X)
Materials purchased or transferred from domestic sources	28.5	61	.8	50	4.4	48	.3	1
Adjustment ratio ³	797.4	3	1 191.0	1	1 630.8	1	354.1	1
Adjustment ratio ³	1.4	(X)	1.7	(X)	1.7	(X)	1.9	(X)

See footnotes at end of table.

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

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

Item	Circular knit fabrics mills (SIC 2257)		Warp knit fabrics mills (SIC 2258)		Knitting mills, n.e.c. (SIC 2259)	
	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	6.5	(X)	4.2	(X)	.6	(X)
Response coverage ratio (percent) ²	78.1	(X)	77.2	(X)	77.5	(X)
Machinery	32.8	(X)	24.3	(X)	(D)	(X)
Response coverage ratio (percent) ²	78.5	(X)	77.9	(X)	(D)	(X)
Other purchased services:						
Communications	3.6	(X)	3.6	(X)	.5	(X)
Response coverage ratio (percent) ²	66.5	(X)	77.2	(X)	77.5	(X)
Legal	1.3	(X)	1.6	(X)	.1	(X)
Response coverage ratio (percent) ²	78.5	(X)	74.9	(X)	62.7	(X)
Accounting and bookkeeping	1.3	(X)	.8	(X)	.2	(X)
Response coverage ratio (percent) ²	78.6	(X)	75.6	(X)	77.5	(X)
Advertising .....	.4	(X)	.4	(X)	.6	(X)
Response coverage ratio (percent) ²	78.5	(X)	74.1	(X)	77.5	(X)
Software and other data processing	1.8	(X)	3.4	(X)	.3	(X)
Response coverage ratio (percent) ²	75.6	(X)	77.9	(X)	77.5	(X)
Refuse removal, including hazardous waste	3.1	(X)	1.6	(X)	.1	(X)
Response coverage ratio (percent) ²	78.6	(X)	77.1	(X)	77.5	(X)
New machinery and equipment expenditures	138.2	(X)	68.6	(X)	4.9	(X)
Automobiles, trucks, etc., for highway use .....	.8	29	.3	11	(D)	(X)
Computers and peripheral data processing equipment	4.8	5	3.0	10	(D)	(X)
All other	132.6	1	65.3	1	(D)	(X)
Adjustment ratio ³	1.3	(X)	1.2	(X)	(D)	(X)
Cost of materials, components, parts, etc., used						
Materials purchased or transferred from foreign sources ⁴	2 736.6	(X)	1 198.3	(X)	97.0	(X)
Materials purchased or transferred from domestic sources	56.8	39	(D)	(X)	(D)	(X)
Adjustment ratio ³	2 679.8	1	(D)	(X)	(D)	(X)
	2.0	(X)	(D)	(X)	(D)	(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 2251, WOMEN'S HOSIERY, EXCEPT SOCKS												
Total	—	151	25.3	398.0	22.8	45.8	321.7	977.5	893.7	1 843.0	65.0	244.2
Establishments with an average of—												
1 to 4 employees	E8	22	(Z)	.7	(Z)	.1	.6	1.4	1.5	2.9	.1	.4
5 to 9 employees	E6	18	.1	1.7	.1	.2	1.4	3.6	3.8	7.3	.3	1.1
10 to 19 employees	E4	23	.3	4.8	.3	.5	3.6	9.9	8.4	18.1	.8	2.0
20 to 49 employees	E1	20	.6	8.7	.6	1.0	7.0	17.1	17.7	35.2	1.3	3.2
50 to 99 employees	—	16	1.1	16.2	.8	1.5	10.3	31.6	32.4	64.4	2.5	4.9
100 to 249 employees	E1	19	3.4	52.3	2.9	5.9	40.1	121.7	146.0	265.4	4.0	32.8
250 to 499 employees	—	13	4.6	68.0	4.2	8.1	57.8	163.9	163.2	329.6	13.8	31.8
500 to 999 employees	—	16	10.8	180.1	9.9	21.0	150.0	436.9	406.3	833.1	28.5	87.3
1,000 to 2,499 employees	—	4	4.4	65.4	4.1	7.4	50.8	191.5	114.5	286.9	15.7	80.8
Covered by administrative records ²	E9	47	.3	3.9	.3	.5	3.2	7.8	8.2	16.0	.6	2.5
INDUSTRY 2252, HOSIERY, N.E.C.												
Total	—	448	38.1	596.0	33.1	63.6	465.5	1 261.5	1 345.3	2 582.5	66.4	359.0
Establishments with an average of—												
1 to 4 employees	E9	73	.1	1.7	.1	.2	1.4	3.0	3.3	6.3	.2	.7
5 to 9 employees	E9	40	.3	2.9	.2	.4	2.4	5.7	6.1	11.7	.4	1.6
10 to 19 employees	E2	58	.9	11.8	.7	1.4	8.7	22.0	26.1	48.0	1.1	4.4
20 to 49 employees	—	113	3.6	50.0	3.0	5.5	37.2	85.2	115.5	199.7	4.9	16.7
50 to 99 employees	E1	63	4.6	65.9	3.8	7.2	47.6	123.7	158.7	280.4	6.1	31.6
100 to 249 employees	—	57	9.6	148.9	8.2	15.7	114.7	294.0	359.9	647.8	13.3	91.5
250 to 499 employees	—	33	11.5	193.0	10.2	20.0	150.6	434.5	426.9	854.9	21.8	142.8
500 to 999 employees	—	10	7.6	121.8	6.8	13.1	103.0	293.5	248.8	533.6	18.6	69.7
1,000 to 2,499 employees	—	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ²	E9	122	.7	7.3	.6	1.1	6.1	13.1	14.4	27.6	.9	3.3

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 2253, KNIT OUTERWEAR MILLS												
Total	-	679	53.0	875.8	47.2	92.5	703.1	2 300.0	1 928.9	4 182.3	117.5	555.0
Establishments with an average of—												
1 to 4 employees	E7	163	.3	5.1	.3	.6	3.7	13.0	12.3	24.7	1.1	4.4
5 to 9 employees	E4	81	.6	10.7	.5	.9	7.2	24.3	26.3	50.3	1.4	5.6
10 to 19 employees	E2	101	1.4	24.4	1.2	2.4	17.7	54.2	42.4	96.5	4.2	13.2
20 to 49 employees	E1	147	4.7	72.9	4.1	8.0	54.9	148.7	148.3	295.4	17.3	39.2
50 to 99 employees	E3	83	5.7	86.4	5.0	9.5	65.6	164.6	140.7	304.7	9.9	42.0
100 to 249 employees	E1	62	9.5	142.1	8.4	16.6	108.7	331.8	259.1	583.9	30.7	81.7
250 to 499 employees	-	20	7.4	126.5	6.5	13.1	95.4	233.6	308.0	539.0	11.0	55.8
500 to 999 employees	-	15	9.9	169.1	8.8	16.8	133.6	399.9	397.1	809.3	26.0	86.3
1,000 to 2,499 employees	-	5	13.5	238.7	12.5	24.5	216.3	929.9	594.7	1 478.6	16.0	226.8
2,500 employees or more	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ²	E9	205	1.1	14.9	.9	1.9	12.0	25.4	22.5	48.0	2.0	7.0
INDUSTRY 2254, KNIT UNDERWEAR MILLS												
Total	-	69	12.0	190.2	10.8	20.5	156.3	498.8	403.9	891.1	35.5	134.7
Establishments with an average of—												
1 to 4 employees	E9	9	(Z)	.2	(Z)	(Z)	.1	.3	.2	.5	.1	.1
5 to 9 employees	E5	3	(Z)	.3	(Z)	(Z)	.2	.8	.4	1.3	(D)	.3
10 to 19 employees	E4	7	.1	1.3	.1	.2	.8	2.9	2.6	5.2	.1	1.3
20 to 49 employees	E1	11	.3	4.7	.3	.6	3.6	11.0	10.2	21.5	.6	2.1
50 to 99 employees	-	14	1.0	14.3	.8	1.5	10.4	36.2	27.7	61.8	.6	15.8
100 to 249 employees	-	11	1.7	22.1	1.5	2.8	17.8	58.1	54.9	110.7	2.1	18.0
250 to 499 employees	-	5	1.9	26.2	1.8	3.2	23.3	46.1	38.5	86.2	1.7	12.7
500 to 999 employees	-	8	7.0	121.2	6.3	12.1	100.1	343.3	269.4	604.2	30.3	84.3
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ²	E9	13	.1	.7	(Z)	.1	.5	1.4	1.0	2.4	.1	.3
INDUSTRY 2257, WEFT KNIT FABRICS MILLS												
Total	-	387	41.7	805.6	35.3	72.3	593.6	1 888.1	3 018.5	4 924.1	159.8	409.6
Establishments with an average of—												
1 to 4 employees	E8	48	.1	2.0	.1	.2	1.4	3.3	6.5	9.8	.2	1.0
5 to 9 employees	E5	53	.3	6.8	.3	.5	5.0	11.9	18.7	30.5	1.1	3.3
10 to 19 employees	E2	52	.7	14.5	.6	1.2	9.6	31.6	70.7	101.5	2.4	13.8
20 to 49 employees	-	77	2.5	49.4	2.1	4.3	34.1	111.2	127.8	239.0	7.6	20.7
50 to 99 employees	-	55	3.9	79.9	3.3	7.1	60.4	169.8	272.9	440.8	16.4	39.3
100 to 249 employees	-	57	10.0	202.2	8.5	17.9	149.6	423.1	795.4	1 222.7	28.4	106.8
250 to 499 employees	-	32	12.1	226.3	10.2	20.9	172.2	515.9	739.3	1 269.6	48.5	124.7
500 to 999 employees	-	9	6.3	117.2	5.5	11.1	94.6	244.8	568.2	808.6	41.8	48.4
1,000 to 2,499 employees	-	4	5.7	107.3	4.7	9.0	66.7	376.5	419.1	801.6	13.3	51.7
Covered by administrative records ²	E9	92	.5	8.4	.4	.9	6.4	13.5	20.2	33.6	1.1	3.4
INDUSTRY 2258, LACE AND WARP KNIT FABRICS MILLS												
Total	-	278	20.0	417.6	16.5	34.2	302.9	998.6	1 312.4	2 309.6	75.8	275.0
Establishments with an average of—												
1 to 4 employees	E8	34	.1	1.4	.1	.1	.9	2.9	4.6	7.5	.2	.8
5 to 9 employees	E7	36	.3	4.8	.2	.4	3.7	8.3	11.7	19.9	.8	2.0
10 to 19 employees	E2	45	.6	13.3	.5	1.0	8.2	24.7	51.9	77.2	1.6	7.9
20 to 49 employees	-	61	2.0	45.8	1.7	3.5	32.0	98.2	122.7	219.6	7.9	21.2
50 to 99 employees	E1	45	3.3	64.6	2.9	5.8	49.6	125.3	143.1	268.7	8.6	26.2
100 to 249 employees	-	36	5.3	108.2	4.3	9.0	78.0	212.3	273.0	483.6	10.6	53.0
250 to 499 employees	-	17	5.7	121.5	4.8	10.2	89.9	391.1	514.1	901.7	23.1	123.2
500 to 999 employees	-	4	2.7	58.1	2.1	4.3	40.5	135.9	191.3	331.2	23.0	40.7
Covered by administrative records ²	E9	70	.4	7.5	.3	.7	5.7	11.1	18.2	29.3	1.0	3.2
INDUSTRY 2259, KNITTING MILLS, N.E.C.												
Total	E2	84	3.2	60.7	2.7	5.5	44.3	123.0	112.8	235.8	5.8	41.7
Establishments with an average of—												
1 to 4 employees	E9	38	.1	1.3	(Z)	.1	.9	2.6	2.1	4.7	.2	.9
5 to 9 employees	E4	7	.1	1.0	(Z)	.1	.7	2.4	2.0	4.4	.1	.6
10 to 19 employees	E2	12	.2	2.8	.1	.2	1.8	6.1	6.6	12.9	.3	1.5
20 to 49 employees	E3	9	.3	4.6	.3	.4	3.5	6.9	8.3	15.3	.4	1.8
50 to 99 employees	E1	10	.6	10.9	.6	1.1	7.9	20.7	21.2	41.6	1.3	5.5
100 to 249 employees	-	5	.7	11.0	.6	1.2	8.4	21.1	25.3	47.0	3.5	8.4
250 to 499 employees	E5	2	1.3	29.0	1.1	2.3	21.0	63.2	47.3	110.0	(D)	23.1
500 to 999 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ²	E9	41	.1	1.8	.1	.2	1.2	3.7	3.0	6.7	.3	1.3

See footnotes at end of table.

22B-18 KNITTING MILLS

MANUFACTURES—INDUSTRY SERIES

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

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)				
2251	Women's hosiery, except socks:										
	All establishments in industry -----	151	25.3	398.0	22.8	45.8	321.7	977.5	893.7	1 843.0	65.0
	Establishments with this product class primary:										
22514	Women's and misses' finished hosiery, full-length and knee-length -----	23	3.8	61.8	3.4	7.0	52.3	147.6	130.3	276.5	14.2
22516	Women's and misses' finished panty hose, including tights -----	52	19.4	305.2	17.6	35.4	244.7	770.6	694.3	1 438.1	45.9
22518	Women's hosiery shipped in the greige -----	14	1.2	18.0	1.1	2.0	14.9	33.7	46.9	81.2	3.3
2252	Hosiery, n.e.c.:										
	All establishments in industry -----	448	38.1	596.0	33.1	63.6	465.5	1 261.5	1 345.3	2 582.5	66.4
	Establishments with this product class primary:										
22522	Men's finished seamless hosiery (sizes 10 and up) ---	117	17.9	288.5	15.5	30.4	224.6	589.6	683.6	1 271.4	32.1
22525	All other finished hosiery -----	90	14.2	221.6	12.5	23.9	174.4	524.5	475.6	980.8	26.0
22526	Seamless hosiery shipped in the greige -----	64	3.7	58.3	3.1	5.7	44.1	94.1	129.6	220.5	4.8
2253	Knit outerwear mills:										
	All establishments in industry -----	679	53.0	875.8	47.2	92.5	703.1	2 300.0	1 928.9	4 182.3	117.5
	Establishments with this product class primary:										
22534	Men's and boys' sweaters -----	25	2.9	48.7	2.5	5.2	33.1	104.7	82.2	185.1	5.7
22535	Women's, misses', and juniors' sweaters -----	51	3.7	61.4	3.1	6.1	44.3	171.6	188.8	355.6	8.3
22536	Girls', children's, and infants' sweaters -----	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2253A	Men's, and boys' knit shirts -----	36	18.5	311.7	17.2	33.1	267.0	1 003.7	858.6	1 847.4	27.0
2253B	Women's, misses', and juniors' knit shirts and blouses -----	15	2.4	37.6	2.1	4.1	26.6	74.8	81.3	155.0	4.4
2253C	Girls', children's, and infants' knit shirts and blouses ---	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2253D	All other knit outerwear products -----	34	9.8	177.9	8.2	16.2	138.1	525.3	501.3	1 003.8	45.5
2253E	Contract and commission receipts for knitting only or knitting and finishing outerwear -----	238	12.3	183.2	11.2	22.1	152.2	318.1	94.6	411.8	17.1
2254	Knit underwear mills:										
	All establishments in industry -----	69	12.0	190.2	10.8	20.5	156.3	498.8	403.9	891.1	35.5
	Establishments with this product class primary:										
22541	Men's and boys' knit underwear and nightwear -----	20	5.6	97.0	5.1	9.7	80.1	285.9	202.2	485.7	7.8
22544	Women's and children's knit underwear and nightwear -----	29	5.7	85.4	5.1	9.7	68.9	198.5	192.2	381.5	27.4
2257	Weft knit fabrics mills:										
	All establishments in industry -----	387	41.7	805.6	35.3	72.3	593.6	1 888.1	3 018.5	4 924.1	159.8
	Establishments with this product class primary:										
22571	Weft (circular) knit fabrics greige goods, except hosiery -----	81	8.0	150.7	7.0	14.1	121.4	295.5	854.3	1 149.7	27.3
22573	Finished weft (circular) knit fabrics, except hosiery ---	96	23.8	456.7	19.9	40.4	323.0	1 146.6	1 881.0	3 042.6	102.6
22579	Contract and commission receipts for knitting only or knitting and finishing weft (circular) knit fabrics -----	103	8.7	176.4	7.3	15.7	132.1	412.6	206.3	622.5	26.8
2258	Lace and warp knit fabrics mills:										
	All establishments in industry -----	278	20.0	417.6	16.5	34.2	302.9	998.6	1 312.4	2 309.6	75.8
	Establishments with this product class primary:										
22581	Warp knit fabrics greige goods -----	55	4.0	85.0	3.4	7.0	65.0	171.6	287.5	464.4	11.7
22584	Finished warp knit fabrics -----	65	10.6	223.2	8.6	17.9	158.6	621.7	893.8	1 507.6	52.1
22585	Lace and net goods -----	14	.7	12.9	.6	1.2	9.2	21.6	27.6	49.8	4.1
22589	Contract and commission receipts for knitting only or knitting and finishing of warp knit fabrics, or finishing lace -----	71	4.1	84.2	3.4	7.0	61.6	165.6	71.4	237.6	6.1
2259	Knitting mills, n.e.c.:										
	All establishments in industry -----	84	3.2	60.7	2.7	5.5	44.3	123.0	112.8	235.8	5.8

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 2251, WOMEN'S HOSIERY, EXCEPT SOCKS			
Total value of shipments	1 843.0	1 497.5	1 411.3
Primary products value of shipments	1 787.2	1 455.5	1 296.2
Secondary products value of shipments	29.8	29.4	69.6
Total miscellaneous receipts	26.0	12.6	45.5
Value of resales	14.6	(D)	26.3
Contract receipts	10.9	2.6	19.1
Other miscellaneous receipts .....	.4	(D)	.1
Primary products specialization ratio	98	98	95
Value of primary products shipments made in all industries	1 856.9	1 514.5	1 425.3
Value of primary products shipments made in this industry	1 787.2	1 455.5	1 296.2
Value of primary products shipments made in other industries	69.7	58.9	129.1
Coverage ratio	96	96	91
INDUSTRY 2252, HOSIERY, N.E.C.			
Total value of shipments	2 582.5	1 952.1	1 443.4
Primary products value of shipments	2 428.0	1 859.3	1 258.7
Secondary products value of shipments	67.8	45.5	109.3
Total miscellaneous receipts	86.7	47.3	75.4
Value of resales	77.8	37.2	54.7
Contract receipts	7.0	9.6	19.8
Other miscellaneous receipts	1.9	.5	.9
Primary products specialization ratio	97	98	92
Value of primary products shipments made in all industries	2 462.0	1 902.4	1 324.5
Value of primary products shipments made in this industry	2 428.0	1 859.3	1 258.7
Value of primary products shipments made in other industries	34.0	43.2	65.9
Coverage ratio	99	98	95
INDUSTRY 2253, KNIT OUTERWEAR MILLS			
Total value of shipments	4 182.3	3 264.9	3 182.4
Primary products value of shipments	3 434.7	2 950.3	2 972.6
Secondary products value of shipments	695.8	184.0	162.8
Total miscellaneous receipts	51.8	130.6	47.0
Value of resales	43.2	82.3	34.5
Contract receipts	(D)	6.5	7.7
Other miscellaneous receipts	(D)	41.9	4.9
Primary products specialization ratio	83	94	95
Value of primary products shipments made in all industries	3 517.2	3 293.5	3 154.2
Value of primary products shipments made in this industry	3 434.7	2 950.3	2 972.6
Value of primary products shipments made in other industries	82.6	343.2	181.6
Coverage ratio	98	90	94
INDUSTRY 2254, KNIT UNDERWEAR MILLS			
Total value of shipments	891.1	1 058.1	829.9
Primary products value of shipments	777.9	714.9	714.6
Secondary products value of shipments	102.3	295.3	101.7
Total miscellaneous receipts	10.9	20.9	13.7
Value of resales	(D)	(D)	7.2
Contract receipts	(D)	17.9	5.9
Other miscellaneous receipts	(D)	(D)	.6
Primary products specialization ratio	88	72	88
Value of primary products shipments made in all industries	1 140.1	803.2	767.4
Value of primary products shipments made in this industry	777.9	714.9	714.6
Value of primary products shipments made in other industries	362.3	61.3	52.8
Coverage ratio	68	92	93
INDUSTRY 2257, WEFT KNIT FABRICS MILLS			
Total value of shipments	4 924.1	3 578.5	2 538.8
Primary products value of shipments	4 548.8	3 355.9	2 323.6
Secondary products value of shipments	359.5	207.3	202.8
Total miscellaneous receipts	15.8	15.2	12.4
Value of resales	4.9	4.5	6.6
Contract receipts	5.1	(D)	3.4
Other miscellaneous receipts	5.8	(D)	2.4
Primary products specialization ratio	93	94	92
Value of primary products shipments made in all industries	4 950.3	3 539.2	2 494.9
Value of primary products shipments made in this industry	4 548.8	3 355.9	2 323.6
Value of primary products shipments made in other industries	401.5	183.2	171.3
Coverage ratio	92	95	93

22B-20 KNITTING 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 2258, LACE AND WARP KNIT FABRICS MILLS			
Total value of shipments	2 309.6	1 991.9	1 538.0
Primary products value of shipments	2 190.9	1 933.7	(NA)
Secondary products value of shipments	103.1	53.9	(NA)
Total miscellaneous receipts	15.6	4.3	(NA)
Value of resales	1.1	2.3	(NA)
Contract receipts	7.8	1.4	(NA)
Other miscellaneous receipts	6.7	.6	(NA)
Primary products specialization ratio	96	97	(NA)
Value of primary products shipments made in all industries	2 461.6	2 106.5	(NA)
Value of primary products shipments made in this industry	2 190.9	1 933.7	(NA)
Value of primary products shipments made in other industries	270.8	172.8	(NA)
Coverage ratio	89	92	(NA)
INDUSTRY 2259, KNITTING MILLS, N.E.C.			
Total value of shipments	235.8	187.6	114.5
Primary products value of shipments	211.9	174.8	108.5
Secondary products value of shipments	10.0	2.8	3.3
Total miscellaneous receipts	13.9	10.0	2.7
Value of resales	(D)	9.6	(D)
Contract receipts	-	(D)	-
Other miscellaneous receipts	(D)	(D)	(D)
Primary products specialization ratio	95	98	97
Value of primary products shipments made in all industries	236.4	222.4	133.5
Value of primary products shipments made in this industry	211.9	174.8	108.5
Value of primary products shipments made in other industries	24.6	47.6	25.0
Coverage ratio	90	79	81

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	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)
2251--	WOMEN'S HOSE, EXCEPT SOCKS						
	Total	(NA)	(X)	1 856.9	(NA)	(X)	1 514.5
22514	Women's and misses' finished hosiery, full-length and knee-length	(NA)	(X)	338.7	(NA)	(X)	235.5
22514 17	Knee-length, stretch and nonstretch	28	33.6	144.5	23	32.2	175.4
	Full-length:						
22514 13	Stretch	12	4.1	23.9	(NA)	(D)	(D)
22514 15	Nonstretch	6	(D)	(D)	(NA)	(D)	(D)
22514 19	Support	5	1.5	12.6	(NA)	(D)	(D)
22514 23	All other full-length	6	(D)	(D)	(NA)	(D)	(D)
22514 00	Women's and misses' finished hosiery, full-length and knee-length, n.s.k.	(NA)	(X)	8.1	(NA)	(X)	(D)

See footnotes at end of table.

MANUFACTURES-INDUSTRY SERIES

KNITTING MILLS 22B-21

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)
2251—	WOMEN'S HOSIERY, EXCEPT SOCKS—Con.						
22516	Women's and misses' finished panty hose, including tights	(NA)	(X)	1 394.2	(NA)	(X)	1 132.8
22516 12	Less than 30 denier, sheer stretch	37	63.3	644.9	48	*61.8	543.8
22516 14	30 denier or heavier, opaque stretch	27	30.2	259.3	26	11.8	118.8
22516 16	Elastomer: Control top, no leg support	17	15.6	179.7	20	16.4	185.2
22516 15	Leg support, less than 35 denier	13	9.7	132.3			
22516 17	Leg support, 35 denier or heavier	14	8.7	120.1			
22516 19	Other miscellaneous sheers, including fancies, sewed on legs, waist connected legs, replaceable legs, nonstretch, etc.	8	**4.1	58.0	8	4.7	67.3
22516 00	Women's and misses' finished panty hose, including tights, n.s.k.	(NA)	(X)	—	(NA)	(X)	—
22518	Women's hosiery shipped in the greige	(NA)	(X)	84.6	(NA)	(X)	106.8
22518 14	Full-fashioned and seamless full-length and knee-length (except panty hose and socks)	13	*7.7	21.5	11	18.3	32.2
22518 17	Panty hose	12	9.2	63.1	18	14.2	74.6
22518 00	Women's hosiery shipped in the greige, n.s.k.	(NA)	(X)	—	(NA)	(X)	—
22510	Women's hosiery, except socks, n.s.k.	(NA)	(X)	39.3	(NA)	(X)	39.4
22510 00	Women's hosiery, except socks, n.s.k. ³	(NA)	(X)	6.2	(NA)	(X)	5.1
22510 02	Women's hosiery, except socks, n.s.k. ⁴	(NA)	(X)	33.2	(NA)	(X)	34.3
2252—	HOSIERY, N.E.C.						
	Total	(NA)	(X)	2 462.0	(NA)	(X)	1 902.4
22522	Men's finished seamless hosiery (sizes 10 and up)	(NA)	(X)	1 129.8	(NA)	(X)	844.7
22522 23	Anklets (including slack socks, crew socks, athletic socks, etc.): Natural fibers (cotton and/ or wool, etc.)	97	*62.8	460.8	73	43.0	356.7
22522 25	Manmade fibers	60	*24.7	218.1	52	*22.3	206.6
22522 33	Midcalf (including half hose): Natural fibers (cotton and/ or wool, etc.)	38	59.3	227.0	40	18.2	112.4
22522 35	Manmade fibers	29	*9.0	97.9	27	8.5	65.5
22522 43	Knee (bermuda, campus, etc.): Natural fibers (cotton and/ or wool, etc.)	16	**5.4	45.5	23	*4.9	42.9
22522 45	Manmade fibers	20	7.2	60.5	20	*5.0	39.3
22522 87	All other (including foot socks)	14	(D)	(D)	10	**1.8	15.5
22522 00	Men's finished seamless hosiery (sizes 10 and up), n.s.k.	(NA)	(X)	(D)	(NA)	(X)	5.7
22525	All other finished hosiery	(NA)	(X)	1 002.6	(NA)	(X)	694.3
22525 13	Women's and misses' below the knee sheer hosiery (foot socks, anklets, and midcalf/ crew)	23	11.2	57.1	(NA)	(NA)	(⁵)
22525 15	Women's and misses' finished knee-length socks, all fibers (including bermuda, campus, etc.) (sizes 8-11)	14	*1.8	16.4	(NA)	(NA)	(⁵)
22525 01	Women's, misses', girls', and boys' (sizes 8-11): Anklets, except sheer (including slack socks, crew socks, athletic socks, etc.): Natural fibers (cotton and/ or wool, etc.)	80	73.2	528.0	(NA)	(NA)	(⁵)
22525 03	Manmade fibers	31	*7.1	69.8	(NA)	(NA)	(⁵)
22525 21	Girls' and boys' (excluding anklets): Knee (including bermuda, campus, etc.): Natural fibers (cotton and/ or wool, etc.)	19	**6.5	46.2	23	3.5	23.6
22525 27	Manmade fibers	17	*4.8	35.1	21	*3.8	28.0
22525 31	All others (including foot socks, stockings, and waist-highs)	12	(S)	22.6	13	*4.0	19.8
22525 51	Infants' and children's (sizes 3-8 1/2): Anklets (including slack socks, crew socks, athletic socks, etc.): Natural fibers (cotton and/ or wool, etc.)	32	*27.9	167.9	41	14.0	83.7
22525 57	Manmade fibers	20	4.6	29.6	27	6.5	42.7
22525 61	Knee (including bermuda, campus, etc.)	10	.8	5.9	15	1.5	11.1
22525 81	All other (including foot socks, stockings, and waist-highs)	9	(S)	12.9	14	(S)	13.0

See footnotes at end of table.

22B-22 KNITTING 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	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)
2252—	HOSIERY, N.E.C.—Con.						
22525	All other finished hosiery—Con.	(NA)	(X)	11.1	(NA)	(X)	⁵ 472.4
22525 00	All other finished hosiery, n.s.k. -----	(NA)	(X)	11.1	(NA)	(X)	472.4
22526	Seamless hosiery shipped in the greige -----	(NA)	(X)	226.7	(NA)	(X)	242.7
22526 25	Men's, all types (sizes 10 and up) ----- mil dozen pairs	53	**24.4	101.9	43	**25.2	133.7
22526 42	Women's and misses' (except full-length and knee-length); girls' and boys' ----- mil dozen pairs	47	*18.1	91.1	49	*20.6	85.6
22526 51	Children's and infants' ----- mil dozen pairs	21	(S)	33.8	19	**6.5	23.4
22526 00	Seamless hosiery shipped in the greige, n.s.k. -----	(NA)	(X)	—	(NA)	(X)	—
22520	Hosiery, n.e.c., n.s.k. -----	(NA)	(X)	102.8	(NA)	(X)	120.7
22520 00	Hosiery, n.e.c., n.s.k. ³ -----	(NA)	(X)	41.7	(NA)	(X)	54.0
22520 02	Hosiery, n.e.c., n.s.k. ⁴ -----	(NA)	(X)	61.1	(NA)	(X)	66.7
Product code	Product	1992			1987		
		Number of companies with shipments of \$100,000 or more	Value of product shipments ¹ (million dollars)		Number of companies with shipments of \$100,000 or more	Value of product shipments ¹ (million dollars)	
2253—	KNIT OUTERWEAR MILLS						
	Total -----	(NA)	3	517.2	(NA)	3	293.5
22534	Men's and boys' sweaters -----	(NA)		172.4	(NA)		388.7
22534 00	Men's and boys' sweaters (from yarns or from fabrics knit in the same establishment) ⁶ -----	41		172.4	51		388.7
22535	Women's, misses', and juniors' sweaters -----	(NA)		301.9	(NA)		447.4
22535 00	Women's, misses', and juniors' sweaters (from yarns or from fabrics knit in the same establishment) ⁶ -----	61		301.9	79		447.4
22536	Girls', children's, and infants' sweaters -----	(NA)		25.8	(NA)		59.1
22536 00	Girls', children's, and infants' sweaters (from yarns or from fabrics knit in the same establishment) ⁶ -----	11		25.8	19		59.1
2253A	Men's, and boys' knit shirts -----	(NA)	1	447.1	(NA)		725.9
2253A 00	Men's and boys' knit shirts (from yarns or from fabrics knit in the same establishment) ⁶ -----	40	1	447.1	40		725.9
2253B	Women's, misses', and juniors' knit shirts and blouses -----	(NA)		179.2	(NA)		184.8
2253B 00	Women's, misses', and juniors' knit shirts and blouses (from yarns or from fabrics knit in the same establishment) ⁶ -----	26		179.2	28		184.8
2253C	Girls', children's, and infants' knit shirts and blouses -----	(NA)		64.0	(NA)		51.0
2253C 00	Girls', children's, and infants' knit shirts and blouses (from yarns or from fabrics knit in the same establishment) ⁶ -----	9		64.0	8		51.0
2253D	All other knit outerwear products -----	(NA)		743.1	(NA)		825.3
2253D 01	Women's, misses', and juniors' (from yarns or from fabrics knit in the same establishment) -----	25	(D)		(NA)	(D)	
2253D 05	Men's and boys' (from yarns or from fabrics knit in the same establishment) -----	20		460.4	(NA)	(D)	
2253D 09	Girls', children's, and infants' (from yarns or from fabrics knit in the same establishment) -----	10		150.9	10		153.6
2253D 00	All other knit outerwear products, n.s.k. -----	(NA)	(D)		(NA)		3.0
2253E	Contract and commission receipts for knitting only or knitting and finishing outerwear ⁷ -----	(NA)		413.4	(NA)		318.9
2253E 00	Contract and commission receipts for knitting only or knitting and finishing outerwear -----	189		401.7	228		300.5
2253E 02	Contract and commission receipts for knitting only or knitting and finishing outerwear, n.s.k. -----	31		11.7	56		18.4
22530	Knit outerwear mills, n.s.k. -----	(NA)		170.4	(NA)		292.5
22530 00	Knit outerwear mills, n.s.k. ⁸ -----	(NA)		133.8	(NA)		214.6
22530 02	Knit outerwear mills, n.s.k. ⁹ -----	(NA)		36.6	(NA)		77.9
2254—	KNIT UNDERWEAR MILLS						
	Total -----	(NA)	1	140.1	(NA)	803.2	
22541	Men's and boys' knit underwear and nightwear ¹⁰ -----	(NA)		(D)	(NA)		610.2
22541 11	Underwear -----	23		725.9	23		598.2
22541 13	Nightwear, except robes -----	2		(D)	4		12.0
22541 00	Men's and boys' knit underwear and nightwear, n.s.k. -----	(NA)		—	(NA)		—
22544	Women's and children's knit underwear and nightwear ¹⁰ -----	(NA)		405.2	(NA)		183.6
22544 11	Underwear -----	31		351.4	25		142.4
22544 13	Nightwear, except robes -----	13		53.8	11		41.2
22544 00	Women's and children's knit underwear and nightwear, n.s.k. -----	(NA)		—	(NA)		—
22540	Knit underwear mills, n.s.k. -----	(NA)		(D)	(NA)		9.3
22540 00	Knit underwear mills, n.s.k. ³ -----	(NA)		4.3	(NA)		2.4
22540 02	Knit underwear mills, n.s.k. ⁴ -----	(NA)		(D)	(NA)		6.9

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)
2257—	WEFT KNIT FABRICS MILLS								
	Total	(NA)	(X)	(X)	4 950.3	(NA)	(X)	(X)	3 539.2
22571	Weft (circular) knit fabrics greige goods, except hosiery	(NA)	(X)	(X)	1 278.4	(NA)	(X)	(X)	872.3
22571 10	Narrow fabrics (12 inches wide or less)	6	10.5	*5.4	12.9	15	(NA)	44.2	83.8
22571 20	Broad fabrics (more than 12 inches wide)	99	1 885.4	674.8	1 265.5	55	(NA)	*381.6	775.6
22571 00	Weft (circular) knit fabrics greige goods, except hosiery, n.s.k.	(NA)	(X)	(X)	—	(NA)	(X)	(X)	12.9
22573	Finished weft (circular) knit fabrics, except hosiery	(NA)	(X)	(X)	2 940.6	(NA)	(X)	(X)	2 102.5
	Knit and finished in the same establishment:								
22573 10	Narrow (12 inches wide or less)	10	(X)	(S)	37.2	17	(X)	48.0	106.8
22573 20	Broad (more than 12 inches wide)	78	(X)	649.5	1 863.7	49	(X)	574.8	1 304.9
	Purchased and finished:								
22573 30	Narrow (12 inches wide or less)	8	(X)	(S)	13.5	2	(X)	(D)	(D)
22573 40	Broad (more than 12 inches wide)	29	(X)	428.7	1 026.2	19	(X)	271.0	578.2
22573 00	Finished weft (circular) knit fabrics, except hosiery, n.s.k.	(NA)	(X)	(X)	—	(NA)	(X)	(X)	(D)
22579	Contract and commission receipts for knitting only or knitting and finishing weft (circular) knit fabrics	(NA)	(X)	(X)	622.5	(NA)	(X)	(X)	341.2
22579 13	Finishing fabrics only	33	(X)	(X)	362.4	26	(X)	(X)	156.9
22579 15	Knitting only or knitting and finishing narrow (12 inches wide or less) fabrics	4	(X)	(X)	15.5	3	(X)	(X)	(D)
22579 17	Knitting only or knitting and finishing broad (more than 12 inches wide) fabrics	52	(X)	(X)	223.4	53	(X)	(X)	165.3
22579 00	Contract and commission receipts for knitting only or knitting and finishing weft (circular) knit fabrics, n.s.k.	(NA)	(X)	(X)	17.4	(NA)	(X)	(X)	(D)
22579 02	Contract and commission receipts for knitting only or knitting and finishing weft (circular) knit fabrics, n.s.k.	13	(X)	(X)	3.8	(NA)	(X)	(X)	1.4
22570	Weft knit fabrics mills, n.s.k.	(NA)	(X)	(X)	108.8	(NA)	(X)	(X)	223.2
22570 00	Weft knit fabrics mills, n.s.k. ³	(NA)	(X)	(X)	83.5	(NA)	(X)	(X)	158.9
22570 02	Weft knit fabrics mills, n.s.k. ⁴	(NA)	(X)	(X)	25.4	(NA)	(X)	(X)	64.3
2258—	WARP KNIT FABRICS MILLS AND LACE GOODS								
	Total	(NA)	(X)	(X)	2 461.6	(NA)	(X)	(X)	2 106.5
22581	Warp knit fabrics greige goods	(NA)	(X)	(X)	454.3	(NA)	(X)	(X)	391.5
22581 10	Narrow fabrics (12 inches wide or less)	9	*25.7	14.2	30.4	11	(NA)	27.8	76.3
22581 20	Broad fabrics (more than 12 inches wide)	52	313.2	139.5	423.9	48	(NA)	*116.6	312.1
22581 00	Warp knit fabrics greige goods, n.s.k.	(NA)	(X)	(X)	—	(NA)	(X)	(X)	3.1
22584	Finished warp knit fabrics	(NA)	(X)	(X)	1 651.9	(NA)	(X)	(X)	1 332.5
	Knit and finished in the same establishment:								
22584 10	Narrow (12 inches wide or less)	23	(X)	**443.8	125.3	21	(X)	(S)	141.4
22584 20	Broad (more than 12 inches wide)	38	(X)	316.3	726.8	29	(X)	**432.6	819.2
	Purchased and finished:								
22584 30	Narrow (12 inches wide or less)	7	(X)	(S)	37.7	2	(X)	(S)	(D)
22584 40	Broad (more than 12 inches wide)	21	(X)	260.5	762.0	14	(X)	(S)	340.5
22584 00	Finished warp knit fabrics, n.s.k.	(NA)	(X)	(X)	—	(NA)	(X)	(X)	(D)
22585	Lace and net goods	(NA)	(X)	(X)	55.7	(NA)	(X)	(X)	121.0
22585 00	Lace and net goods, all leavers and Nottingham lace machine products, including bobbinets and barmen laces	16	(X)	(X)	55.7	30	(X)	(X)	121.0
22589	Contract and commission receipts for knitting only or knitting and finishing of warp knit fabrics, or finishing lace	(NA)	(X)	(X)	256.0	(NA)	(X)	(X)	197.5
22589 13	Knitting only or knitting and finishing narrow (12 inches wide or less) fabrics	5	(X)	(X)	2.4	3	(X)	(X)	3.4
22589 17	Knitting only or knitting and finishing broad (more than 12 inches wide) fabrics	33	(X)	(X)	67.8	33	(X)	(X)	60.5
22589 15	Finishing only, warp knit fabrics	24	(X)	(X)	133.6	19	(X)	(X)	98.1
22589 21	Dyeing and finishing lace and net goods, except raschel and burned-out lace	9	(X)	(X)	41.8	11	(X)	(X)	25.5
22589 00	Contract and commission receipts for knitting only or knitting and finishing of warp knit fabrics, n.s.k.	(NA)	(X)	(X)	6.2	(NA)	(X)	(X)	9.3
22589 02	Contract and commission receipts for knitting only or knitting and finishing of warp knit fabrics, n.s.k.	10	(X)	(X)	4.4	(NA)	(X)	(X)	.7
22580	Warp knit fabrics mills and lace goods, n.s.k.	(NA)	(X)	(X)	43.7	(NA)	(X)	(X)	63.9
22580 00	Warp knit fabrics mills and lace goods, n.s.k. ¹¹	(NA)	(X)	(X)	17.8	(NA)	(X)	(X)	33.0
22580 02	Warp knit fabrics mills and lace goods, n.s.k. ¹²	(NA)	(X)	(X)	25.9	(NA)	(X)	(X)	30.9

See footnotes at end of table.

22B-24 KNITTING 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	Value of product shipments ¹ (million dollars)	Number of companies with shipments of \$100,000 or more	Value of product shipments ¹ (million dollars)
2259—	KNITTING MILLS, N.E.C.				
	Total	(NA)	236.4	(NA)	222.4
22590	Knit gloves and other knit products (made in knitting mills)	(NA)	236.4	(NA)	222.4
22590 20	Gloves and mittens including fabric-and-leather combination ⁶	14	108.0	17	86.1
22590 98	Other knit end products, except fabrics (including towels and washcloths)	21	113.6	28	115.8
22590 00	Knitting mills, n.e.c., n.s.k. ¹³	(NA)	5.3	(NA)	15.7
22590 02	Knitting mills, n.e.c., n.s.k. ¹⁴	(NA)	9.5	(NA)	4.8

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).

³Typically for establishments with 10 employees or more.

⁴Typically for establishments with less than 10 employees.

⁵Data for these products were not collected separately in 1987; therefore, they are included in product code 22525 00.

⁶This product code is primary to more than one industry.

⁷Data for this product class represent value of receipts rather than value of shipments.

⁸Typically for establishments with 15 employees or more.

⁹Typically for establishments with less than 15 employees.

¹⁰This product class is primary to more than one industry.

¹¹Typically for establishments with 20 employees or more.

¹²Typically for establishments with less than 20 employees.

¹³Typically for establishments with 5 employees or more.

¹⁴Typically for establishments with less than 5 employees.

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	Value of product shipments ¹ (million dollars)	Number of companies with shipments of \$100,000 or more	Value of product shipments ¹ (million dollars)
	Sweaters	(NA)	794.5	(NA)	1 228.7
	Made in knitting mills	(NA)	500.0	(NA)	895.2
	Made in cut-and-sew shops	(NA)	294.5	(NA)	333.5
	Men's and boys' sweaters	(NA)	248.2	(NA)	442.2
22534 00	Made in knitting mills	41	172.4	51	388.7
23293 60	Made in cut-and-sew shops	24	75.8	25	53.5
	Women's, misses', and juniors' sweaters	(NA)	490.8	(NA)	687.4
22535 00	Made in knitting mills	61	301.9	79	447.4
23397 30	Made in cut-and-sew shops	49	188.9	77	240.0
	Girls', children's, and infants' sweaters	(NA)	55.6	(NA)	99.1
22536 00	Made in knitting mills	11	25.8	19	59.1
23693 70	Made in cut-and-sew shops	14	29.8	18	40.0
	Knit shirts and blouses	(NA)	7 356.9	(NA)	4 452.9
	Made in knitting mills	(NA)	1 690.3	(NA)	961.7
	Made in cut-and-sew shops	(NA)	5 666.6	(NA)	3 491.2
	Men's and boys' knit shirts	(NA)	4 992.9	(NA)	2 588.9
2253A 00	Made in knitting mills	40	1 447.1	40	725.9
23213 00	Made in cut-and-sew shops	227	3 545.7	178	1 863.0
	Women's, misses', and juniors' knit shirts and blouses	(NA)	1 665.1	(NA)	1 255.1
2253B 00	Made in knitting mills	26	179.2	28	184.8
23313 00	Made in cut-and-sew shops	407	1 485.9	281	1 070.3
	Girls', children's, and infants' knit shirts and blouses	(NA)	699.0	(NA)	608.9
2253C 00	Made in knitting mills	9	64.0	8	51.0
23613 00	Made in cut-and-sew shops	108	635.0	106	557.9
	Men's and boys' knit underwear and nightwear	(NA)	(D)	(NA)	1 546.1
22541	Made in knitting mills	(NA)	(D)	(NA)	610.2
	Made in cut-and-sew shops	(NA)	749.7	(NA)	935.9
	Underwear	(NA)	1 351.4	(NA)	1 366.5
22541 11	Made in knitting mills	23	725.9	23	598.2
23221 00	Made in cut-and-sew shops	37	625.5	29	768.3
	Nightwear	(NA)	(D)	(NA)	160.3
22541 13	Made in knitting mills	2	(D)	4	12.0
23222 00	Made in cut-and-sew shops	22	117.7	26	148.3
	Men's and boys' knit underwear and nightwear, n.s.k.	(NA)	6.5	(NA)	19.3
22541 00	Made in knitting mills	(NA)	—	(NA)	—
23220 00	Made in cut-and-sew shops	(NA)	—	(NA)	—
23220 02	Made in cut-and-sew shops	(NA)	6.5	(NA)	19.3

See footnotes at end of table.

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	Value of product shipments ¹ (million dollars)	Number of companies with shipments of \$100,000 or more	Value of product shipments ¹ (million dollars)
22544	Women's and children's knit underwear and nightwear.....	(NA)	2 396.9	(NA)	2 452.5
	Made in knitting mills.....	(NA)	405.2	(NA)	183.6
	Made in cut-and-sew shops.....	(NA)	1 991.7	(NA)	2 268.9
	Underwear.....	(NA)	1 348.4	(NA)	1 161.6
22544 11	Made in knitting mills.....	31	351.4	25	142.4
23412 00	Made in cut-and-sew shops.....	76	997.0	112	1 019.2
	Nightwear.....	(NA)	1 009.5	(NA)	1 221.2
22544 13	Made in knitting mills.....	13	53.8	11	41.2
23413 00	Made in cut-and-sew shops.....	93	955.7	124	1 180.0
	Women's and children's knit underwear and nightwear, n.s.k.....	(NA)	39.0	(NA)	69.7
22544 00	Made in knitting mills.....	(NA)	—	(NA)	—
23410 00	Made in cut-and-sew shops.....	(NA)	29.3	(NA)	7.4
23410 02	Made in cut-and-sew shops.....	(NA)	9.7	(NA)	62.3
	Gloves and mittens.....	(NA)	427.3	(NA)	402.4
22590 20	Made in knitting mills.....	14	108.0	17	86.1
23813 00	Made from purchased knit fabrics.....	34	184.3	30	139.6
23814 00	Made from purchased leather-and-fabric (combinations).....	24	22.2	32	43.0
31510 00	Gloves and mittens, all leather.....	50	112.8	48	133.7

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

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

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
22514, WOMEN'S AND MISSES' FINISHED HOSIERY, FULL-LENGTH AND KNEE-LENGTH			22526, SEAMLESS HOSIERY SHIPPED IN THE GREIGE		
United States.....	338.7	235.5	United States.....	226.7	242.7
North Carolina.....	248.0	161.9	Alabama.....	35.7	24.9
South Carolina.....	39.4	(NA)	North Carolina.....	158.8	185.2
22516, WOMEN'S AND MISSES' FINISHED PANTY HOSE, INCLUDING TIGHTS			22534, MEN'S AND BOYS' SWEATERS		
United States.....	1 394.2	1 132.8	United States.....	172.4	388.7
North Carolina.....	819.2	632.9	New Jersey.....	5.9	20.5
Tennessee.....	54.6	(NA)	New York.....	60.9	39.5
22518, WOMEN'S HOSIERY SHIPPED IN THE GREIGE			North Carolina.....	30.1	87.5
United States.....	84.6	106.8	Pennsylvania.....	16.2	133.6
North Carolina.....	57.8	87.8	22535, WOMEN'S, MISSES', AND JUNIORS' SWEATERS		
22522, MEN'S FINISHED SEAMLESS HOSIERY (SIZES 10 AND UP)			United States.....	301.9	447.4
United States.....	1 129.8	844.7	California.....	27.8	(NA)
Alabama.....	177.7	47.4	New York.....	170.2	212.7
Georgia.....	97.0	80.5	Wisconsin.....	4.0	(NA)
North Carolina.....	584.4	499.5	22536, GIRLS', CHILDREN'S, AND INFANTS' SWEATERS		
Pennsylvania.....	58.8	(NA)	United States.....	25.8	59.1
Tennessee.....	76.4	56.8	New York.....	18.3	20.5
22525, ALL OTHER FINISHED HOSIERY			2253A, MEN'S, AND BOYS' KNIT SHIRTS		
United States.....	1 002.6	694.3	United States.....	1 447.1	725.9
Alabama.....	117.9	61.5	North Carolina.....	434.4	228.7
Georgia.....	45.0	28.3	Pennsylvania.....	44.6	48.9
North Carolina.....	695.8	482.0	2253B, WOMEN'S, MISSES', AND JUNIORS' KNIT SHIRTS AND BLOUSES		
Tennessee.....	90.1	75.8	United States.....	179.2	184.8
			California.....	19.2	(NA)
			New York.....	7.2	(NA)

See footnotes at end of table.

22B-26 KNITTING MILLS

MANUFACTURES—INDUSTRY SERIES

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
2253C, GIRLS', CHILDREN'S, AND INFANTS' KNIT SHIRTS AND BLOUSES			22573, FINISHED WFT (CIRCULAR) KNIT FABRICS, EXCEPT HOSIERY		
United States	64.0	51.0	United States	2 940.6	2 102.5
			Alabama	105.5	(NA)
			California	160.3	(NA)
			Florida	31.1	7.2
			Georgia	108.7	55.3
			New Jersey	11.7	(NA)
			New York	53.6	79.0
			North Carolina	1 632.2	1 138.1
			Pennsylvania	8.8	(NA)
			South Carolina	196.5	145.0
			Tennessee	233.9	166.3
			Virginia	168.0	(NA)
			Wisconsin	28.0	(NA)
2253D, ALL OTHER KNIT OUTERWEAR PRODUCTS			22579, CONTRACT AND COMMISSION RECEIPTS FOR KNITTING ONLY OR KNITTING AND FINISHING WFT (CIRCULAR) KNIT FABRICS		
United States	743.1	825.3	United States	622.5	341.2
California	16.9	(NA)	California	37.3	22.1
New York	7.4	24.5	New Jersey	29.3	16.5
North Carolina	335.8	186.6	New York	34.1	18.3
Pennsylvania	12.3	58.8	North Carolina	360.9	148.9
Wisconsin	20.7	(NA)	Pennsylvania	99.3	49.7
			South Carolina	25.8	29.8
2253E, CONTRACT AND COMMISSION RECEIPTS FOR KNITTING ONLY OR KNITTING AND FINISHING OUTERWEAR			22581, WARP KNIT FABRICS GREIGE GOODS		
United States	413.4	318.9	United States	454.3	391.5
Alabama	40.9	6.9	New Jersey	41.1	55.7
California	44.8	17.0	New York	60.6	34.3
Florida	25.0	6.4	North Carolina	107.3	68.9
New Jersey	27.4	43.9	Pennsylvania	116.7	(NA)
New York	136.5	177.6	22584, FINISHED WARP KNIT FABRICS		
North Carolina	45.2	19.2	United States	1 651.9	1 332.5
Pennsylvania	11.6	17.7	Georgia	48.3	(NA)
Tennessee	40.3	(NA)	Massachusetts	141.5	(NA)
22541, MEN'S AND BOYS' KNIT UNDERWEAR AND NIGHTWEAR			New Jersey	76.4	14.8
United States	728.3	610.2	New York	150.5	126.0
North Carolina	65.4	65.7	North Carolina	644.4	583.8
22544, WOMEN'S AND CHILDREN'S KNIT UNDERWEAR AND NIGHTWEAR			Pennsylvania	121.7	165.3
United States	405.2	183.6	Rhode Island	88.9	86.0
California	6.5	(NA)	22585, LACE AND NET GOODS		
New York	18.0	(NA)	United States	55.7	121.0
North Carolina	173.4	(NA)	New Jersey	9.9	40.9
Pennsylvania	55.6	33.5	Rhode Island	3.6	24.8
22571, WFT (CIRCULAR) KNIT FABRICS GREIGE GOODS, EXCEPT HOSIERY			22589, CONTRACT AND COMMISSION RECEIPTS FOR KNITTING ONLY OR KNITTING AND FINISHING OF WARP KNIT FABRICS, OR FINISHING LACE		
United States	1 278.4	872.3	United States	256.0	197.5
California	51.3	107.8	California	30.4	14.7
Georgia	35.4	(NA)	New Jersey	64.7	27.8
New Jersey	24.7	(NA)	New York	53.3	18.7
New York	27.9	19.7	North Carolina	75.0	66.9
North Carolina	700.0	452.6	Pennsylvania	6.8	30.1
Pennsylvania	22.7	54.8			
Tennessee	10.7	(NA)			

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
2251-	Women's hosiery, except socks -----	1 856.9	1 611.5	1 606.2	1 492.7	1 550.4	1 514.5	1 425.3	819.1
22514	Women's and misses' finished hosiery, full-length and knee-length -----	338.7	110.2	130.9	113.2	180.3	235.5	240.9	723.4
22516	Women's and misses' finished panty hose, including tights -----	1 394.2	1 344.6	1 283.1	1 208.0	1 220.5	1 132.8	943.2	58.4
22518	Women's hosiery shipped in the greige -----	84.6	105.1	124.5	102.8	96.1	106.8	85.6	37.3
22510	Women's hosiery, except socks, n.s.k. -----	39.3	51.6	67.7	68.7	53.3	39.4	43.1	
2252-	Hosiery, n.e.c. -----	2 462.0	2 250.1	2 241.7	2 077.5	2 110.1	1 902.4	1 324.5	893.6
22522	Men's finished seamless hosiery (sizes 10 and up) -----	1 129.8	728.7	724.8	671.2	838.4	844.7	655.0	464.6
22525	All other finished hosiery -----	1 002.6	1 040.3	1 008.4	953.6	899.7	694.3	564.5	367.8
22526	Seamless hosiery shipped in the greige -----	226.7	325.8	353.0	304.5	246.5	242.7	155.6	61.2
22520	Hosiery, n.e.c., n.s.k. -----	102.8	155.3	155.4	148.2	125.5	120.7	61.9	
2253-	Knit outerwear mills -----	3 517.2	3 545.1	3 266.6	3 233.1	3 082.7	3 293.5	3 154.2	2 136.6
22534	Men's and boys' sweaters -----	172.4	187.9	244.6	290.9	318.8	388.7	362.9	(NA)
22535	Women's, misses', and juniors' sweaters -----	301.9	190.8	175.0	240.0	376.6	447.4	310.6	(NA)
22536	Girls', children's, and infants' sweaters -----	25.8	76.1	73.6	73.5	65.3	59.1	50.9	(NA)
2253A	Men's, and boys' knit shirts -----	1 447.1	1 688.5	1 375.8	1 166.3	842.6	725.9	830.7	(NA)
2253B	Women's, misses', and juniors' knit shirts and blouses -----	179.2	202.3	182.7	212.5	237.7	184.8	216.8	(NA)
2253C	Girls', children's, and infants' knit shirts and blouses -----	64.0	49.0	39.6	37.5	35.7	51.0	48.5	(NA)
2253D	All other knit outerwear products -----	743.1	648.0	606.8	605.2	679.2	825.3	751.9	(NA)
2253E	Contract and commission receipts for knitting only or knitting and finishing outerwear -----	413.4	349.6	401.9	347.7	294.6	318.9	209.8	154.2
22530	Knit outerwear mills, n.s.k. -----	170.4	152.9	166.8	259.5	232.3	292.5	262.0	219.1
2254-	Knit underwear mills -----	1 140.1	1 058.0	1 043.5	968.2	844.9	803.2	767.4	579.5
22541	Men's and boys' knit underwear and nightwear -----	(D)	793.8	789.2	779.0	669.8	610.2	574.8	431.0
22544	Women's and children's knit underwear and nightwear -----	405.2	254.2	243.8	178.0	165.8	183.6	187.2	145.4
22540	Knit underwear mills, n.s.k. -----	(D)	10.1	10.3	11.3	9.3	9.3	5.4	3.1
2257-	Weft knit fabrics mills -----	4 950.3	3 844.0	3 569.8	3 986.3	3 309.8	3 539.2	2 494.9	3 111.2
22571	Weft (circular) knit fabrics greige goods, except hosiery -----	1 278.4	889.3	818.5	925.8	930.6	872.3	467.6	343.5
22573	Finished weft (circular) knit fabrics, except hosiery -----	2 940.6	2 480.9	2 284.5	2 601.9	1 777.5	2 102.5	1 567.7	2 321.7
22579	Contract and commission receipts for knitting only or knitting and finishing weft (circular) knit fabrics -----	622.5	399.5	369.1	338.2	365.5	341.2	282.5	286.1
22570	Weft knit fabrics mills, n.s.k. -----	108.8	74.3	97.7	120.4	236.3	223.2	177.1	159.9
2258-	Warp knit fabrics mills and lace goods -----	2 461.6	2 697.8	2 352.7	2 588.6	2 181.8	2 106.5	1 635.5	1 608.2
22581	Warp knit fabrics greige goods -----	454.3	637.6	501.2	511.7	390.8	391.5	445.5	363.3
22584	Finished warp knit fabrics -----	1 651.9	1 576.5	1 421.4	1 660.2	1 370.8	1 332.5	961.8	1 036.3
22585	Lace and net goods -----	55.7	184.9	163.8	163.5	142.4	121.0	66.6	39.8
22589	Contract and commission receipts for knitting only or knitting and finishing of warp knit fabrics, or finishing lace -----	256.0	219.4	204.8	195.0	203.5	197.5	114.5	138.7
22580	Warp knit fabrics mills and lace goods, n.s.k. -----	43.7	79.3	61.5	58.2	74.3	63.9	45.7	30.1
2259-	Knitting mills, n.e.c. -----	236.4	238.2	225.1	235.6	294.3	222.4	133.5	112.9
22590	Knit gloves and other knit products (made in knitting mills) -----	236.4	238.2	225.1	235.6	294.3	222.4	133.5	112.9

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 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 delivered cost (million dollars)	1987 delivered cost (million dollars)
INDUSTRY 2251, WOMEN'S HOSIERY, EXCEPT SOCKS			
Materials, ingredients, containers, and supplies -----		825.9	667.0
225011	Hosiery in the greige, except panty hose -----	23.1	44.5
225021	Panty hose shipped in the greige -----	(D)	65.5
228102	Cotton yarns -----	26.4	10.2
228141	Nylon spun yarns -----	270.4	46.6
228145	Acrylic -----	(D)	15.5
282411	Nylon filament yarns -----	128.9	188.1
282435	Spandex filament yarns -----	61.8	110.5
228011	All other yarns -----	37.1	16.8
190003	Flexible packaging materials -----	41.0	(²)
265001	Paperboard containers, boxes, and corrugated paperboard -----	48.8	(²)
970099	All other materials and components, parts, containers, and supplies -----	114.7	² 154.7
971000	Materials, ingredients, containers, and supplies, n.s.k. ³ -----	12.3	14.6
INDUSTRY 2252, HOSIERY, N.E.C.			
Materials, ingredients, containers, and supplies -----		1 191.7	905.0
225011	Hosiery in the greige, except panty hose -----	355.3	264.3
225021	Panty hose shipped in the greige -----	2.7	(²)
228102	Cotton yarns -----	294.8	179.9
228141	Nylon spun yarns -----	51.0	35.6
228145	Acrylic -----	72.2	80.9
282411	Nylon filament yarns -----	46.0	43.5
282435	Spandex filament yarns -----	11.3	16.0
228011	All other yarns -----	100.5	60.7
190003	Flexible packaging materials -----	55.9	(²)
265001	Paperboard containers, boxes, and corrugated paperboard -----	25.7	(²)
970099	All other materials and components, parts, containers, and supplies -----	144.1	² 192.0
971000	Materials, ingredients, containers, and supplies, n.s.k. ³ -----	32.3	32.1

See footnotes at end of table.

22B-28 KNITTING MILLS

MANUFACTURES—INDUSTRY SERIES

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

[Includes 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 2253, KNIT OUTERWEAR MILLS					
	Materials, ingredients, containers, and supplies -----	(X)	1 635.2	(X)	1 238.8
225078	Knit fabrics ----- mil lb..	(S)	309.1	(S)	13.7
	Fibers:				
282014	Manmade fibers, staple, and tow ----- mil lb..	2.8	8.3	(S)	4.9
013101	Raw cotton ----- 1,000 bales..	(D)	(D)	(S)	3.9
021401	Raw wool ----- mil lb..	(D)	(D)	*1.6	3.5
	Yarn:				
	Cotton:				
228110	Carded ----- mil lb..	**239.9	408.2	*91.0	164.9
228120	Combed ----- mil lb..	(S)	115.0	*84.2	161.4
	Manmade:				
	Spun:				
228130	Rayon and acetate ----- mil lb..	(S)	.8	(S)	20.0
228141	Nylon ----- mil lb..	(D)	(D)	(S)	8.4
228143	Polyester ----- mil lb..	115.7	132.6	**70.7	111.3
	Filament:				
282301	Rayon and acetate ----- mil lb..	1.0	2.1	(S)	11.0
282410	Nylon ----- mil lb..	(D)	(D)	(S)	21.5
282420	Polyester ----- mil lb..	3.3	6.2	(S)	65.1
228145	Acrylic ----- mil lb..	101.1	155.4	**64.0	139.9
228151	Wool ----- mil lb..	3.8	15.5	**10.0	29.2
228011	All other yarns ----- mil lb..	*9.8	18.7	17.8	39.0
970099	All other materials and components, parts, containers, and supplies -----	(X)	324.1	(X)	402.3
971000	Materials, ingredients, containers, and supplies, n.s.k. ³ -----	(X)	120.4	(X)	38.8
INDUSTRY 2254, KNIT UNDERWEAR MILLS					
	Materials, ingredients, containers, and supplies -----	(X)	354.4	(X)	510.4
225078	Knit fabrics ----- mil lb..	(S)	60.0	(S)	8.8
	Fibers:				
282014	Manmade fibers, staple, and tow ----- mil lb..	(D)	(D)	(NA)	(²)
013101	Raw cotton ----- 1,000 bales..	(D)	(D)	(NA)	(²)
021401	Raw wool ----- mil lb..	-	-	(NA)	(²)
	Yarn:				
	Cotton:				
228110	Carded ----- mil lb..	*76.2	100.1	(S)	158.8
228120	Combed ----- mil lb..	29.6	53.6	23.0	46.5
	Manmade:				
	Spun:				
228130	Rayon and acetate ----- mil lb..	-	-	(NA)	(²)
228141	Nylon ----- mil lb..	(D)	(D)	(NA)	(²)
228143	Polyester ----- mil lb..	(S)	11.0	(NA)	(²)
	Filament:				
282301	Rayon and acetate ----- mil lb..	-	-	(NA)	(²)
282410	Nylon ----- mil lb..	2.7	10.1	(NA)	(²)
282420	Polyester ----- mil lb..	3.8	5.1	(NA)	(²)
228145	Acrylic ----- mil lb..	(D)	(D)	2.3	3.7
228151	Wool ----- mil lb..	(D)	(D)	(NA)	(²)
228011	All other yarns ----- mil lb..	*2.3	6.1	(NA)	(²)
970099	All other materials and components, parts, containers, and supplies -----	(X)	80.3	(X)	289.0
971000	Materials, ingredients, containers, and supplies, n.s.k. ³ -----	(X)	.8	(X)	3.6
INDUSTRY 2257, WEFT KNIT FABRICS MILLS					
	Materials, ingredients, containers, and supplies -----	(X)	2 736.6	(X)	1 971.9
225078	Knit fabrics ----- mil lb..	384.9	584.7	*160.7	269.8
	Fibers:				
282014	Manmade fibers, staple, and tow ----- mil lb..	(S)	37.2	74.8	59.6
013101	Raw cotton ----- 1,000 bales..	**144.9	57.0	**97.9	30.7
021401	Raw wool ----- mil lb..	(D)	(D)	(S)	8.9
	Yarn:				
	Cotton:				
228110	Carded ----- mil lb..	265.8	459.4	*70.1	118.9
228120	Combed ----- mil lb..	133.5	226.7	*157.2	287.8
	Manmade:				
	Spun:				
228130	Rayon and acetate ----- mil lb..	(S)	1.2	(D)	(⁴)
228141	Nylon ----- mil lb..	*3.5	7.6	(S)	3.9
228143	Polyester ----- mil lb..	267.4	395.7	155.6	207.8
	Filament:				
282301	Rayon and acetate ----- mil lb..	6.0	10.1	(S)	5.6
282410	Nylon ----- mil lb..	19.9	34.1	7.0	17.1
282420	Polyester ----- mil lb..	*27.1	44.8	*112.5	172.9
228145	Acrylic ----- mil lb..	(D)	(D)	*28.0	41.7
228151	Wool ----- mil lb..	(D)	(D)	(S)	23.5
228011	All other yarns ----- mil lb..	(S)	190.0	*46.9	77.9
970099	All other materials and components, parts, containers, and supplies -----	(X)	515.4	(X)	4552.0
971000	Materials, ingredients, containers, and supplies, n.s.k. ³ -----	(X)	70.4	(X)	93.8

See footnotes at end of table.

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

[Includes 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 2258, LACE AND WARP KNIT FABRICS MILLS					
	Materials, ingredients, containers, and supplies -----	(X)	1 198.3	(X)	1 093.2
225078	Knit fabrics ----- mil lb..	*152.7	297.3	*37.8	87.2
	Fibers:				
282014	Manmade fibers, staple, and tow ----- mil lb..	7.8	22.4	(S)	46.8
013101	Raw cotton ----- 1,000 bales..	(D)	(D)	—	—
021401	Raw wool ----- mil lb..	—	—	(NA)	(²)
	Yarn:				
	Cotton:				
228110	Carded ----- mil lb..	21.4	33.1	(S)	31.6
228120	Combed ----- mil lb..	15.4	26.0	(S)	29.1
	Manmade:				
	Spun:				
228130	Rayon and acetate ----- mil lb..	(D)	(D)	(D)	(²)
228141	Nylon ----- mil lb..	**19.1	55.4	(S)	12.8
228143	Polyester ----- mil lb..	31.8	60.2	(S)	50.4
	Filament:				
282301	Rayon and acetate ----- mil lb..	*3.2	6.7	*30.1	47.7
282410	Nylon ----- mil lb..	45.5	118.3	*81.6	161.9
282420	Polyester ----- mil lb..	*66.6	116.6	*108.1	189.1
228145	Acrylic ----- mil lb..	7.8	15.9	8.9	14.8
228151	Wool ----- mil lb..	—	—	—	—
228011	All other yarns ----- mil lb..	26.1	71.3	*17.7	44.8
970099	All other materials and components, parts, containers, and supplies -----	(X)	341.7	(X)	² 352.3
971000	Materials, ingredients, containers, and supplies, n.s.k. ³ -----	(X)	20.7	(X)	24.7
INDUSTRY 2259, KNITTING MILLS, N.E.C.					
	Materials, ingredients, containers, and supplies -----	(X)	97.0	(X)	79.3
225078	Knit fabrics ----- mil lb..	(D)	(D)	(D)	(²)
	Fibers:				
282014	Manmade fibers, staple, and tow ----- mil lb..	—	—	(NA)	(²)
013101	Raw cotton ----- 1,000 bales..	(D)	(D)	(NA)	(²)
021401	Raw wool ----- mil lb..	(D)	(D)	(NA)	(²)
	Yarn:				
	Cotton:				
228110	Carded ----- mil lb..	(S)	23.9	(S)	25.3
228120	Combed ----- mil lb..	(D)	(D)	(S)	4.9
	Manmade:				
	Spun:				
228130	Rayon and acetate ----- mil lb..	(D)	(D)	(NA)	(²)
228141	Nylon ----- mil lb..	(D)	(D)	(NA)	(²)
228143	Polyester ----- mil lb..	**4.4	7.8	(NA)	(²)
	Filament:				
282301	Rayon and acetate ----- mil lb..	—	—	(NA)	(²)
282410	Nylon ----- mil lb..	(D)	(D)	(NA)	(²)
282420	Polyester ----- mil lb..	(S)	4.6	(NA)	(²)
228145	Acrylic ----- mil lb..	(D)	(D)	(NA)	(²)
228151	Wool ----- mil lb..	(D)	(D)	(NA)	(²)
228011	All other yarns ----- mil lb..	(D)	(D)	(NA)	(²)
970099	All other materials and components, parts, containers, and supplies -----	(X)	35.3	(X)	246.4
971000	Materials, ingredients, containers, and supplies, n.s.k. ³ -----	(X)	5.0	(X)	2.4

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).

²This material was not collected separately in 1987, therefore, it is included in material code 970099.

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

⁴For 1987, data for material code 228130 were included with material code 970099 to avoid disclosing data of individual companies.

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 05	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 09	2253D 62	22629 25	22629 00
2211H 03	2211H 44					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 40	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	22982 15	22982 14
2221M 27	2221M 03	22514 39	22514 23	22619 00	22619 23	22982 15	22982 19
2221M 33	2221M 03	22514 45	22514 13				
2221M 41	2221M 03	22514 45	22514 15	22628 00	22628 01		
2221M 42	2221M 03	22514 45	22514 19	22628 00	22628 03	22991 12	22991 11
2221M 43	2221M 03	22514 45	22514 23	22628 00	22628 05	22991 13	22991 11
2221M 47	2221M 03			22628 00	22628 07	22991 15	22991 11
2221M 71	2221M 01	22516 18	22516 15	22628 00	22628 11	22991 17	22991 11
2221M 77	2221M 01	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 27	22994 39	22994 11
22314 00	22316 00	22525 15	22525 03	22628 00	22628 29		

Part 3. Current Industrial Reports by Product Code

[Not applicable for this report]

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.