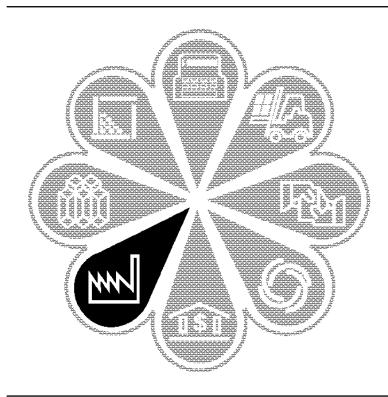
1992 Census of Manufactures

MC92-I-22E

INDUSTRY SERIES

Miscellaneous Textile Goods

Industries 2295, 2296, 2297, 2298, and 2299



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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) Manual¹ 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 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 powerdriven 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

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

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 industryby-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 fourdigit 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 materialsconsumed inquiry, which varied from form to form depending on the industries being canvassed. The respondents were asked to review a list of materials generally used in their production processes. From this list, each establishment was requested to identify those materials consumed during the survey year, the cost of each, and, in certain cases, the quantity consumed. Once again, space was provided for the respondent to describe significant 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 ESTABLISH-MENTS

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 threedigit 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 administrativerecords 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, 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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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]

			Four-dig	it industry :	statistics				ve-digit prov ven-digit pro		
ltem	His- torical	Oper- ating ratios	By geo- graphic area	Sum- mary and supple- mental	By employ- ment size	By industry and product class special- ization	Materials con- sumed by kind	Industry- product analysis	Product ship- ments	Product class by geo- graphic area	Historical product class
Number of companies	1a			3a					*6a		
Number of establishments	1a		2	3a	4	5a					
Employment and payroll: Number of employees Payroll Supplemental labor costs Production workers Production-worker hours Production-worker wages	1a 1a 1a 1a 1a	1b 1b 1b 1b 1b	2 2 2 2 2	3a 3a 3a 3a 3a	4 4 4 4	5a 5a 5a 5a					
Shipments, cost of materials, and value added: Value of shipments (four-digit) Product class shipments (five-digit) Product shipments (seven-digit) Value added by manufacture Cost of materials	1a 1a 1a	1b 1b 1b	2 2 2	3a 3a 3a	4	5a 5a 5a		5b	6a 6a	6b	6c
Fuels and electric energy Materials consumed by kind . Inventories: Total, end of year By stage of fabrication	1a			3a 3a 3a	4		7				
Capital expenditures, assets, rental payments, and purchased services: New capital expenditures Used plant and equipment expenditures Gross assets Depreciation Retirements of buildings and machinery Foreign content of materials consumed	1a		2	3b 3b 3b 3b 3b 3b 3b	4	5a					
Purchased services Ratios: Specialization Coverage	1a 1a			Зс				5b 5b			

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

Contents Miscellaneous Textile Goods

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Introduction to the Economic Census	
Users' Guide for Locating Statistics in This Report by Table Number Description of Industries and Summary of Findings	Х

TABLES

Industry Statistics

1a.	Historical Statistics for the Industry: 1992 and Earlier Years	7
1b.	Selected Operating Ratios for the Industry: 1992 and Earlier Years	8
2.	Industry Statistics for Selected States: 1992 and 1987	9
3a.	Summary Statistics for the Industry: 1992	11
3b.	Gross Book Value of Depreciable Assets, Capital Expenditures, Retirements, Depreciation, and Rental Payments: 1992	12
3c.	Supplemental Industry Statistics Based on Sample Estimates: 1992	12
4.	Industry Statistics by Employment Size of Establishment: 1992	13
5a.	Industry Statistics by Industry and Primary Product Class Specialization: 1992	14
Prod	uct Statistics	
5b.	Industry–Product Analysis–Value of Industry and Primary Product Shipments; Specialization and Coverage Ratios: 1992 and Earlier Census Years	15
6a.	Product and Product Classes—Quantity and Value of Shipments by All Producers: 1992 and 1987	16
6b.	Product Classes—Value of Shipments by All Producers for Specified States: 1992 and 1987	18
6c.	Historical Statistics for Product Classes—Value Shipped by All Producers: 1992 and Earlier Years	19

Material Statistics

7. Materials Consumed by Kind: 1992 and 1987	1	19
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APPENDIXES

Α.	Explanation of Terms	A–1
В.	Annual Survey of Manufactures Sampling and Estimating Methodologies	B–1
С.	Product Code Reference Tables	C–1
Public	ation Program Inside back	cover

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

- 2295 Coated Fabrics, Not Rubberized
- 2296 Tire Cord and Fabrics
- 2297 Nonwoven Fabrics
- 2298 Cordage and Twine
- 2299 Textile Goods, 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.

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 2295, COATED FABRICS, NOT RUBBERIZED

This industry is made up of establishments primarily engaged in manufacturing coated, impregnated, or laminated textiles and in the special finishing of textiles, such as varnishing and waxing. Establishments primarily engaged in rubberizing purchased fabrics are classified in industry 3069. Establishments primarily engaged in dyeing and finishing textiles are classified in industry 2231.

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 2295, Coated Fabrics, Not Rubberized, had employment of 9.2 thousand. The employment figure was 11 percent below the 10.3 thousand reported in 1987.

The leading States in employment in 1992 were Massachusetts and Ohio, accounting for approximately 25 percent of the industry's employment.

The total value of shipments for establishments classified in this industry was \$1.5 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 2295 shipped \$1.3 billion of products considered primary to the industry, \$195.3 million of secondary products, and had \$53.4 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 87 percent (specialization ratio). In 1987, the specialization ratio also was 87 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 91 percent.

The products primary to industry 2295, no matter in what industry they were produced, appear in table 6a and aggregate to \$1.4 billion. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and energy used by establishments classified in the coated fabrics, not rubberized industry amounted to \$912.0 million. Data on specific materials consumed appear in table 7.

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

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 9 percent of the total value of shipments.

INDUSTRY 2296, TIRE CORD AND FABRICS

This industry is made up of establishments primarily engaged in manufacturing cord and fabrics for use in reinforcing rubber tires, industrial belting, fuel cells, and similar uses.

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 2296, Tire Cord and Fabrics, had employment of 5.1 thousand. The employment figure was unchanged from the 5.1 thousand reported in 1987. Compared with 1991, employment increased 4 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 Alabama and Georgia. These same States were the leaders in 1987.

The total value of shipments for establishments classified in this industry was \$981.0 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 2296 shipped \$927.7 million of products considered primary to the industry, \$52.0 million of secondary products, and had \$1.3 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).

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).

The products primary to industry 2296, no matter in what industry they were produced, appear in table 6a and aggregate to \$928.0 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 tire cord and fabrics industry amounted to \$584.6 million. Data on specific materials consumed appear in table 7.

No establishments in this industry were excluded from the mail portion of the census.

INDUSTRY 2297, NONWOVEN FABRICS

This industry is made up of establishments primarily engaged in manufacturing nonwoven fabrics (by bonding and/ or interlocking of fibers) by mechanical, thermal, or solvent means or by combination thereof. Establishments primarily engaged in producing woven felts are classified in industry 2231. Establishments primarily engaged in producing other felts are classified in industry 2299.

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 2297, Nonwoven Fabrics, had employment of 16.8 thousand. The employment figure was 22 percent above the 13.8 thousand reported in 1987.

The leading States in employment in 1992 were North Carolina and Tennessee. This represents a shift from 1987 when North Carolina, Pennsylvania, and South Carolina were the leading States.

The total value of shipments for establishments classified in this industry was \$2.9 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 2297 shipped \$2.5 billion of products considered primary to the industry, \$173.3 million of secondary products, and had \$160.0 million of miscellaneous receipts, resales, and contract work. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in this industry was 94 percent (specialization ratio).

Establishments in this industry also accounted for 77 percent of products considered primary to the industry no matter where they were actually produced (coverage ratio). In 1987, the coverage ratio was 72 percent.

The products primary to industry 2297, no matter in what industry they were produced, appear in table 6a and aggregate to \$3.3 billion. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and energy used by establishments classified in the nonwoven fabrics industry amounted to \$1.6 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 6 percent of the total value of shipments.

INDUSTRY 2298, CORDAGE AND TWINE

This industry is made up of establishments primarily engaged in manufacturing rope, cable, cordage, twine, and related products from abaca (manila), sisal, henequen, hemp, cotton, jute, flax, manmade fibers including glass, and other fibers.

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 2298, Cordage and Twine, had employment of 6.7 thousand. The employment figure was 3 percent below the 6.9 thousand reported in 1987. Compared with 1991, employment increased 1 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 Alabama and North Carolina. This represents a shift from 1987 when Alabama, Georgia, and North Carolina were the leading States.

The total value of shipments for establishments classified in this industry was \$672.7 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 2298 shipped \$580.5 million of products considered primary to the industry, \$32.6 million of secondary products, and had \$59.5 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 94 percent.

Establishments in this industry also accounted for 93 percent of products considered primary to the industry no matter where they were actually produced (coverage ratio). In 1987, the coverage ratio was 97 percent.

The products primary to industry 2298, no matter in what industry they were produced, appear in table 6a and aggregate to \$624.9 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 cordage and twine industry amounted to \$324.8 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 23 percent of the total value of shipments.

INDUSTRY 2299, TEXTILE GOODS, N.E.C.

This industry is made up of establishments primarily engaged in manufacturing textile goods, not elsewhere classified, including linen goods, jute goods, felt goods, padding and upholstery filling, processed waste, and recovered fibers and flock. Establishments primarily engaged in processing textile fibers to prepare them for spinning, such as wool scouring and carbonizing, and converting tow to top are also classified in industry 2299. Establishments primarily engaged in manufacturing woven felts and wool haircloth are classified in industry 2231, and those manufacturing needle punch carpeting are classified in industry 2273. Establishments primarily engaged in manufacturing embroideries are classified in industry group 239. Establishments primarily engaged in sorting wiping rags or waste are classified in wholesale trade, industry 5093.

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

In the 1992 Census of Manufactures, Industry 2299, Textile Goods, N.E.C., had employment of 16.7 thousand. The employment figure was 2 percent above the 16.4 thousand reported in 1987. Compared with 1991, employment increased 22 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 New York, North Carolina, and South Carolina, accounting for approximately 38 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 \$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 2299 shipped \$1.6 billion of products considered primary to the industry, \$79.8 million of secondary products, and had \$142.7 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 95 percent (specialization ratio). In 1987, the specialization ratio also was 95 percent.

Establishments in this industry also accounted for 85 percent of products considered primary to the industry no matter where they were actually produced (coverage ratio). In 1987, the coverage ratio was 88 percent.

The products primary to industry 2299, no matter in what industry they were produced, appear in table 6a and aggregate to \$1.8 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 textile goods, n.e.c., industry amounted to \$875.5 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 18 percent of the total value of shipments.

Table 1a. Historical Statistics for the Industry: 1992 and Earlier Years Evolution data for auxiliarian. For meaning of obbraviations and symbols, son introductory taxt. For evolutional forms, son appendived

[Excludes data for	auxiliaries.	For mean	ing of abbre	eviations and	d symbols, s	ee introduc	tory text. F	or explanatio	n of terms, see	appendixes]					
		All establi	shments ³	All emp	loyees	Pro	duction wor	kers				New		Rat	ios
Year ¹	Com- panies² (no.)	Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufac- ture ⁴ (million dollars)	Cost of materials ⁵ (million dollars)	Value of shipments (million dollars)	New capital expend- itures ⁶ (million dollars)	End-of- year inven- tories ⁴ (million dollars)	Spe- ciali- zation ⁷ (per- cent)	Cover- age ⁸ (per- cent)
					II	NDUSTRY	′ 2295, CC	DATED FA	BRICS, NOT	RUBBERIZE	D				
1992 Census 1991 ASM 1990 ASM 1989 ASM 1988 ASM 1987 Census 1986 ASM	186 (NA) (NA) (NA) (NA) 180 (NA)	193 (NA) (NA) (NA) (NA) 185 (NA)	90 (NA) (NA) (NA) (NA) 91 (NA)	9.2 8.0 8.9 9.4 10.3 10.3 9.7	274.1 234.3 244.1 253.9 251.1 251.9 218.1	6.6 5.5 6.4 6.6 7.4 7.4 7.2	13.8 11.6 12.8 13.4 15.7 15.7 14.9	165.6 141.6 145.5 156.2 160.8 161.4 139.4	613.7 528.5 578.6 639.3 583.6 567.1 457.9	912.0 758.5 777.4 892.4 927.7 874.1 713.9	1 528.1 1 298.4 1 361.8 1 542.7 1 509.4 1 433.7 1 172.0	47.1 54.5 52.9 59.8 38.7 63.4 37.4	216.1 191.7 204.1 216.5 233.9 224.9 172.2	87 (NA) (NA) (NA) (NA) 87 (NA)	89 (NA) (NA) (NA) (NA) 91 (NA)
1985 ASM 1984 ASM 1983 ASM 1982 Census 1981 ASM 1980 ASM 1979 ASM 1977 Census	(NA) (NA) (NA) (NA) (NA) (NA) (NA) (NA)	(NA) (NA) (NA) (NA) (NA) (NA) (NA) (NA)	(NA) (NA) (NA) (NA) (NA) (NA) (NA) (NA)	10.4 11.7 10.7 11.0 11.4 11.8 12.9 12.3 13.6	221.2 235.9 205.8 198.5 186.2 171.5 177.7 169.8 182.3	7.7 8.6 7.7 8.0 8.1 8.3 9.2 9.0 9.9	15.7 17.5 15.3 15.7 15.9 15.8 17.5 18.3 20.9	141.7 148.2 126.7 120.8 116.8 102.5 106.5 106.8 117.1	464.8 514.3 435.6 435.2 376.7 294.5 336.3 374.9 413.1	762.4 826.7 685.9 676.2 670.2 655.1 665.1 650.5	1 228.2 1 336.9 1 129.8 1 115.0 1 044.7 951.7 998.3 949.1 1 059.0	33.9 25.0 25.9 28.4 19.5 15.3 27.9 58.5 26.0	178.9 201.4 182.0 177.3 158.8 154.8 186.8 167.1 190.0	(NA) (NA) (NA) (NA) (NA) (NA) (NA) (NA)	(NA) (NA) (NA) (NA) (NA) (NA) (NA) (NA)
	175	191	109	13.0	102.3				ORD AND F		1 039.0	20.0	190.0	07	
1992 Census	13	16	15	5.1	112.6	4.4	8.7	86.0	402.6	584.6	981.0	37.2	85.3	95	99
1991 ASM 1990 ASM 1989 ASM 1988 ASM 1987 Census	(NA) (NA) (NA) (NA) 9	(NA) (NA) (NA) (NA) 13	(NA) (NA) (NA) (NA) 12	4.9 5.1 5.2 5.1 5.1	98.9 99.3 101.0 96.6 99.8	4.2 4.4 4.6 4.5 4.4	7.9 8.3 8.9 8.8 9.1	75.7 76.1 78.6 75.7 79.8	332.2 334.3 347.9 337.4 396.5	647.2 654.8 702.9 608.7 612.9	982.0 981.6 1 045.9 943.3 1 005.0	9.8 10.7 32.3 4.5 5.5	81.1 88.0 83.4 73.3 73.0	(NA) (NA) (NA) (NA) (D)	(NA) (NA) (NA) (NA) (D) (NA)
1986 ASM 1985 ASM 1984 ASM 1983 ASM 1983 ASM 1982 Census 1981 ASM	(NA) (NA) (NA) (NA) 12 (NA)	(NA) (NA) (NA) (NA) 21 (NA)	(NA) (NA) (NA) (NA) 19 (NA)	5.2 5.7 6.0 6.4 6.5 8.6	95.1 95.4 101.4 100.5 90.5 110.9	4.5 4.9 5.2 5.5 5.6 7.4	8.6 9.0 10.2 10.1 9.6 14.0	73.8 73.5 81.0 78.6 69.7 88.0	351.6 342.6 371.6 316.9 289.9 216.9	653.2 718.3 801.5 737.7 687.9 834.6	1 007.8 1 064.4 1 192.1 1 063.7 981.5 1 060.1	5.3 5.9 14.8 9.1 6.2 4.8	75.3 81.1 97.1 118.2 123.8 121.8	(NA) (NA) (NA) (NA) 90 (NA)	(NA) (NA) (NA) 99 (NA)
1980 ASM 1979 ASM 1978 ASM 1977 Census	(NA) (NA) (NA) 9.7 114.5 8.4 16.5 92.9 256.2 873.1 1 129.2 11.5 122.5 (NA) (NA) (NA) (NA) 9.6 103.6 8.3 16.3 83.1 245.0 839.7 1 090.1 10.7 128.4 (NA) (NA) 8 20 20 9.6 94.7 8.5 16.2 78.1 242.1 779.7 1 013.2 7.0 128.4 (NA) (NA) (NA) INDUSTRY 2297, NONWOVEN FABRICS													(NA) (NA) (NA) 99	
1992 Census	144	168	110	16.8	475.6	12.6	26.0	302.8	1 217.5	1 619.7	2 851.9	166.2	398.4	94	77
1991 ASM 1990 ASM 1989 ASM 1988 ASM 1988 ASM	(NA) (NA) (NA) (NA) 111	(NA) (NA) (NA) (NA) 130	(NA) (NA) (NA) (NA) 93	16.2 16.9 16.1 15.9 13.8	413.5 416.1 408.8 382.1 330.6	12.1 12.9 12.2 11.7 10.3	25.2 26.5 25.8 24.7 21.2	254.8 262.9 260.1 237.1 203.8	1 260.0 1 306.9 1 232.1 1 149.9 901.0	1 526.5 1 563.9 1 556.2 1 397.2 1 097.5	2 767.5 2 851.0 2 756.5 2 542.8 1 966.1	124.5 113.0 178.6 122.2 94.8	364.8 382.4 352.8 305.2 263.0	(NA) (NA) (NA) (NA) (D)	(NA) (NA) (NA) (NA) 72 (NA)
1986 ASM 1985 ASM 1984 ASM 1983 ASM 1982 Census 1981 ASM	(NA) (NA) (NA) (NA) 114	(NA) (NA) (NA) (NA) 132 (NA)	(NA) (NA) (NA) (NA) 91	13.1 12.5 13.4 12.3 12.3 11.9	260.8 237.5 236.8 211.1 198.8 187.4	10.2 9.8 10.4 9.4 9.5 9.0	20.9 19.4 21.0 19.5 18.7	173.3 162.1 166.6 147.5 136.2	702.3 640.7 668.5 591.2 544.4 585.2	785.4 780.4 824.0 748.3 743.4 740.7	1 478.6 1 426.7 1 489.8 1 338.8 1 278.7 1 311.8	84.4 106.7 148.2 111.4 78.7 87.5	189.9 173.8 191.3 166.9 167.0 166.7	(NA) (NA) (NA) (NA) 90 (NA)	(NA) (NA) (NA) (NA) 68 (NA)
1980 ASM 1980 ASM 1979 ASM 1978 ASM 1977 Census	(NA) (NA) (NA) (NA) 81	(NA) (NA) (NA) (NA) 100	(NA) (NA) (NA) (NA) 74	12.1 12.9 14.0 13.0	170.0 162.5 168.1 139.8	9.3 10.1 11.5 10.4	18.5 19.1 20.8 23.7 21.1	132.7 118.1 116.8 121.7 100.2	505.4 486.4 490.5 386.0	640.6 608.2 585.1 489.8	1 138.1 1 082.1 1 063.5 864.4	49.4 57.0 58.2 41.1	151.3 151.1 139.6 121.5	(NA) (NA) (NA) (NA) 86	(NA) (NA) (NA) (NA) 66
						IN	DUSTRY 2	298, COR	DAGE AND 1	TWINE					
1992 Census 1991 ASM 1990 ASM 1989 ASM 1988 ASM 1986 ASM 1983 ASM	191 (NA) (NA) (NA) (NA) 181 (NA) (NA) (NA) (NA)	210 (NA) (NA) (NA) (NA) (NA) (NA) (NA) (NA)	78 (NA) (NA) (NA) (NA) (NA) (NA) (NA) (NA)	6.7 6.8 7.0 7.2 6.9 6.9 6.0 6.3 6.6 7.2	138.7 128.0 129.7 124.9 117.4 112.3 93.8 92.9 87.1 93.6	5.2 5.3 5.6 5.4 5.5 4.7 5.0 5.2 5.7	10.8 11.4 11.3 10.7 10.6 10.8 9.2 9.5 9.6 10.6	85.7 82.0 82.5 79.0 78.0 75.6 62.4 61.7 59.4 62.9	350.1 248.1 248.8 258.7 281.8 263.8 226.2 211.9 209.8 200.4	324.8 355.0 387.7 390.9 280.4 261.1 182.5 182.2 201.9 206.5	672.7 588.5 636.9 646.3 560.3 541.1 413.0 394.5 408.8 412.9	21.5 16.6 23.2 13.8 11.0 12.0 9.5 23.7 19.0 15.8	129.2 126.6 109.1 107.7 97.7 94.1 83.5 93.1 94.2 92.7	95 (NA) (NA) (NA) (NA) (NA) (NA) (NA) (NA)	93 (NA) (NA) (NA) (NA) (NA) (NA) (NA) (NA)
1982 Census 1981 ASM 1980 ASM 1979 ASM 1978 ASM 1977 Census	164 (NA) (NA) (NA) (NA) 151	181 (NA) (NA) (NA) (NA) 171	69 (NA) (NA) (NA) (NA) 84	6.6 6.6 7.2 9.3 10.5 9.5	77.0 69.1 72.8 85.0 86.7 79.5	5.2 5.3 5.7 7.4 8.9 7.9	9.4 9.8 10.6 13.7 15.3 14.2	51.7 48.7 49.7 58.1 58.6 53.7	181.5 183.4 171.3 201.3 176.7 173.8	178.7 183.9 175.9 192.6 184.7 162.9	358.7 359.4 341.7 387.1 358.2 332.2	17.0 14.2 12.6 8.8 13.2 6.5	89.6 78.4 81.7 87.6 82.5 79.4	92 (NA) (NA) (NA) (NA) 90	91 (NA) (NA) (NA) (NA) 95
						INE	OUSTRY 2	299, TEXT	ILE GOODS,	N.E.C.					
1992 Census 1991 ASM 1990 ASM 1989 ASM 1988 ASM	537 (NA) (NA) (NA) (NA)	573 (NA) (NA) (NA) (NA)	188 (NA) (NA) (NA) (NA)	16.7 13.7 14.4 16.0 14.8	400.4 301.0 302.8 330.6 295.0	12.6 10.6 11.3 12.8 11.5	27.1 22.8 23.9 26.6 22.4	247.1 197.5 199.7 221.7 191.4	947.2 708.2 823.4 804.9 676.8	875.5 777.4 847.3 831.5 739.6	1 795.7 1 523.2 1 646.5 1 608.0 1 410.9 1 452.4	83.3 74.1 77.1 44.1 68.2	279.9 236.3 293.8 283.0 226.4	95 (NA) (NA) (NA) (NA)	85 (NA) (NA) (NA) (NA)
1987 Census 1986 ASM 1985 ASM 1984 ASM 1983 ASM 1982 Census	519 (NA) (NA) (NA) (NA) 506	551 (NA) (NA) (NA) (NA) 523	173 (NA) (NA) (NA) (NA) 179	16.4 17.0 17.0 17.5 16.3 17.3	314.5 285.2 273.6 272.5 248.9 242.8	13.0 14.0 14.2 14.5 13.3 14.0	26.4 28.0 28.4 29.1 27.2 27.8	210.0 205.6 193.6 196.0 170.0 166.1	718.6 708.7 632.0 660.9 524.4 507.0	742.3 636.3 660.2 693.5 679.3 617.8	1 452.4 1 333.1 1 296.1 1 352.5 1 186.8 1 129.2	85.1 57.3 33.0 33.9 26.0 47.0	225.3 214.9 201.6 209.4 201.2 183.9	95 (NA) (NA) (NA) (NA) (NA)	88 (NA) (NA) (NA) (NA) (NA)
1982 Census 1981 ASM 1980 ASM 1979 ASM	(NA) (NA) (NA)	(NA) (NA) (NA)	(NA) (NA) (NA)	17.3 18.8 18.7 20.6	242.8 251.5 234.4 233.4	14.0 15.5 15.4 17.0	32.1 32.2 36.1	172.9 161.3 163.0	550.3 500.7 492.2	697.8 632.5 636.9	1 129.2 1 232.9 1 128.4 1 126.0	47.0 46.1 25.2 32.6	183.9 180.0 157.5 148.8	(NA) (NA) (NA) (NA)	(NA) (NA) (NA) (NA)

See footnotes at end of table.

MANUFACTURES-INDUSTRY SERIES

MISCELLANEOUS TEXTILE GOODS 22E-7

TIPS [UPF] BATCH_450 [EISS,BA_TAYLOR] MCD-SRB 4/27/95 11:36 AM MACHINE: EPCV24 DATA:NONE TAPE: NOreel FRAME: 1 TSF:22E_92.DAT;3 4/27/95 11:34:54 UTF:22E_93.DAT;3 4/27/95 11:34:54 META:TIPS96-11344819.DAT;1 4/27/95 11:35:58

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

-			-				•	•							
		All establi	ishments ³	All em	ployees	Pro	duction wor	kers						Rat	tios
Year ¹	Com- panies ² (no.)	Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufac- ture ⁴ (million dollars)	Cost of materials ⁵ (million dollars)	Value of shipments (million dollars)	New capital expend- itures ⁶ (million dollars)	End-of- year inven- tories ⁴ (million dollars)	Spe- ciali- zation ⁷ (per- cent)	Cover- age ⁸ (per- cent)
						INDUS	TRY 2299	, TEXTILE	GOODS, N.	E.C.—Con.					
1978 ASM 1977 Census	(NA) 677	(NA) 701	(NA) 212	21.7 19.9	222.3 191.4	17.9 16.2	35.9 33.2	156.3 134.4	460.1 398.4	574.4 466.4	1 034.1 859.0	38.4 30.3	136.5 111.2	(NA) (NA)	(NA) (NA)
4.															

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

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.

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 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]

	ico. i oi meaning e		aymbolo, acc intre		Aplanation of term				
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)
			IND	USTRY 2295, CC	DATED FABRIC	S, NOT RUBBER	RIZED		
1992 Census 1991 ASM 1990 ASM 1989 ASM 1988 ASM	29 793 29 288 27 427 27 011 24 379	72 69 72 70 72	2 091 2 109 2 000 2 030 2 122	12.00 12.21 11.37 11.66 10.24	60 58 57 58 61	78 76 75 74 78	66 707 66 063 65 011 68 011 56 660	45 44 42 40 43	44.47 45.56 45.20 47.71 37.17
1987 Census 1986 ASM 1985 ASM 1984 ASM 1983 ASM	24 456 22 485 21 269 20 162 19 234	72 74 74 74 74 72	2 122 2 069 2 039 2 035 1 987	10.28 9.36 9.03 8.47 8.28	61 61 62 62 61	79 80 80 79 79	55 058 47 206 44 692 43 957 40 710	44 48 48 46 47	36.12 30.73 29.61 29.39 28.47
1982 Census 1981 ASM 1980 ASM 1979 ASM 1978 ASM 1977 Census	18 045 16 333 14 534 13 775 13 805 13 404	73 71 70 71 73 73	1 963 1 963 1 904 1 902 2 033 2 111	7.69 7.35 6.49 6.09 5.84 5.60	61 64 69 66 60 61	78 82 87 84 78 79	39 564 33 044 24 958 26 070 30 480 30 375	46 49 58 53 45 44	27.72 23.69 18.64 19.22 20.49 19.77
		I		INDUSTRY 22	96, TIRE CORD	AND FABRICS	I	I	
1992 Census 1991 ASM 1990 ASM 1988 ASM 1988 ASM	22 078 20 184 19 471 19 423 18 941	86 86 86 88 88 88	1 977 1 881 1 886 1 935 1 956	9.89 9.58 9.17 8.83 8.60	60 66 67 67 65	71 76 77 77 75	78 941 67 796 65 549 66 904 66 157	28 30 30 29 29	46.28 42.05 40.28 39.09 38.34
1987 Census 1986 ASM 1985 ASM 1984 ASM 1983 ASM	19 569 18 288 16 737 16 900 15 703	86 87 86 87 86	2 068 1 911 1 837 1 962 1 836	8.77 8.58 8.17 7.94 7.78	61 65 67 67 69	71 74 76 76 79	77 745 67 615 60 105 61 933 49 516	25 27 28 27 32	43.57 40.88 38.07 36.43 31.38
1982 Census 1981 ASM 1980 ASM 1979 ASM 1978 ASM 1977 Census	13 923 12 895 11 640 11 804 10 792 9 865	86 86 85 87 86 89	1 714 1 892 1 816 1 964 1 964 1 906	7.26 6.29 5.93 5.63 5.10 4.82	70 79 78 77 77 77	79 89 88 87 87 87 86	44 600 25 221 25 674 26 412 25 521 25 219	31 51 45 45 42 39	30.20 15.49 16.56 15.53 15.03 14.94
				INDUSTRY	2297, NONWOV	EN FABRICS			
1992 Census 1991 ASM 1990 ASM 1989 ASM 1988 ASM	28 310 25 525 24 621 25 391 24 031	75 75 76 76 74	2 063 2 083 2 054 2 115 2 111	11.65 10.11 9.92 10.08 9.60	57 55 55 56 55	73 70 69 71 70	72 470 77 778 77 331 76 528 72 321	39 33 32 33 33 33	46.83 50.00 49.32 47.76 46.55
1987 Census 1986 ASM 1985 ASM 1984 ASM 1983 ASM	23 957 19 908 19 000 17 672 17 163	75 78 78 78 78 76	2 058 2 049 1 980 2 019 2 074	9.61 8.29 8.36 7.93 7.56	56 53 55 55 55 56	73 71 71 71 71 72	65 290 53 611 51 256 49 888 48 065	37 37 37 35 36	42.50 33.60 33.03 31.83 30.32
1982 Census 1981 ASM 1980 ASM 1979 ASM 1978 ASM 1977 Census	16 163 15 748 14 050 12 597 12 007 10 754	77 76 77 78 82 80	1 968 2 056 2 054 2 059 2 061 2 029	7.28 7.17 6.18 5.62 5.14 4.75	58 56 56 56 55 57	74 71 71 71 71 71 73	44 260 49 176 41 769 37 705 35 036 29 692	37 32 34 33 34 33 34 36	29.11 31.63 26.46 23.38 20.70 18.29

22E–8 MISCELLANEOUS TEXTILE GOODS

MANUFACTURES-INDUSTRY SERIES

TIPS [UPF] BATCH_450 [EISS,BA_TAYLOR] MCD-SRB 4/27/95 11:36 AM MACHINE: EPCV24 DATA:NONE TAPE: NOreel FRAME: 2 TSF:22E_92.DAT;3 4/27/95 11:34:54 UTF:22E_93.DAT;3 4/27/95 11:34:54 META:TIPS96-11344819.DAT;1 4/27/95 11:35:58

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

Cost of Production materials and payroll as Cost of Average hourly materials as workers as Year Payroll percent of Annual hours earnings of production percent of percent of Payroll as Value added of production workers (number) employee (dollars) value of shipments percent of value added per production worker hour total value of Value added employment workers (dollars) shipments per employee (dollars) (percent) (percent) (percent) (percent) (dollars) **INDUSTRY 2298, CORDAGE AND TWINE** 20 701 18 824 18 529 17 347 17 014 1992 Census_____ 1991 ASM _____ 1990 ASM ______ 1989 ASM _____ 2 077 2 151 2 132 1 911 1 963 7.94 7.19 7.30 7.38 7.36 52 254 36 485 35 543 35 931 40 841 32.42 21.76 22.02 24.18 40 52 52 48 42 78 78 76 78 78 48 69 60 61 60 50 82 81 80 71 1988 ASM 26.58 16 275 964 48 69 41 130 37 700 40 26.28 1987 Census_____ 80 78 79 79 79 79 7.00 1 1986 ASM 1985 ASM 1985 ASM 1984 ASM 1983 ASM 15 633 14 746 13 197 44 46 49 50 67 70 71 73 41 44 42 47 957 678 24 59 33 635 31 788 27 833 900 846 6.49 6.19 22.31 21.85 13 000 1 860 5.93 18.91 1982 Census..... 1981 ASM 1980 ASM 1979 ASM 1978 ASM 1977 Census..... 27 500 27 788 23 792 21 645 16 829 11 667 79 808 50 71 70 73 72 76 73 42 19.31 5.50 1 1 808 1 849 1 860 1 851 1 719 1 797 10 470 10 111 9 140 4.97 4.69 4.24 3.83 18.71 16.16 14.69 11.55 51 51 50 52 38 42 42 49 80 79 80 85 83 8 257 8 368 3.78 49 18 295 46 12.24 INDUSTRY 2299, TEXTILE GOODS, N.E.C. 1992 Census_____ 1991 ASM _____ 1990 ASM _____ 1989 ASM _____ 75 77 78 23 976 21 971 21 028 2 151 2 151 2 115 2 115 2 078 56 719 51 693 57 181 9 1 2 49 71 71 70 72 42 34.95 34.95 31.06 34.45 30.26 8.66 8.36 51 51 52 43 37 41 20 663 80 78 8.33 50 306 1988 ASM . 19 932 1 948 8.54 52 73 45 730 44 30.21 1987 Census_____ 1986 ASM _____ 1985 ASM _____ 1984 ASM _____ 1982 ASM _____ 19 177 16 776 16 094 15 571 2 031 2 000 2 000 2 007 2 045 7.95 7.34 6.82 6.74 43 817 41 688 37 176 37 766 27.22 25.31 22.25 22.71 79 82 84 83 82 51 48 51 51 57 73 69 72 71 78 44 40 43 41 47 1983 ASM _____ 15 270 6.25 32 172 19.28 1982 Census_____ 1981 ASM ______ 1980 ASM ______ 1979 ASM ______ 1978 ASM ______ 1 986 2 071 2 091 2 124 2 006 2 049 29 306 29 271 26 775 23 893 21 203 20 020 18.24 17.14 15.55 13.63 12.82 12.00 14 035 13 378 12 535 11 330 5.97 5.39 5.01 4.52 81 82 83 83 82 81 55 57 56 57 56 54 48 76 77 77 77 77 77 77 46 47 47 48 48 10 244 9 618 4.35 1978 ASM _____ 1977 Census_____ 4.05

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

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]

							199	2						1987
		All establ	lishments	All em	ployees	Pro	duction wo	rkers						
Industry and geographic area	E1	Total (no.)	With 20 employ- ees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manufac- ture (million dollars)
INDUSTRY 2295, COATED FABRICS, NOT RUBBERIZED														
United States	-	193	90	9.2	274.1	6.6	13.8	165.6	613.7	912.0	1 528.1	47.1	10.3	567.1
California Connecticut Georgia Indiana Massachusetts	E1 E2 E6 -	22 7 7 5 24	7 4 3 3 14	.9 .4 .1 E 1.1	29.2 12.1 3.0 (D) 35.0	.5 .2 .1 (D) .8	.9 .5 .2 (D) 1.7	12.3 5.2 2.0 (D) 20.3	65.1 24.1 3.2 (D) 80.0	88.3 29.6 5.9 (D) 146.8	157.6 54.4 9.1 (D) 227.6	5.1 (D) .3 (D) 4.6	F E .9	(D) (D) 41.1 (D) 53.5
Michigan Mississippi New Jersey New York North Carolina		4 1 17 16 13	1 1 8 8 6	E .7 .6	(D) (D) 18.1 15.7 14.9	(D) (D) .5 .4 .6	(D) (D) 1.0 .9 1.2	(D) (D) 10.7 9.2 10.2	(D) (D) 42.0 47.2 46.3	(D) (D) 73.3 58.6 74.5	(D) (D) 117.3 106.3 118.6	(D) (D) 3.9 1.8 (D)	F E F E	(D) (D) (D) (D) (D)
North Dakota Ohio Pennsylvania South Carolina Tennessee	E2 E1 -	1 16 9 8 7	1 11 5 1 4	C 1.2 .2 C .7	(D) 38.6 6.3 (D) 19.3	(D) .8 .1 (D) .5	(D) 1.7 .3 (D) 1.2	(D) 22.7 2.9 (D) 14.8	(D) 69.8 16.3 (D) 46.0	(D) 122.2 20.7 (D) 48.9	(D) 191.6 37.0 (D) 92.3	(D) 3.7 1.0 (D) 2.5	(NA) G .3 F	(NA) (D) 14.7 8.9 (D)
Vermont West Virginia Wisconsin	– – E1	1 1 6	1 1 5	C C E	(D) (D) (D)	(D) (D) (D)	(D) (D) (D)	(D) (D) (D)	(D) (D) (D)	(D) (D) (D)	(D) (D) (D)	(D) (D) (D)	(NA) (NA) C	(NA) (NA) (D)

See footnotes at end of table.

MANUFACTURES—INDUSTRY SERIES

MISCELLANEOUS TEXTILE GOODS 22E-9

TIPS [UPF] BATCH_450 [EISS,BA_TAYLOR] MCD-SRB 4/27/95 11:36 AM MACHINE: EPCV24 DATA:NONE TAPE: NOreel FRAME: 3 TSF:22E_92.DAT;3 4/27/95 11:34:54 UTF:22E_93.DAT;3 4/27/95 11:34:54 META:TIPS96-11344819.DAT;1 4/27/95 11:35:58

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

1992 1987 All establishments All employees Production workers New Industry and geographic area With 20 Value added Value added capital employ-ees or by manufac Cost of Value of expend-itures All by manufacemploy-ees² (1,000) materials (million dollars) shipments (million dollars) Payroll (million Wages (million ture (million) ture (million Number² Number Hours Total (million more E¹ (no.) (no.) (1,000)dollars) (1,000) (millions) dollars) dollars) dollars) dollars) **INDUSTRY 2296, TIRE CORD** AND FABRICS United States _____ 86.0 402.6 981.0 -16 15 5.1 112.6 4.4 8.7 584.6 37.2 5.1 396.5 (D) (NA) 145.6 (NA) Alabama _____ (D) (D) 31.9 (D) (D) 191.1 (D) (D) 1.8 (D) (D) 3.4 (D) (D) G (NA) 2 2 G (D) Arkansas Georgia Indiana (D) 39.6 (D) (D) 2.0 C E 3 3 1 2 145.3 335.6 (D) (D) (D) (D) 2.3 (NA) C (D) (D) (D) (D) (D) (D) 1 2 New York _____ (D) North Carolina _____ South Carolina _____ Virginia _____ (D) (D) (D) (D) (D) (D) (D) (D) (D) 3 3 F (D) FEE E INDUSTRY 2297 **NONWOVEN FABRICS** United States _____ 168 110 16.8 475.6 12.6 26.0 302.8 1 217.5 1 619.7 2 851.9 166.2 13.8 901.0 (NA) (D) (NA) 35.8 Alabama (NA) 4 0 9.9 17.5 232 .2 F C (D) (D) 57.1 .2 (D) (D) 1.5 (D) (D) 19.3 (D) (D) (D) Arkansas _____ 3 (D) (D) (D) (D) (D) (D) California _____ Georgia _____ E1 (NA) 92 6 1.1 C 29.6 108.1 166.6 .8 E Indiana_____ (D) (NA) (D) (NA) (D) (D) (D) 38.5 (D) (D) (D) 1.0 (D) Kentucky _____ E6 2 2 2 (D) C F C E E Maine ______ Maryland _____ Massachusetts _____ Michigan _____ 3 (NÅ) F -(D) (D) (D) 6 2 1.1 E 81.5 164 9 10 16.3 8Ò 6 3 (D) (D) (D) (D) (D) (D) (D) (NA) (D) 6.9 14.8 53.5 Mississippi_____ 4 2 F (D) (D) (D) (D) 27.9 (D) (D) (D) (D) F E F H 1.3 3.2 .8 1.5 5.2 (D) 74.2 114.5 454.5 (D) (D) (D) (D) (D) (D) New Jersey_____ New York F1 6 5 13 117 46.7 Ē1 23 22 1.0 .8 57.3 57.8 237.3 North Carolina 2.4 (D) 219.0 18 3.1 E 80.4 36.2 E6 Ohio _____ 3 3 (D) (D) (D) (D) (D) (D) F 10 8 2 28.6 17.5 84.0 84.0 171.5 2.8 1.2 62.5 Pennsylvania 1.2 E 1.7 G 1.0 1.8 (D) 64.8 (D) (D) Rhode Island _____ South Carolina _____ (D) 49.4 (D) (D) (D) 1.3 (D) 2.9 (D) 32.1 (D)(D) 151.5 (D) (D) 19.5 F 1.2 F G 288 0 12 8 138.8 (D) (D) South Dakota _____ (D) (D) (D) (D) (D) (D) (D) (D) (D) 4.9 (D) (D) 1 5 6 Tennessee _____ (D) (D) (D) 11.9 (D) (D) (D) (D) (D) (D) (D) (D) (D) 8.7 (D) (NA) (D) (NA) 4 Е Е Texas_____ 3 4 2 4 (D) (D) (D) (D) (NA) C Virginia_____ Washington_____ 6 E F1 784 Wisconsin _____ 8 .3 36.9 116. (NA) **INDUSTRY 2298, CORDAGE** AND TWINE United States E2 210 78 6.7 138.7 5.2 10.8 85.7 350.1 324.8 672.7 21.5 6.9 283.8 (D) (D) (D) 26.7 Alabama 10.1 F 10 5 7 .8 14.6 .6 1.4 31.6 19.5 50.4 1.1 California E4 22 5 15 10 .6 (D) 17.0 13.1 (D) 8.0 14.2 .3 4.6 29.9 CEC6 .3 C .2 .4 (D) 17.1 (D) (D) (D) (D) 3.4 (D) (D) 1.3 (D) 2 3 5 Florida _____ E1 E7 .2 .7 .1 .4 Georgia 6.6 4.6 16.3 30.2 (D) (NA) (NA) lowa _____ ECCCE (D) (NA) (NA) Kansas_____ Kentucky_____ E3 E1 2 1 1 5 2 3 7 (D) (D) ouisiana _____ Ć E9 Maine _____ (D) (D) (NA) (D) (D) 2.9 2.6 (D) .2 .2 (D) 7.7 5.1 (D) 7.3 6.2 2.6 (D) Massachusetts _____ E C 1 3 .1 1.5 14.4 5 2 Michigan 1.1 (D) 2.6 7.1 (D) 17.4 .1 C (D) Minnesota Mississippi New York (NA) C E 5 33 .2 C 3.6 10.3 (D) (D) (D) (D) (D) (D) (D) (D) (D) 32.7 2.9 4.8 (D) 28.6 (D) (D) 20.0 6.4 4.3 (D) (D) 51.7 12 1 6 2 2 2 6 (D) (D) 9.2 (D)North Carolina _____ E4 17 G C .4 .1 .1 .2 .4 (D) (D) (D) (D) .8 .2 (D) (D) 6.2 1.7 1.4 (D) 5.7 2.8 F (NA) 17.7 Ohio _____ Pennsylvania _____ 3 13 (D) 1.1 .2 (D) (NA) .3 3.1 2.2 (D) (NA) Rhode Island _____ Texas _____ Ē1 (NA) 6 9.5 8.9 (D) 52.0 Ē4 16 3 10 NΑ (NA) (NA) (D) (D) .6 (D) 24.0 (NA) (NA) Utah _____ Washington _____

[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]

See footnotes at end of table.

22E–10 MISCELLANEOUS TEXTILE GOODS

MANUFACTURES—INDUSTRY SERIES

TIPS [UPF] BATCH_450 [EISS,BA_TAYLOR] MCD-SRB 4/27/95 11:36 AM MACHINE: EPCV24 DATA:NONE TAPE: NOreel FRAME: 4 TSF:22E_92.DAT;3 4/27/95 11:34:54 UTF:22E_93.DAT;3 4/27/95 11:34:54 META:TIPS96-11344819.DAT;1 4/27/95 11:35:58

<u>9.8</u>

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]

							199	2						1987
		All establ	lishments	All em	ployees	Pro	duction wo	rkers						
Industry and geographic area	E1	Total (no.)	With 20 employ- ees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manufac- ture (million dollars)
INDUSTRY 2299, TEXTILE GOODS, N.E.C.														
United States	E1	573	188	16.7	400.4	12.6	27.1	247.1	947.2	875.5	1 795.7	83.3	16.4	718.6
Alabama California Connecticut Florida Georgia	E9 E3 E4 E2	9 64 12 18 40	3 19 3 2 14	E 1.2 .3 C 1.0	(D) 21.5 10.3 (D) 24.8	(D) 1.0 .2 (D) .7	(D) 2.0 .5 (D) 1.6	(D) 14.1 4.3 (D) 15.2	(D) 51.4 20.7 (D) 68.6	(D) 55.2 21.4 (D) 62.8	(D) 106.0 41.1 (D) 130.2	.3 6.4 .7 .7 8.8	E G (NA) C .8	(D) (D) (NA) (D) 27.1
Illinois Indiana Kentucky Maine Massachusetts	- - E7 E2	12 6 5 30	3 2 3 15	.2 .2 .2 E 1.3	5.1 4.5 4.3 (D) 37.6	.2 .1 .1 (D) 1.1	.3 .3 .2 (D) 2.7	3.0 2.4 1.9 (D) 27.6	11.0 9.6 17.7 (D) 70.5	12.3 7.6 11.1 (D) 113.2	23.3 17.2 28.6 (D) 183.1	.2 (D) (D) (D) 3.7	F E (NA) E G	(D) (D) (NA) (D) (D)
Mississippi Missouri New Hampshire New Jersey New York	E1 E3 E1	5 14 5 37 79	4 5 4 11 21	.3 E .5 .7 1.8	5.3 (D) 15.9 15.6 42.3	.2 (D) .4 .5 1.3	.5 (D) .8 1.0 3.4	4.2 (D) 11.9 9.3 24.0	14.7 (D) 27.0 26.0 97.4	19.7 (D) 22.8 28.0 68.5	34.5 (D) 48.8 53.7 162.4	.4 (D) (D) 2.8 4.5	C (NA) F G	(D) (NA) (D) (D) (D)
North Carolina Ohio Oregon Pennsylvania Rhode Island	– – E1 E4	52 9 4 25 4	23 4 3 4 3	2.0 E C .4 .2	38.0 (D) (D) 10.3 4.0	1.6 (D) (D) .3 .2	3.1 (D) (D) .6 .4	24.4 (D) (D) 6.0 2.8	74.5 (D) (D) 32.2 11.3	79.8 (D) (D) 18.4 17.9	151.8 (D) (D) 49.6 28.5	5.2 (D) (D) .9 (D)	G E (NA) .7 .3	(D) (D) (NA) 33.3 15.6
South Carolina Tennessee Texas Virginia Wisconsin	 E4 	29 10 22 7 6	18 4 6 2	2.6 E .3 .7 E	73.0 (D) 6.1 18.3 (D)	2.0 (D) .3 .5 (D)	3.9 (D) .6 .9 (D)	43.7 (D) 4.5 8.0 (D)	189.3 (D) 13.8 44.4 (D)	158.2 (D) 10.0 14.0 (D)	334.0 (D) 23.7 59.1 (D)	24.0 (D) 1.0 (D) (D)	2.2 F E E	137.7 (D) (D) (D) (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 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; E-500 to 999 employees; G-1,000 to 2,499 employees; H-2,500 to 4,999 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 Companies All establishments With 1 to 19 employees With 20 to 99 employees With 00 employees or more Employment and labor costs:	number	Coated fabrics, not rubberized (SIC 2295) 186	Tire cord and fabrics (SIC 2296) 13	Nonwoven fabrics (SIC 2297)	Cordage and twine (SIC 2298)	Textile goods, n.e.c. (SIC 2299)
All establishments With 1 to 19 employees With 20 to 99 employees With 100 employees or more	number		13	1.1.1		
With 1 to 19 employees With 20 to 99 employees With 100 employees or more		102		144	191	537
Employment and labor costs:	number	193 103 62 28	16 1 3 12	168 58 68 42	210 132 59 19	573 385 146 42
Employees	mil dol mil dol mil dol mil dol	9.2 357.0 274.1 82.9 28.4 54.5	5.1 155.2 112.6 42.6 12.0 30.6	16.8 591.7 475.6 116.0 46.6 69.5	6.7 168.5 138.7 29.8 14.0 15.8	16.7 764.4 400.4 364.0 109.5 254.5
Production workers: Average for year March	1,000 1,000 1,000	6.6 6.6 6.6 6.6 6.5	4.4 4.3 4.3 4.4 4.5	12.6 12.5 12.6 12.8 12.4	5.2 5.3 5.2 5.2 5.2 5.2	12.6 12.7 12.7 12.6 12.4
Hours	millions	13.8	8.7	26.0	10.8	27.1
Wages	mil dol	165.6	86.0	302.8	85.7	247.1
Cost of materials ¹ Materials, parts, containers, etc., consumed ² Resales Fuels Purchased electricity Contract work	mil dol mil dol mil dol mil dol	912.0 847.4 19.3 14.3 20.5 10.5	584.6 554.3 .1 4.7 24.7 .9	1 619.7 1 317.6 132.2 33.8 77.2 59.0	324.8 263.3 35.2 2.3 10.1 13.9	875.5 740.5 75.7 16.7 36.1 6.5
Quantity of electric energy used for heat and power: Purchased Generated less sold		299.2 _	540.0 _	1 705.2 (D)	168.4 _	585.6 _
Total value of shipments	mil dol	1 528.1	981.0	2 851.9	672.7	1 795.7
Value added	mil dol	613.7	402.6	1 217.5	350.1	947.2

See footnotes at end of table.

MANUFACTURES-INDUSTRY SERIES

MISCELLANEOUS TEXTILE GOODS 22E-11

TIPS [UPF] BATCH_450 [EISS,BA_TAYLOR] MCD-SRB 4/27/95 11:36 AM MACHINE: EPCV24 DATA:NONE TAPE: NOreel FRAME: 5 TSF:22E_92.DAT;3 4/27/95 11:34:54 UTF:22E_93.DAT;3 4/27/95 11:34:54 META:TIPS96-11344819.DAT;1 4/27/95 11:35:58

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	Coated fabrics, not rubberized (SIC 2295)	Tire cord and fabrics (SIC 2296)	Nonwoven fabrics (SIC 2297)	Cordage and twine (SIC 2298)	Textile goods, n.e.c. (SIC 2299)
Inventories by stage of fabrication: Beginning of 1992mil dolmil dol	224.3 77.4 44.7 102.2	79.5 21.6 23.4 34.6	405.4 214.3 61.6 129.5	129.1 74.7 15.4 39.0	252.7 117.1 29.8 105.8
End of 1992mil dolmil dol	216.1 73.9 45.7 96.5	85.3 26.3 24.9 34.1	398.4 204.0 57.1 137.2	129.2 76.8 15.6 36.9	279.9 141.8 32.2 106.0

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]

		11 1			
Item	Coated fabrics, not rubberized (SIC 2295)	Tire cord and fabrics (SIC 2296)	Nonwoven fabrics (SIC 2297)	Cordage and twine (SIC 2298)	Textile goods, n.e.c. (SIC 2299)
Gross book value of depreciable assets: Total:					
Beginning of year	500.8	334.5	1 809.1	197.7	820.8
New capital expenditures'	47.1	37.2	166.2	21.5	83.3
	(D) (D)	(D) (D)	(D) (D)	3.3	5.0
Retirements	(D) 531.4	(D) 375.2	(D) 1 924.0	4.0 218.5	28.6 880.5
End of year Buildings and other structures:	551.4	575.2	1 924.0	210.5	000.5
Beginning of year	117.9	80.2	320.9	38.4	170.8
New capital expenditures	5.6	.9	23.6	3.1	10.8
Used capital expenditures	(D) (D)	-	(D) (D)	.4	.6
Retirements	(D)	.1	(D)	.1	2.0
End of year	121.3	81.0	342.2	41.8	180.2
Machinery and equipment: Beginning of year	382.9	254.3	1 488.2	159.2	650.1
New capital expenditures ¹	41.5	36.4	142.7	18.4	72.5
Used capital expenditures			4.7	2.9	4.4
Retirements	15.0	(D) (D)	53.6	3.9	26.6
End of year	410.1	29 4 .ź	1 581.9	176.8	700.3
Depreciation charges during 1992:					
Total	32.9	18.9	117.2	14.0	60.5
Buildings and other structures	4.9	2.7	11.7	1.6	9.2
Machinery and equipment	27.9	16.3	105.6	12.3	51.3
Rental payments:					
Total	20.4	7.2	28.8	7.5	20.7
Buildings and other structures	4.9	2.8	9.9	4.2	11.4
Machinery and equipment	15.5	4.4	18.8	3.2	9.3

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]

Amount (million dollars)standard error of error of error of (million dollars)standard error of error of estimate1 (percent)standard error of error of estimate1 (percent)standard error of error of estimate1 (percent)standard error of (million dollars)standard error of estimate1 (percent)standard error of estimate1 (percent)standard e		Coated fabrics, not rubberized (SIC 2295)		Tire cord and fabrics (SIC 2296)		Nonwoven fabrics (SIC 2297)		Cordage and twine (SIC 2298)		Textile goods, n.e.c. (SIC 2299)	
Cost of purchased services for the repair of- Buildings and other structures 1.9 (X) 1.3 (X) 6.5 (X) 4 (X) (S) Response coverage ratio (percent) ² 76.5 (X) 78.5 (X) 59.4 (X) 2.4 (X) (S) Response coverage ratio (percent) ² 76.6 (X) 78.5 (X) 59.4 (X) 2.4 (X) (S) Other purchased services: 76.6 (X) 78.5 (X) 84.6 (X) 52.1 (X) (S)		(million	standard error of estimate ¹	(million	standard error of estimate ¹	(million	standard error of estimate ¹	(million	standard error of estimate ¹	(million	Relative standard error of estimate ¹ (percent)
Software and other data processing 2.0 XX .4 XX 6.6 XX (S) (X) (S) Response coverage ratio (percent) ² 76.5 (X) 78.5 (X) 81.2 (X) (S) (X) (S)	Cost of purchased services for the repair of- Buildings and other structures	5.4 74.8 6.1 76.6 3.4 76.5 6.0 78.1 2.0	888888888888888888888888888888888888888	78.5 3.3 78.5 .5 66.4 .1 78.5 .1 78.5 .7 8.5 .4	SSSSSSSS :	80.7 59.4 84.6 79.6 2.8 78.0 10.6 74.5 7.6 79.4 6.6	82838283838383838	2.4 52.1 (S) (S) 1.5 52.1 (S) (S) 5.7		<u> </u>	888888888888888888888888888888888888888

See footnotes at end of table.

22E–12 MISCELLANEOUS TEXTILE GOODS

MANUFACTURES-INDUSTRY SERIES

TIPS [UPF] BATCH_450 [EISS,BA_TAYLOR] MCD-SRB 4/27/95 11:36 AM MACHINE: EPCV24 DATA:NONE TAPE: NOreel FRAME: 6 TSF:22E_92.DAT;3 4/27/95 11:34:54 UTF:22E_93.DAT;3 4/27/95 11:34:54 META:TIPS96-11344819.DAT;1 4/27/95 11:35:58

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]

	Coated fabrics, not rubberized (SIC 2295)		Tire cord and fabrics (SIC 2296)		Nonwoven fabrics (SIC 2297)		Cordage and twine (SIC 2298)		Textile goods, n.e.c. (SIC 2299)	
Item	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)
New machinery and equipment expenditures Automobiles, trucks, etc., for highway use Computers and peripheral data processing equipment All other Adjustment ratio ³	41.5 .3 4.5 36.6 1.2	(X) 39 65 9 (X)	36.4 .1 .6 35.7 1.2	(X) 1 1 (X)	142.7 .5 8.3 133.9 1.2	(X) 29 4 1 (X)	18.4 (S) (S) (S) (S)	XXXX XXXXX	72.5 55.5 1.2 15.8 .6	(X) 19 61 (X)
Cost of materials, components, parts, etc., used Materials purchased or transferred from foreign sources ⁴ Materials purchased or transferred from domestic sources Adjustment ratio ³	847.4 21.0 826.4 1.6	(X) 31 1 (X)	554.3 32.8 521.5 1.4	(X) 1 (X)	1 317.6 57.7 1 259.8 1.5	(X) 24 2 (X)	263.3 (S) (S) (S)	(X) (X) (X) (X)	740.5 (S) (S) (S)	(X) (X) (X) (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]

		All	All em	ployees	Pro	duction wor	rkers	Value			New	End-of-
Industry and employment size class	E1	estab- lish- ments (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	capital expend- itures (million dollars)	year inven- tories (million dollars)
INDUSTRY 2295, COATED FABRICS, NOT RUBBERIZED												
Total	-	193	9.2	274.1	6.6	13.8	165.6	613.7	912.0	1 528.1	47.1	216.1
Establishments with an average of — 1 to 4 employees	E9 E8 E1 E1 - -	49 26 28 37 25 24 4	.1 .2 1.2 1.8 3.9 1.7	1.9 4.3 9.9 34.7 49.9 114.1 59.4	.1 .3 .9 1.2 2.7 1.3	.1 .2 1.7 2.5 5.7 3.0	1.2 2.5 5.1 19.3 25.8 67.9 43.8	3.9 8.8 21.1 81.3 130.3 246.0 122.4	5.7 12.4 26.7 121.8 214.0 388.3 143.0	9.6 21.1 48.9 204.7 342.3 638.4 263.2	.5 .5 1.9 3.0 7.9 19.3 14.0	1.5 3.0 6.8 30.8 52.4 94.8 26.9
Covered by administrative records ²	E9	64	.2	4.6	.1	.3	2.9	8.5	12.5	21.0	.6	3.2
INDUSTRY 2296, TIRE CORD AND FABRICS												
Total	-	16	5.1	112.6	4.4	8.7	86.0	402.6	584.6	981.0	37.2	85.3
Establishments with an average of – 10 to 19 employees	- - - -	1 3 5 3 4	1.2 (D) (D) <u>4.0</u> (D)	23.0 (D) 89.6 (D)	. <u>9</u> (D) (D) <u>3.4</u> (D)	<u>1.9</u> (D) 6.7 (D)	15.7 (D) 70.3 (D)	<u>38.6</u> (D) (D) <u>364.0</u> (D)	<u>137.4</u> (D) (D) <u>447.3</u> (D)	<u>171.4</u> (D) (D) <u>809.7</u> (D)	<u>37.2</u> (D) (D) (D) (D)	24.5 (D) (D) <u>60.8</u> (D)
INDUSTRY 2297, NONWOVEN FABRICS												
Total	-	168	16.8	475.6	12.6	26.0	302.8	1 217.5	1 619.7	2 851.9	166.2	398.4
Establishments with an average of — 1 to 4 employees	E8 E7 E1 E2 E1 - -	20 14 24 39 29 22 11 9	(Z) .1 .3 2.1 3.4 3.7 5.8	.8 1.9 8.7 31.6 50.7 92.8 103.1 185.8	(Z) .1 .2 1.0 1.7 2.6 2.8 4.1	.1 .5 1.9 3.6 5.3 8.9	.6 1.3 5.0 18.4 31.4 61.9 69.2 115.1	2.5 4.9 27.4 87.3 118.2 239.3 321.2 416.7	2.9 5.9 44.3 121.0 156.1 284.0 382.9 622.5	5.3 10.9 71.7 210.6 273.8 523.9 710.1 1 045.6	.2 .4 1.5 3.9 20.2 32.2 59.9 48.1	.9 1.3 9.4 23.8 35.1 59.1 92.5 176.3
Covered by administrative records ²	E9	29	.2	2.8	.1	.2	1.9	6.0	7.5	13.5	.5	1.8

See footnotes at end of table.

MANUFACTURES—INDUSTRY SERIES

MISCELLANEOUS TEXTILE GOODS 22E-13

TIPS [UPF] BATCH_450 [EISS,BA_TAYLOR] MCD-SRB 4/27/95 11:36 AM MACHINE: EPCV24 DATA:NONE TAPE: NOreel FRAME: 7 TSF:22E_92.DAT;3 4/27/95 11:34:54 UTF:22E_93.DAT;3 4/27/95 11:34:54 META:TIPS96-11344819.DAT;1 4/27/95 11:35:58

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

		All	All em	ployees	Pro	duction wo	rkers	Value added by			New capital	End-of- vear
Industry and employment size class	E1	estab- lish- ments (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	expend- itures (million dollars)	inven- tories (million dollars)
INDUSTRY 2298, CORDAGE AND TWINE												
Total	E2	210	6.7	138.7	5.2	10.8	85.7	350.1	324.8	672.7	21.5	129.2
Establishments with an average of – 1 to 4 employees	E9 E6 E1 E1 E4 E1	66 31 35 35 24 17 2	.1 .2 .5 1.1 1.6 <u>3.2</u> (D)	2.2 3.5 8.9 23.7 34.7 <u>65.7</u> (D)	.1 .2 .4 .9 1.2 <u>2.5</u> (D)	.2 .3 1.8 2.6 <u>5.1</u> (D)	1.4 2.0 5.5 14.9 21.9 <u>40.1</u> (D)	5.1 8.2 22.1 54.9 79.2 <u>180.6</u> (D)	5.5 8.0 20.8 48.5 99.8 142.1 (D)	10.7 16.4 43.0 104.1 176.7 <u>321.9</u> (D)	.5 .5 1.2 2.8 6.0 <u>10.4</u> (D)	1.9 2.5 6.3 16.7 31.3 <u>70.5</u> (D)
Covered by administrative records ² INDUSTRY 2299, TEXTILE GOODS, N.E.C.	E9	86	.3	4.4	.2	.4	2.8	10.1	10.8	20.9	1.0	3.7
							·					
Total	E1	573	16.7	400.4	12.6	27.1	247.1	947.2	875.5	1 795.7	83.3	279.9
Establishments with an average of — 1 to 4 employees 5 to 9 employees 10 to 19 employees 20 to 49 employees 5 to 99 employees 10 to 29 employees 20 to 49 employees 20 to 499 employees 20 to 499 employees	E8 E5 E2 E2 E1 E1	209 98 78 95 51 32 10	.3 .7 1.1 2.9 3.6 4.7 3.3	6.1 12.6 22.5 59.4 79.9 116.7 103.2	.3 .5 2.3 2.8 3.3 2.6	.5 1.0 1.8 5.6 5.7 6.8 5.6	3.9 7.9 14.6 37.7 52.6 64.8 65.6	15.0 29.6 62.0 148.3 176.7 268.5 247.0	13.6 28.9 63.7 164.1 187.5 221.2 196.4	28.4 58.4 1250 309.0 365.2 481.8 427.9	1.9 3.3 4.4 12.3 11.3 24.3 25.8	3.5 6.1 12.9 38.9 35.5 77.4 105.6
Covered by administrative records ²	E9	229	.7	12.0	.6	1.1	7.7	24.3	24.7	49.0	3.7	6.4

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

Note: For gualifications 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 change was also used for a small number of other establishment 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; 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]

141001			+	,							
Indus- try or		All	All em	ployees	Pr	oduction work	kers	Value added by			New
prod- uct class code	Industry or primary product class	All estab- lish- ments (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	capital expend- itures (million dollars)
2295	Coated fabrics, not rubberized: All establishments in industry	193	9.2	274.1	6.6	13.8	165.6	613.7	912.0	1 528.1	47.1
22952 22953	Establishments with this product class primary: Vinyl coated fabrics, including expanded vinyl coated _ Other coated or laminated fabrics and coated yarns	41 59	3.8 4.6	121.8 130.3	2.7 3.3	5.8 6.8	74.5 79.0	266.1 314.9	417.0 424.4	678.9 747.3	23.7 20.7
2296	Tire cord and fabrics: All establishments in industry	16	5.1	112.6	4.4	8.7	86.0	402.6	584.6	981.0	37.2
2297	Nonwoven fabrics: All establishments in industry	168	16.8	475.6	12.6	26.0	302.8	1 217.5	1 619.7	2 851.9	166.2
22971 22972	Establishments with this product class primary: Nonwoven fabrics Fabricated nonwoven products	76 42	10.9 5.3	346.1 117.9	7.9 4.2	17.0 8.1	220.6 74.3	857.0 333.9	1 287.7 304.0	2 151.5 645.8	151.9 12.2
2298	Cordage and twine: All establishments in industry	210	6.7	138.7	5.2	10.8	85.7	350.1	324.8	672.7	21.5
22981 22982 22983	Establishments with this product class primary: Hard fiber cordage and twineSoft fiber cordage and twine (except cotton) Cotton cordage and twine	12 58 16	.5 4.1 1.2	12.1 88.6 21.6	.5 3.1 1.0	1.0 6.3 2.0	9.0 52.9 13.7	32.9 241.2 40.6	57.7 197.1 35.8	90.3 437.4 75.6	3.3 11.7 4.0
2299	Textile goods, n.e.c.: All establishments in industry	573	16.7	400.4	12.6	27.1	247.1	947.2	875.5	1 795.7	83.3
22991 22994	Establishments with this product class primary: Pressed, punched, or needled felts, except hats Recovered fibers, processed mill waste and related	52	4.9	145.4	3.7	8.2	88.1	391.6	224.0	608.3	31.6
22995	products Paddings and upholstery filling, batting, and wadding (excluding foam rubber and plastics)	35 79	2.6 4.4	63.3 102.0	2.0 3.1	4.1 6.6	38.2 62.4	150.3 203.3	224.6 256.1	364.5 454.8	14.5 15.3
22996	Jute goods and scouring and combing mill products	16	.8	18.7	.6	1.2	11.7	53.2	35.1	86.5	4.4

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

22E–14 MISCELLANEOUS TEXTILE GOODS

MANUFACTURES-INDUSTRY SERIES

TIPS [UPF] BATCH_450 [EISS,BA_TAYLOR] MCD-SRB 4/27/95 11:36 AM MACHINE: EPCV24 DATA:NONE TAPE: NOreel FRAME: 8 TSF:22E_92.DAT;3 4/27/95 11:34:54 UTF:22E_93.DAT;3 4/27/95 11:34:54 META:TIPS96-11344819.DAT;1 4/27/95 11:35:58

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 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]

Nousy 1992 1967 1962 NOUSTRY 2265, COATED FRANCS, NOT RUBBERZED 1				
Text where of siltness 1 999 1000 1 999 10000	Industry	1992	1987	1982
Physical products where of apprendix 1 2755 1 2757 1 2755 1 2757 1 2757 1 2757 1 2757 1 2755 1 2757 1 2757 1 2757 1 2757 1 2757 1 2757 1 2757 1 2757 1 2757 1 2757 1 2757 1 2757 1 2757 1 2757 1 2755 1 2757 1 2755 1	INDUSTRY 2295, COATED FABRICS, NOT RUBBERIZED			
Under of primery products depresents mode in all materials 1 4 55.0 1 2025 1 2025 1 2025 Value of primery products depresents mode in the inclusive 1 2025 1 2025 1 2025 1 2025 INDUSTRY 226, THE CORD AND FABRICS 821.0 1 005.0 921.5 921.5 1 005.0 921.5 1 005.0 921.5 1 005.0 921.5 1 005.0 921.5 1 005.0 1 005.0 1 005.0 1 005.0 1 005.0 1 005.0 1 005.0 1 005.0 <	Primary products value of shipments Secondary products value of shipments Total miscellaneous receipts Value of resales Contract receipts	1 279.5 195.3 53.4 23.4 14.9	1 202.5 172.7 58.5 37.6 17.6	926.0 121.9 67.2 34.5 29.2
Value of primity roducts altyments made in the industry	Primary products specialization ratio	87	87	88
INUUSTRY 228, TRE CORD AND FABRICS 981.0 1 005.0 981.5 1 005.0 981.5 1 005.0 981.5 1 005.0 981.5 1 005.0 981.5 1 005.0 981.5 1 005.0 981.5 1 005.0 981.5 1 005.0 981.5 1 005.0	Value of primary products shipments made in this industry	1 279.5	1 202.5	926.0
Tail value of shipments 981.0 1 000.0 981.5 981.0 981.0 981.5 98	Coverage ratio	89	91	87
Phrasy products value of shipments 92.7 00 675.2 Total in synthesis receipt 00 00 00 Other matchings are require 00 00 00 Value of primary products synchronic require 00 00 00 Value of primary products value of signments 2 2 1282.2 Value of primary products value of signments 2 2 128.2 Other matching are objects 128.2 128.2 128.2 Other matching are objects signments 2 128.2 128.2 128.2 Other matching are ob	INDUSTRY 2296, TIRE CORD AND FABRICS			
Value of primary products shipments made in all industries 930.0 (3) 930	Primary products value of shipments Secondary products value of shipments Total miscellaneous receipts Value of resales Contract receipts	927.7 52.0 1.3 (D)	(D) (D) (D) (D) (D)	879.2 95.6 6.7 (D)
Value of primary products shipments made in the industry 927.7 0D 879.2 Coverage ratio 99 0D 99 INDUSTRY 2297, NONWOVEN FABRICS 99 0D 99 INDUSTRY 2297, NONWOVEN FABRICS 1 265.6 1 796.3 1 276.7 Total visue of shipments 2 65.9 1 996.1 1 727.7 0D 1 277.9 Primary products value of shipments 2 65.6 1 795.3 0D 1 277.9 Value of reases 2 65.7 1 996.1 1 277.9 1 277.9 1 277.9 Value of reases 3 .8 0D 1 277.9 1 277.9 1 277.9 Value of reases 3 .8 0D 60 1 277.9 1 42.4 Other miscillenous resents 3 282.5 1 278.5 1 658.8 1 120.2 Value of reases 3 282.5 1 265.6 1 738.8 1 120.2 1 279.2 68 Nous of shipments 3 265.7 7 27.7 7 2 68 20.5 22.5 1 458.4 20.5 22.5 27.5 55.1 <td>Primary products specialization ratio</td> <td>95</td> <td>(D)</td> <td>90</td>	Primary products specialization ratio	95	(D)	90
INDUSTY 2237, NONWOVEN FABRICS 2 6 1 727 Todi value of shipments 2 57.6 1 75.8	Value of primary products shipments made in this industry	927.7	(D)	879.2
Total value of shipments 2 651.9 1 966.1 1 728.7 Primary products value of shipments 2 73.6 1 000 1 727.1 Total value of shipments 2 73.6 1 73.8 1 00 Total value of shipments 2 73.6 1 73.8 1 00 Total value of shipments 2 73.6 00 1 727.1 Total value of shipments 2 73.6 00 1 727.1 Total value of shipments 2 73.6 00 1 727.1 Total value of shipments 3 265.3 2 422.5 1 653.6 Primary products shipments made in all industries 2 766.7 684.7 1 553.6 Value of primary products shipments made in other industries 2 766.7 684.7 1 553.6 Value of shipments 672.7 541.1 356.7 2 563.4 2 563.5 2 453.4 2 563.5 2 453.4 2 563.5 2 563.4 2 563.5 2 563.4 2 563.5 2 563.4 2 563.5 2 563.5 2 563.5 2 563.5 2 563.5 2 563.5 2 563.5 2 563.5 2 563.5 2 563.5	Coverage ratio	99	(D)	99
Primary products value of shipments 2 518.6 1 738.8 1 120.2 Secondary products value of shipments 173.3 00 127.1 Total value of results 173.3 00 127.1 Other macellameous receipts 18.3 00 127.3 Other macellameous receipts 9.8 00 14.4 Other macellameous receipts 8.5 00 6.0 Primary products shepents made in all industries 3 286.3 2 422.5 1 655.8 Value of primary products shipments made in other industries 2 766.7 766.7 768.7 NDUSTRY 2296, CORDAGE AND TWINE 77 72 68 NDUSTRY 2296, CORDAGE AND TWINE 32.6 2.0 2.5 Total value of shipments 32.6 2.0 2.5 2.5 Sociatary products shipments 32.6 2.0 2.5 2.5 Total value of shipments 32.6 2.0 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	INDUSTRY 2297, NONWOVEN FABRICS			
Value of primary products shipments made in all industries 3 285.3 2 423.5 1 658.8 Value of primary products shipments made in this industry 2 516.6 1 738.7 1 123.6 Coverage ratio 77 72 68 INDUSTRY 2298, CORDACE AND TWINE 500.5 459.4 306.1 Total value of shipments 520.5 459.4 306.1 Secondary products shue of shipments 52.6 29.0 25.2 Total value of shipments 52.6 29.0 25.2 Total value of shipments 52.6 29.0 25.2 Total miscellaneous receipts 56.1 44.3 26.3 Other miscellaneous receipts 56.1 44.3 26.3 Other miscellaneous receipts 65.1 44.3 26.3	Primary products value of shipments Secondary products value of shipments Total miscellaneous receipts Value of resales Contract receipts	2 518.6 173.3 160.0 141.7 9.8	1 738.8 (D) (D) (D) (D)	1 120.2 127.1 31.5 11.2 14.4
Value of primary products shipments made in all industries 3 285.3 2 423.5 1 658.8 Value of primary products shipments made in this industry 2 516.6 1 738.7 1 123.6 Coverage ratio 77 72 68 INDUSTRY 2298, CORDACE AND TWINE 500.5 459.4 306.1 Total value of shipments 520.5 459.4 306.1 Secondary products shue of shipments 52.6 29.0 25.2 Total value of shipments 52.6 29.0 25.2 Total value of shipments 52.6 29.0 25.2 Total miscellaneous receipts 56.1 44.3 26.3 Other miscellaneous receipts 56.1 44.3 26.3 Other miscellaneous receipts 65.1 44.3 26.3	Primary products specialization ratio	94	(D)	90
INDUSTRY 2298, CORDAGE AND TWINE Total value of shipments 672.7 541.1 358.7 Primary products value of shipments 560.5 459.4 306.1 Total value of shipments 560.5 459.4 306.1 Total miscellaneous receipts 56.1 52.7 27.3 Contract receipts 56.1 52.6 27.3 Contract receipts 56.1 54.4 26.3 Contract receipts 60.1 43.4 26.3 Contract receipts 60.1 44.4 26.3 Value of primary products shipments made in all industries 624.9 475.4 336.0 Value of primary products shipments made in other industry 580.5 459.4 306.1 Value of primary products shipments made in this industry 580.5 459.4 306.1 Value of shipments 1795.7 1.452.4 (NA) Primary products value of shipments 79.8 6.1.3 (NA) Primary products value of shipments 79.8 6.1.3 (NA) Other miscellaneous receipts 1	Value of primary products shipments made in all industries Value of primary products shipments made in this industry	2 518.6	1 738.8	1 120.2
Total value of shipments 672.7 541.1 358.7 Primary products value of shipments 32.6 29.0 22.7 Total miscellaneous receipts 32.6 29.0 22.7 Value of primary products value of shipments 32.6 29.0 22.7 Value of primary products shipments 36.1 44.3 26.3 Other miscellaneous receipts 00 .1 .4 36.3 Other miscellaneous receipts 00 .1 .4 .4 Primary products shipments made in all industries .624.9 .475.4 .336.1 Value of primary products shipments made in other industries .44.4 .16.0 .29.9 Value of shipments	Coverage ratio	77	72	68
Primary products value of shipments 580.5 459.4 306.1 Secondary products value of shipments 52.6 22.0 22.5 Total miscellaneous receipts 59.6 52.7 27.5 Value of resales 65.1 44.3 26.3 Other miscellaneous receipts 00 1 .4 Primary products super receipts 00 .1 .4 Primary products shipments made in all industries 624.9 475.4 336.0 Value of primary products shipments made in this industry .580.5 459.4 306.1 Value of primary products shipments made in this industries 624.9 475.4 336.0 Value of primary products shipments made in this industries .44.4 16.0 29.9 Coverage ratio	INDUSTRY 2298, CORDAGE AND TWINE			
Value of primary products shipments made in all industries 624.9 475.4 336.0 Value of primary products shipments made in this industry 580.5 459.4 306.1 Value of primary products shipments made in other industries 44.4 16.0 29.9 Coverage ratio 93 97 91 INDUSTRY 2299, TEXTILE GOODS, N.E.C. 1 795.7 1 452.4 (NA) Secondary products value of shipments 1 795.7 1 452.4 (NA) Ordat miscellaneous receipts 73.8 61.3 (NA) Value of primary products shipments 75.8 99.6 (NA) Value of primary products shipments made in all industries 8 2.3 (NA) Value of primary products shipments made in all industries 95 95 (NA) Value of primary products shipments made in all industries 1 841.8 1 424.5 (NA) Value of primary products shipments made in other industries 2 1 57.2 1 252.1 (NA) Value of primary products shipments made in this industry 1 841.8 1 424.5 (NA) Value of primary products shipments made in this industry 1 573.2 1 252.1 (NA)	Primary products value of shipments Secondary products value of shipments Total miscellaneous receipts Value of resales Contract receipts	580.5 32.6 59.6 56.1 (D)	459.4 29.0 52.7 44.3 8.4	306.1 25.2 27.5 26.3 .8
Value of primary products shipments made in this industry	Primary products specialization ratio	95	94	92
INDUSTRY 2299, TEXTILE GOODS, N.E.C. Total value of shipments 1 795.7 1 452.4 (NA) Primary products value of shipments 1 573.2 1 252.1 (NA) Secondary products value of shipments 79.8 61.3 (NA) Total miscellaneous receipts 79.8 61.3 (NA) Value of resales 75.8 96.8 (NA) Other miscellaneous receipts 58.1 39.9 (NA) Other miscellaneous receipts 8.8 2.3 (NA) Value of primary products shipments made in all industries 95 95 (NA) Value of primary products shipments made in this industry 1 573.2 1 252.1 (NA) Value of primary products shipments made in other industries 2 68.6 172.4 (NA)	Value of primary products shipments made in this industry	580.5	459.4	306.1
Total value of shipments1 795.71 452.4(NA)Primary products value of shipments1 573.21 252.1(NA)Secondary products value of shipments79.861.3(NA)Total miscellaneous receipts142.7139.0(NA)Value of resales75.896.8(NA)Other miscellaneous receipts8.82.3(NA)Primary products specialization ratio9595(NA)Value of primary products shipments made in all industries1 841.81 424.5(NA)Value of primary products shipments made in other industries268.6172.4(NA)	Coverage ratio	93	97	91
Primary products value of shipments 1 573.2 1 252.1 (NA) Secondary products value of shipments 79.8 61.3 (NA) Total miscellaneous receipts 142.7 139.0 (NA) Value of resales 75.8 96.8 (NA) Other miscellaneous receipts 58.1 39.9 (NA) Other miscellaneous receipts 8.8 2.3 (NA) Value of primary products shipments made in all industries 95 95 (NA) Value of primary products shipments made in this industry 1 573.2 1 252.1 (NA) Value of primary products shipments made in other industries 2 68.6 172.4 (NA)	INDUSTRY 2299, TEXTILE GOODS, N.E.C.			
Value of primary products shipments made in all industries1841.81424.5(NA)Value of primary products shipments made in this industry1573.21252.1(NA)Value of primary products shipments made in other industries268.6172.4(NA)	Primary products value of shipments Secondary products value of shipments Total miscellaneous receipts Value of resales Contract receipts	1 573.2 79.8 142.7 75.8 58.1	1 252.1 61.3 139.0 96.8 39.9	(NA) (NA) (NA) (NA) (NA)
Value of primary products shipments made in this industry 1 573.2 1 252.1 (NA) Value of primary products shipments made in other industries 268.6 172.4 (NA)	Primary products specialization ratio			
Coverage ratio 85 88 (NA)	Value of primary products shipments made in this industry	1 573.2	1 252.1	(NA)
	Coverage ratio	85	88	(NA)

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

MANUFACTURES—INDUSTRY SERIES

MISCELLANEOUS TEXTILE GOODS 22E-15

TIPS [UPF] BATCH_450 [EISS,BA_TAYLOR] MCD-SRB 4/27/95 11:36 AM MACHINE: EPCV24 DATA:NONE TAPE: NOreel FRAME: 9 TSF:22E_92.DAT;3 4/27/95 11:34:54 UTF:22E_93.DAT;3 4/27/95 11:34:54 META:TIPS96-11344819.DAT;1 4/27/95 11:35:58

Table 6a. 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]

			1992			1987	
		Number of	Product s	hipments ¹	Number of	Product sl	hipments ¹
Product code	Product	companies with			companies with		
		shipments of		Value	shipments of		Value
		\$100,000 or more	Quantity ²	(million dollars)	\$100,000 or more	Quantity ²	(million dollars)
2295- —	COATED FABRICS, NOT RUBBERIZED						
	Total	(NA)	(X)	1 435.5	(NA)	(X)	1 323.4
22952	Vinyl coated fabrics, including expanded vinyl coated Lightweight fabrics, 10 oz or less per sg yd finished	(NA)	(X)	614.1	(NA)	(X)	699.0
22952 13	weight: Woven fabrics base mil lin yd Knit fabrics base mil lin yd	18	(S) (S)	59.7	14	36.1	59.5
22952 15 22952 17	Nonwoven base mil lin yd Mediumweight fabrics, more than 10 oz up to 16 oz	9 8	(S) 16.5	53.0 62.4	7 3	(S) (S)	26.8 13.9
22952 22 22952 24	per sq yd finished weight: Woven fabrics base mil lin yd Knit fabrics base mil lin yd	16 9	(S) **23.6	91.9	15 8	30.3	85.2
22952 24 22952 26	Nonwoven base mil lin yd Heavyweight fabrics, more than 16 oz per sq yd	8	*25.0	70.1 44.3	8 8	*3.6 *28.6	15.1 51.4
22952 32	finished weight:	10	37.2	138.7	23	*54.6	188.2
22952 34	Woven fabrics base mil lin yd Knit fabrics base mil lin yd Nonwoven base mil lin yd	16 6 9	*9.5	43.0	9	29.3	140.3
22952 36 22952 00	Vinyl coated fabrics, including expanded vinyl coated,		(S)	30.6	10	24.8	94.6
	n.s.k	(NA)	(X)	20.3	(NA)	(X)	24.1
22953 22953 11 22953 15	Other coated or laminated fabrics and coated yarns Pyroxylin coated fabrics mil lin yd Polyurethane coated fabrics mil lin yd Other coated or laminated fabrics, excluding rubber:	(NA) 5 12	(X) 54.3 **26.8	731.4 54.2 87.8	(NA) (NA) 11	(X) (NA) (S)	521.9 39.4 78.9
22953 17	Lightweight fabrics, 10 oz or less per sq yd finished weight mil lin yd	25	148.4	177.6	(NA)	(NA)	277.1
22953 38	Mediumweight fabrics, more than 10 oz up to and including 16 oz per sq yd finished weight mil lin yd	20	(S)	170.2	9	**11.6	35.0
22953 48	Heavyweight fabrics, more than 16 oz per sq yd finished weight mil lin yd	22		180.8	9		42.6
22953 98 22953 00	Coated yarns, all types except rubber mil lin yd Other coated or laminated fabrics and coated yarns, n.s.k.	10 (NA)	(S) 4.3 (X)	55.5	10 (NA)	(S) (S) (X)	39.6 9.3
22950	Coated fabrics, not rubberized, n.s.k.	(NA)	(X)	90.1	(NA)	(X)	102.5
22950 00 22950 02	Coated fabrics, not rubberized, n.s.k. ³ Coated fabrics, not rubberized, n.s.k. ⁴	(NA) (NA)	(X) (X)	68.4 21.6	(NA) (NA)	(X) (X)	47.4 55.0
2296- —	TIRE CORD AND TIRE CORD FABRICS						
	Total	(NA)	(X)	928.0	(NA)	(X)	896.6
22960	Tire cord and tire cord fabrics	(NA)	(X)	928.0	(NA)	(X)	896.6
22960 00 22960 02	Tire cord and tire cord fabricsmil lb_ Tire cord and tire cord fabrics, n.s.k. ⁵	13 (NA)	505.4 (X)	928.0	10 (NA)	*495.9 (X)	^r 896.6 —
2297- —	NONWOVEN FABRICS						
	Total	(NA)	(X)	3 285.3	(NA)	(X)	2 423.5
22971	Nonwoven fabrics	(NA)	(X)	2 471.3	(NA)	(X)	1 847.3
22971 21	Laminated and wet laid: Less than 1 oz per sq yd mil sq yd	12	283.8	61.7	16	(S)	140.1
22971 23 22971 25	1 oz to 2.5 oz per sq ýd mil sq ýd More than 2.5 oz per sq yd mil sq yd	18 21	(S) 196.3	389.8 143.3	12 16	(S) (S) (S)	179.8 103.7
22971 31	Spun bonded, dry laid, and other: Less than 0.8 oz per sq yd mil sq yd	17	5 255.0	357.4	16	*3 984.5	372.3
22971 33 22971 35	0.8 oz to 1.5 oz per sq yd mil sq yd More than 1.5 oz per sq yd mil sq yd	17 31	(S) 1 375.3	800.5 619.7	14 25	4 084.4 660.8	581.9 341.3
22971 00	Nonwoven fabrics, n.s.k.	(NA)	(X)	98.9	(NA)	(X)	128.2
22972 22972 41	Fabricated nonwoven productsBlankets made from nonwoven fabrics1,000	(NA)	(X)	754.5	(NA)	(X)	502.0
	dozen Ribbons, nonwoven for gift tyings:	7	**558.5	112.0	(NA)	(S)	122.4
22972 03 22972 05	Christmas gift tyings mil lin yd	7 9	(S) 60.0	46.3 99.2	8 11	(S) (S)	30.6 73.7
22972 51	Wipers made from nonwoven fabrics (including windshield, industrial, and lithographic)1,000 dozen	19		111 5	4	**354.4	101.4
22972 98	All other fabricated nonwoven products, excluding diapers and orthopedic, prosthetic, and surgical supplies1,000	19	*213.8	111.5	4	304.4	101.4
22972 00	Fabricated nonwoven products, n.s.k.	29 (NA)	(S) (X)	379.7 5.8	18 (NA)	(NA) (X)	173.2 .6
22970	Nonwoven fabrics, n.s.k.	(NA)	(X)	59.5	(NA)	(X)	74.2
22970 00 22970 02	Nonwoven fabrics, n.s.k. ⁶ Nonwoven fabrics, n.s.k. ⁷	(NA) (NA)	(X) (X)	46.0 13.5	(NA) (NA)	(X) (X)	44.2 29.9

See footnotes at end of table.

22E–16 MISCELLANEOUS TEXTILE GOODS

MANUFACTURES-INDUSTRY SERIES

 TIPS [UPF]
 BATCH_450
 [EISS,BA_TAYLOR]
 MCD-SRB
 4/27/95
 11:36 AM
 MACHINE:
 EPCV24
 DATA:NONE
 TAPE:
 NOreel
 FRAME:
 10

 TSF:22E_92.DAT;3
 4/27/95
 11:34:54
 META:TIPS96-11344819.DAT;1
 4/27/95
 11:35:58

Table 6a. 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]

			1992		1987			
		Number of	Product sl	hipments ¹	Number of	Product s	hipments ¹	
Product code	Product	companies – with shipments of \$100,000 or more	Quantity ²	Value (million dollars)	companies with shipments of \$100,000 or more	Quantitv ²	Value (million dollars)	
2298	CORDAGE AND TWINE	of more	Quantity	dollarsy		Quantity	donaraj	
	Total	(NA)	(X)	624.9	(NA)	(X)	475.4	
22981		(NA)	(X) (X)	119.0	(NA)	(X) (X)	95.4	
22981 11	Hard fiber cordage and twine Hard fiber cordage rope and cable (including products of 3 strands or more) each strand composed of 2	. ,	.,					
22981 35	yarns or moremil lb Hard fiber twine (including products laid or twisted,	13	189.9	44.1	(NA)	*44.1	82.4	
22981 00	but not stranded; and twine of hard fiber and paper)mil lb Hard fiber cordage and twine, n.s.k.	3 (NA)	(D) (X)	(D) (D)	4 (NA)	(D) (X)	(D) (D)	
22982	Soft fiber cordage and twine (except cotton) Manmade fiber cordage and twine: Fish line:	(NA)	(X)	356.9	(NA)	(X)	258.7	
22982 01 22982 02	Commercialmil lb Recreationalmil lb	7 5	(S) (D)	5.3 (D)	4 (NA)	(D) (D)	(D) (D)	
22982 03	Fish nets and fish netting: Commercialmil lb	10		20.9	13	6.8	(8)	
22982 05 22982 08	Recreationalmillb_ Rope 3/16 inch diameter and largermillb_	6 31	*3.4 **.5 58.5	2.6 118.2	4	(S) *34.9	3.4 65.5	
22982 14	Industrial and agriculture twine, less than 3/16 inch diametermil lb	13	94.4	86.1	26	148.6	95.6	
22982 19 22982 28	All other manmade fiber cordage and twine mil lb Soft fiber cordage and twine (except cotton and	27	148.6	68.2				
22982 00	manmade, including hemp, jute, and paper)mil lb Soft fiber cordage and twine (except cotton), n.s.k	7 (NA)	(S) (X)	13.2 (D)	8 (NA)	(S) (X)	18.6 (D)	
22983 22983 11	Cotton cordage and twinemine Braided cord, regardless of sizemil lb	(NA)	(X) *6.6	74.0 18.4	(NA)	(X) **7.5	47.8 12.9	
22983 25 22983 98	Wrapping, seine, and other twinemillib	5	3.2	22.6	4	*6.7	9.6	
22983 00	netsmil lbmil lb	10 (NA)	42.8 (X)	18.1 14.9	5 (NA)	(S) (X)	14.2 11.0	
22980		(NA)	(X)	75.0	(NA)		73.5	
22980 00 22980 02	Cordage and twine, n.s.k. Cordage and twine, n.s.k. ³ Cordage and twine, n.s.k. ⁴	(NA) (NA)	(X) (X)	54.1 20.9	(NA) (NA)	(X) (X)	48.8 24.7	
2299	TEXTILE GOODS, N.E.C.							
00004	Total	(NA)	(X)	1 841.8	(NA)	(X)	1 424.5	
22991 22991 11	Pressed, punched, or needled felts, except hatsmil lb_ Pressed feltsmil lb_ Punched or needled felts (including stitch bonded):	(NA) 13	(X) *6.8	635.9 136.4	(NA) (NA)	(X) (NA)	428.2 102.4	
22991 35	Hair and/ or jute felts, including carpet and rug linings and cushions mil sq yd	11	**23.8	97.0	6	*28.9	33.5	
22991 47	Wool felts and manmade fiber felts, excluding carpet and rug suitable for outdoor use (indoor/							
22991 00	outdoor)mil Ib Pressed, punched, or needled felts, except hats, n.s.k.	34 (NA)	*301.8 (X)	400.2	17 (NA)	(S) (X)	285.0 7.3	
22994	Recovered fibers, processed mill waste and related							
00004.44	Fibers recovered from mill waste:	(NA)	(X)	292.6	(NA)	(X)	188.4	
22994 11 22994 13 22994 41	Manmade fibersmil Ib	23 13	*530.0 *127.4	134.8 50.1	(NA) (NA)	304.9 (D)	95.0 (D)	
22994 41	fiber)milers (new stock, waste, or reclaimedmiler	13	**163.0	91.3	10	(S)	37.2	
	products, n.s.k.	(NA)	(X)	16.4	(NA)	(X)	(D)	
22995	Paddings and upholstery filling, batting, and wadding (excluding foam rubber and plastics)	(NA)	(X)	534.4	(NA)	(X)	433.9	
22995 17 22995 19	Automotive padsmil Ib All other paddingsmil Ib Batting, wadding, and mattress felts:	10 22	(S) *44.7	81.4 81.2	13 17	(S)	147.9 66.1	
22995 32	Made from cotton linters, cotton waste, and raw cottonmil lb	29	(D)	(D)	27	*133.5	58.3	
22995 33 22995 35	Made from manmade fibersmil Ib Made from all other fibersmil Ib	33 7	17Ò.9 (D)	141.8 (D)		*110.9	105.1	
22995 57 22995 00	Upholstery fillingmil lb Paddings and upholstery filling, batting, and wadding	14	*73.3	77.0	6	23.9	23.3	
22006	(excluding foam rubber and plastics), n.s.k.	(NA) (NA)	(X)	38.8 174.7	(NA)	(X)	33.2 217.7	
22996	Jute goods and scouling and combing mill products Jute goods (except jute felts, cordage, and twine) and linen goods:	(NA)	(X)	174.7	(NA)	(X)	217.7	
22996 01	Jute yarn, bagging, and all other jute woven goods (except felt, cordage, or twine)	3	(X)	(D)	4	(X)	(D)	
	Linen thread, fabrics, and other linen goods, except	9	(X)	106.4	1	(X)	(D)	
22996 03	cordage or twine	0.		1	İ. İ.		(-)	
22996 03 22996 10	cordage or twine Scouring and combing mill products: Tops and noils. including top or sliver converted	_						
	cordage or twine	4	1.0	31.4	14	(S)	162.0	
22996 10	cordage or twine	4 5	16.4	29.4	10	*41.6	162.0 51.3	
22996 10 22996 11	cordage or twine	4						

See footnotes at end of table.

MANUFACTURES-INDUSTRY SERIES

MISCELLANEOUS TEXTILE GOODS 22E-17

TIPS [UPF] BATCH_450 [EISS,BA_TAYLOR] MCD-SRB 4/27/95 11:36 AM MACHINE: EPCV24 DATA:NONE TAPE: NOreel FRAME: 11 TSF:22E_92.DAT;3 4/27/95 11:34:54 UTF:22E_93.DAT;3 4/27/95 11:34:54 META:TIPS96-11344819.DAT;1 4/27/95 11:35:58

Table 6a. Product and Product Classes-Quantity and Value of Shipments by All Producers: 1992 and 1987-Con.

¹Data reported by all producers, not just those with shipments of \$100,000 or more. ²For some establishments, data have been estimated from central unit values which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: *10 to 19 percent estimated; **20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S). ³Typically for establishments with 5 employees or more. ⁴Typically for establishments with 5 employees. ⁵There were no administrative-record cases for this industry. ⁶Twpically for establishments with 10 employees or more.

⁶Typically for establishments with 10 employees or more. ⁷Typically for establishments with less than 10 employees.

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
22952, VINYL COATED FABRICS, INCLUDING EXPANDED VINYL COATED			22982, SOFT FIBER CORDAGE AND TWINE (EXCEPT COTTON)—Con.		
United States	614.1	699.0	Pennsylvania	23.2	14.6
Indiana	5.9	(NA)	Washington	38.5	24.2
Massachusetts	89.3	77.8			
New Jersey	37.1	29.2	22983, COTTON CORDAGE AND TWINE		
New York	6.6	17.3			
North Carolina	71.9	50.1	United States	74.0	47.8
Ohio	102.3	136.1	Alabama	7.5	5.4
Tennessee	32.4	27.8	North Carolina	35.9	10.5
22953, OTHER COATED OR LAMINATED FABRICS AND COATED YARNS			22991, PRESSED, PUNCHED, OR NEEDLED	4.6	(NA)
United States	731.4	521.9	FELTS, EXCEPT HATS		
California	102.6	(NA) (NA)	United States	635.9	428.2
Georgia	3.0	(NA) (NA)	California	7.6	(NA)
Massachusetts	104.7	(NA)	Georgia	52.5	(NA)
New York	64.7	(NA)	Illinois	6.7	(NA)
North Carolina	55.6	(NA)	Massachusetts	84.7	81.0
Ohio	64.6	(NA)	New York	58.9	55.1
Pennsylvania	29.3	(NA)	North CarolinaSouth Carolina	33.5 143.8	(NA) 128.2
22971, NONWOVEN FABRICS				143.0	120.2
United States	2 471.3	1 847.3	22994, RECOVERED FIBERS, PROCESSED MILL WASTE AND RELATED PRODUCTS		
Georgia	142.9	99.7			
New Hampshire	10.2	(NA)	United States	292.6	188.4
New Jersey	62.9	51.5	Georgia	22.1	(NA)
New York	49.3	32.9	Massachusetts	43.0	(NA)
North Carolina	370.9	269.5	New York	15.0	(NA)
South Carolina	334.7	216.3	North Carolina	19.2	12.6
TennesseeWisconsin	406.9 91.8	(NA) (NA)	South Carolina	96.4	68.4
22972, FABRICATED NONWOVEN PRODUCTS United States	754.5	502.0	22995, PADDINGS AND UPHOLSTERY FILLING, BATTING, AND WADDING (EXCLUDING FOAM RUBBER AND PLASTICS)		
Mississippi	19.4	(NA)	,		
New York	48.2	17.6	United States	534.4	433.9
North Carolina	132.6	120.9	California	45.3	51.5
			Georgia	18.4	13.9
22981, HARD FIBER CORDAGE AND TWINE			Illinois	4.1	(NA)
-			Indiana	22.6	18.6
United States	119.0	95.4	Massachusetts	37.9	13.2
North Carolina	25.7	(NA)	Mississippi New York	28.1 41.5	(NA) 24.2
22982, SOFT FIBER CORDAGE AND TWINE (EXCEPT COTTON)			North Carolina South Carolina Tennessee	41.5 78.3 31.6 62.5	24.2 71.7 (NA) (NA)
United States	356.9	258.7	Texas	8.4	3.4
Alabama	28.8	(NA)	MARCHITE COOPS AND COURSE AND		
California	22.9	8.4	22996, JUTE GOODS AND SCOURING AND		
Georgia	17.4	(NA)	COMBING MILL PRODUCTS		
Massachusetts	13.8	13.1	United States	4	
Michigan	5.1	(NA)	United States	174.7	217.7
New York	9.3 23.8	(NA) 30.8	South Carolina	32.4	43.1
North Carolina	23.8	30.8	South Carolina	32.4	43.1

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

22E–18 MISCELLANEOUS TEXTILE GOODS

MANUFACTURES-INDUSTRY SERIES

TIPS [UPF] BATCH_450 [EISS,BA_TAYLOR] MCD-SRB 4/27/95 11:36 AM MACHINE: EPCV24 DATA:NONE TAPE: NOreel FRAME: 12 TSF:22E_92.DAT;3 4/27/95 11:34:54 UTF:22E_93.DAT;3 4/27/95 11:34:54 META:TIPS96-11344819.DAT;1 4/27/95 11:35:58

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
2295-	Coated fabrics, not rubberized	1 435.5	1 401.5	1 470.7	1 557.0	1 452.2	1 323.4	1 069.3	987.0
22952		614.1	647.3	740.4	821.8	764.8	699.0	628.5	680.4
22953		731.4	644.5	609.9	619.9	578.5	521.9	376.5	258.3
22950		90.1	109.6	120.5	115.3	108.9	102.5	64.3	48.3
2296-	Tire cord and tire cord fabrics	928.0	961.5	921.4	979.1	860.3	896.6	892.2	919.8
22960	Tire cord and tire cord fabrics	928.0	961.5	921.4	979.1	860.3	896.6	892.2	919.8
2297-	Nonwoven fabrics	3 285.3	3 376.5	3 341.2	3 212.7	2 954.7	2 423.5	1 658.8	1 095.1
22971		2 471.3	2 513.5	2 418.7	2 285.3	2 151.8	1 847.3	1 263.0	782.4
22972		754.5	786.6	848.3	854.8	730.2	502.0	360.4	260.8
22970		59.5	76.3	74.2	72.6	72.7	74.2	35.4	51.9
2298-	Cordage and twine	624.9	566.3	575.8	591.3	488.7	475.4	336.0	291.6
22981	Hard fiber cordage and twine	119.0	153.2	177.6	148.4	96.5	95.4	58.3	42.5
22982	Soft fiber cordage and twine (except cotton)	356.9	261.8	249.7	281.5	271.8	258.7	228.1	183.8
22983	Cotton cordage and twine	74.0	80.8	72.6	88.5	48.2	47.8	21.8	47.6
22980	Cordage and twine, n.s.k.	75.0	70.6	75.9	73.0	72.3	73.5	27.8	17.7
2299- 22991 22994 22995	Textile goods, n.e.c. Pressed, punched, or needled felts, except hats Recovered fibers, processed mill waste and related products Paddings and upholstery filling, batting, and wadding (excluding	1 841.8 635.9 292.6	1 593.3 546.5 183.5	1 681.7 564.7 207.6	1 677.8 529.4 210.2	1 426.0 445.2 195.3	1 424.5 428.2 188.4	1 145.7 261.9 186.7	891.7 186.2 164.2
22996 22990	foam rubber and plastics) Jute goods and scouring and combing mill products Textile goods, n.e.c., n.s.k.	534.4 174.7 204.1	512.2 169.9 181.2	481.7 283.9 143.8	492.9 275.0 170.3	417.7 205.4 162.4	433.9 217.7 156.3	283.8 220.1 177.4	260.5 134.3 146.5

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

Table 7. Materials Consumed by Kind: 1992 and 1987

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

Material code 282014 228015 220234 220241 262104 289147		1992		1987		
	Material	Quantity ¹	Delivered cost (million dollars)	Quantity ¹	Delivered cost (million dollars)	
	INDUSTRY 2295, COATED FABRICS, NOT RUBBERIZED					
	Materials, ingredients, containers, and supplies	(X)	847.4	(X)	'800.8	
	Manmade fibers, staple, and towmil lb Yarn, all fibersmil lb	*61.3 21.0	27.5 35.6	*54.0 27.3	54.9 40.2	
220241 262104	Fabrics: mill in yd Cotton mill in yd Manmade fiber, including glass mill in yd Paper (cellulosic wadding) mill in yd Paper (cellulosic wadding) mill ib Pataticizers mill b Vinyl and vinyl copolymer resins, all forms mill b Plastics resins (except vinyl) consumed in the form of granules, pellets, powders, liquids, etc. mill b Plastics products consumed in the form of sheets, rods, tubes, and other shapes mill b Additives (fire retardants, water repellants, softeners, and antistatics, etc.) mill b All other materials and components, parts, containers, and supplies. mill supplies. Materials, ingredients, containers, and supplies, n.s.k. ² mill supplies. INDUSTRY 2296, TIRE CORD AND FABRICS mill supplies	(S) 222.6 (S) **666 **123.2 *50.8 (X) (X) (X) (X) (X)	68.8 201.3 11.8 25.6 39.1 56.5 53.9 28.0 8.1 177.5 113.6	**83.0 *129.7 (S) 72.0 115.0 **140.0 (X) (X) (X) (X)	71.8 132.9 11.1 18.9 42.7 60.6 72.8 20.4 8.8 118.4 '147.3	
	Materials, ingredients, containers, and supplies	(X)	554.3	(X)	[,] 579.0	
013101 020001 229963	Raw fibers: Raw cotton1,000 bales Raw wool, mohair, and other animal fibers (scoured weight)mil lb Wool topsmil lb	(D) 	(D) 	(D) (NA) (NA)	(3) (3) (3)	
282305 282413 282425 282428 010014	Staple and tow: mill b. Rayon and acetate	(D) (D) 90.7 (D)	(D) (D) 100.1 (D)	(NA) (NA) (NA) (NA) (NA)	(3) (3) (3) (3) (3)	
282301 282411 282423 282407 322935 228101 220211 280031 970099 971000	Filament yarns: mil b Nylon filament yarns mil b Polyester filament yarn, except glass mil b All other filament yarn, except glass mil b Glass filament yarn, except glass mil b Spun yarn, all fibers mil b Spun yarn, all fibers mil b Dyes, lakes, and toners mil sq yd All other materials and components, parts, containers, and supplies Materials, ingredients, containers, and supplies, n.s.k. ² forders and of the file	3.5 49.7 82.5 (D) 1.5 (D) (X) (X) (X) (X)	5.9 61.5 110.7 (D) 2.2 (D) (D) 44.4 (D)	(D) *216.9 *119.2 16.3 4.7 (NA) (NA) (X) (X) (X)	(3) 342.2 161.4 32.7 6.9 (3) (3) (3) (3) (3) (3) (3) (3) (3) (3)	

See footnotes at end of table.

MANUFACTURES-INDUSTRY SERIES

MISCELLANEOUS TEXTILE GOODS 22E-19

TIPS [UPF] BATCH_450 [EISS,BA_TAYLOR] MCD-SRB 4/27/95 11:36 AM MACHINE: EPCV24 DATA:NONE TAPE: NOreel FRAME: 13 TSF:22E_92.DAT;3 4/27/95 11:34:54 UTF:22E_93.DAT;3 4/27/95 11:34:54 META:TIPS96-11344819.DAT;1 4/27/95 11:35:58

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

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

Material code		19	92	1987	
	Material	Quantity ¹	Delivered cost (million dollars)	Quantity ¹	Delivered cos (million dollars)
	INDUSTRY 2297, NONWOVEN FABRICS				
	Materials, ingredients, containers, and supplies	(X)	1 317.6	(X)	⁻ 953.8
013101 190019	Raw cotton1,000 bales Cotton wastemil lb	(D)	(D)	(NA) (NA)	(3 (3
207431 020001 999823	Cotton linters (net weight)mil lb Raw wool, mohair, and other animal fibers (scoured weight)mil lb Wool noils and wastemil lb	(D) (D) (D)	(D) (D) (D) (D)	(NA) (NA) (NA)	(3) (3) (3) (3)
282303	Textile fibers (manmade): Cellulosic (rayon and acetate)mil lb	*67.1	70.8	71.8	57.8
282403 228015 220100	Noncellulosic (polyester, nylon, etc.)mil b Yarn, all fibersmil b Textile fabricsmil lin yd	**352.4 **40.0 (S)	262.3 89.8 47.9	298.4 **8.0 *66.6	241.2 10.7 35.6
264926 289147	Paper (cellulosic wadding)mil b. Adhesives and binders (resins)mil b.	*59.8 *83.7	47.2 55.2	(S) *76.2	55.2 67.0
280010	Additives (fire retardants, water repellants, softeners, and antistatics, etc.)	(X)	28.8	(X)	18.1
999825 282137	New and used rags, clips, etcmil lbmil lbmil lbmil lbmil lbmil lbmil lb	(D) (S)	(D) 16.7	(S) *22.7	10.5 14.9
282109 265001	Plastics resins (except vinyl) consumed in the form of granules, pellets, powders, liquids, etc	**516.0	243.3 22.8	**213.8	118.4 (3)
970099	All other materials and components, parts, containers, and supplies	(X) (X)	336.3	(X) (X)	(³) ³ 268.3
971000	Materials, ingredients, containers, and supplies, n.s.k. ²	(X)	59.2	(X)	'56.1
	INDUSTRY 2298, CORDAGE AND TWINE				
	Materials, ingredients, containers, and supplies	(X)	263.3	(X)	210.9
282014 228015	Manmade fibers, staple, and towmil lb Yarn, all fibersmil lb	25.9 *64.4	37.7 80.4	*21.4 (NA)	24.8 (³)
220234	Fabrics: Cotton mil lin yd	(D)	(D)	(NA)	(3)
220241 262104	Manmade fiber, including glass mil lin yd_ Paper (cellulosic wadding) mil lb Adhesives and binders (resins) mil lb	(D) (S) (S) (D) (D)	2.8 3.5	(NA) (NA)	(3 (3 (3 (1) (3) (3) (3)
289147	Adhesives and binders (resins)mil b Plasticizersmil b Vinyl and vinyl copolymer resins, all formsmil bmil b	(D) (D)	(D) (D) (D)	(S) (NA)	(3
282137 282109	Vinyi and vinyi copolymer resins, all tormsmillio Plastics resins (except vinyi) consumed in the form of granules, pellets, powders, liquids, etcmillio	(D) 122.8	(D) 40.9	(NA) (NA)	(3
308007	Plastics products consumed in the form of sheets, rods, tubes, and other shapes	(X)	(D)	(INA) (X)	(3
280010	Additives (fire retardants, water repellants, softeners, and antistatics, etc.)	(X) (X)	2.8	(X) (X)	3.2
970099	All other materials and components, parts, containers, and supplies	. ,	46.9	(X) (X)	³ 139.0
971000	Materials, ingredients, containers, and supplies, n.s.k. ²	(X) (X)	42.4	(X)	43.9
	INDUSTRY 2299, TEXTILE GOODS, N.E.C.				
	Materials, ingredients, containers, and supplies	(X)	740.5	(X)	608.0
013101 190019	Raw cotton 1,000 bales Cotton waste mil lb	39.7 *170.6	7.0 20.1	(S)	11.6 17.4
207431	Cotton linters (net weight)mil lb_ Raw wool, mohair, and other animal fibers (scoured weight)mil lb_	**22.2 8.8	4.3 23.8	(S) (S) (S) (S) (S)	12.8
999823	Wool noils and wastemill lb	19.4	8.5	(Š)	25.6
282303	Textile fibers (manmade): Cellulosic (rayon and acetate)mill b	*6.9	15.2	(S) (S)	5.9
282403 228015 220100	Noncellulosic (polyester, nylon, etc.)mil b Yarn, all fibersmil b Textile fabricsmil lin yd	490.6 *45.7	213.0 40.2	(S) (NA) (NA)	182.5 (³ (³ (³
20100 264926 289147	Paper (cellulosic wadding)	(S) (D) **69.3	11.4 (D) 22.3	(NA) (NA) (S)	(³ 14.0
80010	Additives (fire retardants, water repellants, softeners, and antistatics, etc.)	(X)	6.7	(3) (X)	9.0
999825 282137	New and used rags, clips, etcmil lb Vinyl and vinyl copolymer resins, all formsmil ibmil lbmil lbmil lbmil lbmil lbmil lb	138.5 (S)	24.1 4.9	(S) 1.8	23.6
282137	Plastics resins (except vinvl) consumed in the form of	(S) (D)	4.9 (D)		3. 8.6
265001 170099	granules, pellets, powders', liquids, etc	(X)	8 .Ó	(S) (NA)	(3)
971000	supplies Materials, ingredients, containers, and supplies, n.s.k. ²	(X) (X)	151.0 168.8	(X) (X)	³ 128.3 123.3

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). ²Total cost of materials of establishments that did not report detailed materials data, including establishments that were not mailed a form. ³For 1987, data for material codes 013101 and 282301 are combined with material code 970099 to avoid disclosing data of individual companies; data for material codes 020001, 229963, 282305, 282413, 282425, 282428, 010014, 228101, 220211, 280031, 190019, 207431, 013101 and 999823 were not collected separately in 1987 and are included with 970099.

22E–20 MISCELLANEOUS TEXTILE GOODS

MANUFACTURES-INDUSTRY SERIES

TIPS [UPF] BATCH_450 [EISS,BA_TAYLOR] MCD-SRB 4/27/95 11:36 AM MACHINE: EPCV24 DATA:NONE TAPE: NOreel FRAME: 14 TSF:22E_92.DAT;3 4/27/95 11:34:54 UTF:22E_93.DAT;3 4/27/95 11:34:54 META:TIPS96-11344819.DAT;1 4/27/95 11:35:58

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 linesupervisor 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.

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.

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

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 companyowned assets was to be reported as assets of the establishment at the end of the year.

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

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 geographicallybased 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:

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

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 singleestablishment 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-toyear 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 singleestablishment 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 baseyear 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, completecoverage 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, completecoverage 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 completecoverage 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**

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 05 2211F 07	2211F 00			22525 01	22525 15 22525 17 22525 17 22525 11	22628 23	22628 00
211E 05	2211F 00			22525 01	22525 17	22628 25	22628 00
	2211F 00	22317	22315	22525 03	22323 17	22628 27	22628 00
211F 07	2211F 00	22317 22317 91	22315 91	22525 03	22525 11	22028 27	22628 00
211F 09	2211F 00	22317 92	22315 22315 91 22315 92	22525 03	22525 15	22628 29	22628 00
211F 11	2211F 00	22317 93	22315 93	22525 03	22525 17	22628 31	22628 00
211F 13 211F 15	2211F 00	22317 33	22313 33	22525 13	22525 11		
211F 15	2211F 00			22525 13	22525 17	22629 01	22629 00
211F 19	2211F 00	22319 01	22319 25			22629 01 22629 03 22629 05 22629 07 22629 11 22629 13 22629 15 22629 19 22629 19	22629 00 22629 00
211F 23	2211F 00	22319 01	22319 23	2253D 01 2253D 01	2253D 11	22629 05	22629 00 22629 00 22629 00 22629 00
20	22111 00	22319 01	22319 27 22319 29	2253D 01	2253D 11 2253D 13	22620 07	22629 00
	00441140	22319 01	22319 29	2253D 01	22530 15	22023 07	22620 00
211H 01	2211H 42	22319 01	22319 31	2253D 01	2203D 10	22029 11	22629 00
211H 01	2211H 73	22319 03	22319 25	2253D 01	2253D 16	22629 13	22629 00
211H 01 211H 01	2211H 75	22319 03	22319 27 22319 29	2253D 01 2253D 05	2253D 19	22629 15	22629 00
211H 03	2211H 37	22319 03	22319 29	2253D 05	2253D 33	22629 19	22629 00
211H 03	2211H 43	22319 03	22319 31	2253D 05	2253D 15 2253D 16 2253D 16 2253D 19 2253D 33 2253D 38	22629 23 22629 25	22629 00 22629 00 22629 00 22629 00
211H 03	2211H 44	22010 00	22010 01	2253D 09	2253D 62	22629 25	22629 00
211H 03	2211H 46					22629 27 22629 29	22629 00
211H 03	22110 40	22444 02	22444 04	22544	22542	22620 20	22629 00
11H 03	2211H 62	22411 03	22411 01	22544	22542	22629 31	22629 00
211H 03	2211H 65	22411 03 22411 05 22411 07	22411 01			22029 31	22629 00
211H 03	2211H 67	22411 07	22411 01	22544	22543		
211H 03	2211H 69	22411 11	22411 31	-		22812 15 22812 15	22812 51
		22411 13	22411 31	22544 11	22542 00	22812 15	22812 61
221J 01	2221 00	22411 14	22411 31	22544 11	22542 00	22812 15	22812 71
2213 01	2221J 00 2221J 00	22411 15	22411 31	22544 13	22543 00		
2213 03	22213 00	22411 15	22411 31			22952	22951
221J 05	2221J 00	22411 10		22617 01 22617 03 22617 05 22617 07 22617 09	22617 00	22352	22331
221J 07	2221J 00	22411 19	22411 31	22617 03	22617 00	00050 44	22054 44
221J 11	2221J 00			22617 05	22617 00	22953 11	22951 11
221J 03 221J 05 221J 05 221J 07 221J 11 221J 13	2221J 00			22017 03	22617 00	22953 11	22951 15
221J 15	2221J 00	22414 01	22414 00	22017 07	22017 00	22953 11	22951 19
221J 19	2221J 00	22414 03	22414 00	22617 09	22617 00	22953 11 22953 11 22953 11 22953 11 22953 17	22953 22
221J 23	2221J 00	22414 05	22414 00		22617 00	22953 17	22953 24
221323	22213 00			22617 13	22617 00	22953 17	22953 26
221J 25	2221J 00			22617 15	22617 00	22000 11	22000 20
221J 27	2221J 00	22514 13	22514 21	22617 19	22617 00	22072 44	22972 43
221J 29	2221J 00	22514 13	22514 37 22514 39	22617 23	22617 00	22972 41 22972 41	22972 43
221J 31	2221J 00	22514 13	22514 20	22011 20	22011 00	22972 41	22972 45
		22014 10	22314 33	00010.01	00010 00	22972 41	22972 48
221M 01	2221M 21	22314 13	22514 45	22619 01	22619 00		
21110 01	2221M 21 2221M 71	22514 13 22514 13 22514 13 22514 13 22514 13 22514 15 22514 15 22514 15	22514 21	22619 01 22619 03 22619 05 22619 07 22619 09	22619 00 22619 00 22619 00	22981 11	22981 18
221M 01 221M 01		22514 15	22514 37	22619 05	22619 00	22981 11	22981 29
2211ML01	2221M 77	22514 15	22514 39	22619 07	22610.00		
221M 03	2221M 23		22514 45	22619 09	22619 00 22619 00 22619 00 22619 00 22619 00 22619 00 22619 00	22982 14	22982 15
221M 03	2221M 25	22514 19	22514 21	22619 11	22619 00	22982 14	22982 15
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221M 03	2221M 33	22514 19	22514 39	22619 13	22019 00		
221M 03	2221M 41	22314 13	22314 33	22019 15	22019 00	22991 11	22991 12
221M 03	222111 41			22619 19	22619 00	22991 11	22991 13
2111/1 03	2221M 42 2221M 43 2221M 47	2251/ 10	22514 45	22619 23	22619 00	22991 11 22991 11 22991 11 22991 11 22991 11	22991 15
21M 03	2221IVI 43	22514 19 22514 23 22514 23	22514 45			22991 11	22991 17
21M 03	2221M 47	22014 20	22014 21	22628.01	22628.00	22991 11	22991 21
		22514 23	22514 37	22628 03	22628 00	22991 11	22991 23
316	22313	22514 23	22514 39	22020 03	22020 00	2299111	22991 23
	22010	22514 23	22514 45	22628 05	22628 00	000000000	00004.04
040	00011			22628 07	22628 00	22994 11	22994 31
2316	22314			22628 01 22628 03 22628 05 22628 07 22628 11	22628 00	22994 11	22994 31 22994 35
		22516 15	22516 18	22628 13	22628 00 22628 00 22628 00 22628 00 22628 00 22628 00 22628 00	22994 11 22994 11 22994 13	22994 22
2316 00	22313 00	22516 17	22516 18	22628 15	22628 00	22994 13	22994 39

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

MANUFACTURES-INDUSTRY SERIES

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2211F 00	2211F 07 2211F 09	22315 93	22317 93	22525 17	22525 13	22629 00	22629 03
2211F 00 2211F 00	2211F 09					22629 00 22629 00	22629 03 22629 05 22629 07
2211F 00 2211F 00	2211F 11 2211F 13 2211F 15 2211F 19	22319 25	22319 01	2253D 11	2253D 01 2253D 01 2253D 01 2253D 01 2253D 01 2253D 01 2253D 05	22629 00	22629 07
2211F 00	2211F 13	22319 25	22319 03	2253D 11 2253D 13 2253D 15 2253D 16 2253D 19 2253D 19 2253D 33	2253D 01	22629 00	22629 11 22629 13 22629 15 22629 19 22629 23 22629 25 22629 27 22629 27
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
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		22319 29	22319 03	2253D 33	2253D 05	22629 00	22620 23
2211H 37	2211H 03	22319 31	22319 01	2253D 38	2253D 05	22629 00	22620 25
2211H 42	2211H 01	22319 31	22319 03	2253D 62	2253D 09	22029 00	22029 23
2211H 43	2211H 03	22010 01	22010 00	22002 02	22002 00	22029 00	22629 29
2211H 44	2211H 03	22411 01	22411 03	22542	22544	22629 00	22629 29
2211H 46	2211H 03	22411 01	22411 05	22542 00	22544 11	22629 00	22029 31
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2211H 65	2211H 03 2211H 03	22411 31	22411 07 22411 11	22543	22544	22812 51	22812 15
2211H 65 2211H 67	2211H 03 2211H 03	22411 31	22411 11		22544 13	22812 61	22812 15
221111 07	2211H 03 2211H 03	22411 31	22411 13 22411 14	22543 00	22544 13	22812 51 22812 61 22812 71	22812 15
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2211H 75	2211H 01	22411 31	22411 16	22617 00	22617 03	22331	22332
		22411 31	22411 19	22617 00	22617 05		
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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 00 2221J 00	2221J 11			22617 00	22617 15	22053 22	22953 17
2221J 00	2221J 13	22514 21	22514 13	22617 00	22617 19	22953 22 22953 24 22953 26	22953 17
2221J 00	2221J 15	22514 21	22514 15	22617 00	22617 23	22053 26	22953 17
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2221J 00	2221J 23	22514 21	22514 23	22619 00	22619 01		
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2221M 25	2221M 03	22314 39	22314 19	22619 00	22619 19		
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222111/1 27	222110103	22514 45	22514 13	22619 00	22019 23	22982 15	22982 19
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2221M 42	2221M 03	22514 45	22514 19	22628 00	22628 03	22991 12 22991 13 22991 15 22991 17 22991 21	22991 11
2221M 43	2221M 03	22014 40	22017 20	22628 00	22628 05	22001 15	22991 11
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				22628 00	22628 15	22991 23	22991 11
22313	22316	22525 11	22525 01	22628 00	22628 19		
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		22525 11	22525 13	22628 00	22628 25	22994 31	22994 11
22314	22316	22525 15	22525 01	22628 00	22628 27	22994 35	22994 11
22314 00	22316 00	22525 15	22525 03	22628 00	22628 29	22994 39	22994 13

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

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.