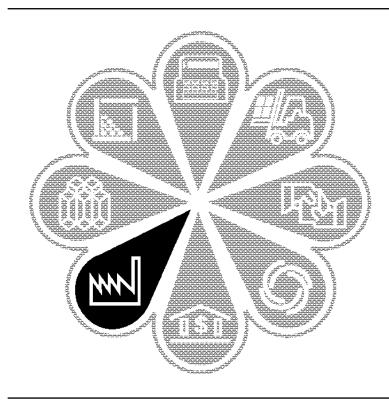
1992Census of Manufactures

MC92-I-20I

INDUSTRY SERIES

Miscellaneous Food and Kindred Products

Industries 2091, 2092, 2095, 2096, 2097, 2098, and 2099



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

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



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Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

The economic census is the major source of facts about the structure and functioning of the Nation's economy. It provides essential information for government, business, industry, and the general public.

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

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

State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.

Trade associations study trends in their own and competing industries and keep their members informed of market changes.

Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

AUTHORITY AND SCOPE

Title 13 of the United States Code (sections 131, 191, and 224) directs the Census Bureau to take the economic census every 5 years, covering years ending in 2 and 7. The 1992 Economic Census consists of the following eight censuses:

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

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

AVAILABILITY OF THE DATA

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

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

WHAT'S NEW IN 1992

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

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

HISTORICAL INFORMATION

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

The economic census traces its beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for 1840 and subsequent censuses to include mining and some commercial activities. In 1902, Congress established a permanent Census Bureau and directed that a census of manufactures be taken every 5 years. The 1905 Manufactures Census was the first time a census was taken apart from the regular every-10-year population census.

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

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

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

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

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

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

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

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

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the *Guide to the 1992 Economic Census and Related Statistics*. More information on the methodology, procedures, and history of the census will be published in the *History of the 1992 Economic Census*. Contact Customer Services for information on availability.

Census of Manufactures

GENERAL

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

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

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

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

SCOPE OF CENSUS AND DEFINITION OF **MANUFACTURING**

The 1992 Census of Manufactures covers all establishments with one paid employee or more primarily engaged in manufacturing as defined in the 1987 Standard Industrial Classification (SIC) Manual 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 four-digit SIC level. This was especially true whenever there was a relatively fine line of demarcation between industries or between manufacturing and nonmanufacturing activity.

Sometimes these administrative-records cases were only given a two- or three-digit SIC group. For the 1992 Census of Manufactures, these establishments were sent a separate classification form, which requested information on the products and services of the establishment. This form was used to code many of these establishments to the four-digit SIC level. Establishments that did not return the classification form were coded later to those four-digit SIC industries identified as "not elsewhere classified" (n.e.c.) within the given two- or three-digit industry groups.

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

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

- 2. **Establishments sent a report form.** The over 237,000 establishments covered in the mail canvass were divided into three groups:
 - a. ASM sample establishments. This group consisted of approximately 62,000 establishments covering all the units of large manufacturing establishments as well as a sample of the medium and smaller establishments. The probability of selection was proportionate to size (see Appendix B, Annual Survey of Manufactures).

In a census of manufactures year, the ASM report form (MA-1000) replaces the first page of the regular census form for those establishments included in the ASM. In addition to information on employment, payroll, and other items normally requested on the regular census form, establishments in the ASM sample were requested to supply information on assets, capital expenditures, retirements, depreciation, rental payments, supplemental labor costs, and costs of purchased services. See appendix A, section 2, for an explanation of these items.

The census part of the report form is 1 of approximately 200 versions containing product, material, and special inquiries. The diversity of manufacturing activities necessitated the use of these many forms to canvass the 459 manufacturing industries. Each form was developed for a group of related industries.

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

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

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

- b. Large and medium establishments (non-ASM). Approximately 112,000 establishments were included in this group. A variable cutoff, based on administrative-records payroll data and determined on an industry-by-industry basis, was used to select those establishments that were to receive 1 of the approximately 200 census of manufactures regular forms. The first page, requesting establishment data for items such as employment and payroll, was standard but did not contain the detailed statistics included on the ASM form. The product, material, and special inquiry sections supplied were based on the historical industry classification of the establishment.
- c. Small single-establishment companies (non-ASM). This group consisted of approximately 63,000 establishments. For those industries where application of the variable cutoff for administrative-records cases resulted in a large number of small establishments being included in the mail canvass, an abbreviated or "short" form was used. These establishments received 1 of the approximately 80 versions of the short form, which requested summary product and

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

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

AUXILIARIES

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

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

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

- 1. Program planning, including sales research and coordination of purchasing, production, and distribution
- 2. Company purchasing, including general contracts and purchasing methods
- 3. Company financial policy and accounting
- 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 administrative-records cases whose industry codes were assigned on the basis of incomplete descriptions of the general activity of the establishment. Such possible misclassifications have no significant effect on the statistics other than on the number of companies and establishments.

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

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

However, establishments making products falling into the same industry category may use a variety of processes and materials to produce them. Also, the same industry classification (based on end products) may include both establishments that are highly integrated and those that put only the finishing touches on an already highly fabricated item. For example, the refrigeration equipment industry includes instances of almost complete integration (production of the compressor, condensing unit, electric motor, casting, stamping of the case, and final assembly) all carried on at one plant. On the other hand, the condensing unit, the motor, and the case may be purchased and only assembled into the finished product.

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

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

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

This report shows value of shipments data for industries and products. In tables 1a through 5b, these data represent the total value of shipments of all establishments classified in a particular industry. The data include the shipments of the products classified in the industry (primary to the industry), products classified in other industries (secondary to the industry), and miscellaneous receipts (repair work, sale of scrap, research and development, installation receipts, and resales). Value of product shipments shown in table 6a represents the total value of all products shipped that are classified as primary to an industry.

CENSUS DISCLOSURE RULES

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

The disclosure analysis for the industry statistics in tables 1a through 5a of this report is based on the total value of shipments. When the total value of shipments cannot be shown without disclosing information for individual companies, the complete line is suppressed except for new capital expenditures. However, the suppressed data are included in higher-level totals. A separate disclosure analysis is performed for new capital expenditures that can be suppressed even though value of shipments data are publishable.

SPECIAL TABULATIONS

Special tabulations of data collected in the 1992 Census of Manufactures may be obtained on computer diskette or in tabular form. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications.

Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact specifications on the type and format of the data to be provided, should be directed to the Chief, Manufacturing and Construction Division, Bureau of the Census, Washington, DC 20233.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

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

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

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

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

For explanation of terms, see appendixes

			Four-dig	it industry :	statistics				ive-digit product class and even-digit product statistics			
Item	His- torical	Oper- ating ratios	By geo- graphic area	Sum- mary and supple- mental	By employ- ment size	By industry and product class specialization	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 3a	4 4 4 4	5a 5a 5a 5a 5a						
Shipments, cost of materials, and value added: Value of shipments (four-digit)	1a 1a 1a	1b 1b 1b	2 2 2	3a 3a 3a 3a	4 4	5a 5a 5a	7	5b	6a 6a	6b	6 c	
Inventories: Total, end of year By stage of fabrication	1a			3a 3a	4							
Capital expenditures, assets, rental payments, and purchased services: New capital expenditures. Used plant and equipment expenditures. Gross assets Depreciation Retirements of buildings and machinery. Rental payments Foreign content of materials consumed Purchased services.	1a		2	3b 3b 3b 3b 3b 3b 3c 3c	4	5 a						
Ratios: Specialization Coverage	1a 1a							5b 5b				

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

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Description of Industries and Summary of Findings

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

SIC code and title

0004	Command and Command Field and Confords
2091	Canned and Cured Fish and Seafoods
2092	Fresh or Frozen Prepared Fish
2095	Roasted Coffee
2096	Potato Chips and Similar Snacks
2097	Manufactured Ice
2098	Macaroni and Spaghetti
2099	Food Preparations, 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) Manual¹. 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 2091, CANNED AND CURED FISH AND SEAFOODS

This industry is made up of establishments primarily engaged in cooking and canning fish, shrimp, crabs, and other seafoods. Also included in this industry are establishments primarily engaged in smoking, salting, drying, or otherwise curing fish and other seafoods. Establishments primarily engaged in shucking and packing fresh oysters in nonsealed containers or in preparing fresh fish are classified in industry 2092.

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 2091, Canned and Cured Fish and Seafoods, had employment of 7.0 thousand. The employment figure was 4 percent above the 6.7 thousand reported in 1987. Compared with 1991, employment increased 1 percent. The 1991 data are based on the Census Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses.

The leading States in employment in 1992 were California, Alaska, Washington, and Maine, accounting for approximately 66 percent of the industry's employment. These same States were the leaders in 1987.

The total value of shipments for establishments classified in this industry was \$968.4 million.

Establishments in virtually all industries ship secondary products as well as products primary to the industry in which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 2091 shipped \$833.5 million of canned and cured fish and seafood products considered primary to the industry, \$84.7 million of secondary products, and had \$50.2 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 91 percent (specialization ratio). In 1987, the specialization ratio was 88 percent.

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.

Establishments in this industry also accounted for 73 percent of products considered primary to the industry no matter where they were actually produced (coverage ratio). In 1987, the coverage ratio was 76 percent.

The products primary to industry 2091, no matter in what industry they were produced, appear in table 6a and aggregate to \$1.1 billion. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and energy used by establishments classified in the canned and cured fish and seafood industry amounted to \$606.5 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 6 percent of the total value of shipments.

INDUSTRY 2092, FRESH OR FROZEN PREPARED FISH

This industry is made up of establishments primarily engaged in preparing fresh or frozen fish. Also included in this industry are establishments primarily engaged in preparing surimi and surimi-based products.

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 2092, Fresh or Frozen Prepared Fish, had employment of 41.3 thousand. The employment figure was 8 percent above the 38.2 thousand reported in 1987.

The leading States in employment in 1992 were Alaska, Washington, Mississippi, and Florida, accounting for approximately 53 percent of the industry's employment. These same States were the leaders in 1987.

The total value of shipments for establishments classified in this industry was \$7.0 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 2092 shipped \$6.3 billion of fresh or frozen prepared fish considered primary to the industry, \$248.9 million of secondary products, and had \$418.6 million of miscellaneous receipts, resales, and contract work. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in this industry was 96 percent (specialization ratio). In 1987, the specialization ratio also was 96 percent.

Establishments in this industry also accounted for 98 percent of products considered primary to the industry no matter where they were actually produced (coverage ratio). In 1987, the coverage ratio was 97 percent.

The products primary to industry 2092, no matter in what industry they were produced, appear in table 6a and aggregate to \$6.4 billion. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and energy used by establishments classified in the fresh or frozen prepared fish industry amounted to \$4.7 billion. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with less than 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 12 percent of the total value of shipments.

INDUSTRY 2095, ROASTING COFFEE

This industry is made up of establishments primarily engaged in roasting coffee. Also included in this industry are establishments primarily engaged in manufacturing coffee concentrates and extracts in powdered, liquid, or frozen form, including freeze-dried. Coffee roasting by wholesale grocers is classified in wholesale trade, industry 5149.

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 2095, Roasted Coffee, had employment of 10.5 thousand. The employment figure was 2 percent below the 10.7 thousand reported in 1987.

The leading States in employment in 1992 were Texas, California, and New Jersey, accounting for approximately 38 percent of the industry's employment. These same States were the leaders in 1987 when they accounted for 45 percent of the industry's employment.

The total value of shipments for establishments classified in this industry was \$5.3 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 2095 shipped \$4.7 billion of roasted coffee products considered primary to the industry, \$397.3 million of secondary products, and had \$219.5 million of miscellaneous receipts, resales, and contract work. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in this industry was 92 percent (specialization ratio). In 1987, the specialization ratio was 94 percent.

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

The products primary to industry 2095, no matter in what industry they were produced, appear in table 6a and aggregate to \$4.7 billion. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and energy used by establishments classified in the roasted coffee industry amounted to \$2.5 billion. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with less than 15 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 6 percent of the total value of shipments.

INDUSTRY 2096, POTATO CHIPS AND SIMILAR SNACKS

This industry is made up of establishments primarily engaged in manufacturing potato chips, corn chips, and similar snacks. Establishments primarily engaged in manufacturing pretzels and crackers are classified in industry 2052. Establishments primarily engaged in manufacturing packaged unpopped popcorn are classified in industry 2099.

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 2096, Potato Chips and Similar Snacks, had employment of 34.9 thousand. The employment figure was 5 percent above the 33.1 thousand reported in 1987. Compared with 1991, employment increased 3 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 Pennsylvania, California, and Texas, accounting for approximately 34 percent of the industry's employment. These same States were the leaders in 1987 when they accounted for 34 percent of the industry's employment.

The total value of shipments for establishments classified in this industry was \$7.3 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 2096 shipped \$7.0 billion of potato chips and similar snacks considered primary to the industry, \$108.5 million

of secondary products, and had \$261.1 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 98 percent (specialization ratio). In 1987, the specialization ratio also was 98 percent.

Establishments in this industry also accounted for 92 percent of products considered primary to the industry no matter where they were actually produced (coverage ratio). In 1987, the coverage ratio was 94 percent.

The products primary to industry 2096, no matter in what industry they were produced, appear in table 6a and aggregate to \$7.5 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 potato chips and similar snacks industry amounted to \$3.4 billion. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with less than 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 4 percent of the total value of shipments.

INDUSTRY 2097, MANUFACTURED ICE

This industry is made up of establishments primarily engaged in manufacturing ice for sale. Establishments primarily engaged in manufacturing dry ice are classified in industry 2813.

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 2097, Manufactured Ice, had employment of 4.8 thousand. The employment figure was 2 percent above the 4.7 thousand reported in 1987. Compared with 1991, employment increased 17 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 California, Florida, and Texas. These same States were the leaders in 1987 when they accounted for 38 percent of the industry's employment.

The total value of shipments for establishments classified in this industry was \$358.8 million.

Establishments in virtually all industries ship secondary products as well as products primary to the industry in which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 2097 shipped \$341.8 million of manufactured ice products considered primary to the industry, less than \$.1 million of

secondary products, and had \$17.7 million of miscellaneous receipts, resales, and contract work. The ratio of primary products to the total of both secondary and primary products shipped by establishments in this industry was 100 percent (specialization ratio). In 1987, the specialization ratio also was 100 percent.

Establishments in this industry also accounted for 99 percent of products considered primary to the industry no matter where they were actually produced (coverage ratio). In 1987, the coverage ratio was 98 percent.

The products primary to industry 2097, no matter in what industry they were produced, appear in table 6a and aggregate to \$345.2 million. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and energy used by establishments classified in the manufactured ice industry amounted to \$103.6 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 23 percent of the total value of shipments.

INDUSTRY 2098, MACARONI AND SPAGHETTI

This industry is made up of establishments primarily engaged in manufacturing dry macaroni, spaghetti, vermicelli, and noodles. Establishments primarily engaged in manufacturing canned macaroni and spaghetti are classified in industry 2032, and those manufacturing fried noodles such as chinese noodles are classified in industry 2099.

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 2098, Macaroni and Spaghetti, had employment of 5.9 thousand. The employment figure was 11 percent below the 6.6 thousand reported in 1987.

The leading States in employment in 1992 were New York, New Jersey, and Missouri, accounting for approximately 31 percent of the industry's employment. This represents a shift from 1987 when California, Pennsylvania, Illinois, and Massachusetts were the leading States.

The total value of shipments for establishments classified in this industry was \$1.4 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 2098 shipped \$1.3 billion of macaroni and spaghetti products considered primary to the industry, \$75.4 million of secondary products, and had \$44.0 million of miscellaneous receipts, resales, and contract work. Thus, the ratio

of primary products to the total of both secondary and primary products shipped by establishments in this industry was 94 percent (specialization ratio). In 1987, the specialization ratio was 96 percent.

Establishments in this industry also accounted for 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 2098, no matter in what industry they were produced, appear in table 6a and aggregate to \$1.3 billion. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and energy used by establishments classified in the macaroni and spaghetti industry amounted to \$565.1 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 5 percent of the total value of shipments.

INDUSTRY 2099, FOOD PREPARATIONS, N.E.C.

This industry is made up of establishments primarily engaged in manufacturing prepared foods and miscellaneous food specialties, not elsewhere classified, such as baking powder, yeast, peanut butter, packaged tea, and vinegar and cider. Establishments primarily engaged in manufacturing flour mixes are classified in industry group 204.

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 2099, Food Preparations, N.E.C., had employment of 61.4 thousand. The employment figure was 6 percent above the 58.0 thousand reported in 1987. Compared with 1991, employment increased 12 percent. The 1991 data are based on the Census Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses.

The leading States in employment in 1992 were California, Illinois, Texas, and New York, accounting for approximately 40 percent of the industry's employment. These same States were the leaders in 1987.

The total value of shipments for establishments classified in this industry was \$12.2 billion.

Establishments in virtually all industries ship secondary products as well as products primary to the industry in which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 2099 shipped \$11.1 billion of food preparations, n.e.c.,

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considered primary to the industry, \$684.2 million of secondary products, and had \$400.8 million of miscellaneous receipts, resales, and contract work. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in this industry was 94 percent (specialization ratio). In 1987, the specialization ratio was 91 percent.

Establishments in this industry also accounted for 78 percent of products considered primary to the industry no matter where they were actually produced (coverage ratio). In 1987, the coverage ratio was 80 percent.

The products primary to industry 2099, no matter in what industry they were produced, appear in table 6a and aggregate to \$14.2 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 food preparations, n.e.c., industry amounted to \$6.3 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.

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 loi	auxiliar root	All establi		All emp			duction work		or torme, out	арропажоој				Rat	ios
Year ¹	Companies 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)
					INDU	JSTRY 20	91, CANN	ED AND C	URED FISH	AND SEAFO	ODS				
1992 Census	143	158	61	7.0	132.7	5.5	10.3	87.8	362.0	606.5	968.4	20.1	164.9	91	73
1991 ASM	(NA)	(NA)	(NA)	6.9	134.2	5.4	10.5	84.3	350.4	678.2	1 029.2	26.5	165.4	(NA)	(NA)
1990 ASM	(NA)	(NA)	(NA)	7.1	122.8	5.7	10.3	80.5	303.2	695.2	998.2	33.1	220.4	(NA)	(NA)
1989 ASM	(NA)	(NA)	(NA)	6.4	108.5	5.2	9.7	74.3	241.2	594.1	837.8	16.8	210.2	(NA)	(NA)
1988 ASM	(NA)	(NA)	(NA)	6.6	101.3	5.4	9.2	67.5	313.1	533.7	844.1	13.1	152.7	(NA)	(NA)
1987 Census	153	175	81	6.7	100.9	5.4	9.2	70.9	283.3	482.4	767.0	14.4	142.4	88	76
1986 ASM	(NA)	(NA)	(NA)	4.4	71.4	3.7	6.5	49.5	186.1	354.2	539.7	14.8	118.8	(NA)	(NA)
1985 ASM	(NA)	(NA)	(NA)	5.8	84.5	5.0	9.1	59.6	227.4	471.6	697.0	11.6	159.7	(NA)	(NA)
1984 ASM	(NA)	(NA)	(NA)	11.4	183.9	9.8	20.9	136.6	479.9	1 028.9	1 506.9	11.0	418.3	(NA)	(NA)
1983 ASM	(NA)	(NA)	(NA)	12.6	199.2	10.7	19.5	151.3	620.7	1 211.5	1 836.8	20.6	411.5	(NA)	(NA)
1982 Census	170	204	107	13.9	194.9	12.1	21.1	150.6	613.4	1 235.3	1 849.1	20.5	495.6	(D)	91
1981 ASM	(NA)	(NA)	(NA)	15.3	206.7	13.6	24.2	165.5	752.2	1 620.1	2 587.7	37.6	570.0	(NA)	(NA)
1980 ASM	(NA)	(NA)	(NA)	15.6	198.7	14.1	25.3	164.3	425.5	1 540.1	1 958.8	26.3	505.1	(NA)	(NA)
1979 ASM	(NA)	(NA)	(NA)	16.1	178.9	14.3	25.1	144.9	479.4	1 320.9	1 800.3	35.8	393.2	(NA)	(NA)
1978 ASM	(NA)	(NA)	(NA)	16.6	173.2	14.7	27.7	136.2	393.8	1 250.7	1 643.5	36.4	347.9	(NA)	(NA)
1977 Census	215	255	118	16.0	147.0	13.8	25.0	113.4	441.0	1 000.4	1 440.6	28.1	311.1	81	96
							Y 2092, FR		ROZEN PRE						
1992 Census	599	684	366	41.3	761.1	34.2	67.0	520.5	2 325.1	4 671.4	6 995.7	149.6	827.3	96	98
1991 ASM	(NA)	(NA)	(NA)	39.9	672.4	33.6	64.0	454.7	1 932.2	4 166.9	6 079.1	112.0	762.2	(NA)	(NA)
1990 ASM	(NA)	(NA)	(NA)	40.5	651.4	34.2	65.7	445.8	1 776.9	4 306.4	6 087.7	217.1	708.7	(NA)	(NA)
1989 ASM	(NA)	(NA)	(NA)	37.6	588.2	31.5	58.2	413.4	1 614.2	3 952.0	5 552.1	138.5	710.7	(NA)	(NA)
1988 ASM	(NA)	(NA)	(NA)	39.4	571.7	32.9	58.3	402.7	1 557.4	4 413.7	5 969.9	75.3	793.0	(NA)	(NA)
1987 Census	579	645	359	38.2	534.0	32.6	58.4	384.3	1 549.0	4 233.8	5 783.0	105.0	792.3	96	97
1986 ASM	(NA)	(NA)	(NA)	36.6	461.0	30.6	53.3	330.3	1 252.8	3 236.4	4 490.2	58.4	602.5	(NA)	(NA)
1985 ASM	(NA)	(NA)	(NA)	36.0	410.7	30.6	53.7	287.5	1 070.1	2 866.1	3 946.9	58.9	539.8	(NA)	(NA)
1984 ASM	(NA)	(NA)	(NA)	34.1	396.8	28.8	49.4	278.3	962.6	2 802.7	3 773.9	56.1	587.5	(NA)	(NA)
1983 ASM	(NA)	(NA)	(NA)	34.3	398.4	29.5	51.5	284.0	936.5	2 846.5	3 789.5	42.2	598.7	(NA)	(NA)
1982 Census	697	783	433	37.5	408.6	32.5	55.5	303.8	966.7	3 040.0	4 009.1	62.2	587.3	97	97
1981 ASM	(NA)	(NA)	(NA)	36.7	360.6	31.9	55.2	270.8	1 021.0	2 365.7	3 409.3	48.9	459.3	(NA)	(NA)
1980 ASM	(NA)	(NA)	(NA)	35.6	333.1	30.7	51.8	245.2	962.1	2 406.2	3 370.2	(S)	531.8	(NA)	(NA)
1979 ASM	(NA)	(NA)	(NA)	36.1	318.6	31.1	54.4	232.3	954.8	2 408.2	3 355.9	58.3	541.4	(NA)	(NA)
1978 ASM	(NA)	(NA)	(NA)	35.5	282.3	30.9	52.1	209.2	872.8	2 176.1	3 041.6	46.5	441.3	(NA)	(NA)
1977 Census	908	990	406	34.3	260.8	29.6	49.7	188.9	700.9	1 962.9	2 664.9	56.8	376.7	97	97
						ı	NDUSTRY	2095, RO	ASTED COF	FEE					
1992 Census	134	172	90	10.5	340.0	6.6	14.0	192.6	2 752.5	2 530.0	5 292.8	149.1	302.1	92	99
1991 ASM	(NA)	(NA)	(NA)	10.6	324.4	6.8	14.2	188.9	2 868.4	3 035.2	5 919.9	126.6	322.0	(NA)	(NA)
1990 ASM	(NA)	(NA)	(NA)	11.2	326.7	6.9	14.4	180.5	3 581.8	3 004.9	6 622.7	114.6	402.7	(NA)	(NA)
1989 ASM	(NA)	(NA)	(NA)	10.5	303.1	6.5	13.5	172.3	2 658.1	3 491.6	6 167.2	120.9	459.3	(NA)	(NA)
1988 ASM	(NA)	(NA)	(NA)	10.7	315.6	6.7	12.6	173.4	2 795.8	3 526.8	6 332.4	123.2	494.1	(NA)	(NA)
1987 Census	110	141	82	10.7	303.0	6.6	13.6	170.5	2 589.8	3 775.2	6 400.6	155.2	524.6	94	99
1986 ASM	(NA)	(NA)	(NA)	11.5	307.1	7.4	15.2	179.5	2 444.7	5 140.2	7 544.0	147.3	575.3	(NA)	(NA)
1985 ASM	(NA)	(NA)	(NA)	11.4	294.5	7.5	15.0	178.1	2 445.8	4 211.2	6 677.1	138.9	498.0	(NA)	(NA)
1984 ASM	(NA)	(NA)	(NA)	11.1	279.2	7.2	14.5	171.7	2 220.2	4 178.3	6 378.4	134.1	492.6	(NA)	(NA)
1983 ASM	(NA)	(NA)	(NA)	11.1	265.1	6.9	13.8	155.4	2 115.0	3 710.8	5 808.5	96.1	446.9	(NA)	(NA)
1982 Census	118	152	85	11.8	265.7	7.4	15.0	157.1	2 070.3	3 749.0	5 826.9	80.5	413.5	94	99
1981 ASM	(NA)	(NA)	(NA)	11.8	243.4	7.2	14.3	139.7	1 915.5	3 791.4	5 717.1	103.8	361.5	(NA)	(NA)
1980 ASM	(NA)	(NA)	(NA)	12.1	224.3	7.7	14.7	132.7	1 902.1	4 459.9	6 341.5	76.2	435.6	(NA)	(NA)
1979 ASM	(NA)	(NA)	(NA)	11.4	198.9	7.2	14.8	117.6	1 748.3	4 222.5	5 944.8	60.4	379.5	(NA)	(NA)
1978 ASM	(NA)	(NA)	(NA)	11.8	178.0	7.2	14.0	104.0	1 652.1	4 342.0	6 011.0	45.8	359.9	(NA)	(NA)
1977 Census	133	167	(NA)	10.9	164.8	7.2	15.0	103.2	988.0	4 643.4	5 616.4	41.9	405.3	96	98
					IN	IDUSTRY	2096, PO	ГАТО СНІ	PS AND SIM	ILAR SNACE	(S				
1992 Census	334	409	215	34.9	828.8	24.1	45.7	473.2	3 912.8	3 409.2	7 324.7	259.1	196.1	98	92
1991 ASM	(NA)	(NA)	(NA)	34.0	767.0	22.9	42.5	428.5	3 108.3	3 537.5	6 646.4	189.2	187.2	(NA)	(NA)
1990 ASM	(NA)	(NA)	(NA)	32.3	696.5	21.4	42.0	381.3	2 906.3	3 156.2	6 062.1	161.7	182.3	(NA)	(NA)
1989 ASM	(NA)	(NA)	(NA)	34.0	640.5	23.8	39.4	364.2	2 608.1	3 187.1	5 788.8	125.9	195.5	(NA)	(NA)
1988 ASM	(NA)	(NA)	(NA)	34.1	653.0	24.0	39.8	387.4	3 474.4	1 905.5	5 384.9	102.6	176.4	(NA)	(NA)
1987 Census	(NA)	(NA)	(NA)	33.1	622.3	23.2	38.6	375.1	3 306.8	1 750.2	5 040.8	181.3	190.0	98	94
						IN	DUSTRY 2	2097, MAN	IUFACTURE	D ICE					
1992 Census	513	562	59	4.8	93.3	2.9	6.1	48.4	255.1	103.6	358.8	13.8	18.5	100	99
1991 ASM	(NA)	(NA)	(NA)	4.1	77.2	2.9	6.1	46.2	241.1	81.9	324.0	21.0	9.3	(NA)	(NA)
1990 ASM	(NA)	(NA)	(NA)	4.4	78.1	3.0	6.1	47.2	238.0	89.2	326.7	29.8	14.4	(NA)	(NA)
1989 ASM	(NA)	(NA)	(NA)	5.0	94.7	3.2	6.1	59.3	261.8	96.4	355.4	18.0	21.7	(NA)	(NA)
1988 ASM	(NA)	(NA)	(NA)	4.7	83.1	2.7	5.9	43.7	209.0	71.6	280.7	9.9	13.0	(NA)	(NA)
1987 Census	503	549	65	4.7	77.0	2.8	5.9	41.8	202.9	86.7	289.6	14.0	12.7	100	98
1986 ASM	(NA)	(NA)	(NA)	4.6	65.9	2.6	4.3	36.6	148.5	75.0	223.6	19.8	5.7	(NA)	(NA)
1985 ASM	(NA)	(NA)	(NA)	4.6	69.4	2.2	3.8	35.2	151.1	79.7	230.9	32.1	6.5	(NA)	(NA)
1984 ASM	(NA)	(NA)	(NA)	4.6	69.1	2.4	3.6	34.7	144.2	71.6	217.1	26.3	7.9	(NA)	(NA)
1983 ASM	(NA)	(NA)	(NA)	5.1	66.7	2.7	4.9	37.6	172.3	82.5	252.0	8.7	16.4	(NA)	(NA)
1982 Census 1981 ASM 1980 ASM 1979 ASM 1978 ASM 1977 Census	530 (NA) (NA) (NA) (NA) 543	596 (NA) (NA) (NA) (NA) 678	64 (NA) (NA) (NA) (NA) (NA)	5.0 5.3 5.1 5.6 5.2 5.3	65.1 64.5 56.8 53.4 45.8 47.8	3.0 3.1 3.1 3.7 3.7 3.5	5.5 7.0 7.3 8.4 6.7 6.7	35.9 37.2 34.0 30.0 21.3 25.5	152.6 147.2 120.2 118.4 97.2 106.1	79.0 53.2 50.5 39.5 52.8 43.6	229.5 200.4 169.6 157.2 149.2	13.4 17.9 (S) 10.6 23.5 16.9	9.4 7.5 8.0 7.4 5.8 4.4	100 (NA) (NA) (NA) (NA) (NA)	98 (NA) (NA) (NA) (NA) 99

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

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

		All establi	ishments ³	All em	ployees	Pro	duction wo	kers						Ra	tios
Year ¹	Com- panies ² (no.)	Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufac- ture ⁴ (million dollars)	Cost of materials ⁵ (million dollars)	Value of shipments (million dollars)	New capital expend- itures ⁶ (million dollars)	End-of- year inven- tories ⁴ (million dollars)	Spe- ciali- zation ⁷ (per- cent)	Cover- age ⁸ (per- cent)
						INDUS	STRY 209	B, MACAR	ONI AND SP	AGHETTI					
1992 Census 1991 ASM 1990 ASM 1989 ASM 1988 ASM 1987 Census	182 (NA) (NA) (NA) (NA) (NA)	199 (NA) (NA) (NA) (NA) (NA) 218	41 (NA) (NA) (NA) (NA) (NA) 48	5.9 6.4 6.2 6.0 6.3 6.6	146.8 149.2 142.4 132.0 135.1 140.0	4.6 4.9 4.8 4.6 4.8 5.0	10.2 10.3 10.0 9.7 9.6 9.8	104.6 103.9 100.7 92.2 91.8 90.8	830.8 749.3 728.7 642.3 639.0 614.0	565.1 527.0 507.6 512.6 480.1 435.1	1 389.5 1 276.8 1 229.6 1 154.0 1 119.5 1 048.1	74.7 96.5 46.8 44.5 35.5 32.2	97.2 88.7 81.5 73.8 72.3 77.5	94 (NA) (NA) (NA) (NA) 96	99 (NA) (NA) (NA) (NA) (NA)
						INDUS	TRY 2099	, FOOD PI	REPARATIO	NS, N.E.C.					
1992 Census 1991 ASM 1990 ASM 1989 ASM 1988 ASM 1987 Census	1 644 (NA) (NA) (NA) (NA) 1 510	1 800 (NA) (NA) (NA) (NA) 1 658	637 (NA) (NA) (NA) (NA) 633	61.4 54.7 55.7 55.9 57.0 58.0	1 412.4 1 193.2 1 190.0 1 085.8 1 129.6 1 109.8	43.7 37.5 38.1 39.4 40.3 40.8	86.4 74.9 78.1 75.7 73.9 77.5	796.2 678.1 658.7 630.3 648.6 651.5	5 883.5 5 665.7 5 458.3 5 049.2 5 333.8 5 126.4	6 313.4 5 728.7 5 590.8 5 077.4 4 832.5 4 702.6	12 170.2 11 322.4 11 047.6 10 083.6 10 166.9 9 787.3	332.3 296.0 251.7 202.9 204.5 247.5	1 163.0 1 096.0 1 001.4 883.3 866.1 868.7	94 (NA) (NA) (NA) (NA) 91	78 (NA) (NA) (NA) (NA) (NA)

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

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]

Excludes data for auxiliar	ries. For meaning of	or appreviations and	symbols, see intro	ductory text. For	explanation of term	s, see appendixesj			
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)
			INDUST	TRY 2091, CAN	IED AND CURE	D FISH AND SE	AFOODS		
1992 Census	18 957	79	1 873	8.52	63	76	51 714	37	35.15
	19 449	78	1 944	8.03	66	79	50 783	38	33.37
	17 296	80	1 807	7.82	70	82	42 704	41	29.44
	16 953	81	1 865	7.66	71	84	37 688	45	24.87
	15 348	82	1 704	7.34	63	75	47 439	32	34.03
1987 Census	15 060	81	1 704	7.71	63	76	42 284	36	30.79
	16 227	84	1 757	7.62	66	79	42 295	38	28.63
	14 569	86	1 820	6.55	68	80	39 207	37	24.99
	16 132	86	2 133	6.54	68	80	42 096	38	22.96
	15 810	85	1 822	7.76	66	77	49 262	32	31.83
1982 Census	14 022 13 510 12 737 11 112 10 434 9 188	87 89 90 89 89	1 744 1 779 1 794 1 755 1 884 1 812	7.14 6.84 6.49 5.77 4.92 4.54	67 63 79 73 76 69	77 71 89 83 87 80	44 129 49 163 27 276 29 776 23 723 27 563	32 27 47 37 44 33	29.07 31.08 16.82 19.10 14.22 17.64
			IND	USTRY 2092, F	RESH OR FROZ	EN PREPARED	FISH		
1992 Census	18 429	83	1 959	7.77	67	78	56 298	33	34.70
	16 852	84	1 905	7.10	69	80	48 426	35	30.19
	16 084	84	1 921	6.79	71	81	43 874	37	27.05
	15 644	84	1 848	7.10	71	82	42 931	36	27.74
	14 510	84	1 772	6.91	74	84	39 528	37	26.71
1987 Census	13 979	85	1 791	6.58	73	82	40 550	34	26.52
	12 596	84	1 742	6.20	72	82	34 230	37	23.50
	11 408	85	1 755	5.35	73	83	29 725	38	19.93
	11 636	84	1 715	5.63	74	85	28 229	41	19.49
	11 615	86	1 746	5.51	75	86	27 303	43	18.18
1982 Census	10 896	87	1 708	5.47	76	86	25 779	42	17.42
	9 826	87	1 730	4.91	69	80	27 820	35	18.50
	9 357	86	1 687	4.73	71	81	27 025	35	18.57
	8 825	86	1 749	4.27	72	81	26 449	33	17.55
	7 952	87	1 686	4.02	72	81	24 586	32	16.75
	7 603	86	1 679	3.80	74	83	20 434	37	14.10

201-10 MISCELLANEOUS FOOD AND KINDRED PRODUCTS

MANUFACTURES-INDUSTRY SERIES

chapter.

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

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

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

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

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

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

6Represents ratio of primary products shipments 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—Con.

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

Excludes data for auxiliar	ies. For meaning o	or appreviations and	symbols, see intro	ductory text. For e	xpianation of terms	s, 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	' 2095, ROASTE	ED COFFEE			
1992 Census	32 381 30 604 29 170 28 867 29 495	63 64 62 62 63	2 121 2 088 2 087 2 077 1 881	13.76 13.30 12.53 12.76 13.76	48 51 45 57 56	54 57 50 62 61	262 143 270 604 319 804 253 152 261 290	12 11 9 11 11	196.61 202.00 248.74 196.90 221.89
1987 Census	28 318 26 704 25 833 25 153 23 883	62 64 66 65 62	2 061 2 054 2 000 2 014 2 000	12.54 11.81 11.87 11.84 11.26	59 68 63 66 64	64 72 67 70 68	242 037 212 583 214 544 200 018 190 541	12 13 12 13 13	190.43 160.84 163.05 153.12 153.26
1982 Census 1981 ASM 1980 ASM 1979 ASM 1977 ASM	22 517 20 627 18 537 17 447 15 085 15 119	63 61 64 63 61 66	2 027 1 986 1 909 2 056 1 944 2 083	10.47 9.77 9.03 7.95 7.43 6.88	64 66 70 71 72 83	69 71 74 74 75 86	175 449 162 331 157 198 153 360 140 008 90 642	13 13 12 11 11	138.02 133.95 129.39 118.13 118.01 65.87
			INDU	ISTRY 2096, PO	TATO CHIPS A	ND SIMILAR SN	ACKS	<u></u>	
1992 Census	23 748 22 559 21 563 18 838 19 150 18 801	69 67 66 70 70 70	1 896 1 856 1 963 1 655 1 658 1 664	10.35 10.08 9.08 9.24 9.73 9.72	47 53 52 55 35 35	58 65 64 66 48 47	112 115 91 421 89 978 76 709 101 889 99 903	21 25 24 25 19	85.62 73.14 69.20 66.20 87.30 85.67
				INDUSTRY	2097, MANUFA	CTURED ICE	Į.	I.	
1992 Census	19 438 18 829 17 750 18 940 17 681	60 71 68 64 57	2 103 2 103 2 033 1 906 2 185	7.93 7.57 7.74 9.72 7.41	29 25 27 27 26	55 49 51 54 55	53 146 58 805 54 091 52 360 44 468	37 32 33 36 40	41.82 39.52 39.02 42.92 35.42
1987 Census	16 383 14 326 15 087 15 022 13 078	60 57 48 52 53	2 107 1 654 1 727 1 500 1 815	7.08 8.51 9.26 9.64 7.67	30 34 35 33 33	57 63 65 65 59	43 170 32 283 32 848 31 348 33 784	38 44 46 48 39	34.39 34.53 39.76 40.06 35.16
1982 Census	13 020 12 170 11 137 9 536 8 808 9 019	60 58 61 66 71 66	1 833 2 258 2 355 2 270 1 811 1 914	6.53 5.31 4.66 3.57 3.18 3.81	34 27 30 25 35 29	63 59 63 59 66 61	30 520 27 774 23 569 21 143 18 692 20 019	43 44 47 45 47 45	27.75 21.03 16.47 14.10 14.51 15.84
		,		INDUSTRY 2098	B, MACARONI A	AND SPAGHETT	1	'	
1992 Census 1991 ASM 1990 ASM 1989 ASM 1988 ASM 1987 Census	24 881 23 313 22 968 22 000 21 444 21 212	78 77 77 77 76 76	2 217 2 102 2 083 2 109 2 000 1 960	10.25 10.09 10.07 9.51 9.56 9.27	41 41 41 44 43 42	51 53 53 56 55 55	140 814 117 078 117 532 107 050 101 429 93 030	18 20 20 21 21 21 23	81.45 72.75 72.87 66.22 66.56 62.65
				INDUSTRY 2099	, FOOD PREPA	RATIONS, N.E.C).		
1992 Census	23 003 21 814 21 364 19 424 19 818 19 134	71 69 68 70 71 70	1 977 1 997 2 050 1 921 1 834 1 900	9.22 9.05 8.43 8.33 8.78 8.41	52 51 51 50 48 48	63 61 61 61 59 59	95 822 103 578 97 995 90 326 93 575 88 386	24 21 22 22 22 21 22	68.10 75.64 69.89 66.70 72.18 66.15

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]

Excludes data for advinances. States							199			addieny toxu.	от опристанот	. 0. 101110, 0		1987
		All establ	lishments	All em	ployees	Pro	duction wo	rkers						
Industry and geographic area	E ¹	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 2091, CANNED AND CURED FISH AND SEAFOODS														
United States	-	158	61	7.0	132.7	5.5	10.3	87.8	362.0	606.5	968.4	20.1	6.7	283.3
Alaska	- E1 -	21 17 3 7 2	11 7 3 2 2	1.0 1.7 F C C	21.9 36.3 (D) (D) (D)	.7 1.5 (D) (D) (D)	2.0 2.9 (D) (D) (D)	15.6 29.1 (D) (D) (D)	65.1 94.3 (D) (D) (D)	129.8 158.7 (D) (D) (D)	194.9 253.0 (D) (D) (D)	2.6 4.2 (D) (D) (D)	.9 G E C C	58.0 (D) (D) (D) (D)
Louisiana	E2 - - E1	8 16 8 5 29	2 8 5 3 11	.1 .9 .7 .3 1.0	2.1 10.0 12.2 7.8 17.8	.1 .8 .5 .2	.2 1.2 .8 .4 1.1	1.3 7.8 6.9 4.1 9.9	8.1 25.1 39.5 27.3 34.7	15.5 23.0 49.5 50.7 63.8	23.6 48.1 89.0 77.8 98.5	(D) .9 4.6 .5 (D)	E 1.0 .5 E .8	(D) 30.7 25.7 (D) 36.1
INDUSTRY 2092, FRESH OR FROZEN PREPARED FISH														
United States	E1	684	366	41.3	761.1	34.2	67.0	520.5	2 325.1	4 671.4	6 995.7	149.6	38.2	1 549.0
Alabama	E2 E2 E2	17 84 5 52 1	10 59 3 34 1	1.6 8.0 .3 3.0 C	18.7 167.9 4.1 52.8 (D)	1.4 6.9 .3 2.5 (D)	2.3 14.0 .6 4.4 (D)	13.2 134.7 3.3 33.2 (D)	48.2 455.7 22.5 138.3 (D)	123.1 753.1 23.7 300.3 (D)	171.4 1 210.4 46.1 436.8 (D)	4.0 53.4 .6 6.9 (D)	1.5 H (NA) 3.1 (NA)	25.9 (D) (NA) 110.8 (NA)
Florida	E1 - E1 E3	56 7 3 57 14	25 5 1 23 2	3.1 G C 1.6 .1	51.0 (D) (D) 17.9 2.5	2.5 (D) (D) 1.3 .1	5.4 (D) (D) 2.2 .2	32.4 (D) (D) 12.5 1.1	177.6 (D) (D) 46.4 6.0	334.4 (D) (D) 121.1 11.9	511.7 (D) (D) 167.5 17.9	4.2 (D) (D) 5.7 (D)	4.9 G C 1.1 F	144.7 (D) (D) 34.5 (D)
Maryland Massachusetts Minnesota Mississippi New Hampshire	- - - E3	30 42 7 27 10	9 21 4 19 4	1.0 2.2 .6 3.7 .5	16.7 72.0 11.2 49.9 10.6	.8 1.5 .5 3.2 .4	1.5 3.2 1.1 6.9 .9	11.0 34.2 6.2 32.3 8.3	38.1 268.1 47.5 112.2 26.6	139.2 695.6 49.9 250.2 80.4	177.3 967.4 97.3 362.3 107.0	4.9 4.9 2.3 7.4 3.1	1.1 H .3 H (NA)	16.7 (D) 4.6 (D) (NA)
New Jersey	- E4 E1 -	9 31 22 4 5	4 19 14 4 2	.5 1.0 1.3 1.0 .2	10.5 10.8 20.5 26.7 3.3	.4 .8 1.1 .8 .1	1.0 1.2 2.0 1.5 .3	7.5 7.2 15.6 16.7 2.1	23.1 19.8 58.9 134.3 7.6	61.8 40.6 106.1 240.9 14.2	84.5 60.3 164.9 373.2 21.8	1.6 .7 3.1 3.5 (D)	F .9 1.4 1.2 .3	(D) 20.7 56.8 159.4 10.2
Texas Virginia Washington	E2 E1 E1	25 50 87	12 19 64	1.1 1.3 7.2	14.2 16.2 146.1	.9 1.1 6.2	1.5 1.6 12.4	9.5 11.6 108.3	29.8 47.4 489.6	85.2 65.8 958.9	114.9 113.2 1 447.3	6.6 6.5 22.0	F G 3.7	(D) (D) 172.5
INDUSTRY 2095, ROASTED COFFEE														
United States	-	172	90	10.5	340.0	6.6	14.0	192.6	2 752.5	2 530.0	5 292.8	149.1	10.7	2 589.8
Alabama	E1 - -	1 31 5 14 5	1 16 1 6 4	1.4 C .7 C	(D) 51.5 (D) 22.7 (D)	(D) 1.0 (D) .4 (D)	(D) 2.0 (D) 1.0 (D)	(D) 31.0 (D) 11.7 (D)	(D) 512.8 (D) 277.2 (D)	(D) 440.6 (D) 244.8 (D)	(D) 956.1 (D) 522.7 (D)	(D) 16.5 (D) (D) (D)	1.3 (NA) F (NA)	(D) 390.7 (NA) (D) (NA)
Illinois Indiana Louisiana Maryland Massachusetts	E4 - E2 E1	9 2 8 3 3	5 1 5 1 3	.5 C .8 .1 .3	14.4 (D) 23.4 2.4 10.0	.3 (D) .6 .1 .1	.7 (D) 1.3 .3 .2	8.6 (D) 17.1 1.9 2.0	45.9 (D) 438.2 27.2 21.4	108.1 (D) 284.2 28.7 51.0	154.1 (D) 727.0 55.6 72.4	2.0 (D) (D) 1.1 (D)	E (NA) F (NA) E	(D) (NA) (D) (NA) (D)
Missouri	- - E2 -	8 1 9 15 2	4 1 8 9 1	E C 1.2 .6 E	(D) (D) 36.2 17.7 (D)	(D) (D) .8 .3 (D)	(D) (D) 1.5 .6 (D)	(D) (D) 23.6 7.0 (D)	(D) (D) 151.2 81.5 (D)	(D) (D) 227.5 80.6 (D)	(D) (D) 385.3 162.5 (D)	3.7 (D) 16.0 2.9 (D)	E (NA) 2.2 .5 E	(D) (NA) 416.9 60.1 (D)
Ohio	- - - - -	8 1 2 3 7 4	3 1 1 1 4 4	.4 C C C 1.4 E	12.1 (D) (D) (D) 59.5 (D)	.3 (D) (D) (D) 1.1 (D)	.5 (D) (D) (D) 2.5 (D)	7.2 (D) (D) (D) 44.1 (D)	66.3 (D) (D) (D) 499.8 (D)	97.4 (D) (D) (D) 469.9 (D)	163.8 (D) (D) (D) 971.7 (D)	(D) (D) (D) (D) (D)	E C C C 1.3 (NA)	(D) (D) (D) (D) 440.5 (NA)

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

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

[Excludes data for auxiliaries. States		1 100 6111	loyees or i	nore are s	nown. Torn	nearing or			10013, 366 111110	ductory text.	or explanation	i oi teimis, e		
							199							1987
Industry and geographic area	E¹	Total	With 20 employ- ees or more (no.)	All em 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 2096, POTATO CHIPS AND SIMILAR SNACKS		(1 /	(- /	()===/		(, , , , , ,							(),,,,,	
United States	-	409	215	34.9	828.8	24.1	45.7	473.2	3 912.8	3 409.2	7 324.7	259.1	33.1	3 306.8
Alabama Arizona Arkansas California Colorado	E1 - E1	2 10 3 54 11	1 5 2 26 5	G .6 E 3.6 .4	(D) 13.4 (D) 93.5 10.9	(D) .4 (D) 2.4 .3	(D) .8 (D) 4.3 .6	(D) 8.6 (D) 48.5 5.7	(D) 83.9 (D) 366.7 42.4	(D) 38.9 (D) 367.1 45.7	(D) 122.8 (D) 732.9 88.6	(D) (D) (D) 11.9 (D)	G (NA) (NA) 3.0 .5	(D) (NA) (NA) 310.8 37.7
Connecticut Florida Georgia Hawaii Illinois	- - E2 -	2 10 6 5 22	2 6 5 1 11	F .8 F .2 1.1	(D) 20.0 (D) 8.2 20.8	(D) .6 (D) .1 .7	(D) 1.2 (D) .2 1.7	(D) 12.3 (D) 2.1 12.8	(D) 86.3 (D) 11.2 78.9	(D) 94.8 (D) 4.6 81.6	(D) 181.2 (D) 15.7 160.5	(D) (D) (D) (D) 10.6	F F F ? G	(D) (D) (D) 15.9 (D)
Indianalowa Iowa Kansas Kentucky Maine	- - - -	12 9 6 6 2	7 4 2 5 1	2.0 .4 F .8 C	48.8 8.9 (D) 19.6 (D)	1.6 .2 (D) .6 (D)	3.0 .4 (D) 1.3 (D)	34.2 3.3 (D) 11.3 (D)	317.4 45.8 (D) 77.3 (D)	242.2 16.5 (D) 69.2 (D)	559.4 62.6 (D) 146.4 (D)	(D) (D) (D) 6.4 (D)	G E F (NA)	(D) (D) (D) (D) (NA)
Maryland	E1 - - -	2 10 14 5 3	2 6 7 5 1	C .6 .9 F E -	(D) 14.5 25.1 (D) (D)	(D) .3 .6 (D) (D)	(D) .6 1.2 (D) (D)	(D) 5.8 15.7 (D) (D)	(D) 37.2 88.1 (D) (D)	(D) 30.8 84.1 (D) (D)	(D) 67.9 171.9 (D) (D)	(D) 1.1 6.6 (D) (D)	(NA) F .9 F	(NA) (D) 95.2 (D) (D)
Missouri Nebraska New Mexico New York North Carolina	- - - -	8 4 14 8	3 3 6 5	F .2 C F G	(D) 2.8 (D) (D) (D)	(D) .1 (D) (D) (D)	(D) .2 (D) (D) (D)	(D) 1.6 (D) (D) (D)	(D) 14.3 (D) (D) (D)	(D) 12.1 (D) (D) (D)	(D) 26.7 (D) (D) (D)	(D) (D) 3.6 (D)	F E (NA) F G	(D) (D) (NA) (D) (D)
Ohio	- - - -	27 2 4 36 1	17 1 3 26 1	1.6 C .5 5.2 E	37.5 (D) 11.8 117.5 (D)	1.0 (D) .3 3.5 (D)	2.0 (D) .5 6.6 (D)	20.1 (D) 4.7 64.1 (D)	144.5 (D) 35.0 459.6 (D)	157.0 (D) 37.0 353.5 (D)	301.5 (D) 72.0 814.4 (D)	7.4 (D) (D) 25.5 (D)	G (NA) E 4.9 C	(D) (NA) (D) 319.9 (D)
Tennessee Texas Utah Virginia Washington Wisconsin	E2 - -	9 56 4 4 5 12	6 19 2 2 3 5	1.3 3.1 E F F	31.8 73.8 (D) (D) (D) (D)	.9 2.4 (D) (D) (D) (D)	1.7 4.4 (D) (D) (D) (D)	18.7 49.2 (D) (D) (D) (D)	195.2 494.3 (D) (D) (D) (D)	208.2 395.5 (D) (D) (D) (D)	403.1 890.4 (D) (D) (D) (D)	(D) (D) (D) (D) (D)	1.3 3.3 C F F F	143.4 417.8 (D) (D) (D) (D)
INDUSTRY 2097, MANUFACTURED ICE														
		562	59	4.8	93.3	2.9	6.1	48.4	255.1	103.6	358.8	13.8	4.7	202.9
Arizona California Florida Georgia Indiana	E2 E4 E1 E1 E4	12 37 37 17 18	3 9 6 - 4	E .5 .3 .1 C	(D) 12.3 6.5 2.2 (D)	(D) .4 .2 .1 (D)	(D) .7 .5 .2 (D)	(D) 6.9 3.4 1.4 (D)	(D) 29.1 19.1 8.3 (D)	(D) 14.9 8.2 3.3 (D)	(D) 44.0 27.3 11.7 (D)	(D) 1.9 (D) .4 1.1	.2 F .3 C C	4.8 (D) 11.7 (D) (D)
Louisiana	E3 - E1 -	24 9 17 22 16	1 1 2 2 3	.1 .2 .2 .1 .2	2.1 1.7 3.2 3.7 4.0	.1 .1 .1 .1	.2 .1 .2 .2 .2	1.2 .5 1.7 1.6 1.5	6.4 5.7 7.6 10.5 7.4	2.9 1.3 2.5 2.8 5.5	9.3 7.0 10.1 13.2 13.0	.2 .4 (D) .5 .2	E (NA) (NA) (NA) C	(D) (NA) (NA) (NA) (D)
Ohio Pennsylvania Texas Virginia	E1	19 26 65 14	1 2 10 1	C .1 F .1	(D) 2.6 (D) 1.9	(D) .1 (D) .1	(D) .2 (D) .1	(D) 1.2 (D) 1.0	(D) 10.0 (D) 4.1	(D) 3.0 (D) 1.6	(D) 13.1 (D) 5.8	(D) .2 1.7 .3	(NA) (NA) F (NA)	(NA) (NA) (D) (NA)
INDUSTRY 2098, MACARONI AND SPAGHETTI														
United States	-	199	41	5.9	146.8	4.6	10.2	104.6	830.8	565.1	1 389.5	74.7	6.6	614.0
Alabama	- E1 E1 E1	1 3 38 9 4	1 1 3 2 1	C .4 .3 C	(D) (D) 10.3 6.2 (D)	(D) (D) .3 .2 (D)	(D) (D) .8 .5 (D)	(D) (D) 7.5 4.1 (D)	(D) (D) 52.2 20.0 (D)	(D) (D) 28.4 17.6 (D)	(D) (D) 81.4 37.6 (D)	(D) (D) 7.0 .9 (D)	(NA) (NA) F E (NA)	(NA) (NA) (D) (D) (NA)
Kentucky	E2 - -	1 4 6 5 4	1 2 2 1 1	CCECE	(D) (D) (D) (D) (D)	(D) (D) (D) (D) (D)	(D) (D) (D) (D) (D)	(D) (D) (D) (D) (D)	(D) (D) (D) (D) (D)	(D) (D) (D) (D) (D)	(D) (D) (D) (D) (D)	(D) (D) (D) (D)	(NA) C E C E	(NA) (D) (D) (D) (D)
Missouri Nebraska New Jersey New York	- - E1 E1	3 3 8 37 2	2 3 3 4 1	E E F .7 E	(D) (D) (D) 16.3 (D)	(D) (D) (D) .5 (D)	(D) (D) (D) 1.3 (D)	(D) (D) (D) 13.1 (D)	(D) (D) (D) 75.3 (D)	(D) (D) (D) 50.3 (D)	(D) (D) (D) 125.8 (D)	(D) 1.6 (D) 1.3 (D)	CEF &C	(D) (D) (D) 80.6 (D)
Ohio	E1	6 13 4	2 3 3	.1 E C	3.0 (D) (D)	.1 (D) (D)	.2 (D) (D)	1.9 (D) (D)	10.2 (D) (D)	7.5 (D) (D)	17.6 (D) (D)	.6 (D) (D)	C E E	(D) (D) (D)

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

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

							199	2						1987
Industry and geographic area	E ¹	All estab	With 20 employ- ees or more (no.)	All emp	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 2099, FOOD PREPARATIONS, N.E.C.														
United States	E1	1 800	637	61.4	1 412.4	43.7	86.4	796.2	5 883.5	6 313.4	12 170.2	332.3	58.0	5 126.4
Alabama Arizona Arkansas California Colorado	E1	16 30 9 337 37	7 10 5 137 17	.7 .9 G 12.4 1.5	15.2 13.4 (D) 246.0 29.8	.4 .6 (D) 8.9 1.1	.8 1.2 (D) 17.6 1.9	6.2 7.0 (D) 145.3 14.0	36.1 37.5 (D) 1 052.1 98.5	71.8 41.4 (D) 894.6 86.8	108.1 78.9 (D) 1 932.3 184.7	6.2 3.6 (D) 44.3 5.4	.8 .6 .8 11.8 .8	34.1 22.5 95.2 865.0 54.2
Connecticut	E1	15 2 51 37 42	4 1 10 15 8	.3 G .7 1.6 .6	8.9 (D) 13.6 39.0 11.2	.2 (D) .4 1.1 .4	.4 (D) .9 2.2 .7	3.8 (D) 7.9 22.7 5.4	16.1 (D) 64.9 163.7 32.0	13.2 (D) 55.7 360.9 29.3	29.2 (D) 121.3 526.2 60.7	2.0 (D) 2.2 7.3 1.0	E G F 1.9 .6	(D) (D) (D) 163.5 25.3
IdahoIllinoisIndianaIndiana	-	10 97 27 16 19	3 40 12 8 11	C 5.2 1.7 1.0 G	(D) 138.1 39.5 25.5 (D)	(D) 3.5 1.3 .7 (D)	(D) 7.2 2.6 1.4 (D)	(D) 70.7 23.5 13.6 (D)	(D) 531.6 217.2 92.5 (D)	(D) 502.4 147.3 184.6 (D)	(D) 1 032.1 368.7 271.2 (D)	(D) 32.1 7.7 6.0 (D)	F H 2.8 .8 F	(D) (D) 403.9 64.8 (D)
Kentucky	E4	13 28 32 37 55	9 14 11 12 18	.8 1.0 2.1 .7 1.3	25.1 20.4 88.2 17.6 23.8	.6 .7 1.3 .5 1.0	1.3 1.5 2.3 1.0 1.8	14.1 12.2 38.7 10.1 13.2	150.7 91.9 339.6 78.8 96.3	311.0 84.7 417.2 57.4 89.7	456.4 176.5 746.6 136.8 186.2	9.1 (D) 21.0 5.9 3.6	.6 .6 2.3 F 1.2	100.4 49.0 340.3 (D) 65.4
Minnesota Mississippi Missouri Nebraska Nevada	E1 E7	42 8 24 13 10	15 4 7 4 2	1.2 F .5 .2	34.1 (D) 11.3 4.6 3.4	1.0 (D) .4 .1	2.0 (D) .8 .2 .2	18.6 (D) 7.5 2.3 2.5	121.2 (D) 43.3 9.8 13.2	93.2 (D) 171.7 29.5 13.1	219.5 (D) 212.3 39.4 26.4	(D) (D) (D) (D)	1.2 E .5 .2 E	89.3 (D) 37.3 10.2 (D)
New Jersey	E1 E3	54 21 111 27 7	20 5 30 13 4	1.7 .4 2.7 1.6 E	45.1 6.3 62.9 30.1 (D)	1.2 .3 1.7 1.2 (D)	2.4 .5 3.6 2.2 (D)	24.8 3.3 30.7 20.6 (D)	113.2 29.0 197.5 62.8 (D)	187.8 19.3 202.8 85.0 (D)	296.9 39.1 399.1 147.5 (D)	10.7 1.2 8.5 11.6 (D)	2.0 E 3.6 F (NA)	123.8 (D) 245.2 (D) (NA)
Ohio	E3 E1 E1	53 17 35 66 8	22 5 6 25 3	2.1 .4 .7 1.8 F	49.6 10.3 14.7 39.8 (D)	1.4 .3 .5 1.2 (D)	2.9 .5 1.0 2.3 (D)	25.3 4.6 8.3 22.0 (D)	264.0 14.6 65.3 167.0 (D)	201.1 44.3 53.7 189.8 (D)	472.4 58.9 118.9 360.7 (D)	7.0 1.0 2.9 7.0 (D)	1.7 .3 .5 2.1 (NA)	153.6 8.2 38.7 223.2 (NA)
Tennessee Texas Utah Vermont Virginia Washington Wisconsin	E4 E1 E2	30 174 9 16 20 55 54	9 51 3 13 17 22	F 4.3 .2 C 1.7 1.4 1.8	(D) 72.4 3.9 (D) 47.6 32.8 47.1	(D) 3.1 .1 (D) 1.3 .9 1.3	(D) 6.5 .1 (D) 3.0 1.7 2.5	(D) 43.3 .9 (D) 34.5 16.7 27.3	(D) 229.9 9.1 (D) 367.2 103.2 217.6	(D) 249.3 11.1 (D) 277.7 107.3 205.8	(D) 489.6 20.4 (D) 642.2 209.6 421.6	3.6 14.6 .8 (D) 18.3 7.6 (D)	.8 4.1 E C 1.2 1.1 1.2	57.3 254.3 (D) (D) 287.8 69.6 131.7

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; one of the following symbols: C-100 to 249 employees; E-250 to 499 employees; F-500 to 999 employees; G-1,000 to 24,999 employees; H-2,500 to 4,999 employees; L-50,000 to 99,999 employees; M-100,000 employees or more.

Table 3a. Summary Statistics for the Industry: 1992

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

ltem	Canned and cured fish and seafoods (SIC 2091)	Fresh or frozen prepared fish (SIC 2092)	Roasted coffee (SIC 2095)	Potato chips and similar snacks (SIC 2096)	Manufactured ice (SIC 2097)	Macaroni and spaghetti (SIC 2098)	Food preparations, n.e.c. (SIC 2099)
Companiesnumber	143	599	134	334	513	182	1 644
All establishments number With 1 to 19 employees number With 20 to 99 employees number With 100 employees or more number	158	684	172	409	562	199	1 800
	97	318	82	194	503	158	1 163
	40	244	58	124	55	22	479
	21	122	32	91	4	19	158
Employment and labor costs: Employees	7.0	41.3	10.5	34.9	4.8	5.9	61.4
	165.2	925.1	433.5	1 059.7	114.9	188.1	1 744.2
	132.7	761.1	340.0	828.8	93.3	146.8	1 412.4
	32.5	164.0	93.5	230.9	21.6	41.3	331.8
	18.4	93.5	33.1	100.0	10.8	19.2	144.6
	14.2	70.5	60.4	130.9	10.8	22.1	187.2

See footnotes at end of table.

201–14 MISCELLANEOUS FOOD AND KINDRED PRODUCTS

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

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

Item	Canned and cured fish and seafoods (SIC 2091)	Fresh or frozen prepared fish (SIC 2092)	Roasted coffee (SIC 2095)	Potato chips and similar snacks (SIC 2096)	Manufactured ice (SIC 2097)	Macaroni and spaghetti (SIC 2098)	Food preparations, n.e.c. (SIC 2099)
Production workers: 1,000 Average for year 1,000 May 1,000 August 1,000 November 1,000	5.5 4.6 5.1 7.5 4.7	34.2 34.3 33.6 38.3 30.6	6.6 6.7 6.4 6.5 6.6	24.1 23.8 24.3 24.7 23.7	2.9 2.5 3.1 3.8 2.3	4.6 4.7 4.6 4.6 4.6	43.7 43.2 43.6 44.2 44.1
Hoursmillions	10.3	67.0	14.0	45.7	6.1	10.2	86.4
Wagesmil dol	87.8	520.5	192.6	473.2	48.4	104.6	796.2
Cost of materials¹ mil dol_ Materials, parts, containers, etc., consumed² mil dol_ Resales mil dol_ Fuels mil dol_ Purchased electricity mil dol_ Contract work mil dol_	606.5 556.1 28.3 9.2 8.1 4.8	4 671.4 4 165.0 363.9 45.9 57.5 39.0	2 530.0 2 319.1 144.3 24.5 31.8 10.4	3 409.2 3 144.6 164.9 52.1 37.8 9.8	103.6 75.0 12.2 2.3 12.9 1.2	565.1 506.4 32.7 6.9 16.7 2.6	6 313.4 5 809.5 290.6 55.8 113.4 44.1
Quantity of electric energy used for heat and power: Purchased mil kWh_ Generated less sold mil kWh_	109.5 (D)	854.2 (D)	530.0	669.5 (D)	200.6	254.1 (D)	1 898.9 (D)
Total value of shipmentsmil dol	968.4	6 995.7	5 292.8	7 324.7	358.8	1 389.5	12 170.2
Value addedmil dol	362.0	2 325.1	2 752.5	3 912.8	255.1	830.8	5 883.5
Inventories by stage of fabrication: Beginning of 1992mil dol Finished goodsmil dol Work in processmil dol Materials and suppliesmil dol	163.6 113.9 6.1 43.5	796.0 515.6 40.8 239.6	324.5 131.4 25.6 167.5	203.6 65.9 6.3 131.4	19.1 8.3 .8 10.0	86.1 52.2 1.4 32.6	1 136.7 453.1 82.4 601.2
End of 1992 mil dol_ Finished goods mil dol_ Work in process mil dol_ Materials and supplies mil dol_	164.9 120.5 6.2 38.2	827.3 574.5 41.6 211.3	302.1 120.7 26.1 155.4	196.1 63.5 6.0 126.5	18.5 8.2 .8 9.5	97.2 58.3 1.7 37.2	1 163.0 466.1 96.0 600.9

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

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]

ltem	Canned and cured fish and seafoods (SIC 2091)	Fresh or frozen prepared fish (SIC 2092)	Roasted coffee (SIC 2095)	Potato chips and similar snacks (SIC 2096)	Manufactured ice (SIC 2097)	Macaroni and spaghetti (SIC 2098)	Food preparations, n.e.c. (SIC 2099)
Gross book value of depreciable assets: Total: Beginning of year	236.2	1 671.6	1 221.2	2 194.1	271.1	596.2	3 093.6
New capital expenditures¹	20.1	149.6	149.1	259.1	13.8	74.7	332.3
	1.3	16.7	11.6	9.0	4.6	4.2	24.9
	9.8	38.9	32.3	62.0	6.3	21.2	117.3
	247.8	1 799.0	1 349.6	2 400.2	283.2	654.0	3 333.5
Buildings and other structures: Beginning of year New capital expenditures Used capital expenditures Retirements End of year	73.9	544.9	212.2	678.2	71.0	141.6	799.0
	4.6	27.4	12.6	46.8	1.3	6.3	43.6
	.3	4.1	(D)	(D)	(D)	(D)	14.0
	3.6	7.6	(D)	(D)	(D)	(D)	19.8
	75.1	568.9	225.1	720.6	71.9	146.6	836.8
Machinery and equipment: Beginning of year New capital expenditures¹ Used capital expenditures Retirements End of year	162.3	1 126.6	1 009.0	1 515.8	200.1	454.6	2 294.5
	15.6	122.1	136.5	212.4	12.5	68.5	288.8
	1.0	12.6	(D)	(D)	(D)	(D)	10.9
	6.3	31.2	(D)	(D)	(D)	(D)	97.5
	172.6	1 230.1	1 124.5	1 679.6	211.3	507.3	2 496.7
Depreciation charges during 1992: Total Buildings and other structures Machinery and equipment	15.9	111.9	97.7	149.8	19.7	34.2	200.9
	3.2	23.3	9.7	26.8	3.3	4.7	36.6
	12.7	88.6	88.1	122.9	16.5	29.4	164.3
Rental payments: Total Buildings and other structures Machinery and equipment	8.8	47.9	23.9	32.0	7.2	4.9	77.8
	4.6	24.6	14.4	18.1	3.2	2.6	44.5
	4.1	23.3	9.4	13.9	4.0	2.3	33.3

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

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

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

For meaning of abbreviations and symbols, see introductory text. For explanation of	I		I					
	Canned and and sea (SIC 2	afoods		frozen prepared fish IC 2092)	Roasted (SIC 2	coffee 2095)	s	ips and similar nacks C 2096)
Item	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amou (millio dollar	on estimate ¹	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amoun (millior dollars	n estimate ¹
Purchased services: Cost of purchased services for the repair of— Buildings and other structures ————————————————————————————————————	1.9 60.9 6.8 60.9 (S)	(X) (X) (X) (X) (X)	51 54 52	1.7 (X) 2.0 (X)	3.0 58.8 18.2 61.0	(X) (X) (X) (X) (X)	7.0 83.1 34.9 83.7	1 (X) 9 (X) 7 (X)
Response coverage ratio (percent) ²	(S) 1.1 60.9 .7 59.1 1.5 56.4 .3 58.1 1.6 58.1	(X) (X) (X) (X) (X) (X) (X) (X) (X) (X)	51 33 51 9 51 1	1.9 (X) 1.7 (X) 1.5 (X) 1.8 (X) 1.8 (X) 1.8 (X) 1.6 (X) 1.6 (X) 1.2 (X)	54.1 .7 .7 .57.5 .1.5 .61.0 .6.5 .61.0 .40.2 .58.8 .1.6 .59.1	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	83.2 4.1 83.3 1.0 81.1 21.8 82.7 80.9 12.5 82.7	1 (X) 3 (X) 0 (X) 1 (X) 8 (X) 7 (X) 9 (X) 5 (X)
New machinery and equipment expenditures Automobiles, trucks, etc., for highway use Computers and peripheral data processing equipment. All other. Adjustment ratio ³	15.6 (S) (S) (S) (S) (S)	(X) (X) (X) (X) (X)	122 (; (; (; (;	(X) (S) (S) (X) (S) (X) (X) (X) (X)	136.5 1.6 3.0 131.9 1.3	(X) 6 2 1 (X)	212.4 (S (S (S (S	(X) (X) (X) (X) (X) (X)
Cost of materials, components, parts, etc., used	556.1 (S) (S) (S)	(X) (X) (X) (X)	4 165 (1 (1 (1	(X) (X) (X) (S) (X) (X) (X)	2 319.1 1 544.6 774.5 1.1	(X) 2 3 (X)	3 144.6 2.7 3 141.9 1.3	7 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	Man (\$	ufactured ice SIC 2097)		Macaroni a	nd spaghetti 2098)	Fo	od preparation (SIC 20)	ons, n.e.c. 99)
Item	Amo (mil dolla	unt lion e	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relat standa error estima (perce	ard of te ¹	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		(S) (S) (S) (S)	(X) (X) (X) (X)	2.0 61.9 12.9 61.9		(X) (X) (X) (X)	14.7 67.7 65.7 70.4	(X) (X) (X) (X)
Other purchased services: 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 Software and other data processing Response coverage ratio (percent) ² Refuse removal, including hazardous waste Response coverage ratio (percent) ²		(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)		(D) (D) (D) 59.8 (D) (D) (D) (D) (D)			13.4 68.5 8.8 68.0 6.7 67.2 81.6 68.8 4.1 67.5 11.2 68.2	(X) (X) (X) (X) (X) (X) (X) (X) (X)
New machinery and equipment expenditures Automobiles, trucks, etc., for highway use Computers and peripheral data processing equipment All other Adjustment ratio ³		2.5 8.7 (Z) 3.8 1.6	(X) 27 (X) 60 (X)	68.5 .3 .9 67.3 1.2		(X) 15 2 1 (X)	288.8 9.0 15.4 264.4 1.6	(X) 27 9 2 (X)
Cost of materials, components, parts, etc., used		75.0 - (S) (S)	(X) (X) (X) (X)	506.4 .8 505.6 1.6		42	5 809.5 700.2 5 109.3 1.7	(X) 13 3 (X)

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

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

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

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

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

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

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

[1 of meaning of appreviations and symbols, see into	T	lory text. T	1							I	1	
		All	All em	ployees	Pro	duction wor	kers	Value added by			New capital	End-of- year
Industry and employment size class	E ¹	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 2091, CANNED AND CURED FISH AND SEAFOODS												
Total	-	158	7.0	132.7	5.5	10.3	87.8	362.0	606.5	968.4	20.1	164.9
Establishments with an average of— 1 to 4 employees	E7 E3 - - -	58 17 22 18 22 18 2 18 2	.1 .3 .6 1.5 2.7 1.6 (D)	2.1 2.0 4.7 11.5 30.2 51.0 31.2 (D)	.1 .2 .4 1.2 2.0 1.4 (D)	.2 .2 .4 1.0 2.4 3.6 (D)	1.4 1.2 2.9 6.4 18.4 32.0 25.5 (D)	5.0 4.3 10.9 40.2 82.7 136.5 82.5 (D)	10.9 9.2 19.4 49.0 159.1 255.4 103.4 (D)	15.9 13.5 30.2 89.2 241.8 391.8 185.9 (D)	.6 .5 .8 1.1 3.4 13.8 (D)	3.4 2.9 6.5 14.3 39.9 64.4 33.4 (D)
Covered by administrative records ²	E9	63	.2	2.4	.1	.2	1.7	5.9	13.1	19.0	.8	4.2
INDUSTRY 2092, FRESH OR FROZEN PREPARED FISH												
Total	E1	684	41.3	761.1	34.2	67.0	520.5	2 325.1	4 671.4	6 995.7	149.6	827.3
Establishments with an average of— 1 to 4 employees	E5 E3 E2 E1 -	152 84 82 140 104 91 21 9	.3 .6 1.2 4.5 7.1 13.3 7.5 6.9 (D)	4.9 10.8 22.1 72.7 122.1 246.6 157.1 124.9 (D)	.2 .5 .9 3.6 5.9 11.1 6.4 5.6 (D)	.4 .9 1.7 6.4 10.8 22.0 13.2 11.6 (D)	3.3 6.9 13.6 47.2 85.2 180.1 110.0 74.3 (D)	13.2 28.9 53.5 175.1 360.3 678.1 582.6 433.4 (D)	33.3 77.9 149.1 453.9 721.9 1 438.2 1 012.9 784.1 (D)	46.4 105.9 202.6 627.1 1 082.2 2 120.7 1 593.1 1 217.7 (D)	1.8 3.6 5.8 13.0 24.0 41.6 41.3 18.4 (D)	5.9 13.2 15.4 71.1 115.5 303.3 201.4 101.6 (D)
Covered by administrative records		100	.5	0.0		.,	4.5	10.7	40.7	00.4	2.4	7.0
INDUSTRY 2095, ROASTED COFFEE												
Total	-	172	10.5	340.0	6.6	14.0	192.6	2 752.5	2 530.0	5 292.8	149.1	302.1
Establishments with an average of— 1 to 4 employees	E8 E6 E3 -	33 21 28 39 19 20 11	.1 .4 1.2 1.4 3.1 4.2 (D)	1.4 3.1 9.1 32.2 39.5 94.7 160.0 (D)	(Z) .1 .2 .7 .8 2.0 2.8 (D)	.1 .2 .5 1.3 1.7 4.0 6.3 (D)	.8 1.6 5.2 13.5 19.2 52.3 99.9 (D)	14.4 26.3 64.7 171.8 181.0 662.4 1 631.9	11.3 22.2 61.9 186.1 210.1 753.9 1 284.3 (D)	25.7 48.7 126.5 360.5 390.9 1 425.7 2 914.9	.4 .9 2.1 7.1 14.0 40.9 83.8 (D)	1.6 3.2 9.7 27.7 34.9 118.9 106.1
Covered by administrative records ²	E9	19	(Z)	.4	(Z)	(Z)	.2	4.5	3.3	7.9	.1	.5
INDUSTRY 2096, POTATO CHIPS AND SIMILAR SNACKS												
Total	-	409	34.9	828.8	24.1	45.7	473.2	3 912.8	3 409.2	7 324.7	259.1	196.1
Establishments with an average of— 1 to 4 employees 5 to 9 employees 10 to 19 employees 20 to 49 employees 50 to 99 employees 100 to 249 employees 500 to 999 employees 1,000 to 2,499 employees	E7 E4 E2 E1 - -	99 52 43 79 45 49 27 13 2	.2 .4 .6 2.5 3.2 8.3 9.3 10.5 (D)	3.7 5.6 11.1 46.5 73.1 178.3 240.4 270.1 (D)	.1 .2 .4 1.7 2.2 5.6 6.6 7.2 (D)	.3 .4 .6 .3.2 4.2 11.2 12.4 13.5 (D)	2.1 3.2 5.2 24.0 40.6 96.6 141.9 159.7 (D)	15.2 20.3 34.5 150.2 334.8 743.5 1 256.7 1 357.7 (D)	17.7 23.3 37.8 138.2 241.7 601.3 1 130.3 1 219.0 (D)	32.9 43.7 72.2 288.0 577.9 1 343.6 2 388.1 2 578.2 (D)	1.0 .8 3.9 7.1 16.4 60.4 65.3 104.4 (D)	1.2 1.7 2.7 16.1 32.7 41.8 43.5 56.4 (D)
Covered by administrative records ²	E9	131	.5	6.8	.3	.6	3.8	25.6	28.7	54.3	1.2	1.5
INDUSTRY 2097, MANUFACTURED ICE												
Total	E2	562	4.8	93.3	2.9	6.1	48.4	255.1	103.6	358.8	13.8	18.5
Establishments with an average of— 1 to 4 employees	E1 E1 E1 E3	292 115 96 51 4 4	.5 .8 1.3 1.5 .5	9.7 14.5 26.7 31.1 5.4 5.9	.4 .5 .8 .7 .2 .3	.7 1.1 1.7 1.6 .4 .5	5.9 8.5 14.9 13.2 2.7 3.2	29.4 42.4 62.2 92.8 16.1 12.2 25.3	13.5 18.1 29.2 32.2 6.1 4.4	42.9 60.4 91.4 125.2 22.1 16.8	1.2 2.5 4.0 4.8 .6 .7	3.0 5.7 4.0 5.0 .3 .6
,			.5 .	2.0	.0				2.5	2 ,		

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

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

		All	All em	ployees	Pro	duction wo	rkers	Value added by			New capital	End-of-
Industry and employment size class	E ¹	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)	year inven- tories (million dollars)
INDUSTRY 2098, MACARONI AND SPAGHETTI												
Total	-	199	5.9	146.8	4.6	10.2	104.6	830.8	565.1	1 389.5	74.7	97.2
Establishments with an average of — 1 to 4 employees	E8 E6 E3 E3	90 40 28 12 10 14 5	.2 .3 .4 .4 .8 <u>3.9</u>	3.1 3.8 7.1 8.5 21.7 102.6 (D)	.1 .2 .3 .3 .6 3.1 (D)	.3 .4 .6 .6 1.5 6.8 (D)	2.2 2.7 4.1 5.2 15.1 <u>75.3</u> (D)	15.3 17.9 24.5 23.3 111.2 638.6 (D)	10.2 12.2 17.8 17.3 55.4 452.2	25.5 30.1 42.1 40.5 168.1 1 083.2 (D)	.9 1.0 1.0 1.5 4.5 65.9 (D)	1.6 2.1 3.3 2.8 14.2 73.3 (D)
Covered by administrative records ²	E9	105	.3	4.2	.2	.5	3.0	22.8	14.1	36.9	1.5	2.3
INDUSTRY 2099, FOOD PREPARATIONS, N.E.C.												
Total	E1	1 800	61.4	1 412.4	43.7	86.4	796.2	5 883.5	6 313.4	12 170.2	332.3	1 163.0
Establishments with an average of — 1 to 4 employees	E8 E5 E2 E2 E2 	638 262 263 332 147 125 27 4	.9 1.8 3.5 10.4 10.4 18.9 9.9 5.6 (D)	18.0 34.7 66.9 220.0 216.7 438.7 249.3 168.1 (D)	.6 1.3 2.4 7.1 7.1 13.4 7.4 4.4 (D)	1.1 2.4 4.4 13.4 13.9 27.0 15.9 8.3 (D)	10.3 20.4 37.2 114.2 115.7 247.5 147.3 103.6 (D)	82.5 154.0 246.3 714.6 839.7 1 860.4 1 187.3 <u>798.5</u> (D)	92.0 177.7 256.8 798.9 1 055.2 2 356.6 973.1 603.1	174.1 329.6 500.3 1 516.1 1 873.9 4 217.6 2 161.9 1 396.8 (D)	4.2 8.7 18.5 42.6 42.8 96.0 66.7 52.8 (D)	20.1 31.9 67.3 147.7 210.7 377.1 206.2 102.2 (D)
Covered by administrative records ²	E9	648	1.5	23.4	1.1	1.9	13.2	105.7	102.0	207.6	4.6	19.8

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.

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

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

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

Indus- try or		A.II.	All em	oloyees	Pro	oduction work	ers	Value added by			New
prod- uct class code	Industry or primary product class	All estab- lish- ments (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	capital expend- itures (million dollars)
2091	Canned and cured fish and seafoods: All establishments in industry	158	7.0	132.7	5.5	10.3	87.8	362.0	606.5	968.4	20.1
2092	Fresh or frozen prepared fish: All establishments in industry	684	41.3	761.1	34.2	67.0	520.5	2 325.1	4 671.4	6 995.7	149.6
20922 20923 20925 20926	Establishments with this product class primary: Prepared fresh fish and other fresh seafood Frozen fish Frozen shellfish Other frozen seafoods	147 101 80 29	7.8 16.1 9.1 3.5	118.2 331.2 162.0 75.7	6.4 13.2 7.7 3.1	10.7 26.8 15.5 6.7	77.4 221.9 112.8 59.1	363.6 1 015.0 527.8 241.9	568.9 2 346.2 1 043.2 285.8	929.1 3 364.1 1 570.9 527.7	17.4 62.4 35.9 14.3
2095	Roasted coffee: All establishments in industry	172	10.5	340.0	6.6	14.0	192.6	2 752.5	2 530.0	5 292.8	149.1
20951 20952	Establishments with this product class primary: Roasted coffee Concentrated coffee	90 15	8.7 1.3	282.8 43.8	5.2 1.0	11.2 2.1	152.9 32.8	2 493.8 190.6	2 204.9 267.5	4 708.0 459.3	134.0 (D)
2096	Potato chips and similar snacks: All establishments in industry	409	34.9	828.8	24.1	45.7	473.2	3 912.8	3 409.2	7 324.7	259.1
20961 20962 20963	Establishments with this product class primary: Potato chips and sticks, plain and flavored Corn chips and related products Other chips, sticks, etc.	100 78 40	17.4 13.4 2.6	422.8 323.5 60.0	10.8 10.4 2.0	20.8 19.3 4.0	215.1 207.5 38.3	1 814.6 1 670.4 344.2	1 518.6 1 549.1 245.0	3 334.9 3 220.8 588.9	115.5 109.6 27.4
2097	Manufactured ice: All establishments in industry	562	4.8	93.3	2.9	6.1	48.4	255.1	103.6	358.8	13.8
2098	Macaroni and spaghetti: All establishments in industry	199	5.9	146.8	4.6	10.2	104.6	830.8	565.1	1 389.5	74.7

See footnotes at end of table.

201–18 MISCELLANEOUS FOOD AND KINDRED PRODUCTS

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. 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)
2099	Food preparations, n.e.c.: All establishments in industry	1 800	61.4	1 412.4	43.7	86.4	796.2	5 883.5	6 313.4	12 170.2	332.3
20991 20993 20994 20996 20999	Establishments with this product class primary: Desserts (ready-to-mix) Sweetening syrups and molasses Baking powder and yeast Vinegar and cider Perishable prepared foods sold in bulk or packages,	13 20 22 39	1.8 1.4 1.3 .7	59.1 27.4 47.1 17.3	1.5 .8 .9 .5	2.7 1.4 2.0 1.0	45.3 13.3 28.4 10.1	536.3 78.6 170.2 83.1	256.9 138.9 144.7 84.4	793.7 219.1 314.3 164.9	11.8 9.5 17.3 5.5
2099A	not frozen or canned Macaroni and noodle products packaged with other	336	24.2	448.2	17.5	34.9	258.1	1 219.5	1 395.7	2 613.9	78.9
2099B 2099D 2099E 2099F 2099G	ingredients, not canned or frozen Dry mix preparations, except macaroni and noodles Tea in consumer packages Spices Peanut butter Other food preparations, n.e.c	27 81 28 47 17 105	1.4 5.9 3.2 4.1 1.3 6.5	27.2 176.8 96.7 145.8 39.0 151.6	1.0 3.7 2.5 2.7 1.0 4.8	2.1 7.5 5.0 4.9 2.1 10.0	15.4 80.7 65.7 71.0 25.5 84.6	64.9 737.9 596.2 656.7 328.6 643.3	116.9 924.6 429.8 705.0 725.0 667.6	182.9 1 646.0 1 027.1 1 355.9 1 047.0 1 314.5	14.7 48.7 19.9 21.2 12.5 58.3

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 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 2091, CANNED AND CURED FISH AND SEAFOODS			
Total value of shipments	968.4 833.5 84.7 50.2 38.7 11.0	767.0 652.1 92.4 22.6 19.5 2.8	1 849.1 1 152.2 (D) (D) (D) 7.7 1.3
Primary products specialization ratio	91	88	(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	1 138.7 833.5 305.1	862.2 652.1 210.1	1 267.1 1 152.2 114.9
Coverage ratio	73	76	91
INDUSTRY 2092, FRESH OR FROZEN PREPARED FISH			
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	6 995.7 6 328.2 248.9 418.6 390.3 20.8 7.5	5 783.0 4 969.0 204.5 609.5 584.2 18.2 7.1	4 009.1 3 589.9 122.4 296.8 256.3 25.6 14.9
Primary products specialization ratio	96	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	6 449.0 6 328.2 120.8	5 103.7 4 969.0 134.7	3 714.0 3 589.9 124.1
Coverage ratio	98	97	97
INDUSTRY 2095, ROASTED COFFEE			
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	5 292.8 4 676.0 397.3 219.5 207.6 11.8	6 400.6 5 425.4 334.7 640.4 624.8 6.2 9.4	5 826.9 5 080.2 296.0 450.7 447.8 2.8
Primary products specialization ratio	92	94	94
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	4 701.5 4 676.0 25.5	5 466.6 5 425.4 41.1	5 122.7 5 080.2 42.4
Coverage ratio	99	99	99

MANUFACTURES-INDUSTRY SERIES

MISCELLANEOUS FOOD AND KINDRED PRODUCTS 201-19

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

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

Industry		1007	4000
Industry	1992	1987	1982
INDUSTRY 2096, POTATO CHIPS AND SIMILAR SNACKS			
Total value of shipments	7 324.7	5 040.8	(NA)
Primary products value of shipments	6 955.1	4 730.0	(NA)
Secondary products value of shipments Total miscellaneous receipts	108.5 261.1	73.6 237.2	(NA) (NA)
Value of resales	254.3	235.5	(NA)
Contract receipts	(D)	(D)	(NA)
Other miscellaneous receipts	(D)	(D)	(NA)
Primary products specialization ratio	98	98	(NA)
Value of primary products shipments made in all industries	7 543.0	5 005.8	(NA)
Value of primary products shipments made in this industry Value of primary products shipments made in other industries	6 955.1 587.9	4 730.0 275.8	(NA) (NA)
value of primary products simplifients made in other industries	307.9	273.0	(IVA)
Coverage ratio	92	94	(NA)
INDUSTRY 2097, MANUFACTURED ICE			
Total value of shipments	358.8	289.6	229.5
Primary products value of shipments	341.8	277.2	222.2
Secondary products value of shipments	(Z)	- 42.4	_
Total miscellaneous receiptsValue of resales	17.7 15.2	12.4 9.0	7.4 3.4
Ice sold wholesale	2.6	(NA)	(NA)
Ice sold retailOther products	.3 7.5	(NA) (NA)	(NA) (NA)
Sales of products bought and sold without further manufacture,	7.5	(IVA)	(IVA)
processing, or assembly	_	(NA)	(NA)
Sales of products bought and sold without further manufacture, processing, or assembly, n.s.k	4.9	(NA)	(NA)
Contract receipts	(D)	1.7	.7
Other miscellaneous receipts	(D)	1.8	3.3
Primary products specialization ratio	100	100	100
Value of primary products shipments made in all industries	345.2	282.7	227.4
Value of primary products shipments made in this industry	343.2	277.2	222.2
Value of primary products shipments made in other industries	3.4	5.5	5.3
Coverage ratio	99	98	98
INDUSTRY 2098, MACARONI AND SPAGHETTI			
Total value of althousests	4 000 5	4 040 4	(212)
Total value of shipments Primary products value of shipments	1 389.5 1 270.1	1 048.1 963.6	(NA) (NA)
Secondary products value of shipments	75.4	44.5	(NA)
Total miscellaneous receipts	44.0	40.0	(NA)
Value of resales Contract receipts	43.4 (D)	39.4 (D)	(NA) (NA)
Other miscellaneous receipts	(D)	(D)	(NA)
Primary products specialization ratio	94	96	(NA)
Value of primary products shipments made in all industries	1 279.9	974.4	/A1.4.\
Value of primary products shipments made in this industries	1 279.9	963.6	(NA) (NA)
Value of primary products shipments made in other industries	9.8	10.8	(NA)
Coverage ratio	99	99	(NA)
INDUSTRY 2099, FOOD PREPARATIONS, N.E.C.			
Total value of chipmonts	40.470.0	0.707.0	/A1A)
Total value of shipmentsPrimary products value of shipments	12 170.2 11 085.2	9 787.3 8 515.1	(NA) (NA)
Secondary products value of shipments	684.2	852.6	(NA)
Total miscellaneous receiptsValue of resales	400.8 355.0	419.6 361.8	(NA) (NA)
Contract receipts	25.4	51.3	(NA)
Other miscellaneous receipts	20.3	6.4	(NA)
Primary products specialization ratio	94	91	(NA)
Value of primary products objected made in all industries	44 400 0	40.070.7	/A1.6.\
Value of primary products shipments made in all industries Value of primary products shipments made in this industry	14 183.0 11 085.2	10 670.7 8 515.1	(NA) (NA)
Value of primary products shipments made in other industries	3 097.8	2 155.6	(NA)
Occurred and the			
Coverage ratio	78	80	(NA)

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

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			
Deaduat		Number of companies	Product sl	nipments ¹	Number of companies	Product s	hipments ¹
Product code	Product	with shipments of \$100,000 or more	Quantity ²	Value (million dollars)	with shipments of \$100,000 or more	Quantity ²	Value (million dollars)
2091- —	CANNED AND CURED FISH AND SEAFOODS						
	Total	(NA)	(X)	1 138.7	(NA)	(X)	862.2
20910	Canned and cured fish and other seafoods, including soup (except frozen seafoods and soup) ³	(NA)	(X)	1 138.7	(NA)	(X)	862.2
20910 12	Canned fish and other seafood (except soups, stews, and chowders): Tunamil lb	4	73.5	163.9	1	(D)	(D)
20910 13 20910 14	Salmonmil lb Sardinesmil lb	15 6	163.2 (D)	352.3 (D)	18 7	96.1 _(D)	207.8 (D)
20910 15 20910 16	Clamsmil lb Shrimpmil lb	9 4	*73.6 13.1	87.6 30.7	9 6	79.4 10.9	80.4 21.4
20910 19	Other canned fish and other seafood (including gefilte fish, fish roe, fishcakes, surimi-based products, etc.)	24	(X)	70.6	18	(X)	62.1
20910 31	Canned seafood soups, stews, and chowders (clam chowder, oyster stew, turtle soup, etc.)mil lb	13	301.9	148.9	14	221.4	124.5
20910 51	Cured seafood: Smoked salmonmil lb_	21	13.2	81.1	13	7.8	56.7
20910 71	Other smoked fish (herring, whitefish, chub, cisco,	18	(X)	60.8	13	(X)	54.4
20910 82 20910 89	Salted and pickled fish (including sun-dried) mil lb_ Other cured seafood, except fish Canned and cured fish and other seafoods, n.s.k.4	8 6	16.2 (X)	31.3 (D)	16 4	19.0 (X)	33.5 (D)
20910 00 20910 02	Canned and cured fish and other seafoods, n.s.k. ⁴	(NA) (NA)	(X) (X)	34.8 22.1	(NA) (NA)	(X) (X)	29.4 78.4
2092- —	FRESH OR FROZEN PREPARED FISH AND SEAFOODS						
	Total	(NA)	(X)	6 449.0	(NA)	(X)	5 103.7
20922 20922 13	Prepared fresh fish and other fresh seafood ³	(NA) 57	(X) *190.2	983.6 409.4	(NA) 51	(X) 176.7	790.0 383.7
20922 15 20922 17	Crab meat: Blue Rock	39 2	(X) (X)	52.7 (D)	- 44	(X)	56.5
20922 18 20922 19	SnowOther	2 9	(X) (X)	(D) 14.0		(X)	17.3
20922 23 20922 24	Shrimpmil lb Oysters	18 28	*21.9 (X)	87.1 74.9		18.6 (X)	73.4 63.6
20922 25 20922 26	Clamsmil lb Other prepared fresh shellfish (except surimi and	11	15.2	23.3	13	28.0	37.6
20922 27 20922 28	surimi-based products) mil lb_ Surimi mil lb_ Surimi-based products mil lb_	16 3 4	20.4 19.9	49.8 28.9 (D)	14 2 3	20.4 (D) (D)	60.0 (D) (D)
20922 28 20922 31 20922 00	Other prepared fresh seafood (roe, squid, etc.) Prepared fresh fish and other fresh seafood, n.s.k.	31 (NA)	(D) (X) (X)	139.4 25.8	18 (NA)	(X) (X)	59.3 14.4
20923	Frozen fish ³	(NA)	(X)	2 732.4	(NA)	(X)	2 048.3
	Groundfish (cod, cusk, haddock, hake, perch, pollock, and whiting):	(,	()		(,	()	
20923 11	Fillets and steaks: Breaded or batteredmil lb	13	281.1	440.0	19	207.7	370.2
20923 13	Plainmil lb Sticks and portions:	26	71.5	146.7	20	29.6	61.3
20923 15 20923 17 20923 19	Breaded or battered	15 6 29	395.5 14.0 61.5	579.3 23.9 89.1	13 6 15	375.7 18.5 34.1	505.9 35.9 49.2
20923 19	Flounder, halibut, sole: Fillets and steaksmil lb	19	18.2	50.7	(NA)		
20923 23	Othermil lb All other species:	30	50.9	104.4	(NA)	(6) (6)	(6) (6)
20923 26	Fillets and steaks: Breaded or batteredmil lb	12	27.4	75.8	(NA)	(6)	(⁶)
20923 27 20923 29 20923 00	Plain mil Ib. Other mil Ib. Frozen fish, n.s.k mil Ib.	36 62 (NA)	230.7 351.7 (X)	514.8 675.8 31.9	(NA) (NA) (NA)	^(b) ⁶ 461.1 (X)	(⁶) ⁶ 975.2 50.6
20925	Frozen shellfish ³	(NA)	(X)	1 549.8	(NA)	(X)	1 339.6
20925 21	Shrimp: Headless, rawmil lb	24	37.5	142.3	29	35.4	152.6
20925 22 20925 23	Peeled, rawmil lb Peeled, cookedmil lb	22 24	37.9 *32.3	145.0 146.3	31 31	44.2 35.9	187.5 174.2
20925 24 20925 25 20925 26	Breadedmil lb_ Other 100 percent shrimp products Lobster tails	24 7 3	112.7 (X) (X)	414.6 18.3	24 10	101.6 (X) (X)	385.8 56.4 20.4
20925 27	Crabs: Blue meat	13	(X)	(⁷) 22.1	, <u>'</u>		
20925 28 20925 29	Rock meatSnow meat	(NA) 6	(X) (X) (X)	61.3	14 (NA)	(X) (X)	26.5 (8)
20925 30	Dungeness meat King:	10		13.9	12	(X)	12.4
20925 33 20925 34	Cooked meatmil lb Sectionsmil lb	6 12	3.6 18.0	18.0 77.0	5 10	(S) 12.7	15.2 50.5
20925 35 20925 36	Other crabs and parts of crabs not listed abovemil lb Other frozen shellfish (including oysters, clams, and parts of lobsters not listed above)	17 23	91.5 (NA)	244.2 ⁷ 216.8	14 28	42.3	⁸ 116.3 123.1
20925 00	Frozen shellfish, n.s.k.	(NA)	(NA)	30.1	(NA)	(X) (X)	18.5

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]

Omprients	Simplifients in appendixes. For meaning or appreviations and symbols, see introduc-		1992		1987			
		Number of	Product shi	ipments ¹	Number of	Product sh	nipments ¹	
Product code	Product	companies with shipments			companies with shipments			
		of \$100,000 or more	Quantity ²	Value (million dollars)	of \$100,000 or more	Quantity ²	Value (million dollars)	
2092- —	FRESH OR FROZEN PREPARED FISH AND SEAFOODS—Con.	of more	Quantity	dollars)	of more	Quantity	dollars)	
20926	Other frozen seafoods ³	(NA)	(X)	596.9	(NA)	(X)	196.5	
20926 11 20926 13 20926 98	Surimimil lb_ Surimi-based products mil lb_ Other frozen seafoods (soups, stews, chowders,	11 7	161.3 71.7	177.2 121.2	3 4	18.2 9.9	25.1 18.9	
20926 00	dinners, pies, fishcakes, crabcakes, shrimpcakes, etc.), except surimimil lb Other frozen seafoods, n.s.k	30 (NA)	109.2	236.4 62.0	32 (NA)	85.6	152.5	
20920	Fresh or frozen prepared fish and other seafood, n.s.k.	(NA)	(X) (X)	586.3	(NA)	(X) (X)	729.3	
20920 00 20920 02	Fresh or frozen prepared fish and other seafood, n.s.k.9 Fresh or frozen prepared fish and other seafood,	(NA)	(X)	525.9	(NA)	(X)	590.9	
	n.s.k. ¹⁰	(NA)	(X)	60.4	(NA)	(X)	138.5	
2095- —	ROASTED COFFEE							
	Total	(NA)	(X)	4 701.5	(NA)	(X)	5 466.6	
20951 20951 11 20951 15	Roasted coffeemil lb_ Whole beanmil lb_ Ground (including extended yield)mil lb_	(NA) 45 61	(X) *208.1 1 447.0	3 763.4 470.4 3 270.3	(NA) 39 65	(X) 184.0 1 632.0	4 312.9 417.3 3 863.0	
20951 15 20951 21 20951 00	Ground (including extended yield)	(NA)	6.5 (X)	13.9 8.8	6 (NA)	1 632.0 10.7 (X)	22.4 10.2	
20952 20952 00	Concentrated coffeeCoffee, concentrated (freeze-dried, spray-dried, frozen	(NA)	(X)	819.7	(NA)	(X)	1 052.1	
20950	or liquid concentrated or extracts, mixtures, etc.)mil lb	22 (NA)	*118.0	819.7 118.5	(NA) (NA)	142.1	1 052.1 101.6	
20950 20950 00 20950 02	Roasted coffee, n.s.k. Roasted coffee, n.s.k. ¹¹ Roasted coffee, n.s.k. ¹²	(NA) (NA) (NA)	(X) (X) (X)	99.3 19.1	(NA) (NA) (NA)	(X) (X) (X)	53.4 48.3	
2096- —	POTATO CHIPS AND SIMILAR PRODUCTS							
20064	Total	(NA)	(X)	7 543.0	(NA)	(X)	5 005.8	
20961 20961 00	Potato chips and sticks, plain and flavoredmil lb	(NA) 70	1 542.9	3 263.2 3 263.2	(NA) 86	1 259.8	2 401.0 2 401.0	
20962 20962 21 20962 29	Corn chips and related products mil lb_	(NA) 90 48	1 243.5 382.9	3 024.1 2 293.3 729.3	(NA) 61 38	(X) *859.7 *177.7	1 864.1 1 615.5 248.7	
20962 00 20963	Curls and related productsmil lb_ Corn chips and related products, n.s.k	(NA) (NA)	(X) (X)	1.5	(NA) (NA)	(X) (X)	559.1	
20963 00	Other chips, sticks, etc. (bacon rinds, popcorn except candied, etc.), excluding crackers, pretzels, and nutsmil lb	75	486.3	1 071.0	57	319.1	559.1	
20960 20960 00	Potato chips and similar products, n.s.k. Potato chips and similar products, n.s.k.9 Potato chips and similar products, n.s.k.10	(NA) (NA)	(X) (X) (X)	184.7 130.4	(NA) (NA)	(X) (X)	181.5 100.8	
20960 02	Potato chips and similar products, n.s.k. ¹⁰	(NA)	(X)	54.3	(NA)	(X)	80.7	
2097- —	MANUFACTURED ICE							
	Total	(NA)	(X)	345.2	(NA)	(X)	282.7	
20970 20970 11	Manufactured ice Can or block ice1,000 s tons	(NA) 48	(X) (S)	345.2 50.0	(NA) 54	(X) (S)	282.7 29.3	
20970 51	Cubed, crushed, or other processed ice1,000 s	154		188.9	152	(S)	168.4	
20970 00 20970 02	Manufactured ice, n.s.k. ⁴ Manufactured ice, n.s.k. ⁵	(NA) (NA)	(S) (X) (X)	71.6 34.6	(NA) (NA)	(X) (X)	55.5 29.5	
2098- —	MACARONI AND SPAGHETTI							
20000	Total	(NA)	(X)	1 279.9	(NA)	(X)	974.4	
20980	Macaroni, spaghetti, and egg noodle products except canned and frozen, not packaged with other ingredientsMacaroni, spaghetti, vermicilli, and other pasta	(NA)	(X)	1 279.9	(NA)	(X)	974.4	
20980 01 20980 03	products, except noodles: Dry (water content less than 14 percent)mil lb Refrigeratedmil lb	34 5	2 027.5 (D)	996.4 (D)	- 38	1 558.0	758.1	
	Noodle products of all shapes, sizes, and types, except chinese noodles:			. ,				
20980 04 20980 05	Dry (water content less than 14 percent)mil lb Wet (water content 14 percent or more), except refrigeratedmil lb	15	**260.3 (D)	165.7 T	- 22	275.9	144.7	
20980 06 20980 00	Refrigerated mill lb. Macaroni and spaghetti, n.s.k. ⁴ Macaroni and spaghetti, n.s.k. ⁵	2 (NA)	(D) (X) (X)	(D) (D) 42.9	(NA)	(X) (X)	11.3	
20980 02	ı ıvıacaronı and spagnetti, n.s.k. ³	(NA)	(X)	38.3	(NA)	(X)	60.3	

See footnotes at end of table.

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					
		Number of	Product s	hipments ¹	Number of	Product s	hipments ¹
Product code	Product	companies with shipments of \$100,000 or more	Quantity ²	Value (million dollars)	companies with shipments of \$100,000 or more	Quantity ²	Value (million dollars)
2099- —	FOOD PREPARATIONS, N.E.C.						
	Total	(NA)	(X)	14 183.0	(NA)	(X)	10 670.7
20991	Desserts (ready-to-mix)	(NA)	(X)	707.8	(NA)	(X)	664.0
20991 13 20991 15	Cornstarch base: Consumer sizes (less than 1 lb)mil lb Commercial sizes (1 lb or more)mil lb Gelatin base:	8 5	226.4 28.3	204.9 28.3	8 10	*194.0 21.6	251.2 17.6
20991 53 20991 55	Consumer sizes (less than 1 lb)mil lb Commercial sizes (1 lb or more)mil lb	11 10	264.4 *6.3	324.0 7.0	12 10	*260.6 *12.6	258.4 15.5
20991 59 20991 00	Other basemil lb_ Desserts (ready-to-mix), n.s.k	6 (NA)	*36.4 (X)	43.2 100.4	(NA)	*38.0 (X)	40.8 80.5
20993 20993 25	Sweetening syrups and molassesmil lb_	(NA) 47	(X) *871.3	607.5 527.8	(NA) 49	(X) 611.9	399.3 338.6
20993 27 20993 00	Not containing corn syrupmil lb_ Sweetening syrups and molasses, n.s.kmil not more syrups.	16 (NA)	118.5 (X)	57.8 21.9	20 (NA)	*72.4 (X)	39.2 21.5
20994 20994 13	Baking powder and yeast mil lb_ Baking powder mil lb_ Compressed yeastmil lb_ Active dry yeast mil lb (dry	(NA) 6	(X) 41.8	316.0 60.8	(NA) 8	(X) (S)	339.3 71.4
20994 23 20994 34	Compressed yeastmil lb_ Active dry yeastmil lb_ddry	5	431.8	165.4	5	593.6	205.8
20994 55	basis) Other yeast products (brewers', primary grown yeast, including torule, extracts, and other yeast products)mil lb (dry	4	(D)	(D)	(NA)	(S)	55.6
20994 00	basis) Baking powder and yeast, n.s.k	10 (NA)	129.7 (X)	29.9 (D)	(NA)	(X)	6.5
20996 20996 11	Vinegar and cidermil gal_	(NA) 10	(X) 23.2	228.5 48.5	(NA)	(X) 14.2	164.7 26.3
20996 51 20996 57 20996 00	Vinegar, fermented (basis equivalent to 40 grain)mil gal Vinegar, distilled (basis equivalent to 100 grain)mil gal Vinegar and cider, n.s.k.	12 21 (NA)	53.5 156.4 (X)	41.5 126.1 12.4	11 26 (NA)	33.4 153.6 (X)	24.7 100.8 12.9
20999	Perishable prepared foods sold in bulk or packages, not frozen or canned	(NA)	(X)	2 361.6	(NA)	(X)	1 347.3
20999 21 20999 31	SaladsSandwiches, made from bread	72 40	(X) (X)	515.7 257.5	70 40	(X) (X)	359.1 102.4
20999 35 20999 43 20999 45	Vegetables and potatoes, peeled or cut for the trade Tortillas Tamales and other Mexican food specialties	20 105 45	(X) (X) (X) (X) (X)	120.1 639.3 249.5	21 119	(X) (X)	78.1 505.1
20999 53 20999 55	Prepared meals, including meat and poultry piesmil lb_	20 24	*37.2	95.4 70.6	11 15	(X) (S)	94.4 38.0
20999 58 20999 59	Pizzamil lb_ Other perishable prepared foods	19 64	38.9 (X)	110.9 222.0	57	(X)	141.4
20999 00	Perishable prepared foods sold in bulk or packages, not frozen or canned, n.s.k.	(NA)	(X)	80.7	(NA)	(X)	28.8
2099A	Macaroni and noodle products packaged with other ingredients, not canned or frozen	(NA)	(X)	1 122.3	(NA)	(X)	536.1
2099A 01 2099A 02	Dry, less than 14 percent moisturemil lb_ Wet, 14 percent or more moisture, except	23	470.9	611.5	18	(S)	406.4
2099A 03	refrigeratedmil lb_ Refrigeratedmil lb_ Noodle products of all shapes, sizes, and types; except chinese noodles:	4 19	(D) *74.8	(D) 69.1		(3)	400.4
2099A 04 2099A 05	Dry, less than 14 percent moisturemil lb_	12	*142.9	161.8	12	05.9	120.7
2099A 06 2099A 00	refrigeratedmil lb Refrigeratedmil lb Macaroni and noodle products packaged with other	2 5	(D) (S)	(D) 12.6	13	95.8	129.7
2099B	ingredients, not canned or frozen, n.s.k Dry mix preparations, except macaroni and noodles	(NA) (NA)	(X)	16.2 2 198.8	(NA) (NA)	(X) (X)	1 721.7
2099B 01 2099B 03	Dip mixes mil lb_ Salad dressing mixes mil lb_	6 8	(X) (S) (D)	16.4 (D)	6 8	(S) (D)	14.1 (D)
2099B 05 2099B 07	Gravy and sauce mixesmil lb_ Seasoning mixesmil lb_	29 58	161.2 *717.6	306.6 692.8	24 42	135.8 *664.4	194.1 550.1
2099B 09 2099B 11	Frosting mixesmil lb_ Dried and dehydrated potatoes, packaged with other ingredientsmil lb_	6	(D) 102.5	(D) 127.4	12	217.1 (D)	202.8
2099B 13 2099B 19	Head rice packaged with other ingredientsmil lb Other dry preparations, including bouillon, etc., but	15	464.1	395.6	11	26 2 .8	(D) 225.4
2099B 00	excluding imitation dairy mixes mil lb Dry mix preparations, except macaroni and noodles, n.s.k	34 (NA)	*246.1 (X)	269.7	35 (NA)	*201.0 (X)	215.4 35.3
2099D	Tea in consumer packages	(NA)	(X)	1 106.1	(NA)	(X)	936.3
2099D 82 2099D 83	Packed in tea bags	31	150.7 175.4	732.1	32	124.1 178.1	569.1 348.6
2099D 86 2099D 00	Other mil lb_ Tea in consumer packages, n.s.k.	11 (NA)	*13.2 (X)	21.6 3.7	5 (NA)	8.8 (X)	16.4 2.2
2099E	SpicesPepper, white and black:	(NA)	(X)	1 122.3	(NA)	(X)	888.8
2099E 31 2099E 33	Consumer sizes (less than 1 lb)	15 20	117.2 **35.9	156.1 71.6	19 18	(S) 24.7	143.8 68.5
2099E 38 2099E 39 2099E 00	Consumer sizes (less than 1 lb)mil lb Commercial sizes (1 lb or more)mil lb Spices, n.s.k	29 43 (NA)	*224.9 *184.3 (X)	528.5 354.2 11.9	29 37 (NA)	163.6 *166.5 (X)	419.3 246.7 10.5

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]

	Product		1992		1987			
5		Number of	Product s	hipments ¹	Number of	Product shipments ¹		
Product code		companies with shipments of \$100,000 or more	Quantity ²	Value (million dollars)		Quantity ²	Value (million dollars)	
2099- —	FOOD PREPARATIONS, N.E.C.—Con.							
2099F 2099F 44 2099F 46 2099F 00	Peanut butter	(NA) 25 17 (NA)	(X) 838.2 116.6 (X)	1 269.7 1 160.5 104.6 4.6	(NA) 24 22 (NA)	(X) 533.9 128.0 (X)	847.7 719.2 127.0 1.4	
2099G 2099G 11 2099G 25 2099G 41 2099G 51 2099G 85 2099G 91 2099G 98 2099G 00	Other food preparations, n.e.c. Coconut, sweetened, creamed, and toasted mill lb. Blended honey, including churned mill lb. Chinese noodles, except canned and frozen mill lb. Pectin (100 grade, dry basis) mill b. Unpopped popcorn, in consumer packages mill lb. Cracker sandwiches, made from purchased crackers mill lb. Food preparations not elsewhere classified Other food preparations, n.e.c., n.s.k.	(NA) 7 21 36 5 15 3 3 65 (NA)	(X) 31.5 **159.4 **144.5 7.5 *1 934.6 (D) (X) (X)	1 661.3 42.6 148.3 102.0 22.9 679.5 (D) 640.0	(NA) 6 12 32 5 16 3 3 81 (NA)	(X) (D) **89.9 **137.0 (D) 1 048.7 (D) (X) (X)	1 300.4 (D) 79.4 75.8 (D) 401.0 (D) 644.1 10.4	
20990 20990 00 20990 02	Food preparations, n.e.c., n.s.k. Food preparations, n.e.c., n.s.k. ⁴ Food preparations, n.e.c., n.s.k. ⁵	(NA) (NA) (NA)	(X) (X) (X)	1 480.8 1 273.7 207.1	(NA) (NA) (NA)	(X) (X) (X)	1 525.2 1 157.9 367.3	

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

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

Product class and geographic area	1992 value of product shipments	1987 value of product shipments	Product class and geographic area	1992 value of product shipments	1987 value of product shipments
20922, PREPARED FRESH FISH AND OTHER			20925, FROZEN SHELLFISH		
FRESH SEAFOOD			United States	1 549.8	1 339.6
United States	983.6	790.0	Alabama	73.0	79.9
			Alaska	238.2	99.3
Alabama	29.0	25.2	California	142.9	118.3
Alaska	114.3	31.2	Florida	359.9	394.0
California	109.0	101.8	Louisiana	73.0	39.0
Florida	37.3	36.1	A displaying t	37.5	404.5
Georgia	3.5	(NA)	Mississippi	37.5	101.5 38.6
			Oregon	73.5	
Louisiana	34.6	16.6	Texas	37.1	(NA) 31.4
Maryland	16.7	18.1	Virginia		
Massachusetts	87.7	111.0	Washington	212.1	(NA)
Mississippi	133.8	100.3			
North Carolina	28.8	20.7	20926, OTHER FROZEN SEAFOODS		
Oregon	59.3	99.5	-		
Texas	17.5	(NA)	United States	596.9	196.5
Virginia	37.1	48.5			
Washington	81.4	69.7	Alaska	148.5	20.9
Washington	01.4	09.7	California	69.2	61.7
			Florida	16.6	(NA)
20923, FROZEN FISH			Washington	224.6	(NA)
20923, FROZEN FISH					
United States	2 732.4	2 048.3	20951, ROASTED COFFEE		
			United States	3 763.4	4 312.9
Alaska	604.4	413.3			
California	53.4	89.5	California	612.5	738.7
Florida	5.3	5.5	Illinois	112.3	138.0
Massachusetts	605.4	538.7	Louisiana	566.5	539.4
Mississippi	164.3	161.3	Maryland	55.6	(NA)
Oregon	7.0	25.3	Massachusetts	70.3	64.6
Pennsylvania	299.1			236.5	631.2
Washington	658.3	253.0	New York	139.7	210.4
3		200.0			2.0

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).
³Data for this product class represent value of production rather than value of shipments.
⁴Typically for establishments with 5 employees or more.
⁵Typically for establishments with less than 5 employees.
⁶For 1987, data were not collected seperately but were included in product code 20923 29.
₹For 1992, data for product code 20925 26 are included with product code 20925 36.
⁵Typically for establishments with 10 employees or more.
¹Typically for establishments with 10 employees or more.
¹Typically for establishments with 15 employees.
¹¹Typically for establishments with 15 employees or more.
¹²Typically for establishments with less than 15 employees.

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]

marriadar companico in 1002. Tor meaning or abbreviati		, ,			
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
20951, ROASTED COFFEE—Con.			20999, PERISHABLE PREPARED FOODS		
Ohio	61.9	(NA) 483.2	SOLD IN BULK OR PACKAGES, NOT FROZEN OR CANNED		
Texas	548.5	403.2	United States	2 361.6	1 347.3
20952, CONCENTRATED COFFEE			Arizona	36.7	18.3
United States	819.7	1 052.1	California	663.7 34.3	320.4 26.2
California	111.8	(NA)	Florida	12.9 15.5	14.2 22.2
			Hawaii	13.0	16.2
20961, POTATO CHIPS AND STICKS, PLAIN AND FLAVORED			IllinoisIndiana	171.0 45.5	85.1 18.1
United States	3 263.2	2 401.0	Kansas Louisiana	46.9 17.8	23.8 (NA)
Colorado	48.0	31.5	Maryland	18.2	(NA)
Florida	92.7	91.8	Massachusetts	20.8 30.1	15.0 18.5
IndianaKentucky	233.5 65.1	143.6 49.3	Minnesota	15.5	13.1
Massachusetts	20.6	36.1	Nebraska	11.5	8.7
MichiganNorth Carolina	74.9 203.8	66.4 183.1	New Jersey	66.2	49.3
Ohio	146.8	106.9	New Mexico	14.3	6.1
Pennsylvania	465.2	353.5	New York North Carolina	141.0 63.8	108.2 25.6
20962, CORN CHIPS AND RELATED			Ohio	98.2	57.3
PRODUCTS			OklahomaOregon	14.9 27.0	(NA) 4.4
United States	3 024.1	1 864.1	Pennsylvania	41.9	40.7
			Tennessee	36.7 194.3	60.1 152.4
ArizonaArkansas	67.1 30.7	(NA) (NA)	Utah	15.4	17.6
California	438.3	181.8	Virginia	111.9 52.9	(NA) 11.7
Colorado	44.9 23.2	29.0 29.4	Washington	93.6	74.6
Kentucky	68.2 61.9	(NA) 20.3	2099A, MACARONI AND NOODLE PRODUCTS PACKAGED WITH OTHER INGREDIENTS,		
Ohio	128.5	91.7	NOT CANNED OR FROZEN		
PennsylvaniaTennessee	215.9 86.7	107.0 (NA)			
Texas	402.1	292.7	United States	1 122.3	536.1
			California	50.3 2.7	(NA) (NA)
20963, OTHER CHIPS, STICKS, ETC.			Michigan	7.3	(NA)
United States	1 071.0	559.1	New York Washington	19.8 13.9	(NA) (NA)
California	93.1	100.6			, ,
FloridaGeorgia	14.7	7.2	2099B, DRY MIX PREPARATIONS, EXCEPT MACARONI AND NOODLES		
Illinois	111.2 160.1	(NA) 39.0	MACARONI AND NOODLES		
Massachusetts	15.2	(NA)	United States	2 198.8	1 721.7
Minnesota	8.1 75.5	(NA) 29.9	O-life i-	000.0	(314)
Pennsylvania	84.6	53.7	California Colorado	222.9 13.5	(NA) (NA)
			Florida	30.8	(NA)
20991, DESSERTS (READY-TO-MIX)			Georgia	140.1 535.1	(NA) (NA)
United States	707.8	664.0	Indiana	11.6	(NA)
Miles de	40.4	40.4	Massachusetts	30.4	(NA)
Illinois	13.1	19.4	Nevada	8.7 36.8	(NA) (NA)
			Ohio	130.1	(NA)
20993, SWEETENING SYRUPS AND MOLASSES			Texas	186.9 102.9	(NA) (NA)
United States	607.5	399.3			
California	19.1	32.6	2099D, TEA IN CONSUMER PACKAGES		
Florida	6.1	(NA)	United States	1 106.1	936.3
IllinoisNew York	283.0 23.2	142.4 8.9	New Jersey	71.7	55.3
Ohio	21.9	14.4	New York	146.9	100.3
PennsylvaniaTexas	83.2 5.6	(NA) (NA)	Texas	11.6	(NA)
1 exas	5.6	(NA)	2099E, SPICES		
20994, BAKING POWDER AND YEAST			United States	1 122.3	888.8
United States	316.0	339.3			
			California	204.1 19.2	155.8 30.9
California	40.1	58.6	Illinois	93.2	53.7
2000C VINECAR AND CIDER			Nevada Wisconsin	15.6 32.7	(NA) 34.4
20996, VINEGAR AND CIDER					
United States	228.5	164.7	2099F, PEANUT BUTTER		
California Michigan	32.7 41.7	25.2 13.1	United States	1 269.7	847.7

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
2099G, OTHER FOOD PREPARATIONS, N.E.C.			2099G, OTHER FOOD PREPARATIONS, N.E.C.		
United States	1 661.3	1 300.4	Massachusetts	52.9 39.9	(NA) (NA)
California	95.6	155.0	Nebraska	16.7	23.5
Georgia	42.7	(NA)	New Jersey	12.4	28.4
Hawaii	5.8	5.8	New York	14.1	93.3
Illinois	104.7	96.0	Ohio	60.9	23.0
lowa	257.2			105.6	64.8
Kansas	66.1	11.9	Washington	55.1	12.8

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]

[Willion ac	bliars. For meaning of appreviations and symbols, see introductory text								
Product code	Product class	1992	1991 ¹	1990 ¹	1989 ¹	1988 ¹	1987	1982	1977
2091- 20910	Canned and cured fish and seafoods	1 138.7	1 107.4	1 065.1	937.0	1 012.6	862.2	1 267.1	1 025.5
20910	frozen seafoods and soup)	1 138.7	1 107.4	1 065.1	937.0	1 012.6	862.2	1 267.1	1 025.5
2092- 20922 20923 20925 20926 20920	Fresh or frozen prepared fish and seafoods Prepared fresh fish and other fresh seafood Frozen fish Frozen shellfish Other frozen seafoods Fresh or frozen prepared fish and other seafood, n.s.k.	6 449.0 983.6 2 732.4 1 549.8 596.9 586.3	5 735.3 988.9 2 288.4 1 529.6 570.0 358.4	5 662.9 1 010.7 2 278.8 1 583.6 365.0 424.8	5 038.6 750.5 2 034.7 1 237.9 397.0 618.5	5 270.1 861.0 2 058.4 1 428.2 209.7 712.9	5 103.7 790.0 2 048.3 1 339.6 196.5 729.3	3 714.0 578.3 1 033.9 1 304.2 93.3 704.3	2 459.2 460.5 744.4 (NA) (NA) 366.8
2095- 20951 20952 20950	Roasted coffee Roasted coffee Concentrated coffee Roasted coffee, n.s.k.	4 701.5 3 763.4 819.7 118.5	4 825.4 3 714.1 920.4 190.9	5 557.6 4 412.3 958.7 186.6	5 256.0 4 276.8 839.7 139.5	5 430.8 4 355.0 975.1 100.8	5 466.6 4 312.9 1 052.1 101.6	5 122.7 3 773.3 1 250.2 99.1	5 217.8 3 674.5 1 387.8 155.5
2096- 20961 20962 20963 20960	Potato chips and similar products Potato chips and sticks, plain and flavored Corn chips and related products Other chips, sticks, etc. Potato chips and similar products, n.s.k.	7 543.0 3 263.2 3 024.1 1 071.0 184.7	6 727.1 2 874.6 2 986.1 716.8 149.7	6 152.8 2 671.8 2 618.6 711.9 150.4	5 742.9 2 584.1 2 353.9 608.9 196.1	5 342.8 2 575.7 1 981.2 582.2 203.7	5 005.8 2 401.0 1 864.1 559.1 181.5	3 321.7 1 545.4 1 087.1 598.0 91.3	1 797.4 962.2 655.2 147.0 33.0
2097- 20970	Manufactured ice	345.2 345.2	315.9 315.9	321.6 321.6	344.5 344.5	272.5 272.5	282.7 282.7	227.4 227.4	140.6 140.6
2098- 20980	Macaroni and spaghetti Macaroni, spaghetti, and egg noodle products except canned and	1 279.9	1 221.8	1 211.2	1 121.2	1 067.9	974.4	1 192.8	751.7
20980	frozen, not packaged with other ingredients	1 279.9	1 221.8	1 211.2	1 121.2	1 067.9	974.4	1 192.8	751.7
2099- 20991 20993 20994 20996 20999	Food preparations, n.e.c. Desserts (ready-to-mix) Sweetening syrups and molasses Baking powder and yeast Vinegar and cider Perishable prepared foods sold in bulk or packages, not frozen or	14 183.0 707.8 607.5 316.0 228.5	12 349.6 727.7 558.3 332.0 410.3	11 959.5 710.4 564.4 322.5 435.7	10 965.1 546.9 502.5 288.8 368.4	10 909.4 760.5 402.5 325.6 188.1	10 670.7 664.0 399.3 339.3 164.7	8 159.7 401.6 360.9 273.2 187.8	(NA) 412.9 296.8 170.2 122.8
2099A	cannedMacaroni and noodle products packaged with other ingredients,	2 361.6	2 190.1	2 105.1	1 788.3	1 355.9	1 347.3	769.1	515.5
2099B 2099D 2099E 2099F 2099G 20990	not canned or frozen Dry mix preparations, except macaroni and noodles Tea in consumer packages Spices Peanut butter Other food preparations, n.e.c. Food preparations, n.e.c. n.s.k.	1 122.3 2 198.8 1 106.1 1 122.3 1 269.7 1 661.3 1 480.8	940.9 1 159.9 1 018.3 1 668.2 708.3	2 415.8 948.1 1 070.1 933.6 1 639.1 814.7	2 068.0 932.5 982.3 915.8 1 216.0 1 355.4	2 349.6 961.1 896.3 905.1 1 118.4 1 646.3	536.1 1 721.7 936.3 888.8 847.7 1 300.4 1 525.2	747.6 585.9 796.7 1 220.6 1 603.0	(NA) (NA) (NA) 450.3 429.7 (NA) (NA)

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

Table 7. Materials Consumed by Kind: 1992 and 1987

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

		19	92	1987		
Material code	Material	Quantity ¹	Delivered cost (million dollars)	Quantity ¹	Delivered cost (million dollars)	
	INDUSTRY 2091, CANNED AND CURED FISH AND SEAFOODS					
	Materials, ingredients, containers, and supplies	(X)	556.1	(X)	449.9	
091210 091212 091213 091214 091215 091216 091217	Fin fish: Alaska pollock	(D) *119.1 *31.4 8.4 (X) (X)	(D) 156.0 5.2 4.9 (D) 43.5	(NA) (NA) 100.9 (NA) (NA) (X) (X)	(2) (2) 120.1 (2) (2) (2) 2108.9	
091312 091313 091314 091315 091316 209221 209231 207006	Shellfish: Shrimp	(X) (X) (X) (X) (X) 3.4 (S)	(D) .1 (D) 45.4 (D) - 23.3 7.5	(X) (X) (X) (X) (X) (NA) (NA) 20.7	15.7 (3) (3) 34.4 38.0 (4) (4) 6.0	
265001 267101 341101 970099 971000	Containers: Paperboard containers, boxes, and corrugated paperboard Packaging paper and plastics film, coated and laminated Metal cans, can lids and ends All other materials and components, parts, containers, and supplies Materials, ingredients, containers, and supplies, n.s.k.5	838	9.5 3.0 54.4 60.1 50.1	(X) (X) (X) (X)	(4) (4) (4) 473.8 83.0	
	INDUSTRY 2092, FRESH OR FROZEN PREPARED FISH Materials, ingredients, containers, and supplies	(X)	4 165.0	(X)	'3 642.0	
091210 091212 091213 091214 091215 091216 091217	Fin fish: Alaska pollock	79.0 *3.5 241.2 (D) 223.5 (X) (X)	71.7 13.3 623.9 (D) 280.6 28.2 377.4	44.5 2.4 161.9 (NA) 173.3 (X) (X)	32.8 8.7 348.0 (6) 276.0 27.1 6309.3	
091312 091313 091314 091315 091316 209221 209231 207006	Shellfish: Shrimp	(X) (X) (X) (X) (X) 35.1 241.6 (D)	569.0 280.1 34.7 32.1 131.5 105.8 570.8	(X) (X) (X) (X) (12.9) 205.4 76.2	763.3 191.8 50.0 45.8 120.9 27.8 514.7 20.8	
265001 267101 341101 970099 971000	Containers: Paperboard containers, boxes, and corrugated paperboard. Packaging paper and plastics film, coated and laminated. Metal cans, can lids and ends. All other materials and components, parts, containers, and supplies. Materials, ingredients, containers, and supplies, n.s.k.5	838	91.3 31.0 26.6 352.7 503.1	(X) (X) (X) (X)	(7) (7) (7) 7362.8 7542.2	
	INDUSTRY 2095, ROASTED COFFEE					
	Materials, ingredients, containers, and supplies	(X)	2 319.1	(X)	3 347.4	
017921 267101 267301 265001 308941 322101 341101 970099	Green coffee	**17 261.7 (X)	1 698.4 47.6 56.6 60.3 38.5 29.4 166.2 165.3 56.9	21 443.0 (X) (X) (X) (X) (X) (X) (X) (X)	2 641.8 (8) (8) 65.8 (8) 56.1 (8) 8497.6	

See footnotes at end of table.

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

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

		19	92	1987		
Material code	Material	Quantity ¹	Delivered cost (million dollars)	Quantity ¹	Delivered cost (million dollars)	
	INDUSTRY 2096, POTATO CHIPS AND SIMILAR SNACKS					
	Materials, ingredients, containers, and supplies	(X)	3 144.6	(X)	^r 1 495.9	
013923 190041 011503 013411 016191 203417 011991 204130	Shelled peanuts	29.3 (D) 529.6 4 366.0 (D) 135.1 (D)	10.0 (D) 85.9 658.5 - (D) 17.6 (D)	(NA) (NA) 2 313.9 (NA) (NA) (NA) (NA)	(9) 51.1 338.7 (9) (9) (9) (9)	
204136 204110 013901 204602 206011	Corn flour 1,000 cwt. Wheat flour 1,000 cwt. Spices, raw mil lb. Corn syrup mil lb. Sugar, cane and beet (in terms of sugar solids) 1,000 s tons.	744.2 *712.8 *14.3 (D) 3.0	128.7 10.3 12.9 (D) 1.7	(NA) (S) (NA) (NA) (NA)	(⁹) 3.4 (⁹) (⁹)	
207006 265001 267101 267301 267401 322101 341101 970099	Fats and oils, all types (purchased as such)	958.6 (X) (X) (X) (X) (X)	279.0 173.8 370.3 54.7 (D) .2 28.4	819.9 (X) (X) (X) (X) (X)	200.2 131.8 (9) (9) (9) (9)	
971000	supplies	(X) (X)	840.2 111.4	(X) (X)	⁹ 651.6 r119.1	
	INDUSTRY 2097, MANUFACTURED ICE					
	(Material data were not collected for this industry.)					
	INDUSTRY 2098, MACARONI AND SPAGHETTI					
	Materials, ingredients, containers, and supplies	(X)	506.4	(X)	388.1	
204115 204119 267101 267301 322101 265001 970099	Wheat flour: Semolina and durum flour	18 205.2 **458.1 (X) (X) (X) (X) (X) (X)	257.9 5.2 31.4 2.6 (11) 75.9 11104.7 28.8	*15 310.0 1 619.8 (X) (X) (X) (X) (X) (X)	186.2 13.2 (10) (10) (10) 72.1 1057.9 58.7	
	INDUSTRY 2099, FOOD PREPARATIONS, N.E.C.					
	Materials, ingredients, containers, and supplies	(X)	5 809.5	(X)	4 268.2	
013923 190041 013411 016191 203417 011991 011503 204130	Shelled peanuts	635.6 (907) **180.2 **427.4 *89.9 476.9 (S)	449.4 (D) 29.9 137.6 84.0 76.3 24.0 63.8	477.8 (S) **164.3 (S) 80.1 (NA) (NA) (NA)	294.8 18.5 20.9 54.3 61.5 (12) (12) (12) (12)	
204136 204110	Corn flour 1,000 cwt Wheat flour 1,000 cwt	**149.3 *7 465.8	29.0 159.2	(NA) *6 593.5	84.8	
013901 017921 017931 204602 206011	Spices, raw	*386.5 (D) 133.2 201.5 394.0	414.3 (D) 119.7 22.6 204.4	(NA) (D) 135.7 (S) 339.8	(12) (D) 103.0 18.7 142.9	
206601 207006 265001 267101 267301	Chocolate (compounds, cocoa, chocolate liquor, coatings, chocolate flavoring, etc.) mil lb_Fats and oils, all types (purchased as such) mil lb_Paperboard containers, boxes, and corrugated paperboard Packaging paper and plastics film, coated and laminated	26.4 *203.8 (X) (X) (X)	18.1 98.9 281.3 147.3 50.0	(D) 157.5 (X) (X) (X)	(D) 53.2 238.4 (12) (12)	
267401 322101 341101 970099	Bags; uncoated paper and multiwall	(X) (X) (X)	14.8 72.9 33.1	(X) (X) (X)	(¹²) 92.6 34.0	
970099	All other materials and components, parts, containers, and supplies. Materials, ingredients, containers, and supplies, n.s.k.5	(X) (X)	2 287.2 966.2	(X) (X)	¹² 1 949.1 872.3	

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).

2For 1987, data for material codes 091210, 091212, 091214, 091215, and 091216 were included with material code 091217.

3For 1987, data for material codes 091313 and 091314 were included with material code 091316.

4For 1987, data for material codes 09221, 205301, 267101, and 341101 were included with material code 091099.

5Total cost of materials of establishments that did not report detailed materials data, including establishments that were not mailed a form.

6For 1987, data for material codes 091214 were included with material code 091217.

7For 1987, data for material codes 05001, 267101, and 341101 were included with material code 970099.

8For 1987, data for material codes 267010, 267301, 308941, and 341101 were included with material code 970099.

201–28 MISCELLANEOUS FOOD AND KINDRED PRODUCTS

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

⁹For 1987, data were included with Material Code 970099, All Other Materials and Components, Parts, Containers, and Supplies.
¹⁰For 1987, data were included with Material Code 970099, All Other Materials and Components, Parts, Containers, and Supplies.
¹¹For 1992, data for material code 322101 are included with material code 970099 to avoid disclosing data for individual companies.
¹²For 1987, data were included with Material Code 970099, All Other Materials and Components, Parts, Containers, and Supplies.

Appendix A. **Explanation of Terms**

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

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

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

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

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

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

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

All employees. This item includes all full-time and part-time employees on the payrolls of operating manufacturing establishments during any part of the pay period which included the 12th of the months specified on the report form. Included are all persons on paid sick leave,

paid holidays, and paid vacations during these pay periods. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded. The "all employees" number is the average number of production workers plus the number of other employees in mid-March. The number of production workers is the average for the payroll periods including the 12th of March, May, August, and November.

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

All other employees. This item covers nonproduction employees of the manufacturing establishment including those engaged in factory supervision above the line-supervisor level. It includes sales (including driver salespersons), sales delivery (highway truckdrivers and their helpers), advertising, credit, collection, installation and servicing of own products, clerical and routine office function, executive, purchasing, financing, legal, personnel (including cafeteria, medical, etc.), professional, and technical employees. Also included are employees on the payroll of the manufacturing establishment engaged in the construction of major additions or alterations to the plant and utilized as a separate work force.

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

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

Payroll. This item includes the gross earnings of all employees on the payrolls of operating manufacturing establishments paid in the calendar year 1992. Respondents were told they could follow the definition of payrolls used for calculating the Federal withholding tax. It includes all forms of compensation, such as salaries, wages, commissions, dismissal pay, bonuses, vacation and sick leave pay, and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of corporations; it excludes payments to proprietors or partners of unincorporated concerns. Also excluded are payments to members of Armed Forces and pensioners carried on the active payrolls of manufacturing establishments.

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

The ASM provides estimates of employers' supplemental labor costs, both those required by Federal and State laws and those incurred voluntarily or as part of collective bargaining agreements. (Supplemental labor costs are explained later in this appendix.)

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

Production-worker hours. This item covers hours worked or paid for at the plant, including actual overtime hours (not straight-time equivalent hours). It excludes hours paid for vacations, holidays, or sick leave.

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

The important components of this cost item are (1) all raw materials, semifinished goods, parts, containers, scrap, and supplies put into production or used as operating supplies and for repair and maintenance during the year, (2) electric energy purchased, (3) fuels consumed for heat, power, or the generation of electricity, (4) work done by

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

Specific materials consumed. In addition to the total cost of materials, which every establishment was required to report, information also was collected for most manufacturing industries on the consumption of major materials used in manufacturing. The inquiries were restricted to those materials which were important parts of the cost of production in a particular industry and for which cost information was available from manufacturers' records. Information on the establishments consuming less than a specified amount (usually \$25,000) of a specific material were not requested to report consumption of that material separately. Also, the cost of materials for the small establishments for which either administrative records or short forms were used was imputed as "not specified by kind." (See Census of Manufactures for the importance of administrative records in the industry.)

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

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

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

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

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

The list of products for which separate information was collected was prepared after consultation with industry and government representatives. Comparability with previous figures was given considerable weight in the selection of product categories so that comparable 1987 information is presented for most products.

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

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

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

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

Duplication in cost of materials and value of shipments. The aggregate of the cost of materials and value of shipments figures for industry groups and for all manufacturing industries includes large amounts of duplication since the products of some industries are used as materials by others. This duplication results, in part, from the addition of related industries representing successive stages in the production of a finished manufactured product. Examples are the addition of flour mills to bakeries in the food group and the addition of pulp mills to paper mills in the paper and allied products group of industries. Estimates of the overall extent of this duplication indicate that the value of manufactured products exclusive of such duplication (the value of finished manufactures) tends to approximate two-thirds of the total value of products reported in the annual survey.

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

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

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

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

For those industries where value of production is collected instead of value of shipments (see footnote in table 1a), value added is adjusted only for the change in work-in-process inventories between the beginning and end of year. For those industries where value of work done is collected, the value added does not include an adjustment for the change in finished goods or work-in-process inventories.

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

New and used capital expenditures. For establishments in operation and any known plants under construction, manufacturers were asked to report their new expenditures for (1) permanent additions and major alterations to

manufacturing establishments, and (2) machinery and equipment used for replacement and additions to plant capacity if they were of the type for which depreciation accounts were ordinarily maintained.

The totals for new expenditures include expenditures leased from nonmanufacturing concerns through capital leases. New facilities owned by the Federal Government but operated under contract by private companies, and plant and equipment furnished to the manufacturer by communities and nonprofit organizations are excluded. Also excluded are expenditures for used plant and equipment (although reported in the census), expenditures for land, and cost of maintenance and repairs charged as current operating expenses.

Manufacturers also were requested to report the value of all used buildings and equipment purchased during the year at the purchase price. For any equipment or structure transferred for the use of the reporting establishment by the parent company or one of its subsidiaries, the value at which it was transferred to the establishment was to be reported. Furthermore, if the establishment changed ownership during the year, the cost of the fixed assets (building and equipment) was to be reported under used capital expenditures.

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

End-of-year inventories. Respondents were asked to report their 1991 and 1992 end-of-year inventories at cost or market. Effective with the 1982 Economic Census, this change to a uniform instruction for reporting inventories was introduced for all sector reports. Prior to 1982, respondents were permitted to value inventories using any generally accepted accounting method (FIFO, LIFO, market, to name a few). In 1982, LIFO users were asked to first report inventory values prior to the LIFO adjustment and then to report the LIFO reserve and the LIFO value after adjustment for the reserve.

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 single-establishment companies mailed schedules in the 1987 Census of Manufactures. This mail portion is supplemented annually by a Social Security Administration list of new manufacturing establishments opened after 1987 and a list of new multiunit manufacturing establishments identified from the Census Bureau's Company Organization Survey.

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

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

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

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

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

The nonmail portion of the survey includes all 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 base-year differences, as defined in the Description of Estimating Procedure section, to produce the figures shown in this publication.

DESCRIPTION OF ESTIMATING PROCEDURES

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

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

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

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

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

QUALIFICATIONS OF THE DATA

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

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

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

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

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

- From one standard error below to one standard error above the derived estimate for about two-thirds of all possible samples.
- 2. From two standard errors below to two standard errors above the derived estimate for about 19 of 20 of all possible samples.
- 3. From three standard errors below to three standard errors above the derived estimate for nearly all samples.

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

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

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

As derived, the estimated standard errors included part of the effect of the operational errors. The total errors, which depend upon the joint effect of the sampling and operational errors, are usually of the order of size indicated by the standard error, or only moderately higher. However, for particular estimates, the total error may considerably exceed the standard errors shown.

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

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

Appendix C. **Product Code Reference Tables**

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

1992	1987	1992	1987	1992	1987	1992	1987
2011B 17 2011B 59 20137	2011B 99 2011B 99 20135	20382 11 20382 13 20382 15 20382 19	20382 23 20382 23 20382 23 20382 23	20450 21 20450 25 20450 25 20450 86	20450 67 20450 72 20450 74 20450 87	20630 09 20630 12 20630 35 20630 76	20630 07 20630 07 20630 89 20630 75
20137 20137 41 20137 41	20135 20135 13 20135 17	20382 21 20382 23 20382 37	20382 26 20382 26 20382 53	20450 88 20450 89 20450 92	20450 87 20450 87 20450 93 20450 93	20630 76 20630 91	20630 81 20630 89
2013B 17 2013B 18	2013B 19 2013B 19	20382 38 20382 39 20382 43 20382 45	20382 53 20382 53 20382 51 20382 51	20450 95 20461 18	20461 17	20752 97 20752 97 20791 83	20752 32 20752 98 20791 81
20223 01 20223 02	20223 00 20223 00	20382 47 20382 49 20382 49	20382 51 20382 51 20382 53	20461 18 20461 23 20461 25 20461 29	20462 49 20461 19 20461 31 20461 19	20791 85 20824 11	20791 81 20824 00
		20382 49 20382 49	20382 55 20382 57	20461 29 20461 29	20461 34 20461 37	20840 10	20840 00
20224 11 20224 13	20224 21 20224 21	20415 11	20415 51	20462 11	20462 41	20851 15 20851 15	20851 13 20851 19
20238 01 20238 03 20238 05	20238 11 20238 11 20238 11	20415 11 20415 13 20415 13 20415 15	20415 52 20415 53 20415 54 20415 56	20462 11 20462 13 20462 13	20462 47 20462 41 20462 47	20853 65 20853 65	20853 63 20853 81
20238 07 20238 19	20238 11 20238 11 20238 11	20415 15 20415 17	20415 57 20415 60	20462 15 20462 15	20462 43 20462 47	20864 00 20922 15	20864 10 20922 21
20321 00 20321 00	20321 11 20321 21	20415 19 20415 21 20415 21 20415 25	20415 63 20415 66 20415 67 20415 72	20462 17 20462 17	20462 43 20462 47	20922 13 20922 17 20922 18 20922 19	20922 21 20922 21 20922 22 20922 22
20321 00 20321 00 20321 00 20321 00 20321 00	20321 31 20321 51 20321 71 20321 98	20415 25 20415 86 20415 88 20415 89 20415 92	20415 74 20415 87 20415 87 20415 87 20415 93	20489 41 2048A 12	20489 00 2048A 13	20923 21 20923 21 20923 21 20923 23 20923 23	20923 24 20923 31 20923 33 20923 25 20923 35
20323 71 20323 71	20323 73 20323 74	20415 95	20415 93	2048A 19	2048A 13	20923 23 20923 26 20923 27 20923 29	20923 35 20923 31 20923 33 20923 35
20324 63 20324 63	20324 61 20324 62	20416 13 20416 13	20416 11 20416 23	20511 21 20511 22 20511 27 20511 29 20511 31	20511 11 20511 11 20511 13 20511 13 20511 15	20925 27 20925 28 20925 29 20925 30	20925 31 20925 31 20925 35 20925 32
20331 59 20331 59 20331 59	20331 18 20331 31 20331 97	20431 20431 01 20431 03 20431 05 20431 07	20430 20430 11 20430 11 20430 12 20430 12	20511 33 20511 35 20511 37 20511 41 20511 42	20511 15 20511 17 20511 17 20511 28 20511 28	20952 00 20952 00 20952 00 20952 00 20952 00	20952 11 20952 14 20952 17 20952 19
20332 98 20332 98 20332 98	20332 58 20332 73 20332 99	20431 09 20431 11 20431 13 20431 16 20431 18	20430 15 20430 15 20430 17 20430 17 20430 21	20512 30 20512 31	20512 33 20512 33	20980 01 20980 02 20980 03 20980 04	20980 21 20980 21 20980 21 20980 31
20336 67 20336 67 20336 67	20336 61 20336 63 20336 65	20431 19	20430 21	20512 43 20512 44 20512 50 20512 51	20512 35 20512 35 20512 36 20512 36	20980 05 20980 06 20999 43	20980 31 20980 31 20999 41
20338 12 20338 13	20338 15 20338 15	20432 01 20432 03 20432 05 20432 07	20430 23 20430 63 20430 55 20430 57	20512 60 20512 61 20512 70 20512 71	20512 37 20512 37 20512 39 20512 39	20999 45 20999 58 20999 59	20999 41 20999 98 20999 98
20343 25 20343 25 20343 32 20343 32 20343 39	20343 18 20343 23 20343 29 20343 31 20343 38	20432 09 20440 93 20440 98	20430 61 20440 99 20440 99	20512 80 20512 81 20512 90 20512 91	20512 40 20512 40 20512 42 20512 42	2099A 2099A 01 2099A 02 2099A 03 2099A 04 2099A 05 2099A 06	20997 20997 81 20997 81 20997 85 20997 85 20997 85 20997 85
20343 39 20352 21 20352 33 20352 35 20352 39	20343 41 20352 34 20352 34 20352 34 20352 34	20450 11 20450 11 20450 13 20450 13 20450 15	20450 51 20450 52 20450 53 20450 54 20450 56	20522 16 20522 17 20522 18 20522 20	20522 19 20522 19 20522 19 20522 19	2099B 2099B 01 2099B 03 2099B 05	20997 63 20997 13 20997 21 20997 31 20997 41
20372 63 20372 69	20372 98 20372 98	20450 15 20450 17 20450 19 20450 21	20450 57 20450 60 20450 63 20450 66	20530 20 20530 25 20530 40 20530 50	20530 13 20530 13 20530 19 20530 19	2099B 07 2099B 09 2099B 11 2099B 13 2099B 19	20997 51 20997 61 20997 71 20997 98

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

1987	1992	1987	1992	1987	1992	1987	1992
2011B 99 2011B 99	2011B 17 2011B 59	20382 23 20382 23 20382 23 20382 23	20382 11 20382 13 20382 15 20382 19	20450 66 20450 67 20450 72 20450 74	20450 21 20450 21 20450 25 20450 25	20630 07 20630 07 20630 75 20630 81	20630 09 20630 12 20630 76 20630 76
20135 20135 13 20135 17	20137 20137 41 20137 41	20382 23 20382 26 20382 26 20382 51	20382 19 20382 21 20382 23 20382 43	20450 74 20450 87 20450 87 20450 87	20450 25 20450 86 20450 88 20450 89	20630 81 20630 89 20630 89	20630 76 20630 35 20630 91
2013B 19	2013B 17	20382 51 20382 51	20382 43 20382 45 20382 47 20382 49	20450 87 20450 93 20450 93	20450 89 20450 92 20450 95	20752 32 20752 98	20752 97 20752 97
013B 19	2013B 18	20382 51 20382 53 20382 53 20382 53	20382 49 20382 37 20382 38 20382 39	20461 17 20461 19	20461 18 20461 23	20791 81 20791 81	20791 83 20791 85
0223 00 0223 00	20223 01 20223 02	20362 53 20382 53 20382 55 20382 57	20382 49 20382 49 20382 49 20382 49	20461 19 20461 31 20461 34	20461 29 20461 25 20461 29	20824 00 20840 00	20824 11 20840 10
0224 21	20224 11	20362 57	20362 49	20461 37	20461 29	20851 13	20851 15
0224 21	20224 13	20415 51 20415 52	20415 11 20415 11	20462 41	20462 11	20851 19	20851 15
0238 11 0238 11	20238 01 20238 03	20415 53 20415 54 20415 56	20415 13 20415 13	20462 41 20462 43 20462 43	20462 13 20462 15 20462 17	20853 63 20853 81	20853 65 20853 65
0238 11 0238 11	20238 05 20238 07	20415 56 20415 57 20415 60	20415 15 20415 15 20415 17	20462 47 20462 47	20462 11 20462 13	20864 10	20864 00
0238 11	20238 19	20415 63 20415 66 20415 67 20415 72	20415 19 20415 21 20415 21 20415 25	20462 47 20462 47 20462 49	20462 15 20462 17 20461 18	20922 21 20922 21 20922 22 20922 22	20922 15 20922 17 20922 18 20922 19
0321 21 0321 31 0321 51 0321 71 0321 98	20321 00 20321 00 20321 00 20321 00 20321 00	20415 74 20415 87 20415 87 20415 87 20415 93	20415 25 20415 86 20415 88 20415 89 20415 92	20489 00	20489 41	20923 24 20923 25 20923 31 20923 31 20923 33	20923 21 20923 23 20923 21 20923 26 20923 21
0323 73 0323 74	20323 71 20323 71	20415 93	20415 95	2048A 13 2048A 13	2048A 12 2048A 19	20923 33 20923 35 20923 35 20923 35	20923 27 20923 23 20923 29
0324 61 0324 62	20324 63 20324 63	20416 11 20416 23 20430	20416 13 20416 13 20431	20511 11 20511 11 20511 13 20511 13	20511 21 20511 22 20511 27 20511 29	20925 31 20925 31 20925 32 20925 35	20925 27 20925 28 20925 30 20925 29
0331 18 0331 31	20331 59 20331 59			20511 15 20511 15 20511 17	20511 31 20511 33 20511 35	20925 35	20925 35 20952 00
0331 97	20331 59	20430	20432	20511 17 20511 28	20511 37 20511 41	20952 14 20952 17 20952 19	20952 00 20952 00 20952 00
20332 58 20332 73 20332 99	20332 98 20332 98 20332 98	20430 11 20430 11 20430 12 20430 12	20431 01 20431 03 20431 05 20431 07	20511 28	20511 42	20980 21 20980 21 20980 21	20980 01 20980 02 20980 03
0336 61 0336 63	20336 67 20336 67	20430 15 20430 15 20430 17	20431 09 20431 11 20431 13	20512 33 20512 35 20512 35	20512 31 20512 43 20512 44	20980 31 20980 31 20980 31	20980 04 20980 05 20980 06
0336 65	20336 67	20430 17 20430 21	20431 16 20431 18	20512 36 20512 36 20512 37	20512 50 20512 51 20512 60	20997	2099A
20338 15 20338 15	20338 12 20338 13	20430 21 20430 23 20430 55 20430 57	20431 19 20432 01 20432 05 20432 07	20512 37 20512 39 20512 39	20512 61 20512 70 20512 71	20997 20997 13 20997 21	2099B 2099B 01 2099B 03
20343 18 20343 23 20343 29	20343 25 20343 25 20343 32	20430 61 20430 63	20432 09 20432 03	20512 40 20512 40 20512 42 20512 42	20512 80 20512 81 20512 90 20512 91	20997 31 20997 41 20997 51 20997 61	2099B 05 2099B 07 2099B 09 2099B 11
0343 31 0343 38 0343 41	20343 32 20343 39 20343 39	20440 99 20440 99	20440 93 20440 98	20522 19	20522 16	20997 71 20997 81 20997 81	2099B 13 2099A 01 2099A 02
0352 34 0352 34 0352 34 0352 34	20352 21 20352 33 20352 35 20352 39	20450 51 20450 52 20450 53 20450 54	20450 11 20450 11 20450 13 20450 13	20522 19 20522 19 20522 19 20522 19	20522 17 20522 18 20522 20	20997 81 20997 85 20997 85 20997 85 20997 98	2099A 03 2099A 04 2099A 05 2099A 06 2099B 19
20372 98	20372 63	20450 56 20450 57 20450 60 20450 63	20450 15 20450 15 20450 15 20450 17 20450 19	20530 13 20530 13 20530 19 20530 19	20530 20 20530 25 20530 40 20530 50	20999 41 20999 41 20999 98 20999 98	20999 43 20999 45 20999 58 20999 59

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.