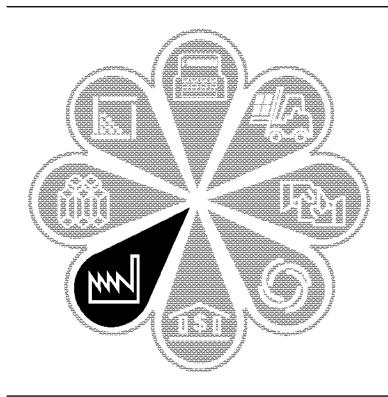
1992 Census of Manufactures

MC92-I-39D

INDUSTRY SERIES

Miscellaneous Manufactures

Industries 3991, 3993, 3995, 3996, and 3999



1992 Census of Manufactures

MC92-I-39D

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U.S. Department of Commerce Ronald H. Brown, Secretary David J. Barram, Deputy Secretary

Economics and Statistics Administration Everett M. Ehrlich, Under Secretary for Economic Affairs

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Manufacturing and Construction Division prepared this report. **David W. Cartwright**, Assistant Chief for Census and Related Programs, was responsible for the overall planning, management, and coordination of the census of manufactures. Planning and implementation were under the direction of **Bruce M. Goldhirsch**, Chief, Electrical and Transportation Branch, assisted by **Raphael S. Corrado**, Section Chief, with primary staff assistance by **Dennis Gosier**.

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

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If you have any questions concerning the statistics in this report, call 301-457-4817.



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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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SIC's 33-35 (exc. 357)	Kenneth Hansen	301-457-4755		
SIC's 357, 36-39	Bruce Goldhirsch	301-457-4817		
Import/ export publications	Foreign Trade Division	301-457-3041		
Industry analysis and forecasting	International Trade Administration	202-377-4356		

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

[For explanation of terms, see appendixes]

			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 Manufactures

[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	X 3

TABLES

Industry Statistics

1a. 1b. 2. 3a. 3b. 3c. 4. 5a.	Historical Statistics for the Industry: 1992 and Earlier Years Selected Operating Ratios for the Industry: 1992 and Earlier Years Industry Statistics for Selected States: 1992 and 1987 Summary Statistics for the Industry: 1992 Gross Book Value of Depreciable Assets, Capital Expenditures, Retirements, Depreciation, and Rental Payments: 1992 Supplemental Industry Statistics Based on Sample Estimates: 1992 Industry Statistics by Employment Size of Establishment: 1992 Industry Statistics by Industry and Primary Product Class Specialization: 1992	7 8 9 12 13 13 13
Produ	uct Statistics	
5b. 6a. 6b. 6c.	Industry–Product Analysis–Value of Industry and Primary Product Shipments; Specialization and Coverage Ratios: 1992 and Earlier Census Years Product and Product Classes–Quantity and Value of Shipments by All Producers: 1992 and 1987 Product Classes–Value of Shipments by All Producers for Specified States: 1992 and 1987 Historical Statistics for Product Classes–Value Shipped by All Producers: 1992 and Earlier Years.	15 17 20 21
Mater	ial Statistics	
7.	Materials Consumed by Kind: 1992 and 1987	22

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	cation Program Inside back of	cover

MANUFACTURES-INDUSTRY SERIES

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

- 3991 Brooms and Brushes
- 3993 Signs and Advertising Specialties
- 3995 Burial Caskets
- 3996 Hard Surface Floor Coverings, N.E.C.
- 3999 Manufacturing Industries, 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 3991, BROOMS AND BRUSHES

This industry is made up of establishments primarily engaged in manufacturing household, industrial, and street sweeping brooms and brushes, such as paintbrushes, toothbrushes, toilet brushes, and household and industrial brushes.

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 3991, Brooms and Brushes, had employment of 12.6 thousand. The employment figure was 2 percent above the 12.3 thousand reported in 1987. Compared with 1991, employment decreased 10 percent. The 1991 data are based on the Census Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses.

The leading States in employment in 1992 were Illinois, New York, Ohio, and Wisconsin. This represents a shift from 1987 when Ohio, New York, Illinois, and Massachusetts were the leading States.

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

Establishments in virtually all industries ship secondary products as well as products primary to the industry in which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 3991 shipped \$1.1 billion of brooms and brushes considered primary to the industry, \$86.0 million of secondary products, and had \$90.2 million of miscellaneous receipts, resales, and contract work. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in this industry was 93 percent (specialization ratio). In 1987, the specialization ratio was 88 percent.

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

The products primary to industry 3991, no matter in what industry they were produced, appear in table 6a and aggregate to \$1.2 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 brooms

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.

and brushes industry amounted to \$539.5 million. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with less than 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 5 percent of the total value of shipments.

INDUSTRY 3993, SIGNS AND ADVERTISING SPECIALTIES

This industry is made up of establishments primarily engaged in manufacturing electrical, mechanical, cutout, or plate signs and advertising displays, including neon signs, and advertising specialties. Sign painting shops doing business on a custom basis are classified in services, industry 7389. Establishments primarily engaged in manufacturing electric signal equipment are classified in industry 3669, and those manufacturing commercial lighting fixtures are classified in industry 3646.

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 3993, Signs and Advertising Specialties, had employment of 67.5 thousand. The employment figure was 2 percent above the 66.3 thousand reported in 1987.

The leading States in employment in 1992 were California, New York, Illinois, and Ohio, accounting for approximately 33 percent of the industry's employment. This represents a shift from 1987 when New York, Illinois, Texas, and California were the leading States.

The total value of shipments for establishments classified in this industry was \$5.4 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 3993 shipped \$4.8 billion of signs and advertising specialties considered primary to the industry, \$120.9 million of secondary products, and had \$514.9 million of miscellaneous receipts, resales, and contract work. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in this industry was 98 percent (specialization ratio). In 1987, the specialization ratio was 96 percent.

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

The products primary to industry 3993, no matter in what industry they were produced, appear in table 6a and aggregate to \$4.9 billion. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and energy used by establishments classified in the signs and advertising specialties industry amounted to \$2.3 billion. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with less than 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 13 percent of the total value of shipments.

INDUSTRY 3995, BURIAL CASKETS

This industry is made up of establishments primarily engaged in manufacturing burial caskets and cases, including shipping cases, of wood or other materials except concrete.

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 3995, Burial Caskets, had employment of 7.8 thousand. The employment figure was 10 percent below the 8.7 thousand reported in 1987.

The leading States in employment in 1992 were Indiana, New York, Pennsylvania, and Tennessee. These same States were the leaders in 1987.

The total value of shipments for establishments classified in this industry was \$1.1 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 3995 shipped \$1.0 billion of burial caskets considered primary to the industry.

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

The products primary to industry 3995, no matter in what industry they were produced, appear in table 6a and aggregate to \$1.0 billion. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and energy used by establishments classified in the burial caskets industry amounted to \$390.6 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 6 percent of the total value of shipments.

INDUSTRY 3996, HARD SURFACE FLOOR COVERINGS, N.E.C.

This industry is made up of establishments primarily engaged in manufacturing linoleum, asphalted-felt-base, and other hard surface floor coverings, not elsewhere classified. Establishments primarily engaged in manufacturing rubber floor coverings are classified in industry 3069, and those manufacturing cork floor and wall tile are classified in industry 2499.

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 3996, Hard Surface Floor Coverings, N.E.C., had employment of 6.7 thousand. The employment figure was 12 percent below the 7.6 thousand reported in 1987. Compared with 1991, employment decreased 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, Illinois, New Jersey, and Pennsylvania. This represents a shift from 1987 when Pennsylvania, New Jersey, Illinois, and New York were the leading States.

The total value of shipments for establishments classified in this industry was \$1.5 billion.

The products primary to industry 3996, no matter in what industry they were produced, appear in table 6a and aggregate to \$1.5 billion. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and energy used by establishments classified in the hard surface floor coverings, not elsewhere classified, industry amounted to \$616.5 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 less than 1 percent of the total value of shipments.

INDUSTRY 3999, MANUFACTURING INDUSTRIES, N.E.C.

This industry is made up of establishments primarily engaged in manufacturing miscellaneous fabricated products, including beauty shop and barber shop equipment; hair work; tobacco pipes and cigarette holders; coinoperated amusement machines; matches; candles; lamp shades; feathers; artificial trees and flowers made from all materials except glass; dressed and dyed furs; umbrellas, parasols, and canes; and other articles, not elsewhere classified.

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 3999, Manufacturing Industries, N.E.C., had employment of 60.0 thousand. The employment figure was 12 percent below the 68.3 thousand reported in 1987.

The leading States in employment in 1992 were California, Illinois, New York, and Pennsylvania, accounting for approximately 36 percent of the industry's employment. This represents a shift from 1987 when California, New York, Illinois, and New Jersey accounted for approximately 42 percent of the industry's employment.

The total value of shipments for establishments classified in this industry was \$5.9 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 3999 shipped \$4.9 billion of manufacturing industries, not elsewhere classified, products considered primary to the industry, \$372.8 million of secondary products, and had \$641.1 million of miscellaneous receipts, resales, and contract work. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in this industry was 93 percent (specialization ratio). In 1987, the specialization ratio also was 93 percent.

Establishments in this industry also accounted for 94 percent of products considered primary to the industry no matter where they were actually produced (coverage ratio). In 1987, the coverage ratio was 93 percent.

The products primary to industry 3999, no matter in what industry they were produced, appear in table 6a and aggregate to \$5.2 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 manufacturing industries, not elsewhere classified, industry amounted to \$2.5 billion. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with less than 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 16 percent of the total value of shipments.

Table 1a. Historical Statistics for the Industry: 1992 and Earlier Years Excludes data for auxiliaries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes

[Excludes data for auxiliaries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]															
		All establi	shments ³	All emp	oloyees	Pro	duction wor	kers						Rat	ios
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)
					1	IND	USTRY 3	991, BROO	MS AND BR	USHES	I			I	
1992 Census 1991 ASM 1990 ASM 1989 ASM 1988 ASM 1987 Census	260 (NA) (NA) (NA) (NA) 293	279 (NA) (NA) (NA) (NA) 301	128 (NA) (NA) (NA) (NA) 143	12.6 14.0 14.0 13.9 13.4 12.3	291.7 290.7 278.8 266.7 267.8 230.6	8.9 10.7 10.4 10.2 9.9 9.3	18.8 19.7 19.3 19.5 18.8 17.5	161.4 170.7 152.0 146.2 155.2 137.1	745.4 740.7 731.0 680.7 616.5 550.9	539.5 521.2 498.0 508.0 500.3 440.7	1 281.4 1 260.3 1 221.8 1 185.0 1 105.1 990.4	35.8 23.8 17.4 14.1 37.9 26.5	203.5 205.5 209.3 200.4 215.0 180.9	93 (NA) (NA) (NA) (NA) 88	91 (NA) (NA) (NA) (NA) 91
1986 ASM 1985 ASM 1984 ASM 1983 ASM 1982 Census	(NA) (NA) (NA) (NA) 320	(NA) (NA) (NA) (NA) 341	(NA) (NA) (NA) (NA) 139	11.4 11.4 13.2 13.4 14.1	202.3 190.3 202.6 205.1 197.1	8.7 8.6 9.9 9.9 10.5	16.9 16.3 18.0 17.6 19.4	118.9 111.9 121.4 124.1 123.0	479.3 438.9 482.4 470.9 432.5	386.2 369.7 402.9 421.1 376.9	859.3 808.0 878.2 894.0 818.1	27.6 26.1 17.7 18.7 17.2	166.8 154.4 172.7 159.2 155.1	(NA) (NA) (NA) (NA) 90	(NA) (NA) (NA) (NA) 89
1981 ASM 1980 ASM 1979 ASM 1978 ASM 1977 Census	(NA) (NA) (NA) (NA) 391	(NA) (NA) (NA) (NA) 409	(NA) (NA) (NA) (NA) 153	15.0 15.8 16.6 16.8 16.5	195.1 189.7 179.4 174.2 163.8	11.4 12.1 12.6 12.9 12.7	21.4 23.2 24.3 24.2 24.0	122.1 118.5 113.1 109.4 101.1	431.1 406.4 397.7 376.2 353.6	363.7 357.2 353.1 339.8 326.7	788.3 762.4 742.3 716.8 673.1	21.1 28.9 22.2 13.5 15.7	156.1 149.8 147.6 138.4 129.9	(NA) (NA) (NA) (NA) 91	(NA) (NA) (NA) (NA) 89
					IN	DUSTRY	3993, SIG	NS AND A	DVERTISING	SPECIALTI	ES				
1992 Census 1991 ASM 1990 ASM 1989 ASM 1986 ASM 1987 Census 1986 ASM 1987 Census 1986 ASM 1987 Census 1986 ASM 1986 ASM 1986 ASM 1986 ASM	4 467 (NA) (NA) (NA) (NA) 3 676 (NA) (NA) (NA)	4 577 (NA) (NA) (NA) (NA) 3 778 (NA) (NA) (NA)	762 (NA) (NA) (NA) (NA) 828 (NA) (NA)	67.5 62.2 69.5 74.0 72.3 66.3 53.7 54.6	1 679.9 1 453.9 1 525.8 1 523.6 1 457.6 1 365.1 1 144.2 1 099.9 1 013.2	42.5 39.5 44.4 49.2 48.8 44.2 36.7 38.5 38.9	86.1 79.2 85.3 92.9 92.9 85.0 74.3 74.6	834.2 706.2 785.0 819.0 806.5 732.1 634.6 626.3	3 164.8 2 529.5 2 613.8 2 665.9 2 772.4 2 496.1 2 143.3 2 129.9 2 049.1	2 279.2 2 237.7 2 214.4 2 019.9 2 033.7 1 790.6 1 431.2 1 425.1 1 380.8	5 420.1 4 755.0 4 826.5 4 677.6 4 794.4 4 282.6 3 557.5 3 533.2 3 418.1	96.9 105.0 107.8 98.2 99.8 97.8 75.2 98.3 68.1	603.7 485.7 479.6 491.5 533.7 476.0 388.0 358.7 318.1	98 (NA) (NA) (NA) (NA) 96 (NA) (NA) (NA)	97 (NA) (NA) (NA) (NA) 97 (NA) (NA)
1983 ASM 1982 Census 1981 ASM 1980 ASM 1979 ASM 1977 Census	(NA) (NA) 3 155 (NA) (NA) (NA) (NA) 3 373	(NA) (NA) 3 243 (NA) (NA) (NA) (NA) 3 468	(NA) (NA) 662 (NA) (NA) (NA) (NA) 627	54.6 52.7 52.8 56.4 57.9 58.2 49.2 49.2 49.7	881.7 870.7 861.3 803.9 732.7 579.5 566.6	38.4 36.4 39.3 41.9 43.1 36.1 36.8	73.3 69.4 66.4 72.6 77.1 81.3 67.4 69.2	576.1 503.2 497.3 505.0 478.2 430.8 333.1 343.1	1 610.1 1 583.9 1 578.8 1 464.8 1 406.4 1 111.3 1 060.9	1 171.6 1 113.1 1 025.8 999.9 913.0 718.2 689.2	2 759.3 2 692.4 2 595.3 2 457.6 2 292.1 1 817.8 1 738.7	63.1 54.7 63.1 54.8 67.1 63.1 53.1 43.0	341.6 310.0 292.1 301.2 288.5 232.9 210.8	(NA) 97 (NA) (NA) (NA) (NA) 98	(NA) (NA) 95 (NA) (NA) (NA) (NA) 97
	INDUSTRY 3995, BURIAL CASKETS														
1992 Census 1991 ASM 1990 ASM 1889 ASM 1886 ASM 1987 Census 1986 ASM 1986 ASM 1985 ASM 1986 ASM 1985 ASM 1986 ASM 1987 Census 1986 ASM 1987 ASM 1988 ASM	195 (NA) (NA) (NA) (NA) (NA) (NA) (NA) (NA)	211 (NA) (NA) (NA) (NA) (NA) (NA) (NA) (NA)	67 (NA) (NA) (NA) (NA) (NA) (NA) (NA) (NA)	7.8 9.9 10.2 8.5 8.6 8.7 9.0 10.3 10.3 10.3 12.4 11.4	196.2 237.8 228.6 170.3 169.9 163.2 155.0 151.0 147.4 151.2 145.1 149.6 161.1 135.8	6.0 7.7 8.0 6.6 6.9 6.9 6.9 6.9 8.3 8.1 8.2 9.5 8.8	13.4 16.2 17.8 13.3 13.3 13.7 13.2 13.2 13.6 17.0 15.3 16.5 19.4 17.5	131.0 150.1 158.5 114.8 116.5 105.0 103.9 97.4 106.0 98.0 95.4 100.0 83.7	660.6 644.2 579.8 502.5 497.5 472.1 403.9 397.0 397.0 373.5 408.3 374.6 342.8 328.8 292.0	390.6 554.3 539.6 446.5 390.9 361.8 338.5 329.3 332.6 275.1 309.7 330.7 330.7 341.4 276.4	1 053.3 1 193.7 1 093.5 946.3 884.6 839.9 738.3 727.3 704.9 689.7 682.1 674.0 667.4 571.5	28.5 29.1 26.9 23.5 31.1 28.8 29.7 28.5 27.2 14.3 36.7 25.5 16.1 10.4	110.8 130.3 116.0 88.1 88.8 92.9 96.5 85.3 87.7 95.4 103.4 115.6 101.5 94.0	(D) (NA) (NA) (NA) (NA) (NA) (NA) (NA) (NA	99 (XAA) (XA
1978 ASM 1977 Census	(NA) 376	(NA) 406	(NA) 133	11.9 12.0	142.4 129.7	9.1 9.3	18.8 17.8	90.2 79.7	287.8 264.2	257.1 244.1	540.8 505.9	15.5 16.3	90.4 81.8	(NA) 99	(NA) 98
					INDU	ISTRY 39	96, HARD	SURFACI	E FLOOR CO	VERINGS, N	.E.C.				
1992 Census 1991 ASM 1990 ASM 1989 ASM 1988 ASM 1987 Census 1986 ASM 1987 Census 1986 ASM 1987 Census 1986 ASM 1986 ASM 1986 ASM 1986 ASM 1986 ASM 1987 ASM 1988 ASM 1989 ASM 1980 ASM 1981 ASM 1979 ASM 1977 Census	21 (NA) (NA) (NA) (NA) (NA) (NA) (NA) (NA)	28 (NA) (NA) (NA) (NA) (NA) (NA) (NA) (NA)	$ \begin{array}{c} 18 \\ (NA) \\ (NA$	$\begin{array}{c} 6.7\\ 6.8\\ 7.1\\ 7.2\\ 7.6\\ 6.2\\ 6.6\\ 6.2\\ 5.3\\ 5.5\\ 5.7\\ 6.4\\ 6.5\\ 6.4\end{array}$	240.2 220.5 225.6 222.3 222.6 224.6 197.1 165.8 165.9 145.7 107.9 100.9 100.6 101.0 93.5	5.2 5.3 5.6 5.6 5.6 5.2 4.8 5.2 4.8 3.9 4.2 4.3 5.0 5.0 5.2	11.2 10.9 11.2 12.0 11.9 12.6 11.3 9.4 10.1 9.3 7.3 8.0 8.3 10.0 10.1 10.4	179.4 162.0 165.5 166.8 160.7 165.1 145.3 121.8 122.6 104.3 76.7 71.4 79.9 72.6 68.6	902.7 796.9 793.2 798.0 795.1 740.1 693.4 573.7 579.6 475.0 323.4 331.8 326.4 368.1 361.5 321.3	616.5 627.7 594.3 590.8 560.5 461.9 436.0 440.3 403.3 270.3 317.3 300.4 354.2 307.5 291.9	1 521.1 1 419.0 1 377.3 1 399.1 1 380.0 1 309.7 1 155.4 1 025.7 1 010.2 864.7 604.1 640.1 631.2 713.8 670.8 607.2	65.7 66.3 62.9 79.4 68.1 51.2 52.4 37.7 54.3 26.6 18.2 12.4 18.2 12.4 18.2 27.9 21.1 16.9	206.2 210.7 209.2 195.9 187.0 182.2 168.1 155.3 176.4 164.6 118.1 100.7 91.2 102.0 85.8 84.9	(D) (NA) (NA) (NA) (NA) (NA) (NA) (NA) (NA	(D) (NA) (NA) (NA) (NA) (NA) (NA) (NA) (NA
					IN	IDUSTRY	3999, MA	NUFACTU	IRING INDUS	TRIES, N.E.	C.			T	
1992 Census 1991 ASM 1990 ASM 1989 ASM 1988 ASM 1987 Census 1986 ASM 1986 ASM	3 208 (NA) (NA) (NA) (NA) 4 047 (NA) (NA)	3 252 (NA) (NA) (NA) (NA) 4 093 (NA) (NA)	689 (NA) (NA) (NA) (NA) 725 (NA) (NA)	60.0 64.0 65.2 70.3 68.3 54.7 53.5	1 362.8 1 251.2 1 284.1 1 214.1 1 255.0 1 190.7 905.3 878.6	41.3 47.7 50.8 48.1 51.3 50.5 40.4 34.1	82.4 94.0 96.5 92.5 95.6 94.5 75.0 71.3	721.2 722.3 740.8 686.0 706.1 677.1 529.5 499.1	3 373.1 3 132.1 3 176.2 2 980.1 2 954.1 2 785.2 1 991.9 1 870.2	2 538.0 2 376.6 2 326.0 2 105.2 2 182.4 2 036.3 1 485.5 1 451.9	5 881.3 5 495.4 5 482.4 5 084.6 5 122.8 4 825.1 3 488.0 3 345.1	213.8 137.1 108.9 122.2 71.3 100.1 72.4 84.1	1 091.4 898.3 905.7 839.8 840.5 788.3 629.9 587.9 587.9	93 (NA) (NA) (NA) (NA) 93 (NA) (NA)	94 (NA) (NA) (NA) 93 (NA) (NA) (NA)
1984 ASM 1983 ASM 1982 Census 1981 ASM 1980 ASM 1979 ASM	(NA) (NA) 3 842 (NA) (NA) (NA)	(NA) (NA) 3 898 (NA) (NA) (NA)	(NA) (NA) 637 (NA) (NA) (NA)	58.2 62.6 64.0 66.0 69.0 70.2	913.5 943.8 944.0 880.5 833.6 732.0	43.3 46.3 49.4 52.1 54.0	80.1 86.0 85.8 91.8 94.4 102.5	521.1 546.2 548.7 518.0 498.7 456.5	2 048.8 1 968.7 2 157.0 2 073.8 1 863.9 1 696.7	1 631.4 1 925.5 2 173.8 1 939.7 1 780.0 1 567.3	3 663.3 3 952.8 4 322.9 3 980.1 3 643.0 3 229.7	87.1 70.4 93.2 137.3 85.6 81.4	709.3 747.8 747.3 611.2 594.7 554.6	(NA) (NA) (NA) (NA) (NA) (NA)	(NA) (NA) (NA) (NA) (NA)

See footnotes at end of table.

MANUFACTURES-INDUSTRY SERIES

MISCELLANEOUS MANUFACTURES 39D-7

TIPS UPF [MCD_SRB,BA_TAYLOR] 5/23/95 16:12:16 EPCV24 TLP:39D.BTI;41 5/23/95 16:10:40 DATA:NONE UPF:DIR:39DDAT.UPF PAGE: 1 TSF:39D_92.DAT;1 5/23/95 16:10:59 UTF:39D_93.DAT;1 5/23/95 16:11:00 META:TIPS96-16105258.DAT;1 5/23/95 16:12:02

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

			-												
		All establ	ishments ³	All employees		Production workers								Ra	tios
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)
		INDUSTRY 3999, MANUFACTURING INDUSTRIES, N.E.C.—Con.													
1978 ASM 1977 Census	(NA) 4 144	(NA) 4 208	(NA) 680	77.6 71.7	778.0 702.3	59.4 55.7	105.3 98.7	484.0 430.3	1 706.1 1 566.8	1 544.0 1 285.2	3 218.4 2 818.3	86.4 84.0	549.8 507.6	(NA) (NA)	(NA) (NA)

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

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

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

			,											
Year	Payroll per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)					
				INDUSTRY 3	991, BROOMS	AND BRUSHES								
1992 Census 1991 ASM 1990 ASM 1989 ASM 1988 ASM	23 151 20 764 19 914 19 187 19 985	71 76 74 73 74	2 112 1 841 1 856 1 912 1 899	8.59 8.66 7.88 7.50 8.26	42 41 41 43 45	65 64 64 65 70	59 159 52 907 52 214 48 971 46 007	39 39 38 39 43	39.65 37.60 37.88 34.91 32.79					
1987 Census 1986 ASM 1985 ASM 1984 ASM 1983 ASM	18 748 17 746 16 693 15 348 15 306	76 76 75 75 74	1 882 1 943 1 895 1 818 1 778	7.83 7.04 6.87 6.74 7.05	44 45 46 46 47	68 68 69 69 70	44 789 42 044 38 500 36 545 35 142	42 42 43 42 44	31.48 28.36 26.93 26.80 26.76					
1982 Census 1981 ASM 1980 ASM 1979 ASM 1978 ASM 1977 Census	13 979 13 007 12 006 10 807 10 369 9 927	74 76 77 76 77 77	1 848 1 877 1 917 1 929 1 876 1 890	6.34 5.71 5.11 4.65 4.52 4.21	46 46 47 48 47 49	70 71 72 72 72 73	30 674 28 740 25 722 23 958 22 393 21 430	46 45 47 45 46 46	22.29 20.14 17.52 16.37 15.55 14.73					
		INDUSTRY 3993, SIGNS AND ADVERTISING SPECIALTIES												
1992 Census 1991 ASM 1990 ASM 1989 ASM 1988 ASM	24 887 23 375 21 954 20 589 20 160	63 64 64 66 67	2 026 2 005 1 921 1 888 1 904	9.69 8.92 9.20 8.82 8.68	42 47 46 43 42	73 78 77 76 73	46 886 40 667 37 609 36 026 38 346	53 57 58 57 53	36.76 31.94 30.64 28.70 29.84					
1987 Census 1986 ASM 1985 ASM 1985 ASM 1984 ASM 1983 ASM	20 590 21 307 20 145 18 557 16 731	67 68 71 71 71 73	1 923 2 025 1 938 1 884 1 807	8.61 8.54 8.40 7.86 7.25	42 40 40 40 40 40	74 72 71 70 74	37 649 39 912 39 009 37 529 30 552	55 53 52 49 55	29.37 28.85 28.55 27.95 23.20					
1982 Census 1981 ASM 1980 ASM 1979 ASM 1978 ASM 1977 Census	16 491 15 271 13 884 12 589 11 778 11 400	69 70 72 74 73 74	1 824 1 847 1 840 1 886 1 867 1 880	7.49 6.96 6.20 5.30 4.94 4.96	41 40 41 40 40 40	74 73 73 72 71 72	29 998 27 993 25 299 24 165 22 587 21 346	55 55 55 52 52 52 53	23.85 21.75 19.00 17.30 16.49 15.33					
		11		INDUSTR	Y 3995, BURIAL	CASKETS								
1992 Census 1991 ASM 1990 ASM 1989 ASM 1988 ASM	25 154 24 020 22 412 20 035 19 756	77 78 78 78 78 77	2 233 2 104 2 225 2 015 2 015	9.78 9.27 8.90 8.63 8.76	37 46 49 47 44	56 66 70 65 63	84 692 65 071 56 843 59 118 57 849	30 37 39 34 34	49.30 39.77 32.57 37.78 37.41					
1987 Census 1986 ASM 1985 ASM 1984 ASM 1983 ASM	18 759 18 452 17 356 16 378 14 680	79 79 79 77 81	1 986 2 000 1 913 1 971 2 048	8.21 7.95 7.87 7.16 6.24	43 46 45 47 40	63 67 66 68 62	54 264 48 083 45 632 41 500 39 641	35 38 38 39 37	34.46 30.60 30.08 27.46 24.02					
1982 Census 1981 ASM 1980 ASM 1979 ASM 1978 ASM 1977 Census	14 087 14 113 12 992 11 912 11 966 10 808	79 77 77 77 76 78	1 889 2 012 2 042 1 989 2 066 1 914	6.41 5.78 5.15 4.78 4.80 4.48	45 49 51 48 48 48	67 71 75 72 74 74	36 369 32 340 26 516 25 614 24 185 22 017	39 44 49 47 49 49	24.48 20.78 16.95 16.69 15.31 14.84					

MISCELLANEOUS MANUFACTURES 39D-8

MANUFACTURES-INDUSTRY SERIES

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 Pavroll percent of Annual hours earnings of production percent of percent of Payroll as Value added of production workers value of shipments percent of value added per production worker hour employee (dollars) total value of Value added employment workers (dollars) shipments per employee (dollars) (percent) (number) (percent) (percent) (percent) (dollars) INDUSTRY 3996, HARD SURFACE FLOOR COVERINGS, N.E.C. 35 851 32 426 31 775 31 310 30 917 1992 Census_____ 1991 ASM _____ 1990 ASM ______ 1989 ASM _____ 134 731 117 191 111 718 112 394 110 431 80.60 2 154 2 057 2 036 2 143 2 125 27 28 28 28 28 28 78 78 77 79 78 16.02 41 44 14.86 14.78 13.90 13.50 73.11 70.82 66.50 60 43 44 43 60 59 1988 ASM _____ 59 66.82 1987 Census..... 1986 ASM 1985 ASM 1984 ASM 1983 ASM 29 553 28 157 26 742 25 136 23 500 97 382 99 057 92 532 87 818 76 613 58.74 61.36 61.03 57.39 2 100 2 055 1 958 79 79 77 79 77 13.10 43 40 43 44 47 60 57 59 60 63 30 28 29 29 31 12.86 12.96 12.14 942 1983 ASM 1 938 11.22 51.08 1982 Census..... 1981 ASM 1980 ASM 1979 ASM 21 151 19 618 17 702 17 125 61 019 60 327 57 263 57 516 44.30 41.48 39.33 872 905 930 10.73 9.59 74 76 75 77 77 78 45 50 48 50 46 48 63 66 64 65 35 33 31 30 28 29 1 1 8.60 7.99 7.19 1 2 041 2 020 2 080 36.81 1978 ASM _____ 1977 Census_____ 55 615 50 203 35.79 30.89 15 538 61 63 6.60 14 609 INDUSTRY 3999, MANUFACTURING INDUSTRIES, N.E.C. 1992 Census_____ 1991 ASM _____ 1990 ASM _____ 1989 ASM _____ 1988 ASM _____ 22 713 19 550 18 884 18 621 17 852 40.94 33.32 32.91 32.22 30.90 1 995 1 971 1 900 1 923 1 864 8.75 7.68 7.68 7.42 7.39 56 218 48 939 69 75 75 74 73 43 43 42 41 43 40 40 40 41 42 66 66 65 67 46 709 45 707 42 021 1987 Census_____ 1986 ASM _____ 1985 ASM _____ 1984 ASM _____ 42 67 40 779 43 29.47 17 433 74 74 64 74 74 871 7.17 1 2 1 7.06 7.00 6.51 69 70 69 73 36 415 34 957 35 203 45 47 45 48 26.56 26.23 25.58 16 550 16 422 856 091 43 43 45 49 15 696 15 077 850 1983 ASM 1 857 6.35 31 449 22.89 14 750 13 341 12 081 1 833 1 858 50 49 49 33 703 73 75 76 77 77 78 72 71 72 71 72 71 44 42 45 43 46 45 25.14 1982 Census 6.40 22.59 19.74 16.55 1981 ASM _____ 1980 ASM _____ 858 812 5.64 5.28 31 421 27 013 1979 ASM _____ 24 170 10 427 1 898 4 45 49 10 026 9 795 773 772 4.60 21 986 21 852 16.20 15.87 1978 ASM 48 1978 ASM 1977 Census..... 1 46

[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	ishments	All employees		Pro	duction wo	rkers				New		
Industry and geographic area		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)	capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manufac- ture (million dollars)
INDUSTRY 3991, BROOMS AND BRUSHES														
United States	-	279	128	12.6	291.7	8.9	18.8	161.4	745.4	539.5	1 281.4	35.8	12.3	550.9
California Florida Georgia Illinois Iowa	- E5 -	22 10 7 21 6	9 2 3 14 2	.6 .1 .1 1.3 E	15.5 2.8 2.7 32.0 (D)	.4 .1 .9 (D)	.9 .2 .2 2.1 (D)	7.2 1.5 1.5 16.3 (D)	30.8 8.2 6.1 76.6 (D)	26.3 5.7 4.6 71.4 (D)	57.0 13.5 10.8 149.1 (D)	(D) .1 (D) (D)	F .2 (NA) E	(D) 6.7 (D) (D) (D)
Kansas Maine Maryland Massachusetts Minnesota	E9 - - -	3 1 3 12 2	2 1 2 10 2	F C .9 C	(D) (D) (D) 18.0 (D)	(D) (D) (D) .7 (D)	(D) (D) 1.3 (D)	(D) (D) (D) 12.0 (D)	(D) (D) 44.8 (D)	(D) (D) 28.4 (D)	(D) (D) 72.4 (D)	(D) (D) (D) 2.2 (D)	E (NA) .4 F (NA)	(D) (NA) 12.1 (D) (D)
Nebraska New Hampshire New Jersey New York North Carolina	- - E1 -	2 3 14 35 8	1 3 5 15 2	C .3 E 1.0 F	(D) 7.1 (D) 21.8 (D)	(D) .3 (D) .8 (D)	(D) .5 (D) 1.5 (D)	(D) 3.9 (D) 11.7 (D)	(D) 21.9 (D) 53.9 (D)	(D) 14.5 (D) 45.4 (D)	(D) 35.4 (D) 100.4 (D)	(D) (D) (D) (D)	(NA) E 1.3 F	(NA) (D) (D) 45.2 (D)
Ohio Oregon Pennsylvania Tennessee Texas Wisconsin	- - - E1 -	27 3 12 6 19 11	17 2 6 4 7	1.7 E .6 F .2 G	43.2 (D) 14.1 (D) 4.9 (D)	1.3 (D) .4 (D) .1 (D)	2.4 (D) .8 (D) .3 (D)	25.9 (D) 6.4 (D) 2.0 (D)	107.5 (D) 29.5 (D) 11.5 (D)	85.8 (D) 24.7 (D) 9.5 (D)	191.7 (D) 53.6 (D) 20.8 (D)	3.6 (D) (D) .3 (D)	1.5 .4 .4 .3 .5	84.2 10.8 20.0 (D) 8.0 37.6

See footnotes at end of table.

MANUFACTURES-INDUSTRY SERIES

MISCELLANEOUS MANUFACTURES 39D-9

TIPS UPF [MCD_SRB,BA_TAYLOR] 5/23/95 16:12:16 EPCV24 TLP:39D.BTI;41 5/23/95 16:10:40 DATA:NONE UPF:DIR:39DDAT.UPF PAGE: 3 TSF:39D_92.DAT;1 5/23/95 16:10:59 UTF:39D_93.DAT;1 5/23/95 16:11:00 META:TIPS96-16105258.DAT;1 5/23/95 16:12:02

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

Excludes data for auxiliaries. States	1992											-,-	1987		
		All establ	ishments	All em	oloyees	Pro	duction wor	kers							
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 3993, SIGNS AND ADVERTISING SPECIALTIES															
United States	E1	4 577	762	67.5	1 679.9	42.5	86.1	834.2	3 164.8	2 279.2	5 420.1	96.9	66.3	2 496.6	
Alabama Arizona Arkansas California Colorado	E3 E1 E1	54 79 38 539 78	11 8 5 80 7	.8 .6 .3 6.5 .6	19.2 16.0 8.0 167.9 15.5	.6 .4 .2 4.0 .4	1.2 .8 .4 7.9 .8	9.9 8.2 3.8 84.7 7.2	39.3 27.4 15.4 313.6 27.4	39.7 16.7 10.9 198.2 14.6	78.3 44.1 26.0 508.8 41.9	3.3 .8 (D) 6.9 1.0	.8 .6 (NA) (NA) .8	24.9 25.5 (D) (D) 24.6	
Connecticut District of Columbia Florida Georgia Hawaii	E1 E1 E1 E1 E2	66 6 292 101 26	5 3 32 9 –	.5 C 3.0 .9 .1	12.9 (D) 64.8 21.5 3.5	.3 (D) 2.0 .6 .1	.6 (D) 3.9 1.0 .2	6.0 (D) 33.2 10.2 1.7	26.6 (D) 117.3 38.4 6.6	19.4 (D) 82.3 26.3 4.5	46.2 (D) 199.7 64.7 11.1	.4 (D) 3.0 1.0 (D)	F (NA) 2.5 1.0 (NA)	(D) (D) 81.0 36.5 (NA)	
Idaho Illinois Indiana Iowa Kansas	E2 E1 E1	29 224 111 46 42	5 67 15 9 13	.3 5.4 G .8 .7	6.9 167.7 (D) 20.6 13.5	.2 3.4 (D) .4 .5	.4 7.0 (D) .9 .9	3.6 75.6 (D) 9.1 7.5	13.7 329.4 (D) 52.5 25.9	7.7 253.9 (D) 48.8 14.1	21.4 580.0 (D) 100.6 39.7	(D) 10.0 (D) 1.7 .8	.3 5.2 F F F	9.6 236.2 (D) (D) (D)	
Kentucky Louisiana Maine Maryland Massachusetts	E1 E4 E1 E1	37 32 15 87 89	5 2 11 10	F .2 .9 .8	(D) 5.6 (D) 23.0 21.6	(D) .2 (D) .6 .6	(D) .3 (D) 1.2 1.2	(D) 3.1 (D) 13.2 11.7	(D) 10.2 (D) 40.0 39.0	(D) 7.2 (D) 32.3 24.0	(D) 17.3 (D) 72.4 62.5	(D) .3 (D) 1.4 .6	F .3 (NA) 1.0 1.5	(D) 11.4 (NA) 36.8 58.3	
Michigan Minnesota Mississippi Missouri Montana	-	163 103 22 88 19	24 21 5 20 2	2.9 1.9 .2 2.9 C	74.4 44.5 3.6 59.6 (D)	1.4 1.2 .1 2.0 (D)	2.8 2.5 .2 3.8 (D)	32.7 23.0 1.9 35.9 (D)	139.9 93.9 6.4 95.2 (D)	108.5 50.3 9.5 66.9 (D)	247.8 139.9 15.9 161.0 (D)	3.2 2.5 .3 4.4 .1	2.6 1.5 E 1.6 (NA)	115.8 48.0 (D) 58.0 (NA)	
Nebraska Nevada New Hampshire New Jersey New Mexico	E1	31 31 20 166 17	3 9 1 29 4	C F C 3.3 C	(D) (D) (D) 82.9 (D)	(D) (D) (D) 2.1 (D)	(D) (D) (D) 3.9 (D)	(D) (D) (D) 38.8 (D)	(D) (D) (D) 152.3 (D)	(D) (D) (D) 127.0 (D)	(D) (D) (D) 279.9 (D)	.5 .7 .1 4.1 (D)	.3 .5 .3 3.0 .2	8.7 29.6 9.3 117.7 5.7	
New York North Carolina North Dakota Ohio Oklahoma	=	341 119 13 211 51	75 13 3 53 5	6.5 1.3 C 4.0 .4	171.9 26.9 (D) 101.8 7.1	4.3 .8 (D) 2.5 .2	9.2 1.6 (D) 5.2 .5	87.1 13.7 (D) 48.6 3.6	305.0 50.8 (D) 190.1 12.0	198.4 32.6 (D) 165.3 8.1	502.5 82.8 (D) 355.9 20.1	7.2 1.7 (D) 4.6 .4	7.9 G .2 3.8 .7	260.2 (D) 8.2 153.7 18.3	
Oregon Pennsylvania Rhode Island South Carolina South Dakota	E1 E1 E2 E2 -	63 185 42 42 12	9 34 12 5 4	.7 2.8 1.1 .3 .7	16.2 73.1 21.4 6.5 14.6	.4 1.7 .7 .2 .4	1.0 3.5 1.4 .4 1.0	9.6 34.8 10.6 3.7 6.8	31.8 153.1 41.0 10.7 26.3	22.6 100.3 34.5 7.6 23.8	54.3 251.9 75.3 18.3 50.5	1.4 7.2 .9 .2 1.5	.5 2.3 1.1 .8 .4	18.2 108.1 28.5 27.6 12.0	
Tennessee Texas Utah Virginia Washington West Virginia Wisconsin	E1 E1	112 346 42 77 105 16 115	15 39 5 19 17 3 32	2.1 3.6 .5 G 1.3 .2 3.4	43.7 84.8 12.5 (D) 35.4 5.2 87.6	1.4 2.3 .4 (D) .7 2.3	2.7 4.5 .8 (D) 1.3 .3 4.6	23.5 42.2 7.1 (D) 14.6 3.0 43.3	85.1 157.0 25.8 (D) 47.0 11.5 190.7	65.8 100.2 12.4 (D) 36.9 6.0 163.4	148.6 257.2 37.6 (D) 83.0 17.3 349.5	4.1 3.6 .7 1.3 (D) (D) 7.6	2.5 4.2 .5 G 1.0 .2 2.4	97.3 153.8 20.4 (D) 37.3 5.7 84.7	
INDUSTRY 3995, BURIAL CASKETS															
United States	-	211	67	7.8	196.2	6.0	13.4	131.0	660.6	390.6	1 053.3	28.5	8.7	472.1	
Alabama California Georgia Indiana Kentucky		9 11 10 22 6	5 4 15 2	C C 2.3 2.3 E	(D) (D) 5.1 65.7 (D)	(D) (D) .2 1.7 (D)	(D) (D) .5 3.7 (D)	(D) (D) 3.3 41.2 (D)	(D) (D) 10.7 220.8 (D)	(D) (D) 8.5 111.6 (D)	(D) (D) 18.8 331.9 (D)	(D) (D) 12.5 (D)	(NA) E .4 1.9 E	(D) (D) 9.6 146.1 (D)	
Massachusetts Mississippi Missouri New Hampshire New York		5 6 9 3 9	3 3 2 2 3	.2 E C F	3.6 (D) (D) (D) (D)	.2 (D) (D) (D) (D)	.3 (D) (D) (D) (D)	2.6 (D) (D) (D) (D)	7.0 (D) (D) (D) (D)	5.1 (D) (D) (D) (D)	12.3 (D) (D) (D) (D)	.1 (D) (D) (D) 1.0	(NA) (NA) E E E	(D) (NA) (D) (D) (D)	
North Carolina Ohio Pennsylvania Tennessee Texas West Virginia	E1	10 7 12 6 8 3	3 1 6 3 2 1	C C 1.0 F C C	(D) (D) 23.8 (D) (D) (D)	(D) (D) .7 (D) (D) (D)	(D) (D) 1.7 (D) (D) (D)	(D) (D) 15.9 (D) (D) (D)	(D) (D) 45.1 (D) (D) (D)	(D) (D) 38.9 (D) (D) (D)	(D) (D) 83.6 (D) (D) (D)	(D) .2 1.0 (D) (D)	(NA) .2 1.4 F (NA) (NA)	(D) 9.6 43.0 (D) (NA) (D)	

See footnotes at end of table.

39D-10 MISCELLANEOUS MANUFACTURES

MANUFACTURES-INDUSTRY SERIES

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 by manufacemploy-ees or by manufac Cost of Value of expend-itures All employ-ees² (1,000) shipments (million dollars) Payroll (million Wages (million ture (million) materials (million ture (million Number² Total Number Hours (million more E1 (no.) (no.) (1,000)dollars) (1,000) (millions) dollars) dollars) dollars) dollars) dollars) INDUSTRY 3996, HARD SURFACE FLOOR COVERINGS, N.E.C. United States _____ 240.2 179.4 902.7 1 521.1 7.6 740.1 28 18 6.7 5.2 11.2 616.5 65.7 (D) (D) (D) 52.2 (D) (D) (D) (D) 33.3 (D) Alabama (D) (D) (D) (D) 2.2 F ECF (D) (D) (D) (D) 1.1 (D) (D) (D) California _____ (NA) Illinois_____ Mississippi_____ New Jersey_____ 3 3 (NA) 1.6 2 C ìΠ λD 4 5 1.6 171.8 131.6 302.8 178.0 E C 2.9 (D) (D) 110.5 (D) (D) 87.7 (D) (D) 258.6 (D) (D) 703.7 New York _____ 2 (D) (D) 2.4 (D) (D) 4.8 (D) (D) (D) (D) (D) 1 1 3 Oklahoma (D) 444.3 (NA) 393.4 (NA) 3.4 Oklahoma _____ Pennsylvania _____ 1 3 Texas_____ 1 Ċ (D (D) (D) (D) (D) (D) (D) F (D) INDUSTRY 3999. MANUFACTURING INDUSTRIES, N.E.C. United States _____ E1 3 252 689 60.0 1 362.8 82.4 721.2 3 373.1 2 538.0 5 881.3 213.8 68.3 2 785.2 41.3 Alabama _____ 29 10 1.2 E 22.7 1.8 11.3 55.2 62.8 118.1 1.2 F 43.1 40 23 479 (D) 32.6 475.8 (D) 22.3 337.8 (D) 17.3 396.4 Arizona _____ Arkansas _____ E3 (D) 13.6 (D) (D) .9 (D) 5.8 (D) 54.8 (D 1.6 10 .5 4.7 (D) .5 9.5 E E2 E2 7.8 F California _____ Colorado _____ 111 207.4 9.3 (D) 85.1 818.7 36.4 58 5 (D (D) (D) (D) (D) (D) (D) 348.0 128.8 243.7 (D) 560.5 2.0 1.8 1.9 C 5.2 2.6 2.7 4.1 (D) 6.7 39.2 19.5 20.3 (D) 62.8 118.6 51.2 77.1 (D) 264.1 229.8 77.8 (D) 2.4 2.3 1.8 G (NA) 210.6 66.1 Connecticut_____ E1 E2 14 21 13 73.9 34.3 1.3 1.3 1.4 Florida _____ Georgia _____ 185 165.7 (D) 296.0 (D) (NA) 252.9 61 11 32.3 (D) (D) 3.8 E3 E2 (D) 119.6 Idaho 2 37 10.7 Illinois_____ 148 6.Ó (D) (D) (D) (D) 10.8 1.3 E Indiana_____ 49 12 23.9 2.2 (D) 16.6 55.6 48.0 103.8 2.5 (D) (D) 1.5 1.1 (D) (D) (NA) (NA) lowa Kansas Kentucky E6 (D) (D) 14.3 2.1 (D) (D) 7.6 1.2 23 18 25 (D) (D) (D) (D) (D) (D) E2 С ÌD 31 22 12 .8 .1 ì.ó 4ò.3 22.1 3.4 6à. E2 E5 .6 .1 5.0 .2 Louisiana .1 8.4 .1 .2 .8 3.1 Maine _____ Maryland _____ Massachusetts _____ Michigan _____ Minnesota _____ .2 E 2.2 3.3 (D) 57.3 5.1 (D) 92.0 4.5 22.1 146.7 15 36 82 E2 E2 4 7 2 19 9.8 14.6 .2 (D) 2.6 2.3 1.3 .2 (D) 5.3 2.7 (D) 1.4 (D) 28.5 (D) 130.0 (D) 221.6 23 15 7 E1 1.6 149 41.0 1.1 .5 24.8 80.4 51.8 131.4 1.3 F 51.5 60 20.1 12.1 57.5 34.6 92.2 1.5 (D) (D) (D) (NA) 6.9 Mississippi_____ 3 15 2 .2 2.1 (D) (NA) E4 17 2.4 6.5 11.9 (D) 1.4 1.5 5.213.4 (D) 3.4 90.4 (D) 19.9 57 13 17 23.0 (D) .9 (D) 36.7 (D) Missouri Ē1 1.2 C 57.9 Ġ (D) (D) (D) (NA) Montana (D) E1 Nebraska_____ 37 .3 1.7 .2 1.0 12.8 .5 1.9 1.0 Nevada _____ 26 45.0 18.3 80.7 136.3 199.5 20.1 New Hampshire E2 E1 13 4 44 .3 2.9 .2 2.0 .3 4.0 3.5 13.1 147.4 7.9 20.9 .2 3.2 17.1 7.1 .4 New Jersey_____ New Mexico 137 31 320 33.7 1.6 64.5 66.0 105.0 252.9 4.2 141.6 8.1 192.5 116.9 (NA) 339.0 3.4 115.0 10.7 18.8 (NA) .2 7.4 3.7 .7 6.7 7.6 E2 80 26 3.8 1.9 New York _____ North Carolina _____ 5.2 2.5 428.9 8.8 2.5 86 52.1 32.8 148.5 265.2 91.6 242.2 19.7 Ohio . E1 E4 126 23 2.4 49.9 1.6 3.3 26.7 142.3 100.0 6.9 111.3 Oklahoma _____ Oregon _____ Pennsylvania _____ Rhode Island _____ (D) (D) 6.5 1.4 (D) 12.6 129.3 40.2 (NA) 28 58 12.8 8.8 (D) 9.7 (D) 307 2.2 .3 (D) 4.5 1.0 Ē3 6 Ē (D (D) 2.4 (D) 43.0 (D) 149 72 37 11 3.2 206.6 108.3 23.1 3.1 1.4 E1 E1 32.0 13.8 .5 7.7 .2 (Z) 2.8 5.2 .3 South Carolina _____ 1.7 (D) 17.1 6.6 (D) 90.6 (D) (NA) 38.6 E5 17 2 3.4 (D) .2 (D) 7.9 (D) 14.5 (D) South Dakota (D) (NA) 1.5 2.7 .3 156.6 203.9 12 34 5 2.2 3.1 46 32.Ó 69.6 1.2F1 162 27 55 4 1.7 .2 29.8 3.0 88 5 2.3 E 100.3 1127 Ē2 11.9 8.3 20.8 (D) Utah _____ 5.0 55.0 29.3 97.6 40 9 .9 24.8 1.4 15.2 55.8 53.7 107.4 Virginia .7 2.4 1.2 Washington_____ 86 83 19 20 (D) 41.9 (D) 1.3 (D) 2.4 (D) 20.4 (D) 107.2 (D) 93.1 (D) 198.9 1.8 1.0 E2 E2 Wisconsin _____ 1.9

[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]

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; E1-20 to 2,99 employees; E-50 to 499 employees; E-50 to 499 employees; E-50 to 499 employees; E-50 to 499 employees; E-50 to 99 employees; E-50 to 99 employees; L-50,000 to 99,999 employees; M-100,000 employees or more.

MANUFACTURES-INDUSTRY SERIES

MISCELLANEOUS MANUFACTURES 39D-11

Table 3a. Summary Statistics for the Industry: 1992

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

ltem	Brooms and brushes (SIC 3991)	Signs and advertising specialties (SIC 3993)	Burial caskets (SIC 3995)	Hard surface floor coverings, n.e.c. (SIC 3996)	Manufacturing industries, n.e.c. (SIC 3999)
Companiesnumber	260	4 467	195	21	3 208
All establishments number. With 1 to 19 employees number. With 20 to 99 employees number. With 100 employees or more number.	279 151 98 30	4 577 3 815 640 122	211 144 50 17	28 10 3 15	3 252 2 563 585 104
Employment and labor costs: Employees1.000	12.6 363.0 291.7 71.3 30.2 41.1	67.5 2 015.0 1 679.9 335.1 167.2 167.9	7.8 239.1 196.2 42.9 21.1 21.8	6.7 306.0 240.2 65.8 25.6 40.2	60.0 1 669.2 1 362.8 306.4 143.8 162.6
Production workers: Average for year1,000	8.9 8.9 8.9 9.2 8.7	42.5 42.0 42.4 43.3 42.6	6.0 6.1 6.0 6.0 5.9	5.2 5.2 5.3 5.2 5.2 5.2	41.3 40.4 41.3 42.3 41.4
Hours millions	18.8	86.1	13.4	11.2	82.4
Wagesmil dol	161.4	834.2	131.0	179.4	721.2
Cost of materials ¹ mil dolmil dolmil dol.aterials, parts, containers, etc., consumed ² mil dol.aterials, parts, containers, etc., consumed ² mil dol.aterialsmil dol.ate	539.5 446.3 69.9 3.0 10.7 9.6	2 279.2 1 796.1 165.4 18.5 38.4 260.9	390.6 357.1 21.7 4.0 7.2 .5	616.5 547.3 29.4 10.9 28.6 .3	2 538.0 2 104.1 251.3 17.3 45.6 119.8
Quantity of electric energy used for heat and power: Purchased mil kWh Generated less sold mil kWh	167.6 _	546.0 (D)	138.3	428.4	676.8
Total value of shipmentsmil dol	1 281.4	5 420.1	1 053.3	1 521.1	5 881.3
Value addedmil dol	745.4	3 164.8	660.6	902.7	3 373.1
Inventories by stage of fabrication: Beginning of 1992mil dol Finished goodsmil dol Work in processmil dol Materials and suppliesmil dol	205.3 91.8 26.3 87.2	567.2 128.3 184.4 254.5	111.5 65.2 20.1 26.1	209.4 140.2 24.8 44.4	1 035.2 384.4 202.4 448.4
End of 1992mil dolmil dol	203.5 94.5 27.1 81.9	603.7 138.7 197.9 267.1	110.8 63.3 20.0 27.5	206.2 137.8 25.3 43.1	1 091.4 427.7 188.9 474.8

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

¹Data on purchased services for the repair of buildings and machinery and for communication services are not included in cost of materials, etc., but are shown in table 3c. ²Data on materials consumed by type are shown in table 7. Data on amount purchased or transferred from foreign sources are shown in table 3c.

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

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

Item	Brooms and brushes (SIC 3991)	Signs and advertising specialties (SIC 3993)	Burial caskets (SIC 3995)	Hard surface floor coverings, n.e.c. (SIC 3996)	Manufacturing industries, n.e.c. (SIC 3999)
Gross book value of depreciable assets: Total: Beginning of year New capital expenditures ¹ Used capital expenditures Retirements End of year	328.1 35.8 2.1 10.5 355.4	1 176.8 96.9 17.8 19.7 1 271.8	298.7 28.5 4.1 4.9 326.4	705.1 65.7 1.1 11.4 760.5	1 319.6 213.8 17.4 79.3 1 471.5
Buildings and other structures: Beginning of year New capital expenditures Used capital expenditures Retirements End of year Machinery and equipment:	63.1 3.8 .4 .7 66.5	311.7 15.5 3.9 2.0 329.1	78.5 5.7 (D) (D) 85.7	153.6 9.5 (D) (D) 162.9	283.8 40.0 5.8 6.1 323.5
Beginning of year New capital expenditures ¹ Used capital expenditures Retirements End of year	265.0 32.0 1.7 9.8 288.9	865.2 81.4 13.9 17.7 942.7	220.1 22.9 (D) (D) 240.7	551.5 56.1 (D) (D) 597.6	1 035.8 173.8 11.6 73.1 1 148.0
Depreciation charges during 1992: Total	28.0 3.8 24.2	134.0 23.6 110.4	23.6 3.9 19.7	38.9 5.7 33.2	123.4 16.4 107.0
Rental payments: Total	15.6 9.2 6.4	121.8 69.1 52.6	6.1 4.4 1.7	3.5 1.3 2.2	113.9 69.1 44.8

 $^{1}\mbox{Data}$ on new machinery and equipment expenditures by type are provided in table 3c.

39D-12 MISCELLANEOUS MANUFACTURES

MANUFACTURES-INDUSTRY SERIES

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]

	Brooms ar (SIC		Signs and speci (SIC 3	alties		Burial caskets (SIC 3995)		Hard surface floor coverings, n.e.c. (SIC 3996)		Manufacturing industries, n.e.c. (SIC 3999)	
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)	
Purchased services: Cost of purchased services for the repair of– Buildings and other structures Response coverage ratio (percent) ² Machinery Response coverage ratio (percent) ² Other purchased services:	1.4 80.0 5.9 82.1	XXXX XXXXX	9.8 67.7 18.5 72.2	8888	2.3 81.8 5.4 85.8	8888	2.4 88.0 33.0 88.0	XX XX XX XX	5.4 65.6 20.9 67.2	(X) (X) (X) (X)	
Communications Response coverage ratio (percent) ² Response coverage ratio (percent) ² Accounting and bookkeeping Response coverage ratio (percent) ² Advertising Response coverage ratio (percent) ² Software and other data processing Response coverage ratio (percent) ² Response coverage ratio (percent) ² Refuse removal, including hazardous waste Response coverage ratio (percent) ²	3.0 82.1 2.4 66.2 1.8 82.1 5.5 82.1 1.2 82.1 .7 80.0	XXXXXXXXXXXXX	27.6 71.1 9.5 71.3 10.5 69.9 24.2 71.8 4.7 69.7 5.5 70.8	XXXXXXXXXXXXX	1.9 85.8 1.2 85.8 1.3 85.8 1.5 81.8 .3 81.8 .3 81.8 1.0 85.8	XXXXXXXXXXXXX	1.2 88.0 .9 88.0 .3 88.0 2.1 88.0 1.0 88.0 5.2 88.0	SSSSSSSSSSSS	10.1 65.1 16.4 66.8 6.5 66.2 35.7 67.6 3.0 60.2 3.2 66.1	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
New machinery and equipment expenditures Automobiles, trucks, etc., for highway use Computers and peripheral data processing equipment All other Adjustment ratio ³	32.0 1.2 3.7 27.1 1.5	(X) 57 24 5 (X)	81.4 9.8 12.0 59.6 1.3	(X) 26 19 5 (X)	22.9 1.2 2.6 19.1 1.3	(X) 23 4 2 (X)	56.1 .2 1.3 54.7 1.3	(X) 1 1 (X)	173.8 2.0 79.9 91.8 .7	(X) 59 51 43 (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	446.3 22.7 423.7 1.6	(X) 23 2 (X)	1 796.1 44.1 1 752.0 1.7	(X) 36 1 (X)	357.1 5.4 351.7 1.4	(X) 31 (X)	547.3 7.6 539.7 1.4	(X) 1 1 (X)	2 104.1 (S) (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

and symbols see introductory text. For ex

[For meaning of abbreviations and symbols, see intr	oducto	ory text. F	or explanati	on or terms,	see append	lixesj						
		All	All em	ployees	Pro	duction wo	rkers	Value added by	Cost -f	Value -f	New capital	End-of- year
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 3991, BROOMS AND BRUSHES												
Total	-	279	12.6	291.7	8.9	18.8	161.4	745.4	539.5	1 281.4	35.8	203.5
Establishments with an average of — 1 to 4 employees	E8 E5 E1 E1 - -	77 35 39 59 39 20 6 4	.1 .2 .6 1.9 2.8 2.7 2.2 2.1	2.5 4.9 11.5 40.3 63.4 61.1 56.7 51.3	.1 .2 .4 1.3 2.0 2.1 1.6 1.3	.2 .3 .7 2.5 3.9 4.2 3.1 3.8	1.4 2.6 6.1 21.7 34.0 38.7 29.9 27.2	6.6 10.9 24.8 98.2 147.5 174.8 148.6 134.1	5.0 11.4 21.4 81.4 131.6 110.6 95.8 82.2	11.6 22.3 46.7 179.7 277.4 286.6 243.4 213.7	.1 .2 .6 5.5 6.5 6.1 10.8 5.9	1.9 3.8 9.9 28.7 46.5 52.2 27.4 33.0
Covered by administrative records ²	E9	98	.3	5.2	.2	.4	2.9	13.9	10.2	24.1	.3	4.0
INDUSTRY 3993, SIGNS AND ADVERTISING SPECIALTIES												
Total	E1	4 577	67.5	1 679.9	42.5	86.1	834.2	3 164.8	2 279.2	5 420.1	96.9	603.7
Establishments with an average of — 1 to 4 employees 5 to 9 employees 10 to 19 employees 20 to 49 employees 50 to 9 employees 10 to 1249 employees 25 to 49 employees 50 to 99 employees 50 to 99 employees 50 to 99 employees 50 to 99 employees	E7 E2 E1 E1 E1 	2 283 854 678 477 163 100 20 2	3.7 5.6 9.2 14.5 11.5 14.8 <u>8.2</u> (D)	77.5 117.7 217.6 372.2 322.0 379.0 <u>193.9</u> (D)	2.5 3.6 5.8 9.0 7.3 9.5 <u>4.9</u> (D)	5.0 7.0 11.5 18.1 15.4 19.3 <u>9.8</u> (D)	40.7 63.1 114.2 188.1 153.3 187.4 <u>87.4</u> (D)	168.6 220.3 384.3 707.7 580.9 755.0 <u>348.2</u> (D)	125.2 147.1 257.5 455.6 385.2 550.6 <u>358.0</u> (D)	292.9 366.8 642.2 1 158.0 964.7 1 299.6 <u>696.0</u> (D)	5.3 6.5 10.0 21.0 17.8 22.4 <u>13.9</u> (D)	32.8 41.5 61.1 121.5 98.4 152.1 <u>96.2</u> (D)
Covered by administrative records ²	E9	2 023	3.7	72.5	2.5	4.8	36.8	145.7	109.8	255.5	5.0	26.4

See footnotes at end of table.

MANUFACTURES-INDUSTRY SERIES

MISCELLANEOUS MANUFACTURES 39D-13

TIPS UPF [MCD_SRB,BA_TAYLOR] 5/23/95 16:12:16 EPCV24 TLP:39D_BTI;41 5/23/95 16:10:40 DATA:NONE UPF:DIR:39DDAT.UPF PAGE: 7 TSF:39D_92.DAT;1 5/23/95 16:10:59 UTF:39D_93.DAT;1 5/23/95 16:10:50 UTF:30 UT

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

		All	All em	ployees	Pro	duction wor	rkers	Value added by			New capital	End-of- year
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)	expend- itures (million dollars)	inven- tories (million dollars)
INDUSTRY 3995, BURIAL CASKETS												
Total	-	211	7.8	196.2	6.0	13.4	131.0	660.6	390.6	1 053.3	28.5	110.8
Establishments with an average of — 1 to 4 employees 5 to 9 employees 20 to 19 employees 20 to 49 employees 50 to 99 employees 50 to 99 employees 20 to 19 employees 50 to 99 employees 20 to 249 employees 250 to 499 employees 500 to 999 employees 500 to 999 employees Covered by administrative records ²	E9 E4 E1 E1 E1 E1 E9	78 33 37 13 10 4 3 86	.1 .2 .5 1.1 .9 1.8 <u>3.2</u> (D) .2	2.8 4.4 10.6 23.7 19.4 42.2 <u>93.0</u> (D) 4.3	.1 .2 .4 .9 .8 1.4 <u>2.4</u> (D) .2	.2 .4 .8 1.9 2.9 <u>5.6</u> (D) .4	1.9 2.8 6.8 15.3 13.5 27.9 <u>62.7</u> (D) 2.8	7.0 11.8 24.7 49.0 57.3 131.3 <u>379.5</u> (D) 10.4	6.8 9.9 27.3 60.1 47.3 99.9 <u>139.2</u> (D) 10.0	13.8 21.5 51.7 109.2 104.8 230.4 521.8 (D) 20.4	.4 .6 1.7 1.0 <u>24.4</u> (D) (D) .6	2.2 3.1 7.1 15.4 11.5 24.2 47.5 (D) 3.2
INDUSTRY 3996, HARD SURFACE FLOOR COVERINGS, N.E.C.												
Total	-	28	6.7	240.2	5.2	11.2	179.4	902.7	616.5	1 521.1	65.7	206.2
Establishments with an average of – 1 to 4 employees 5 to 9 employees 10 to 19 employees 20 to 49 employees 10 to 249 employees 50 to 499 employees 500 to 299 employees 500 to 299 employees 1,000 to 2,499 employees 200 to 2,499 employees 200 to 2,499 employees 200 to 2,499 employees	E6 E9 - - - E9	6 3 1 3 6 7 1 1 7	(Z) (D) .1 1.2 5.3 (D) (D) (Z)	.4 (D) 2.2 43.6 <u>193.1</u> (D) (D) .6	(Z) (D) .1 1.0 (D) (D) (Z)	(Z) (D) .1 2.4 <u>8.6</u> (D) (Z)	.3 (D) 1.1 32.3 <u>145.2</u> (D) (D) .4	.9 2.0 (D) 6.1 171.7 <u>721.9</u> (D) (D) 1.4	.8 (D) 3.9 138.3 <u>471.3</u> (D) (D) 1.2	1.7 <u>4.3</u> (D) 10.1 309.4 <u>1 195.6</u> (D) (D) 2.6	(D) (D) (D) (D) (D) (D) (D) (D) (D) (D)	.3 . <u>6</u> (D) 1.5 35.4 <u>168.4</u> (D) (D) .5
INDUSTRY 3999, MANUFACTURING INDUSTRIES, N.E.C.												
Total	E1	3 252	60.0	1 362.8	41.3	82.4	721.2	3 373.1	2 538.0	5 881.3	213.8	1 091.4
Establishments with an average of — 1 to 4 employees 5 to 9 employees 20 to 19 employees 20 to 49 employees 50 to 99 employees 10 to 19 employees 20 to 19 employees 20 to 49 employees 20 to 249 employees 250 to 499 employees 500 to 999 employees 1,000 to 2,499 employees	E7 E3 E1 E1 E1 E1 E1 E1	1 553 520 490 434 151 79 16 7 2	2.0 3.5 6.7 13.1 10.3 12.0 5.4 <u>7.0</u> (D)	44.3 77.6 143.8 285.9 212.9 282.0 122.1 <u>194.1</u> (D)	1.3 2.4 4.5 8.9 7.3 8.1 3.8 <u>5.1</u> (D)	2.8 4.9 17.6 14.3 16.0 7.3 <u>10.6</u> (D)	24.9 44.3 79.3 153.8 117.3 136.6 59.3 <u>105.8</u> (D)	114.5 187.3 322.7 631.8 465.3 708.7 330.0 <u>612.7</u> (D)	82.4 142.2 251.4 468.0 338.0 629.0 241.3 <u>385.7</u> (D)	196.3 329.2 572.7 1 094.8 802.3 1 338.6 564.5 <u>982.8</u> (D)	5.5 6.5 10.9 21.6 18.0 43.7 14.7 <u>92.9</u> (D)	35.8 54.0 86.8 179.7 129.7 301.7 112.0 <u>191.6</u> (D)
Covered by administrative records ²	E9	1 300	2.3	44.6	1.5	3.1	25.2	110.0	79.0	189.0	5.2	35.2

[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. Data shown as (D) are included in underscored figures above.

¹Payroll and sales data for some small single-establishment manufacturing companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other Government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown for those employment-size classes where estimated data based on administrative-record data account for 10 percent or more of figures shown. E1-10 to 19 percent; E2-20 to 29 percent; E3-30 to 39 percent; E4-40 to 49 percent; E5-50 to 59 percent; E6-60 to 69 percent; E7-70 to 79 percent; E8-80 to 89 percent; E9-90 percent or more. ²Report forms were not mailed to small single-establishment companies with up to 20 employees (cutoff varied by industry). Payroll and sales data for 1992 were obtained from administrative records and account for not percent to more of injures shown. Data are also included in respective employment-size classes shown.

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

[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]

Indus- try or		All	All em	ployees	Pro	oduction work	kers	Value added by			New capital
prod- uct class code	Industry or primary product class	estab- lish- ments (number)	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)
3991	Brooms and brushes: All establishments in industry	279	12.6	291.7	8.9	18.8	161.4	745.4	539.5	1 281.4	35.8
39911 39912 39913	Establishments with this product class primary: Brooms	34 38 90	1.7 3.4 6.8	37.5 76.9 163.2	1.2 2.5 4.7	2.6 4.7 10.5	21.8 44.2 87.5	91.1 235.8 384.7	76.3 157.0 279.6	166.3 390.6 664.7	3.3 7.2 24.5
3993	Signs and advertising specialties: All establishments in industry	4 577	67.5	1 679.9	42.5	86.1	834.2	3 164.8	2 279.2	5 420.1	96.9
39931 39932 39933	Establishments with this product class primary: Electric signs	712 759 153	19.1 19.4 10.9	497.7 513.7 248.2	12.2 12.1 6.6	25.3 24.2 13.5	265.3 237.8 119.5	914.6 946.2 490.3	563.8 784.9 330.1	1 467.2 1 723.4 816.0	25.5 30.9 15.0

See footnotes at end of table.

39D–14 MISCELLANEOUS MANUFACTURES

MANUFACTURES-INDUSTRY SERIES

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

[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]

			-								
Indus- try or		All	All em	ployees	Pr	oduction worl	kers	Value added by			New capital
prod- uct class code	Industry or primary product class	estab- lish- ments (number)	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)
		, ,		,	(,,,,	,	,	,	,	,	,
3995	Burial caskets: All establishments in industry	211	7.8	196.2	6.0	13.4	131.0	660.6	390.6	1 053.3	28.5
00054	Establishments with this product class primary:										
39951	Metal caskets and coffins completely lined and trimmed, adult sizes only Wood caskets and coffins, completely lined and	63	4.6	118.5	3.5	7.8	78.3	452.3	242.9	697.6	19.9
39952	Wood caskets and coffins, completely lined and trimmed, adult sizes only	25	1.9	47.5	1.5	3.3	33.8	138.1	69.7	207.6	6.5
39953	trimmed, adult sizes only Other caskets and coffins and metal vaults	25 21	1.0	23.8	.8	1.7	14.6	53.7	63.0	116.6	1.3
3996	Hard surface floor coverings, n.e.c.:										
	All establishments in industry	28	6.7	240.2	5.2	11.2	179.4	902.7	616.5	1 521.1	65.7
3999	Manufacturing industries, n.e.c.:										
	All establishments in industry	3 252	60.0	1 362.8	41.3	82.4	721.2	3 373.1	2 538.0	5 881.3	213.8
39991	Establishments with this product class primary: Chemical fire-extinguishing equipment and parts	24	2.8	73.5	1.8	3.6	34.0	235.7	214.9	455.5	10.5
39992	Coin-operated amusement machines	39	4.3	118.0	2.7	5.5	50.5	243.1	360.2	581.9	42.4
39993	Matches	8	.9	21.2	.7	1.5	13.7	53.9	27.5	81.1	1.3
39994 39996	Candles Furs, dressed and dyed	57 12	3.8 .4	75.1 9.7	2.6 .3	4.0 .6	35.9 5.8	195.8 15.5	137.1 10.6	330.4 25.5	11.1
39997	Umbrellas and parasols Feathers, plumes, and artificial flowers	12	.7	11.9	.5	.9	6.5	28.6	30.9	59.6	(Z) .8
39998	Feathers, plumes, and artificial flowers	53 659	3.0 25.2	51.1	2.4 17.6	4.2 36.7	29.2	122.7	109.6	229.5	3.4 90.1
39999	Miscellaneous fabricated products, n.e.c.	659	25.2	590.5	17.6	36.7	319.6	1 519.0	964.4	2 483.9	90.1

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

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

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

Industry	1992	1987	1982
INDUSTRY 3991, BROOMS AND BRUSHES			
Total value of shipments Primary products value of shipments Secondary products value of shipments Total miscellaneous receipts Value of resales Contract receipts Other miscellaneous receipts	1 281.4 1 105.2 86.0 90.2 88.2 (D) (D)	990.4 778.3 101.3 110.9 106.6 (D) (D)	818.1 677.4 73.7 67.0 64.5 (D) (D)
Primary products specialization ratio	93	88	90
Value of primary products shipments made in all industries Value of primary products shipments made in this industry Value of primary products shipments made in other industries	1 209.0 1 105.2 103.8	856.3 778.3 78.0	763.7 677.4 86.3
Coverage ratio	91	91	89
INDUSTRY 3993, SIGNS AND ADVERTISING SPECIALTIES Total value of shipments Primary products value of shipments Secondary products value of shipments Total miscellaneous receipts Value of resales Contract receipts Other miscellaneous receipts Receipts for repair work	5 420.1 4 784.3 120.9 514.9 236.7 104.4 173.8 66.1	4 282.6 3 782.2 137.4 363.0 175.2 97.8 90.0 (NA)	2 692.4 2 409.6 85.5 197.2 67.6 38.9 90.9 23.0
Other miscellaneous receipts Other miscellaneous receipts, n.s.k.	84.9 22.8	(NA) (NA)	51.7 51.2
Primary products specialization ratio	98	96	97
Value of primary products shipments made in all industries Value of primary products shipments made in this industry Value of primary products shipments made in other industries	4 919.1 4 784.3 134.9	3 885.7 3 782.2 103.5	2 549.3 2 409.6 139.7
Coverage ratio	97	97	95
MANUFACTURES—INDUSTRY SERIES		MISCELLANEOUS MAN	NUFACTURES 39D-15

TIPS UPF [MCD_SRB,BA_TAYLOR] 5/23/95 16:12:16 EPCV24 TLP:39D.BTI;41 5/23/95 16:10:40 DATA:NONE UPF:DIR:39DDAT.UPF PAGE: 9 TSF:39D_92.DAT;1 5/23/95 16:10:59 UTF:39D_93.DAT;1 5/23/95 16:11:00 META:TIPS96-16105258.DAT;1 5/23/95 16:12:02

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

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

Industry	1992	1987	1982
INDUSTRY 3995, BURIAL CASKETS			
Total value of shipments Primary products value of shipments Secondary products value of shipments Total miscellaneous receipts Value of resales Contract receipts Other miscellaneous receipts	1 053.3 1 021.1 (D) (D) (D) (D)	839.9 794.9 4.6 40.4 19.3 (D) (D)	682.1 666.4 2.3 13.4 11.0 (D) (D)
Primary products specialization ratio	(D)	99	100
Value of primary products shipments made in all industries Value of primary products shipments made in this industry Value of primary products shipments made in other industries	1 021.2 1 021.1 .1	798.1 794.9 3.2	672.8 666.4 6.4
Coverage ratio	99	99	99
INDUSTRY 3996, HARD SURFACE FLOOR COVERINGS, N.E.C.			
Total value of shipments Primary products value of shipments Secondary products value of shipments Total miscellaneous receipts Value of resales Contract receipts Other miscellaneous receipts	1 521.1 (D) (D) (D) (D) (D) (D)	1 309.7 (D) (D) (D) (D) (D) (D)	604.1 (D) (D) (D) (D) (D) (D)
Primary products specialization ratio	(D)	(D)	(D)
Value of primary products shipments made in all industries Value of primary products shipments made in this industry Value of primary products shipments made in other industries	1 484.2 (D) (D)	1 240.6 (D) (D)	535.4 (D) (D)
Coverage ratio	(D)	(D)	(D)
INDUSTRY 3999, MANUFACTURING INDUSTRIES, N.E.C.			
Total value of shipments Primary products value of shipments Secondary products value of shipments Total miscellaneous receipts Value of resales Contract receipts Other miscellaneous receipts	5 881.3 4 867.4 372.8 641.1 397.7 209.6 33.8	4 825.1 4 115.6 417.7 291.8 195.2 61.5 35.2	(NA) (NA) (NA) (NA) (NA) (NA)
Primary products specialization ratio	93	93	(NA)
Value of primary products shipments made in all industries Value of primary products shipments made in this industry Value of primary products shipments made in other industries	5 177.6 4 867.4 310.3	4 500.1 4 115.6 384.5	(NA) (NA) (NA)
Coverage ratio	94	93	(NA)

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

39D–16 MISCELLANEOUS MANUFACTURES

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	shipments ¹	Number of	Produ	ct shipments 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	Quantit	Value (million y ² dollars)	
3991– —	BROOMS AND BRUSHES							
	Total	(NA)	(X)	1 209.0	(NA)		X) 856.3	
39911	Brooms	(NA) (NA)	(X)	156.8	(NA)		X) 117.5	
39911 13 39911 98	Household floor brooms Other brooms (industrial brooms, whiskbrooms, toy	35	(X)	71.6	36	(X) 78.7	
20044-00	brooms, hearth brooms, streetsweeping machine brooms, etc.) Brooms, n.s.k.	42		82.4	29		X) 38.4	
39911 00 39912	Paint and varnish brushes, rollers, and pads	(NA) (NA)	(X) (X)		(NA) (NA)) í	X) .4 X) 236.2	
	Whitewash, kalsomine, paperhanging, marking, and stenciling brushes:						,	
39912 11	Made of pure bristle1,000 dozen	21	(S)	43.6	19	2 642	.9 40.7	
39912 33 39912 43	Made of synthetic bristle and other materials, including mixtures Paint pads and holders	35 12	(X) (X)	127.0	25		X) 106.7 X) 8.0	
39912 43	Paint paus and notes Paint rollers, roller frames, and replacement rollers: Complete units1,000	12	(^)	39.7	· · ·		x) 8.0	
39912 83	dozen Roller frames1,000	19	**2 451.5	5 57.4	15	*1 239	.8 27.4	
39912 85	dozen_ Replacement rollers1,000	14	**1 064.0		11	*522		
39912 00	dozen Paint and varnish brushes, rollers, and pads, n.s.k	19 (NA)	*4 295.8 (X)		19 (NA)	*4 403	.2 45.2 X) 2.2	
39913	Other brushes Personal brushes:	(NA)	(X)	631.3	(NA)	(X) 415.6	
39913 21	Toothbrushes1,000 dozen	8	(S)	208.0	5	30 983	.7 82.7	
39913 27	Hairbrushes1,000 dozen	4			(NA)		X) 45.5	
39913 29	Other, including shaving brushes Maintenance brushes, including floor, scrub, dusting, window, etc.:	12						
39913 36 39913 38 39913 43	Household (including any twisted-in-wire brushes) Industrial (including any twisted-in-wire brushes) Industrial brushes (except maintenance) (including power-driven rotary, end, cup, jewelers' and dentists'	25 41	(X) (X)) 86.0) 101.4	23 40	(X) 60.5 X) 100.6	
39913 98	brushes, etc.) Other brushes, including artists' brushes and hair	33	(X)		23	(X) 80.9	
39913 00	pencils, except artists' airbrushes Other brushes, n.s.k.	32 (NA)	(X) (X)) 85.1) .6	20 (NA)		X) 43.1 X) 2.4	
39910 39910 00	Brooms and brushes, n.s.k Brooms and brushes, n.s.k. ³	(NA) (NA)	(X) (X) (X)	60.4 33.0	(NA) (NA)		X) 87.0 X) 58.9	
39910 02	Brooms and brushes, n.s.k. ⁴	(NA)	. ,	27.5	(NA)		X) 28.1	
Product code	Product	col sh \$	1992 Imber of mpanies with ipments of 100,000 or more	Value of product shipments ¹ (million dollars)	co sł	1987 umber of impanies with nipments of \$100,000 or more	Value of product shipments ¹ (million dollars)	
3993- —	SIGNS AND ADVERTISING SPECIALTIES							
	Total		(NA)	4 919.1		(NA)	3 885.7	
39931 39931 12	Electric signs Luminous tubing (neon, argon, hydrogen, etc.)		(NA) 382	1 196.0 345.5		(NA) 280	987.2 233.1	
39931 13	Fluorescent lamp Incandescent bulb signs:		428	412.3		392	398.0	
39931 14 39931 15	Electronic variable message displays		66 54	60.1 71.8		54 35	71.8 43.1	
39931 16	All other electric signs (including combinations of luminous, flourescent, and incadescent)		157	231.9		125	223.1	
39931 00	Electric signs, n.s.k.		(NA)	74.5		(NA)	18.2	
39932 39932 12	Nonelectric signs Metal signs: Screen printed		(NA) 162	1 674.5 157.2		(NA) 140	1 364.8 139.6	
39932 22	Other		247	156.5		166	149.3	
	Screen printed		74 141	55.4 75.4		49 105	27.7 47.6	
39932 32 39932 42	Other							
39932 42 39932 52	Other signs manufactured (printed or unprinted in this establishment): Counters, floor displays, point-of-purchase, and other display materials: Letterpress		27	45.8		28		
39932 42 39932 52 39932 62 39932 72	Other signs manufactured (printed or unprinted in this establishment): Counters, floor displays, point-of-purchase, and other display materials: Letterpress		112 15	327.9 81.0		80 13	183.7 62.2	
39932 42 39932 52 39932 62	Other signs manufactured (printed or unprinted in this establishment): Counters, floor displays, point-of-purchase, and other display materials: Letterpress Screen printed		112	327.9		80	50.1 183.7 62.2 171.9 56.4	

See footnotes at end of table.

MANUFACTURES-INDUSTRY SERIES

MISCELLANEOUS MANUFACTURES 39D-17

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]

Oniphiento									
			199	2			19	87	
Product code	Product	cor sh \$	imber of mpanies with ipments of 100,000 or more		Value of product shipments ¹ (million dollars)	s	umber of ompanies with hipments of \$100,000 or more		Value of product shipments ¹ (million dollars)
3993- —	SIGNS AND ADVERTISING SPECIALTIES-Con.								
39933 39933 00	Advertising specialties Advertising specialties		(NA) 185		725.6 725.6		(NA) 146		393.5 393.5
39930 39930 00 39930 02	Signs and advertising specialties, n.s.k. Signs and advertising specialties, n.s.k. ⁵ Signs and advertising specialties, n.s.k. ⁶		(NA) (NA) (NA)		1 323.1 1 068.3 254.8		(NA) (NA) (NA)		1 140.1 '925.1 215.0
			199	2			19	87	
		Number of	F	roduct sh	nipments ¹	Number of		Product sh	nipments ¹
Product code	Product	companies with shipments of \$100,000 or more	Q	uantity ²	Value (million dollars)	companies with shipments of \$100,000 or more	C	Quantity ²	Value (million dollars)
3995	BURIAL CASKETS								
	Total	(NA)		(X)	1 021.2	(NA)		(X)	798.1
39951 39951 13 39951 15	Metal caskets and coffins completely lined and trimmed, adult sizes only	(NA) 63		(X) 978.6	658.8 473.2	(NA) 59		(X) 985.8	497.9 391.7
39951 00	bronze, copper, etc.) thousands thousands Metal caskets and coffins completely lined and trimmed, adult sizes only, n.s.k.	35 (NA)		*205.5 (X)	184.5 1.0	27 (NA)		152.0 (X)	101.9 4.4
39952 39952 11 39952 52 39952 00	Wood caskets and coffins, completely lined and trimmed, adult sizes only	(NA) 28 44 (NA)		(X) *105.2 *273.0 (X)	217.8 16.0 201.7 .1	(NA) 30 37 (NA)		(X) **122.8 260.6 (X)	160.2 14.7 143.3 2.1
39953 39953 11	Other caskets and coffins and metal vaults Caskets and coffins other than metal or wood, completely lined and trimmed (including plastics,	(NA)		(X)	116.0	(NA)		(X)	75.6
39953 31	fiberglass, foam, etc.)7Caskets shells, KD and SU unlined or untrimmed: Metalthousandsthousands	9		(X) (S)	14.5 43.3	4		(S) (S)	2.0 27.7
39953 58	Other materials (including wood, plastics, fiberglass, foam, masonite, cardboard, fiberboard, etc.)	6		(X)	11.4	11		(S)	23.9
39953 93 39953 00	Burial vaults (except concrete), burial boxes, and casket-shipping containers and cases thousands Other caskets and coffins and metal vaults, n.s.k.	6 (NA)		(S) (X)	23.2 23.6	6 (NA)		(X) (X)	15.4 6.6
39950 39950 00 39950 02	Burial caskets, n.s.k. Burial caskets, n.s.k. ⁵ Burial caskets, n.s.k. ⁶	(NA) (NA) (NA)		(X) (X) (X)	28.6 8.2 20.4	(NA) (NA) (NA)		(X) (X) (X)	64.4 42.0 22.3
			199	2			19	87	
Product code	Product	cor sh \$	Imber of mpanies with ipments of 100,000 or more		Value of product shipments ¹ (million dollars)	si	umber of ompanies with hipments of \$100,000 or more		Value of product shipments ¹ (million dollars)
3996- —	HARD SURFACE FLOOR COVERINGS, N.E.C.								
	Total		(NA)		1 484.2		(NA)		1 240.6
39960 39960 00	Hard floor covering Hard floor covering, including resilient, and other floor coverings (plain or adhesive backed) ⁸		(NA) 17		1 484.2 1 481.6		(NA) (NA)		1 240.6 1 239.8
39960 02	Hard surface floor coverings, n.e.c., n.s.k. ⁶	I	(NA)		2.6	l	(NA)		.8

See footnotes at end of table.

39D-18 MISCELLANEOUS MANUFACTURES

MANUFACTURES-INDUSTRY SERIES

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	
Draduat		Number of companies	Product s	hipments ¹	Number of companies	Product s	hipments ¹
Product code	Product	with shipments			with shipments		
		of \$100,000 or more	Quantity ²	Value (million dollars)	of \$100,000 or more	Quantity ²	Value (million dollars)
3999- —	MANUFACTURING INDUSTRIES, N.E.C.						
	Total	(NA)	(X)	5 177.6	(NA)	(X)	4 500.1
39991	Chemical fire-extinguishing equipment and parts Hand portable extinguishers:	(NA)	(X)	421.8	(NA)	(X)	401.9
39991 13 39991 17 39991 40	Carbon dioxide thousands Dry chemical fire extinguishers Other hand portable extinguishers (including foam,	8 9	(S) (X)	13.2 148.4	5 7	527.3 (X)	23.5 107.5
39991 40 39991 70	pressurized water, and halogenated agents) ⁸ thousands Fixed systems, including inert gas, dry and wet chemical and other chemical fire-extinguishing	8	(S)	91.6	(NA)	899.6	35.9
39991 71	equipment ⁸ Parts and attachments for chemical fire-extinguishing	12	(X)	85.6	(NA)	(X)	206.9
39991 00	equipment Chemical fire-extinguishing equipment and parts, n.s.k	7 (NA)	(X) (X)	21.9 61.2	7 (NA)	(X) (X)	10.4 17.7
39992	Coin-operated amusement machines	(NA)	(X) (X)	576.5	(NA)	(X) (X)	333.7
39992 22	Arcade and amusement center type electronic games	31	(X)	339.6	16	(X)	274.8
39992 99 39992 00	Other amusement machines, including nonelectronic arcade games and parts for all arcade games Coin-operated amusement machines, n.s.k	21 (NA)	(X) (X)	236.0 1.0	15 (NA)	(X) (X)	55.1 3.8
39993 39993 00	Matches Matches	(NA) 8	(X) (X)	67.0 67.0	(NA) 9	(X) (X)	94.1 94.1
39994 39994 00	CandlesCandles (including tapers)	(NA) 60	(X) (X)	359.6 359.6	(NA) 46	(X) (X)	202.1 202.1
39996 39996 11	Furs, dressed and dyed Furs, dressed and dyed Receipts for dressing and dyeing furs done in your	(NA) 9	(X) (X)	25.6 15.0	(NA) 18	(X) (X)	66.6 38.1
39996 93 39996 00	Receipts for dressing and dyeing furs done in your plant on materials owned by others Furs, dressed and dyed, n.s.k.	4 (NA)	(X) (X)	7.4 3.3	9 (NA)	(X) (X)	28.2 .2
39997 39997 00	Umbrellas and parasols Umbrellas and parasols (including parts) ⁸	(NA) 18	(X) (X)	51.3 51.3	(NA) (NA)	(X) (X)	49.4 49.4
39998 39998 13	Feathers, plumes, and artificial flowers Artificial Christmas trees, all types (metal, plastics,	(NA)	(X)	244.9	(NA)	(X)	344.3
	etc.) millions Artifical flowers, fruits, and wreaths:	11	(S)	102.0	19	(S)	104.7
39998 15 39998 17 39998 21	Plastics type	21 10	(X) (X) (X) (X)	7.5 49.5 38.8	19 61 16	(X) (X) (X)	22.8 85.6 47.1
39998 00		(NA)		47.2	(NA)	(X)	84.1
39999 39999 07 39999 11	Miscellaneous fabricated products, n.e.c	(NA) 5	(X) (X)	2 175.7 117.0	(NA) 5	(X) (X)	1 422.0 77.6
39999 13	including barber and beauty chairs Beauty and barber shop accessories (including hair	21	(X)	75.6	15	(X)	46.0
39999 24 39999 42	curlers, pads, and wraps) Hair work, switches, toppes, and wigs Tobacco pipesthousands	12 8 3	(X) (X) (D)	24.9 4.5 (⁹)	11 7 3	(X) (X) (S)	42.7 13.7 (¹⁰)
39999 44	Cigar and cigarette lighters (except precious metal	7	(D)	(9)	3	(S)	(10)
39999 51	and electric) millions Christmas tree ornaments and decorations (except glass and electrical)	36	(X)	129.0	23	(3) (X)	53.9
39999 61 39999 81	Lamp shades, excluding plastics, metal, and glass	51	(X)	78.8	26	(X)	28.8
39999 99	foilage, fruits, and vines) ⁸	38 599	(X) (X)	⁹ 1 569.0	(NA) (NA)	(NA) (X)	(¹⁰) ¹⁰ 1 080.8
39999 00	Miscellaneous fabricated products, n.e.c., n.s.k.	(NA)	(X) (X)	72.9	(NA) (NA)	(X) (X)	78.5
39990 39990 00 39990 02	Manufacturing industries, n.e.c., n.s.k Manufacturing industries, n.e.c., n.s.k ⁵ Manufacturing industries, n.e.c., n.s.k ⁶	(NA) (NA) (NA)	(X) (X) (X)	1 255.1 1 066.2 188.8	(NA) (NA) (NA)	(X) (X) (X)	1 586.1 1 147.6 438.5

¹Data reported by all producers, not just those with shipments of \$100,000 or more. ²For some establishments, data have been estimated from central unit values which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: *10 to 19 percent estimated; **20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S). ³Typically for establishments with 10 employees or more. ⁴Typically for establishments with less than 10 employees. ⁶Typically for establishments with less than 5 employees. ⁶Typically for establishments with less than 5 employees. ⁷Including all child sizes, regardless of material. ⁸For 1992, products are combined to avoid disclosing data for individual companies. ¹⁰For 1987, products are combined to avoid disclosing data for individual companies.

MANUFACTURES-INDUSTRY SERIES

MISCELLANEOUS MANUFACTURES 39D-19

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	1987 value of product shipments	Product class and geographic area	1992 value of product shipments	1987 value of product shipments
			39932, NONELECTRIC SIGNS—Con.		
United States	156.8	117.5	Indiana	20.5	23.6
California	6.0	9.4	lowa	19.7	(NA)
Illinois	24.1	23.8	Kansas	3.6	(NA) 14.0
Massachusetts	6.3	(NA)	Louisiana	10.4	5.7
Ohio Pennsylvania	26.8	15.0 (NA)			
Texas	8.5	5.4	Maine	4.1	(NA)
Wisconsin	9.6	(NA)	Maryland Massachusetts	32.3 14.7	17.1 34.9
39912, PAINT AND VARNISH BRUSHES, ROLLERS, AND PADS			Michigan Minnesota	109.3 17.9	141.6 7.2
United States	360.5	236.2	Missouri	60.5	38.9
			Nevada New Hampshire	2.9	(NA) 5.8
Illinois New Jersey	21.3	10.2	New Jersey	108.1	64.4
New York	51.1	33.3	New York	165.9	177.0
			North Carolina	29.0	23.6
39913, OTHER BRUSHES			Ohio	202.1	107.3
United States	631.3	415.6	Oregon	7.6	3.7 57.7
California	26.7	20.8	Pennsylvania Rhode Island	7.0	11.0
Illinois	51.6	34.4			
Massachusetts	49.8	37.3	South Carolina	8.0	9.6
Michigan New Jersey	7.7	(NA) 12.1	Tennessee Texas	13.6	15.9 52.5
-			Virginia	18.9	28.9
New York Ohio	36.2 79.2	29.5 61.7	Washington	17.7	8.4
Pennsylvania	39.5	(NA)	Wisconsin	80.5	48.7
Texas	12.0	7.2			
Wisconsin	24.6	23.2	39933, ADVERTISING SPECIALTIES		
39931, ELECTRIC SIGNS			United States	725.6	393.5
United States	1 196.0	987.2			
			Arkansas California	3.3	(NA) 23.1
Alabama	26.0	19.4	Florida	31.6	(NA)
ArizonaArkansas	11.1	9.1 (NA)	Illinois	57.8	63.5
California	122.6	100.2	Indiana	4.0	(NA)
Colorado	12.5	11.4	Kentucky	5.9	(NA)
Connecticut	5.5	(NA)	Maryland	3.5	(NA)
Florida	49.8	32.3	Massachusetts	6.4 36.7	16.6 25.4
GeorgiaIdaho	7.3	(NA)	Minnesota	70.4	5.8
Illinois	81.3	79.1			
Indiana	16.2	8.9	New York	99.8	44.3
lowa	17.3	11.8	Ohio Pennsylvania	18.4 46.3	4.9 24.4
Kansas	9.1	6.7	Rhode Island	33.1	28.1
Kentucky Louisiana	12.5	(NA) 2.6	Tennessee	28.0	18.3
	16.3	22.3	Texas Wisconsin	5.5 50.1	5.7 (NA)
Maryland Massachusetts	13.2	7.1		00.1	(10)
Michigan	39.9	25.4	20051 METAL CASKETS AND COEFINS		
Minnesota Missouri	41.8	17.2	39951, METAL CASKETS AND COFFINS COMPLETELY LINED AND TRIMMED,		
			ADULT SIZES ONLY		
NebraskaNevada	6.4 40.2	6.4 24.2			
New Hampshire	3.8	3.3	United States	658.8	497.9
New Jersey	9.6	12.1	Alabama	7.0	7.9
New Mexico	4.3	(NA)	California	3.9	3.4
New York	59.4	38.6	Florida Indiana	3.4 278.2	2.8 194.8
North Carolina North Dakota	25.1 3.9	22.1 5.0	North Carolina	6.1	9.2
Ohio	65.3	72.2	Pennsylvania	10.9	7.5
Oklahoma	6.8	3.7	Texas	8.0	(NA)
Oregon	6.7	8.8	20052 WOOD CASKETS AND COFFING		
Pennsylvania	45.7	22.7	39952, WOOD CASKETS AND COFFINS, COMPLETELY LINED AND TRIMMED,		
Rhode Island South Carolina	2.8	(NA) 15.4	ADULT SIZES ONLY		
Tennessee	68.9	97.7			
Texas	87.8	99.9	United States	217.8	160.2
Utah	21.8	18.5	California	5.3	4.8
Virginia	20.4	7.1	Indiana	8.9	6.8
WashingtonWisconsin	31.8	31.6 53.8	Massachusetts	7.9	7.9 (NA)
	51.2	55.0	North Carolina Pennsylvania	5.0 43.7	(NA) 45.2
39932, NONELECTRIC SIGNS					
	1 674 5	1 364.8	39953, OTHER CASKETS AND COFFINS AND		
United States	1 674.5		METAL VAULTS		
Alabama	22.5	(NA) 10.3	United States	116.0	75.6
ArizonaCalifornia	10.6	10.3		110.0	
Colorado	10.3	7.3	California	3.1	3.7
Connecticut	5.4	6.4	Indiana	33.5	21.9
District of Columbia	2.2	4.5			
Florida	54.8	19.3	39991, CHEMICAL FIRE-EXTINGUISHING		
Georgia Hawaii	46.8	40.1 (NA)	EQUIPMENT AND PARTS		
	247.6	210.8	United States	421.8	401.9

See footnotes at end of table.

39D-20 MISCELLANEOUS MANUFACTURES

MANUFACTURES-INDUSTRY SERIES

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

[Million dollars. Product classes shown are those where the data are geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some States are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 1992. For meaning of abbreviations and symbols, see introductory text]

Product class and geographic area	1992 value of product shipments	1987 value of product shipments	Product class and geographic area	1992 value of product shipments	1987 value of product shipments
39992, COIN-OPERATED AMUSEMENT MACHINES			39998, FEATHERS, PLUMES, AND ARTIFICIAL FLOWERS		
United States	E70 E	222.7	United States	244.9	344.3
United States	576.5	333.7	California	22.3	57.3
California	65.2	57.7	New York	54.4 3.7	81.4
Illinois	192.2	199.8		3.7	5.0
			39999, MISCELLANEOUS FABRICATED PRODUCTS, N.E.C.		
39993, MATCHES			United States	2 175.7	1 422.0
United States	67.0	94.1		32.1	(NA)
	07.0	54.1	Arizona	8.0	11.9
Illinois	12.9	11.0	Arkansas California	42.6 333.5	18.9 183.0
111111015	12.5	11.0	Colorado	13.6	6.8
			Connecticut	109.8	129.0
39994, CANDLES			Florida	57.7	22.3 99.5
United States	359.6	202.1	Indiana	31.1	9.9
			lowa	6.1	(NA)
California	39.6	18.9	Kansas	59.5	(NA)
Massachusetts	59.8	23.9	Kentucky	13.5	11.1 (NA)
Missouri New Jersey	8.5 13.7	(NA) 5.6	Maryland	8.6	11.0
New York	29.8	35.7	Massachusetts	62.9	44.5
Ohio	62.4	(NA)	Michigan	50.0	8.3
Pennsylvania	5.8	2.9	Michigan	65.0	37.0
Texas	21.9	10.8	Missouri	32.0	18.8
			Nebraska	10.2	6.1
			Nevada	5.7	(NA)
39996, FURS, DRESSED AND DYED			New Hampshire	2.4	(NA)
			New Jersey	81.1	72.3
United States	25.6	66.6	New Mexico	2.3	(NA)
			New YorkNorth Carolina	132.5	110.6 50.8
New Jersey	3.8	(NA)			50.6
New York	18.6	56.8	Ohio	88.2	25.3
			Oregon	15.1	5.7
			Pennsylvania Rhode Island	152.8	109.5 29.3
39997, UMBRELLAS AND PARASOLS			South Carolina	8.7	(NA)
United States	51.3	49.4	Tennessee	75.3	49.2
			Texas	70.1	30.9
O - l'éta ma i -			Virginia	41.0	(NA)
California	11.9	14.8	Washington	28.1	12.3
	10.3	14.0	VVISCUIISIII	13.9	51.1

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

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

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

Product class Brooms and brushes	1992	1991 ¹	1990 ¹	1989 ¹	1988 ¹	1987	1982	1977
Brooms and brushes					1000	1907	1902	1977
Brooms Paint and varnish brushes, rollers, and pads Other brushes Brooms and brushes, n.s.k	1 209.0 156.8 360.5 631.3 60.4	1 132.9 129.4 331.3 578.8 93.4	1 107.7 133.8 325.0 537.4 111.4	1 036.2 135.6 322.4 490.5 87.6	960.9 137.5 281.3 458.2 83.9	856.3 117.5 236.2 415.6 87.0	763.7 134.2 223.0 372.8 33.7	620.8 83.0 184.5 309.5 43.8
Signs and advertising specialties Electric signs Nonelectric signs Advertising specialties Signs and advertising specialties, n.s.k.	4 919.1 1 196.0 1 674.5 725.6 1 323.1	4 332.9 1 108.5 1 786.6 524.7 913.2	4 458.0 1 245.4 1 658.7 475.7 1 078.2	4 346.7 1 115.9 1 585.6 489.2 1 156.0	4 382.3 1 106.8 1 519.8 485.9 1 269.9	3 885.7 987.2 1 364.8 393.5 1 140.1	2 549.3 683.4 1 000.1 268.9 596.9	1 606.9 349.8 615.6 262.5 379.0
Burial caskets	1 021.2	1 118.4	1 062.6	894.4	861.6	798.1	672.8	494.8
sizes only	658.8	799.0	760.7	623.8	546.8	497.9	429.5	298.1
Sizes only	217.8 116.0 28.6	135.9 92.4 91.2	134.5 80.8 86.5	120.2 79.0 71.5	171.3 77.8 65.8	160.2 75.6 64.4	115.1 87.7 40.5	85.6 79.2 31.9
Hard surface floor coverings, n.e.c	1 484.2 1 484.2	1 361.1 1 361.1	1 317.0 1 317.0	1 344.1 1 344.1	1 297.6 1 297.6	1 240.6 1 240.6	535.4 535.4	561.3 561.3
	Paint and varnish brushes, rollers, and pads Other brushes Brooms and brushes, n.s.k Signs and advertising specialties Advertising specialties Signs and advertising specialties, n.s.k Burial caskets and coffins completely lined and trimmed, adult sizes only Wood caskets and coffins, completely lined and trimmed, adult sizes only Other caskets and coffins and metal vaults Burial caskets, n.s.k Hard surface floor coverings, n.e.c.	Paint and varnish brushes, rollers, and pads 360.5 Other brushes 631.3 Brooms and brushes, n.s.k. 60.4 Signs and advertising specialties 1 196.0 Nonelectric signs 1 674.5 Advertising specialties 725.6 Signs and advertising specialties, n.s.k. 1 323.1 Burial caskets 1 021.2 Metal caskets and coffins completely lined and trimmed, adult sizes only 658.8 Other caskets and coffins and metal vaults 116.0 Burial caskets, n.s.k. 217.8 Other caskets, n.s.k. 28.6 Hard floor covering, n.e.c. 1 484.2	Paint and varnish brushes, rollers, and pads 360.5 331.3 Other brushes 60.4 93.4 Brooms and brushes, n.s.k. 60.4 93.4 Signs and advertising specialties 1 196.0 1 108.5 Nonelectric signs 1 674.5 1 786.6 Advertising specialties 725.6 524.7 Signs and advertising specialties, n.s.k. 1 323.1 913.2 Burial caskets 1 021.2 1 118.4 Metal caskets and coffins completely lined and trimmed, adult sizes only 217.8 799.0 Wood caskets and coffins and metal vaults 116.0 92.4 Burial caskets, n.s.k. 217.8 135.9 Other caskets and coffins and metal vaults 116.0 92.4 Burial caskets, n.s.k. 1 36.1 1484.2 1 361.1 Hard floor covering 1 484.2 1 361.1 1 361.1	Paint and varish brushes, rollers, and pads 360.5 331.3 325.0 Other brushes 60.4 93.4 537.4 Brooms and brushes, n.s.k. 60.4 93.4 111.4 Signs and advertising specialties 1 196.0 1 108.5 1 245.4 Nonelectric signs 1 674.5 1 786.6 1 658.7 Advertising specialties 725.6 524.7 4 75.7 Signs and advertising specialties 725.6 524.7 4 75.7 Signs and advertising specialties, n.s.k. 1 323.1 913.2 1 078.2 Burial caskets 1 021.2 1 118.4 1 062.6 Metal caskets and coffins completely lined and trimmed, adult sizes only 217.8 135.9 134.5 Other caskets and coffins and metal vaults 216.0 92.4 80.8 8 Burial caskets, n.s.k. 28.6 91.2 86.5 Hard floor covering 1 484.2 1 361.1 1 317.0	Paint and varnish brushes, rollers, and pads 360.5 331.3 325.0 322.4 Other brushes 578.8 537.4 490.5 Brooms and brushes, n.s.k. 60.4 93.4 111.4 87.6 Signs and advertising specialties 1 196.0 1 108.5 1 245.4 1 115.9 Nonelectric signs 1 196.0 1 108.5 1 245.4 1 159.6 Advertising specialties 725.6 524.7 475.7 489.2 1 156.0 Burial caskets 1 021.2 1 118.4 1 062.6 894.4 Metal caskets and coffins completely lined and trimmed, adult sizes only 513.4 120.2 1 156.0 Burial caskets and coffins and metal vaults 217.8 135.9 134.5 120.2 Other caskets and coffins and metal vaults 28.6 91.2 86.5 71.5 Hard surface floor coverings, n.e.c. 1 484.2 1 361.1 1 317.0 1 Hard floor covering 1 444.2 1 361.1	Paint and varnish brushes, nollers, and pads 360.5 331.3 325.0 322.4 281.3 Other brushes 631.3 578.8 537.4 490.5 458.0 Brooms and brushes, n.s.k 60.4 93.4 111.4 87.6 83.9 Signs and advertising specialties 4 919.1 4 332.9 4 458.0 4 346.7 4 382.3 Electric signs 1 196.0 1 108.5 1 245.4 1 115.9 1 106.8 Advertising specialties 725.6 524.7 475.7 489.2 485.9 325.0 1 269.9 Burial caskets 1 021.2 1 118.4 1 062.6 894.4 861.6 Metal caskets and coffins, completely lined and trimmed, adult sizes only 217.8 134.5 120.2 171.3 Other caskets and coffins and metal vaults 28.6 91.2 86.5 71.5 65.8 Burial caskets, n.s.k 28.6 91.2 86.5 71.5 65.8 Hard surface floor coverings, n.e.c 1	Paint and varnish brushes, rollers, and pads 360.5 331.3 325.0 322.4 281.3 236.2 Other brushes 631.3 578.8 537.4 490.5 458.2 415.6 Brooms and brushes, n.s.k 60.4 93.4 111.4 87.6 83.9 87.0 Signs and advertising specialties 4 919.1 4 332.9 4 458.0 4 346.7 4 382.3 3 885.7 Electric signs 1 196.0 1 108.5 1 245.4 1 115.9 1 106.8 987.2 Nonelectric signs 725.6 524.7 475.7 489.2 485.9 333.5 333.5 335.5 335.5 335.5 335.5 1323.1 913.2 1 078.2 1 156.0 1 269.9 1 140.1 Brail caskets and coffins completely lined and trimmed, adult 528.8 799.0 760.7 623.8 546.8 497.9 Wood caskets and coffins and metal vaults 217.8 135.9 134.5 120.2 171.3 160.2	Paint and varnish brushes, rollers, and pads 360.5 331.3 325.0 322.4 281.3 236.2 223.0 Other brushes 631.3 578.8 537.4 490.5 458.2 415.6 372.8 Brooms and brushes, n.s.k 60.4 93.4 111.4 87.6 83.9 87.0 33.7 Signs and advertising specialties 1 196.0 1 108.5 1 245.4 1 115.9 1 106.8 987.2 683.4 Nonelectric signs 1 196.0 1 108.5 1 245.4 1 151.9 1 364.5 383.4 1000.1 Advertising specialties 725.6 524.7 475.7 489.2 445.9 393.5 268.9 Signs and advertising specialties, n.s.k 1 323.1 913.2 1 078.2 1 166.4 798.1 672.8 Signs and advertising specialties, n.s.k 1 323.1 913.2 1 078.2 1 166.5 798.1 672.8 Burial caskets 1 021.2 1 118.4

See footnotes at end of table.

MANUFACTURES-INDUSTRY SERIES

MISCELLANEOUS MANUFACTURES 39D-21

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

-									
Product code	Product class	1992	1991 ¹	1990 ¹	1989 ¹	1988 ¹	1987	1982	1977
3999- 39991 39992 39993 39994 39996 39997 39998 39999 39999	Manufacturing industries, n.e.c Chemical fire-extinguishing equipment and parts Coin-operated amusement machines Matches Candles Furs, dressed and dyed Umbrellas and parasols Feathers, plumes, and artificial flowers Miscellaneous fabricated products, n.e.c. Manufacturing industries, n.e.c., n.s.k.	5 177.6 421.8 576.5 67.0 359.6 25.6 51.3 244.9 2 175.7 1 255.1	4 946.7 421.5 (D) 84.8 224.1 (D) 31.5 380.7 1 500.1 1 904.0	5 037.6 389.1 395.3 219.3 53.3 31.2 420.5 1 489.1 1 983.4	4 682.9 435.9 56.2 223.3 33.1 410.6 1 406.1 1 726.8	4 757.1 420.0 296.8 94.7 201.0 57.5 77.8 396.8 1 508.6 1 703.9	4 500.1 401.9 333.7 94.1 202.1 66.6 49.4 344.3 1 422.0 1 586.1	4 119.8 333.5 1 086.9 97.1 257.6 96.7 64.9 (NA) 1 070.6 874.6	2 749.1 216.8 242.2 105.5 160.3 76.2 36.0 (NA) 1 137.7 614.2

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

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

Table 7. Materials Consumed by Kind: 1992 and 1987

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

Material code	Material	1992 delivered cost (million dollars)	1987 delivered cost (million dollars)
	INDUSTRY 3991, BROOMS AND BRUSHES		
	Materials, ingredients, containers, and supplies	446.3	357.3
349930 346901 340062 330091 346000	Fabricated metal products (except castings and forgings): Ferrules	7.9 5.6 7.2 5	(NA) (NA) (NA) (NA)
331251 331058 336002 011903 220010	products): Steel: Brush wire Other All nonferrous shapes and forms Broomcorn Yarns and textiles made of cotton, wool, silk, and manmade fibers	19.6 11.3 6.3 9.1 35.8	(NA) (NA) (NA) (NA) (NA)
242101 249951 265001 282104 308007 399991 970099 971000	Lumber and wood products except furniture: Rough and dressed lumber	3.4 30.0 5.3 29.4 47.7 62.6 16.3 102.5 45.9	(NA) (NA) (NA) (NA) (NA) (NA) (NA) (NA)
	INDUSTRY 3993, SIGNS AND ADVERTISING SPECIALTIES		
	Materials, ingredients, containers, and supplies	1 796.1	1 414.1
243001 260001	Veneer and plywood Paper and paperboard products, including paperboard boxes, containers, and corrugated paperboard	61.9 154.6	44.3 82.3
282104 285101 308007	Chemicals and allied products: Plastics resins consumed in the form of granules, pellets, powders, liquids, etc	41.9 34.1 178.3	28.6 39.2 148.4
342903 340070 330091 346000	Fabricated metal products (except castings and forgings): Metal hardware, including hinges, handles, locks, casters, etc All other fabricated metal products Castings (rough and semifinished) Forgings	33.7 89.6 2.9 .5	20.8 (3) (3) (3) (3)
331002 336002 361201 970099 971000	Shapes and forms (except castings, forgings, and fabricated metal products): SteelAll nonferrous shapes and forms Specialty transformers and fluorescent ballasts All other materials and components, parts, containers, and supplies Materials, ingredients, containers, and supplies, n.s.k. ²	31.6 38.6 51.3 420.4 656.8	62.1 91.0 40.7 285.4 571.3

See footnotes at end of table.

39D-22 MISCELLANEOUS MANUFACTURES

MANUFACTURES-INDUSTRY SERIES

TIPS UPF [MCD_SRB,BA_TAYLOR] 5/23/95 16:12:16 EPCV24 TLP:39D.BTI;41 5/23/95 16:10:40 DATA:NONE UPF:DIR:39DDAT.UPF PAGE: 16 TSF:39D_92.DAT;1 5/23/95 16:10:59 UTF:39D_93.DAT;1 5/23/95 16:11:00 META:TIPS96-16105258.DAT;1 5/23/95 16:12:02

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

[Includes cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see Cost of Materials in appendixes. For meaning of

Material	Material		1992 delivered cost		1987 delivered cost	
code			(million dollars)		(million dollars)	
	INDUSTRY 3995, BURIAL CASKETS					
	Materials, ingredients, containers, and supplies		357.1		333.3	
220123 242101	Cotton, wool, manmade fiber fabrics, etcRough and dressed lumber		55.1 40.0		44.5 31.0	
342902	Fabricated metal products (excluding castings and forgings): Casket and casket shell hardware, metal		59.8		48.8	
340069 330091	Castings (rough and semifinished)		11.8		(3) (3) (3) (3)	
346000	Forgings		(4) (4)		(3)	
	Shapes and forms (except castings, forgings, and fabricated metal products):					
331002 336002	Steel All nonferrous shapes and forms		69.0 19.0		72.2 (³)	
285101 970099	Paints, varnishes, lacquers, stains, shellacs, japans, enamels, and allied products		21.1 ⁴ 37.0		15.5 80.1	
971000	Materials, ingredients, containers, and supplies, n.s.k. ²		44.4		41.2	
	INDUSTRY 3996, HARD SURFACE FLOOR COVERINGS,					
	N.E.C.					
	Materials, ingredients, containers, and supplies		547.3		497.6	
149971 262190	Asbestos, crude (including fiber) Building paper and board		(5) (5)		(6)	
280023	Chemicals and allied products: Pigments, organic and inorganic		29.0		22.4	
282104 282202	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc		229.9		181.0	
282202 280060 324101	Synthetic rubber Other chemicals and allied products Portland cement		(°) 41.6			
970099 971000	All other materials and components, parts, containers, and supplies Materials, ingredients, containers, and supplies, n.s.k. ²		⁵ 239.7 7.1		⁶ 288.5 5.7	
		19	92	1987		
Material code	Material		Delivered cost (million		Delivered cost (million	
		Quantity ¹	dollars)	Quantity ¹	dollars)	
	INDUSTRY 3999, MANUFACTURING INDUSTRIES, N.E.C.					
	Materials, ingredients, containers, and supplies	(X)	2 104.1	(X)	1 733.2	
340091 330091	Fabricated metal products (except castings and forgings)		163.5 11.6	(X) (X)	(3) (3) (3)	
346000	Castings (rough and semifinished) Forgings	(X)	4.7	(X)	33	
	Shapes and forms (except castings, forgings, and fabricated metal products):					
331002 335105	Steel Copper and copper-base alloy 1,000 s tons	(X) (S)	63.9 15.6	(X) **11.8	85.2 19.1	
335001 335099 308007	Aluminum and aluminum-base alloy 1,000 s tons All other nonferrous shapes and forms Plastics products consumed in the form of sheets, rods,	(S) (S) (X)	19.2 5.0	*35.8 (X)	31.4 (³)	
282104	Plastics products consumed in the form of granules, rods, tubes, and other shapes Plastics resins consumed in the form of granules, pellets,	(X)	92.0	(X)	55.5	
265001	powders, liquids, etc Paperboard containers, boxes, and corrugated paperboard	(X) (X)	42.1 81.6	(X) (X)	32.7 47.3	
242101 970099	Rough and dressed lumber All other materials and components, parts, containers, and	(X)	37.7	(X)	25.8	
971000	supplies Materials, ingredients, containers, and supplies, n.s.k. ²	(X) (X)	792.0 775.4	(X) (X)	656.9 779.3	

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, materials were not collected separately but were included in code 970099 of the industry in which the material was consumed. ⁴For 1992, materials are combined to avoid disclosing data for individual companies. ⁶For 1927, materials were combined to avoid disclosing data for individual companies. ⁶For 1987, materials were combined to avoid disclosing data for individual companies.

MANUFACTURES-INDUSTRY SERIES

MISCELLANEOUS MANUFACTURES 39D-23

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	
39141 70	39141 51	39444 36	39444 35	39495 69	39495 74	39530 37	39530 00	
39141 70	39141 69			39495 69	39495 76	39530 98	39530 00	
	00440.55	39445 16	39445 15	39495 70 39495 70	39495 72 39495 73	39551 10	39551 00	
39142 70	39142 55	39445 16	39445 17	39495 70	39495 73	39551 15	39551 00	
39142 70	39142 69	39445 30 39445 30	39445 27 39445 29	39495 91	39495 87	39551 20	39551 00	
00044.07	00011.01	39445 30	39445 29	39495 91	39495 88	33331 20	55551 00	
39314 27 39314 27	39314 24 39314 25	39491 06	39491 01	39495 99	39495 05	39610 72	39610 65	
39314 27	39314 25	39491 06	39491 01	39495 99	39495 81	39610 72	39610 71	
39314 27	39314 20	39491 06	39491 05	39495 99	39495 98	39610 96	39610 93	
39420 12	39420 09	39491 11	39491 07			39610 96	39610 95	
39420 12	39420 09	39491 11	39491 09	39511 02	39511 00			
39420 21	39420 22	39491 11	39491 10	39511 04	39511 00	39656 25	39656 21	
39420 21	39420 23			39511 13	39511 00	39656 25	39656 32	
39420 21	39420 24	39494	39496				00000 44	
39420 21	39420 25	39494 01	39496 01	39512 02	39512 00	39960 00	39960 11	
39420 43	39420 26	39494 02	39496 02	39512 06	39512 00	39960 00 39960 00	39960 21 39960 26	
39420 43	39420 37	39494 03	39496 03			39960 00	39960 20	
39420 43	39420 39	39494 04	39496 04	39513 05	39513 00	39960 00	39960 98	
39420 43	39420 40	39494 05	39496 05	39513 10	39513 00	33300 00	55500 50	
39420 43	39420 42	39494 06	39496 06	39513 13	39513 00	39991 40	39991 18	
				39513 25	39513 00	39991 40	39991 41	
39443 16	39443 11	39495 36	39495 34			39991 70	39991 51	
39443 16	39443 15	39495 36	39495 35	39523 10	39523 00	39991 70	39991 61	
39443 97 39443 97	39443 33 39443 47	39495 51	39495 43	39523 13	39523 00	39991 70	39991 69	
39443 97	39443 47	39495 51	39495 48	39523 22	39523 00			
39443 91	39443 90	39495 51	39495 50			39997 00	39997 11	
00444.00	00444.47	39495 53	39495 52	39530 13	39530 00	00000 04	22222 22	
39444 20	39444 17	39495 53	39495 55	39530 15	39530 00	39999 81	39999 98	
39444 20	39444 19	39495 64	39495 82	39530 33	39530 00	39999 99	39997 51	
39444 36	39444 34	39495 64	39495 83	39530 35	39530 00	39999 99	39999 98	

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

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

1987	1992	1987	1992	1987	1992	1987	1992
9141 51	39141 70	39444 35	39444 36	39495 88	39495 91	39530 00	39530 37
9141 69	39141 70			39495 98	39495 99	39530 00	39530 98
		39445 15	39445 16				
9142 55	39142 70	39445 17	39445 16	39496	39494	39551 00	39551 10
9142 69	39142 70	39445 27	39445 30	39496 01	39494 01	39551 00	39551 15
		39445 29	39445 30	39496 02	39494 02	39551 00	39551 20
9314 24	39314 27			39496 03	39494 03		
9314 25	39314 27	39491 01	39491 06	39496 04	39494 04	39610 65	39610 72
9314 26	39314 27	39491 03	39491 06	39496 05	39494 05	39610 71	39610 72
5514 20	55514 27	39491 05	39491 06	39496 06	39494 06	39610 93	39610 96
420 09	39420 12	39491 07	39491 11			39610 95	39610 96
9420 09 9420 11	39420 12	39491 09	39491 11	39511 00	39511 02		
9420 22	39420 12	39491 10	39491 11	39511 00	39511 04	39656 21	39656 25
9420 22	39420 21			39511 00	39511 13	39656 32	39656 25
9420 23	39420 21	39495 05	39495 99	0001100	0001110		
9420 24	39420 21	39495 34	39495 36	39512 00	39512 02	39960 11	39960 00
9420 25	39420 21	39495 35	39495 36	39512 00	39512 02	39960 21	39960 00
9420 20	39420 43	39495 43	39495 51	39512 00	39312 00	39960 26	39960 00
9420 37	39420 43	39495 48	39495 51	00540.00	00540.05	39960 29	39960 00
9420 39	39420 43	39495 50	39495 51	39513 00	39513 05	39960 98	39960 00
9420 40	39420 43	39495 52	39495 53	39513 00	39513 10		
9420 42	39420 43	39495 55	39495 53	39513 00	39513 13	39991 18	39991 40
9443 11	39443 16	39495 72	39495 70	39513 00	39513 25	39991 41	39991 40
9443 11	39443 16	39495 73	39495 70			39991 51	39991 70
9443 15	39443 16	39495 73	39495 71	39523 00	39523 10	39991 61	39991 70
				39523 00	39523 13	39991 69	39991 70
9443 47	39443 97	39495 74	39495 69	39523 00	39523 22	1	
9443 98	39443 97	39495 76	39495 69			39997 11	39997 00
		39495 81	39495 99	39530 00	39530 13	39997 51	39999 99
444 17	39444 20	39495 82	39495 64	39530 00	39530 15	1	
9444 19	39444 20	39495 83	39495 64	39530 00	39530 33	39999 98	39999 81
9444 34	39444 36	39495 87	39495 91	39530 00	39530 35	39999 98	39999 99

MANUFACTURES-INDUSTRY SERIES

TIPS [UPF] BATCH_1674 [APS_PPGB,C_BROOKS] APS-PPGB 1/ 6/95 8:59 AM MACHINE: MCVX26 DATA:NONE TAPE: NOreel FRAME: 1 TSF:TIPS92-08581280.DAT;1 1/ 6/95 08:58:20 UTF:TIPS93-08581280.DAT;1 1/ 6/95 08:58:21 META:TIPS96-08581280.DAT;1 1/ 6/95 08:58:55

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.