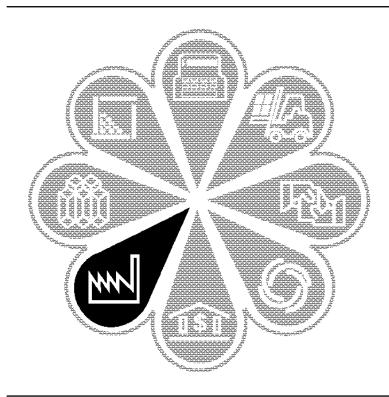
1992 Census of Manufactures

MC92-I-20C

INDUSTRY SERIES

Preserved Fruits and Vegetables

Industries 2032, 2033, 2034, 2035, 2037, and 2038



1992 Census of Manufactures

MC92-I-20C

INDUSTRY SERIES

Preserved Fruits and Vegetables

Industries 2032, 2033, 2034, 2035, 2037, and 2038





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

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

> BUREAU OF THE CENSUS Martha Farnsworth Riche, Director

Acknowledgments

Many persons participated in the various activities of the 1992 Census of Manufactures. The overall planning and review of the census operations were performed by the Economic Census Staff of the Economic Planning and Coordination Division.

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

Brian Greenberg, Assistant Chief for Research and Methodology Programs, assisted by Stacey Cole, provided the mathematical and statistical techniques as well as the coverage operations.

Baruti A. Taylor, under the direction of A. William Visnansky, Chief, Special Reports Branch, performed overall coordination of the publication process. Julius Smith, Jr. and Andrew W. Hait provided primary staff assistance.

The Economic Planning and Coordination Division provided the computer processing procedures. **Shirin A. Ahmed**, Assistant Chief for Post Data Collection Processing, was responsible for editing and the analysts' interactive database review and correction system. Design and specifications were prepared under the supervision of **Dennis L. Wagner**, Chief, Post Collection Census Branch, assisted by **S. Mark Schmidt** and **Robert A. Rosati**.

The staff of the Data Preparation Division, **Judith N. Petty**, Acting Chief, performed mailout preparation and receipt operations, clerical and analytical review activities, data keying, and geocoding review.

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

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

Computer Services Division, Marvin D. Raines, Chief, performed the computer processing.

The staff of the Administrative and Publications Services Division, **Walter C. Odom**, Chief, performed publication planning, design, composition, editorial review, and printing planning and procurement for publications and report forms. **Cynthia G. Brooks** provided publication coordination and editing.

Special acknowledgment is also due the many businesses whose cooperation has contributed to the publication of these data.

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



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



BUREAU OF THE CENSUS Martha Farnsworth Riche, Director Harry A. Scarr, Deputy Director

 Paula J. Schneider, Principal Associate Director for Programs
 Frederick T. Knickerbocker, Associate Director for Economic Programs
 Thomas L. Mesenbourg, Assistant Director for Economic Programs

ECONOMIC PLANNING AND COORDINATION DIVISION John P. Govoni, Chief

MANUFACTURING AND CONSTRUCTION DIVISION John P. Govoni, Acting Chief

For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

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

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

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

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

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

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

AUTHORITY AND SCOPE

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

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

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

AVAILABILITY OF THE DATA

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

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

WHAT'S NEW IN 1992

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

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

HISTORICAL INFORMATION

The economic census has been taken as an integrated program at 5-year intervals since 1967 and before that for 1963, 1958, and 1954. Prior to that time, the individual subcomponents of the economic census were taken separately at varying intervals. The economic census traces its beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for 1840 and subsequent censuses to include mining and some commercial activities. In 1902, Congress established a permanent Census Bureau and directed that a census of manufactures be taken every 5 years. The 1905 Manufactures Census was the first time a census was taken apart from the regular every-10-year population census.

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

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

The range of industries covered in the economic censuses has continued to expand. The census of construction industries began on a regular basis in 1967, and the scope of service industries was broadened in 1967, 1977, and 1987. The census of transportation began in 1963 as a set of surveys covering travel, transportation of commodities, and trucks, but expanded in 1987 to cover business establishments in several transportation industries. For 1992, these statistics are incorporated into a broadened census of transportation, communications, and utilities. Also new for 1992 is the census of financial, insurance, and real estate industries. This is part of a gradual expansion in coverage of industries previously subjected to government regulation. The Survey of Minority-Owned Business Enterprises was first conducted as a special project in 1969 and was incorporated into the economic census in 1972 along with the Survey of Women-Owned Businesses.

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

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

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

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

SOURCES FOR MORE INFORMATION

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

Census of Manufactures

GENERAL

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

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

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

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

SCOPE OF CENSUS AND DEFINITION OF MANUFACTURING

The 1992 Census of Manufactures covers all establishments with one paid employee or more primarily engaged in manufacturing as defined in the 1987 Standard Industrial Classification (SIC) Manual¹ This is the system of industrial classification developed by experts on classification in Government and private industry under the guidance of the Office of Information and Regulatory Affairs, Office of Management and Budget. This classification system is used by Government agencies as well as many organizations outside the Government.

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

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

RELATIONSHIP BETWEEN ANNUAL SURVEY OF MANUFACTURES AND CENSUS OF MANUFACTURES

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

ESTABLISHMENT BASIS OF REPORTING

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

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

location. The ASM also is conducted on an establishment basis, but separate reports are filed for just those establishments selected in the sample. Companies engaged in distinctly different lines of activity at one location are requested to submit separate reports if the plant records permit such a separation and if the activities are substantial in size.

In 1992, as in earlier years, a minimum size limit was set for inclusion of establishments in the census. All establishments employing one person or more at any time during the census year are included. The same size limitation has applied since 1947 in censuses and annual surveys of manufactures. In the 1939 and earlier censuses, establishments with less than \$5,000 value of products were excluded. The change in the minimum size limit in 1947 does not appreciably affect the historical comparability of the census figures except for data on number of establishments for a few industries. This report excludes information for separately operated administrative offices, warehouses, garages, and other auxiliary units that service manufacturing establishments of the same company (see Auxiliaries).

MANUFACTURING UNIVERSE AND CENSUS REPORT FORMS

The 1992 Census of Manufactures universe includes approximately 380,000 establishments. The amounts of information requested from manufacturing establishments were dependent upon a number of factors. The more important considerations were the size of the company and whether it was included in the annual survey of manufactures. The methods of obtaining information for the various subsets of the universe to arrive at the aggregate figures shown in the publication are described below:

1. Small single-establishment companies not sent a report form. In the 1992 Census of Manufactures, approximately 143,000 small single-establishment companies were excused from filing reports. Selection of these small establishments was done on an industryby-industry basis and was based on annual payroll and total shipments data as well as on the industry classification codes contained in the administrative records of Federal agencies. The cutoffs were selected so that these administrative-records cases would account for no more than 3 percent of the value of shipments for all manufacturing. Generally, all single-establishment companies with less than 5 employees were excused, while all establishments with more than 20 employees were mailed forms.

Information on the physical location of the establishment, as well as information on payrolls, receipts (shipments), and industry classification, was obtained from the administrative records of other Federal agencies under special arrangements, which safeguarded their confidentiality. Estimates of data for these small establishments were developed using industry averages in conjunction with the administrative information. The value of shipments and cost of materials were not distributed among specific products and materials for these establishments but were included in the product and material "not specified by kind" (n.s.k.) categories.

The industry classification codes included in the administrative-records files were assigned on the basis of brief descriptions of the general activity of the establishment. As a result, an indeterminate number of establishments were erroneously coded at the fourdigit SIC level. This was especially true whenever there was a relatively fine line of demarcation between industries or between manufacturing and nonmanufacturing activity.

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

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

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

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

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

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

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

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

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

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

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

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

AUXILIARIES

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

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

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

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

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

INDUSTRY CLASSIFICATION OF ESTABLISH-MENTS

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

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

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

In either a census or ASM year, establishments included in the ASM sample with certainty weight, other than those involved with heavily capitalized activities described above, are reclassified by industry only if the change in the primary activity from the prior year is significant or if the change has occurred for 2 successive years. This procedure prevents reclassification when there are minor shifts in product mix. In ASM years, establishments included in the ASM sample with noncertainty weight are not shifted from one industry classification to another. They are retained in the industry where they were classified in the base census year (see Appendix B, Annual Survey of Manufactures). However, in the following census year, these ASM plants are allowed to shift from one industry to another.

The results of these rules covering the switching of plants from one industry classification to another are that, at the aggregate level, some industries comprise different mixes of establishments between survey years and establishment data for such industry statistics as employment and payroll may be tabulated in different industries between survey years. Hence, comparisons between prior-year and current-year published totals, particularly at the four-digit SIC level, should be viewed with caution. This is particularly true for the comparison between the data shown for a census year versus the data shown for the previous ASM year.

As previously noted, the small establishments that may have been misclassified by industry are usually administrativerecords cases whose industry codes were assigned on the basis of incomplete descriptions of the general activity of the establishment. Such possible misclassifications have no significant effect on the statistics other than on the number of companies and establishments.

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

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

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

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

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

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

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

CENSUS DISCLOSURE RULES

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

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

SPECIAL TABULATIONS

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

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

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

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

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

CONTACTS FOR DATA USERS

Subject Area	Contact	Phone		
Census, ASM, and CIR				
SIC's 20-23, 3021, 31	Judy Dodds	301-457-4651		
SIC's 24-30 (exc. 3021), 32	Michael Zampogna	301-457-4810		
SIC's 33-35 (exc. 357)	Kenneth Hansen	301-457-4755		
SIC's 357, 36-39	Bruce Goldhirsch	301-457-4817		
Import/ export publications	Foreign Trade Division	301-457-3041		
Industry analysis and forecasting	International Trade Administration	202-377-4356		

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

[For explanation of terms, see appendixes]

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

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

Contents Preserved Fruits and Vegetables

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

	Page
Introduction to the Economic Census	III
Census of Manufactures	
Users' Guide for Locating Statistics in This Report by Table Number	Х
Description of Industries and Summary of Findings	3

TABLES

Industry Statistics

1a.	Historical Statistics for the Industry: 1992 and Earlier Years	7
1b.	Selected Operating Ratios for the Industry: 1992 and Earlier Years	8
2.	Industry Statistics for Selected States: 1992 and 1987	10
3a.	Summary Statistics for the Industry: 1992	12
3b.	Gross Book Value of Depreciable Assets, Capital Expenditures, Retirements,	
	Depreciation, and Rental Payments: 1992	13
3c.	Supplemental Industry Statistics Based on Sample Estimates: 1992	13
4.	Industry Statistics by Employment Size of Establishment: 1992	14
5a.	Industry Statistics by Industry and Primary Product Class Specialization: 1992	16
Prod	uct Statistics	
5b.	Industry–Product Analysis–Value of Industry and Primary Product Shipments; Specialization and Coverage Ratios: 1992 and Earlier Census Years	17
6a.	Product and Product Classes—Quantity and Value of Shipments by All Producers:	
	1992 and 1987	18
6b.	Product Classes—Value of Shipments by All Producers for Specified States:	
	1992 and 1987	23
6c.	Historical Statistics for Product Classes—Value Shipped by All Producers: 1992	
	and Earlier Years	25
Mate	rial Statistics	

APPENDIXES

7.

В.	Explanation of Terms Annual Survey of Manufactures Sampling and Estimating Methodologies Product Code Reference Tables	B–1
	ation Program Inside back of	

Materials Consumed by Kind: 1992 and 1987

PRESERVED FRUITS AND VEGETABLES 20C-1

26

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

- 2032 Canned Specialties
- 2033 Canned Fruits and Vegetables
- 2034 Dehydrated Fruits, Vegetables, and Soups
- 2035 Pickles, Sauces, and Salad Dressings
- 2037 Frozen Fruits and Vegetables
- 2038 Frozen Specialties, N.E.C.

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

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

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

INDUSTRY 2032, CANNED SPECIALTIES

This industry is made up of establishments primarily engaged in canning specialty products, such as baby foods and soups, except seafood. Establishments primarily engaged in canning seafoods are classified in industry 2091.

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 2032, Canned Specialties, had employment of 21.0 thousand. The employment figure was 14 percent below the 24.5 thousand reported in 1987. Compared with 1991, employment decreased 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, Pennsylvania, Ohio, and Texas, 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 \$6.7 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 2032 shipped \$5.0 billion of canned specialties products considered primary to the industry, \$1.5 billion of secondary products, and had \$145.1 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 76 percent (specialization ratio). In 1987, the specialization ratio was 78 percent.

Establishments in this industry also accounted for 87 percent of products considered primary to the industry no matter where they were actually produced (coverage ratio). In 1987, the coverage ratio was 92 percent.

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.

The products primary to industry 2032, no matter in what industry they were produced, appear in table 6a and aggregate to \$5.7 billion. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and energy used by establishments classified in the canned specialties industry amounted to \$3.1 billion. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with less than 20 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 3 percent of the total value of shipments.

INDUSTRY 2033, CANNED FRUITS AND VEGETABLES

This industry is made up of establishments primarily engaged in canning fruits, vegetables, and fruit and vegetable juices. Also included in this industry are establishments primarily engaged in manufacturing catsup and similar tomato sauces, or natural and imitation preserves, jams, and jellies. Establishments primarily engaged in canning seafoods are classified in industry 2091 and those manufacturing canned specialties, such as baby foods and soups, except seafood, are classified in industry 2032.

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 2033, Canned Fruits and Vegetables, had employment of 63.7 thousand. The employment figure was 2 percent below the 65.1 thousand reported in 1987. Compared with 1991, employment decreased 5 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, Washington, and Wisconsin. These same States were the leaders in 1987.

The total value of shipments for establishments classified in this industry was \$15.1 billion.

Establishments in virtually all industries ship secondary products as well as products primary to the industry in which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 2033 shipped \$12.7 billion of canned fruits and vegetables considered primary to the industry, \$1.8 billion of secondary products, and had \$602.3 million of miscellaneous receipts, resales, and contract work. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in this industry was 88 percent (specialization ratio). In 1987, the specialization ratio was 90 percent.

Establishments in this industry also accounted for 84 percent of products considered primary to the industry no matter where they were actually produced (coverage ratio). In 1987, the coverage ratio also was 84 percent.

The products primary to industry 2033, no matter in what industry they were produced, appear in table 6a and aggregate to \$15.2 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 canned fruits and vegetables industry amounted to \$8.0 billion. Data on specific materials consumed appear in table 7.

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

INDUSTRY 2034, DEHYDRATED FRUITS, VEGETABLES, AND SOUPS

This industry is made up of establishments primarily engaged in sun-drying or artificially-dehydrating fruits and vegetables. Also included in this industry are establishments primarily engaged in manufacturing packaged soup mixes from dehydrated ingredients. Establishments primarily engaged in the grading and marketing of farm-dried fruits, such as prunes and raisins are 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 2034, Dehydrated Fruits, Vegetables, and Soups, had employment of 13.5 thousand. The employment figure was 34 percent above the 10.1 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, Idaho, New Jersey, and Washington. These same States were the leaders in 1987.

The total value of shipments for establishments classified in this industry was \$2.9 billion.

Establishments in virtually all industries ship secondary products as well as products primary to the industry in which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 2034 shipped \$2.5 billion of dehydrated fruits, vegetables, and soup products considered primary to the industry.

Establishments in this industry also accounted for 91 percent of products considered primary to the industry no matter where they were actually produced (coverage ratio). In 1987, the coverage ratio was 79 percent.

The products primary to industry 2034, no matter in what industry they were produced, appear in table 6a and aggregate to \$2.8 billion. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and energy used by establishments classified in the dehydrated fruits, vegetables, and soups industry amounted to \$1.3 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 7 percent of the total value of shipments.

INDUSTRY 2035, PICKLES, SAUCES, AND SALAD DRESSINGS

This industry is made up of establishments primarily engaged in pickling and brining fruits and vegetables, and in manufacturing salad dressings, vegetable relishes, sauces, and seasonings. Establishments primarily engaged in manufacturing catsup and similar tomato sauces are classified in industry 2033. Establishments primarily engaged in packing purchased pickles and olives are classified in wholesale or retail trade.

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 2035, Pickles, Sauces, and Salad Dressings, had employment of 21.4 thousand. The employment figure was unchanged from 1987.

The leading States in employment in 1992 were California, Michigan, Illinois, and Georgia, accounting for approximately 37 percent of the industry's employment. This represents a shift from 1987 when California, Georgia, Michigan, and Pennsylvania were the leading States.

The total value of shipments for establishments classified in this industry was \$6.4 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 2035 shipped \$5.2 billion of pickles, sauces, and salad dressing products considered primary to the industry, \$1.1 billion of secondary products, and had \$111.7 million of miscellaneous receipts, resales, and contract work. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in this industry was 82 percent (specialization ratio). In 1987, the specialization ratio was 78 percent.

Establishments in this industry also accounted for 79 percent of products considered primary to the industry no matter where they were actually produced (coverage ratio). In 1987, the coverage ratio was 86 percent.

The products primary to industry 2035, no matter in what industry they were produced, appear in table 6a and aggregate to \$6.5 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 pickles, sauces, and salad dressings industry amounted to \$2.7 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 2037, FROZEN FRUITS AND VEGETABLES

This industry is made up of establishments primarily engaged in freezing and cold packing fruits, fruit juices, and vegetables. Establishments primarily engaged in freezing food specialties, such as frozen dinners and frozen nationality foods are classified in industry 2038.

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 2037, Frozen Fruits and Vegetables, had employment of 48.0 thousand. The employment figure was 4 percent below the 49.8 thousand reported in 1987.

The leading States in employment in 1992 were California, Oregon, Idaho, and Washington, accounting for approximately 60 percent of the industry's employment. These same States were the leaders in 1987 when they accounted for 62 percent of the industry's employment.

The total value of shipments for establishments classified in this industry was \$7.5 billion.

Establishments in virtually all industries ship secondary products as well as products primary to the industry in which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 2037 shipped \$6.9 billion of frozen fruits and vegetables considered primary to the industry, \$526.4 million of secondary products, and had \$144.6 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 93 percent (specialization ratio). In 1987, the specialization ratio was 91 percent.

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

The products primary to industry 2037, no matter in what industry they were produced, appear in table 6a and aggregate to \$7.4 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 frozen fruits and vegetables industry amounted to \$4.6 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 9 percent of the total value of shipments.

INDUSTRY 2038, FROZEN SPECIALTIES, N.E.C.

This industry is made up of establishments primarily engaged in manufacturing frozen specialties, such as frozen dinners, frozen nationality foods, frozen pizzas, and other frozen specialties, except seafood and bakery products. Establishments primarily engaged in manufacturing frozen fruits and vegetables are classified in industry 2037. Establishments primarily engaged in manufacturing frozen dairy specialties are classified in industry group 202.

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 2038, Frozen Specialties, N.E.C., had employment of 46.7 thousand. The employment figure was 25 percent above the 37.5 thousand reported in 1987.

The leading States in employment in 1992 were California, Ohio, Arkansas, and Texas, accounting for approximately 40 percent of the industry's employment. This represents a shift from 1987 when California, New York, Ohio, and South Carolina were the leading States.

The total value of shipments for establishments classified in this industry was \$7.9 billion.

Establishments in virtually all industries ship secondary products as well as products primary to the industry in which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 2038 shipped \$7.0 billion of frozen specialties, not elsewhere classified, considered primary to the industry, \$514.6 million of secondary products, and had \$392.3 million of miscellaneous receipts, resales, and contract work. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in this industry was 93 percent (specialization ratio). In 1987, the specialization ratio also was 93 percent.

Establishments in this industry also accounted for 97 percent of products considered primary to the industry no matter where they were actually produced (coverage ratio). In 1987, the coverage ratio was 94 percent.

The products primary to industry 2038, no matter in what industry they were produced, appear in table 6a and aggregate to \$7.2 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 frozen specialties, not elsewhere classified, industry amounted to \$3.8 billion. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with less than 15 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 9 percent of the total value of shipments.

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

Excludes data for					d symbols, s		-			appendixes]					
		All establi	ishments ³	All em	oloyees	Pro	duction wor	kers				New	End-of-	Rat	ios
Year ¹	Com- panies ² (no.)	Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufac- ture ⁴ (million dollars)	Cost of materials ⁵ (million dollars)	Value of shipments (million dollars)	capital expend- itures ⁶ (million dollars)	year inven- tories ⁴ (million dollars)	Spe- ciali- zation ⁷ (per- cent)	Cover- age ^a (per- cent)
					I	IN	DUSTRY 2	2032, CAN	NED SPECIA	LTIES		I		II	
1992 Census 1991 ASM 1990 ASM 1989 ASM 1988 ASM 1987 Census 1986 ASM	201 (NA) (NA) (NA) 183 (NA)	220 (NA) (NA) (NA) (NA) 211 (NA)	76 (NA) (NA) (NA) (NA) 86 (NA)	21.0 23.9 23.7 23.7 23.5 24.5 24.5	561.0 577.2 577.0 560.6 552.6 524.8 513.2 513.2	17.2 19.9 19.6 19.0 18.7 19.5 19.6	35.5 38.9 39.5 38.2 37.7 38.1 38.6	427.4 443.7 439.8 429.7 417.2 395.2 383.2	3 617.5 3 408.1 3 272.3 3 043.1 2 687.9 2 652.4 2 326.3	3 057.2 3 068.1 3 054.7 3 015.1 2 863.6 2 700.4 2 629.9	6 662.7 6 474.5 6 322.3 6 047.5 5 551.3 5 350.1 4 957.6	274.7 278.6 251.0 175.5 125.0 144.8 178.8	859.7 880.9 823.4 790.6 736.3 730.2 670.2	76 (NA) (NA) (NA) (NA) 78 (NA)	87 (NA) (NA) (NA) (NA) 92 (NA)
1985 ASM	(NA)	(NA)	(NA)	24.2	476.9	19.7	37.0	366.9	2 161.2	2 638.4	4 801.7	113.6	764.9	(NA)	(NA)
1984 ASM	(NA)	(NA)	(NA)	24.1	451.6	19.6	37.9	348.1	2 158.9	2 631.0	4 784.0	101.4	835.8	(NA)	(NA)
1983 ASM	(NA)	(NA)	(NA)	24.8	443.8	20.3	40.0	337.8	1 958.4	2 410.0	4 370.1	79.1	706.1	(NA)	(NA)
1982 Census	171	198	88	23.4	392.4	19.0	37.0	297.6	1 769.3	2 372.0	4 140.8	154.3	638.4	78	90
1981 ASM	(NA)	(NA)	(NA)	24.1	373.2	19.7	38.4	286.2	1 538.4	2 316.9	3 851.4	68.4	615.2	(NA)	(NA)
1980 ASM	(NA)	(NA)	(NA)	25.0	362.3	20.3	40.8	280.3	1 414.1	2 160.4	3 573.6	69.5	612.4	(NA)	(NA)
1979 ASM	(NA)	(NA)	(NA)	26.3	345.1	21.5	42.8	265.5	1 308.9	2 051.5	3 361.0	73.1	579.2	(NA)	(NA)
1978 ASM	(NA)	(NA)	(NA)	26.6	325.7	21.6	44.4	253.7	1 243.0	1 920.2	3 162.9	59.2	567.7	(NA)	(NA)
1977 Census	172	203	88	26.4	296.5	21.5	42.4	224.3	1 142.6	1 687.7	2 829.2	46.7	527.8	80	89
-	INDUSTRY 2033, CANNED FRUITS AND VEGETABLES														
1992 Census	502	683	397	63.7	1 466.7	53.2	109.3	1 101.4	6 959.4	8 032.5	15 065.5	445.1	3 749.0	88	84
1991 ASM	(NA)	(NA)	(NA)	67.3	1 484.4	57.2	114.3	1 112.8	6 858.8	8 759.9	15 579.1	490.2	3 763.4	(NA)	(NA)
1990 ASM	(NA)	(NA)	(NA)	68.0	1 407.9	58.2	113.4	1 063.6	6 405.2	8 362.7	14 697.9	433.6	3 623.4	(NA)	(NA)
1989 ASM	(NA)	(NA)	(NA)	66.4	1 289.8	57.1	110.9	997.1	5 899.4	7 757.2	13 605.2	351.5	3 071.0	(NA)	(NA)
1988 ASM	(NA)	(NA)	(NA)	64.4	1 219.6	55.2	105.1	932.6	5 789.1	7 080.5	12 872.6	320.7	2 793.2	(NA)	(NA)
1987 Census	462	647	417	65.1	1 161.1	55.5	104.1	878.4	5 440.1	6 465.9	11 889.5	257.9	2 745.3	90	84
1986 ASM	(NA)	(NA)	(NA)	67.4	1 105.2	57.4	102.0	824.0	5 184.8	6 022.7	11 170.7	240.0	2 694.1	(NA)	(NA)
1985 ASM	(NA)	(NA)	(NA)	67.6	1 132.5	57.3	105.4	847.5	4 448.3	6 440.2	10 998.7	264.1	2 869.8	(NA)	(NA)
1984 ASM	(NA)	(NA)	(NA)	69.0	1 134.1	58.5	109.3	854.5	4 129.8	6 353.0	10 389.6	242.4	2 922.1	(NA)	(NA)
1983 ASM	(NA)	(NA)	(NA)	65.2	1 007.9	55.6	103.9	776.9	3 660.8	5 641.4	9 358.1	267.7	2 429.9	(NA)	(NA)
1982 Census	514	715	451	70.5	1 040.1	60.7	113.6	822.4	3 552.7	5 768.1	9 283.4	264.1	2 781.0	89	87
1981 ASM	(NA)	(NA)	(NA)	78.2	1 052.5	68.2	126.7	837.3	3 253.2	5 791.0	9 033.4	269.8	2 872.9	(NA)	(NA)
1980 ASM	(NA)	(NA)	(NA)	79.8	993.9	68.3	129.0	799.9	2 745.0	5 682.4	8 413.4	243.6	2 802.1	(NA)	(NA)
1979 ASM	(NA)	(NA)	(NA)	82.4	939.6	71.4	135.9	761.8	2 813.6	5 338.1	8 128.3	200.4	2 536.9	(NA)	(NA)
1978 ASM	(NA)	(NA)	(NA)	82.7	852.1	73.1	132.7	682.5	2 816.9	4 425.1	7 236.9	206.9	2 202.7	(NA)	(NA)
1978 Census	648	900	519	82.6	789.8	72.6	135.0	636.6	2 546.1	4 135.3	6 666.5	147.1	2 233.5	90	89
-						-			-	ABLES, AND					
1992 Census	124	155	84	13.5	320.8	11.3	21.9	224.4	1 515.0	1 317.9	2 853.1	91.7	709.4	(D)	91
1991 ASM	(NA)	(NA)	(NA)	13.4	316.7	11.0	21.4	219.8	1 353.2	1 394.8	2 708.3	117.9	701.6	(NA)	(NA)
1990 ASM	(NA)	(NA)	(NA)	14.1	298.1	11.7	22.8	204.9	1 124.9	1 372.3	2 453.7	98.6	707.3	(NA)	(NA)
1989 ASM	(NA)	(NA)	(NA)	13.3	263.4	11.1	20.4	182.8	1 131.7	1 178.2	2 235.2	125.0	654.5	(NA)	(NA)
1988 ASM	(NA)	(NA)	(NA)	10.8	207.9	9.1	16.6	149.5	890.6	1 032.2	1 971.3	60.7	484.2	(NA)	(NA)
1987 Census	107	132	68	10.1	190.8	8.4	15.4	137.8	933.6	924.7	1 821.9	48.3	517.0	93	79
1986 ASM	(NA)	(NA)	(NA)	12.2	221.9	9.9	17.4	153.5	859.7	922.4	1 816.9	47.1	498.9	(NA)	(NA)
1985 ASM	(NA)	(NA)	(NA)	13.2	242.8	11.0	20.2	175.0	839.9	973.5	1 788.0	61.4	529.8	(NA)	(NA)
1984 ASM	(NA)	(NA)	(NA)	11.9	216.4	9.7	17.8	153.1	685.6	932.6	1 686.4	54.9	463.3	(NA)	(NA)
1983 ASM	(NA)	(NA)	(NA)	11.0	210.0	8.8	17.3	151.5	697.0	945.4	1 646.9	44.0	545.2	(NA)	(NA)
1982 Census	119	151	85	13.6	216.9	11.2	19.1	156.2	792.3	985.0	1 745.1	51.7	554.8	94	93
1981 ASM 1980 ASM 1979 ASM 1979 ASM 1978 ASM 1977 Census	(NA) (NA) (NA) (NA) 143	(NA) (NA) (NA) (NA) 184	(NA) (NA) (NA) (NA) 87	12.3 13.5 14.0 14.4 14.4	186.0 181.2 177.6 171.6 153.9	9.8 10.8 11.6 11.8 11.7	17.9 20.5 21.1 22.0 22.1	132.5 128.9 124.4 122.7 111.5	687.4 701.4 598.2 519.4 485.9	964.3 906.1 758.0 764.9 685.3	1 591.7 1 518.3 1 311.5 1 278.9 1 142.4	54.7 46.6 44.8 54.2 52.5	423.1 416.8 315.7 293.5 281.9	(NA) (NA) (NA) (NA) 94	(NA) (NA) (NA) (NA) 88
1992 Census	332	376	152	21.4	531.3	16.3	35, PICKL	.ES, SAUC	ES, AND SA 3 749.2	2 651.3	NGS 6 398.0	158.8	700.4	82	79
1991 ASM 1990 ASM 1889 ASM 1987 Census 1987 Census 1987 Census 1987 ASM 1987 ASM 1988 ASM 1987 Census 1988 ASM 1983 ASM 1983 ASM 1983 ASM	(NA) (NA) (NA) (NA) 344 (NA) (NA) (NA)	(NA) (NA) (NA) (NA) 382 (NA) (NA) (NA) (NA)	(XA) (XA) (XA) (XA) (XA) (XA) (XA) (XA)	20.5 21.2 20.6 21.4 21.4 23.1 22.9 22.6 22.2	481.6 488.7 462.8 463.8 451.8 471.3 439.3 416.9 383.6	15.9 15.7 15.6 16.6 18.1 18.1 17.9 17.3	31.4 31.3 30.9 32.6 34.5 34.2 34.3 33.3	327.4 320.3 311.5 321.1 310.0 326.0 306.4 289.5 269.7	3 365.9 2 984.5 2 720.7 2 657.4 2 544.8 2 473.2 2 115.6 1 894.2 2 039.6	2 850.8 2 770.7 2 694.3 2 637.2 2 506.8 2 884.1 2 998.0 2 995.5 2 672.5	6 220.7 5 749.8 5 412.5 5 292.8 5 353.2 5 123.2 4 896.3 4 698.4	210.5 145.3 139.2 165.6 221.0 147.0 129.5 96.4 61.8	659.0 701.7 653.2 640.7 566.9 710.0 606.3 626.9 588.4	(NA) (NA) (NA) (NA) (NA) (NA) (NA) (NA)	(NA) (NA) (NA) (NA) (NA) (NA) (NA) (NA)
1982 Census	325	376	155	22.0	371.5	17.4	33.3	260.8	1 736.9	2 532.7	4 268.8	67.5	582.5	68	83
1981 ASM	(NA)	(NA)	(NA)	23.5	350.0	19.4	37.2	247.3	1 437.9	2 452.4	3 889.9	63.2	540.7	(NA)	(NA)
1980 ASM	(NA)	(NA)	(NA)	24.8	344.6	20.7	38.8	249.6	1 384.9	2 511.3	3 906.2	68.7	576.1	(NA)	(NA)
1979 ASM	(NA)	(NA)	(NA)	25.1	318.5	20.8	39.3	231.9	1 302.9	2 326.5	3 630.9	73.6	541.8	(NA)	(NA)
1978 ASM	(NA)	(NA)	(NA)	25.6	291.8	20.6	39.1	216.8	1 243.1	2 104.1	3 342.2	67.5	526.3	(NA)	(NA)
1977 Census	380	438	168	23.5	250.2	18.9	35.7	184.9	986.5	2 003.8	2 996.5	52.3	447.8	69	86
-					1	NDUSTR	Y 2037, F	ROZEN FR	UITS AND V	'EGETABLES	3				
1992 Census	182	255	201	48.0	917.6	41.5	79.1	678.2	2 910.4	4 613.4	7 535.0	254.8	1 775.9	93	93
1991 ASM	(NA)	(NA)	(NA)	46.0	836.3	39.8	76.7	628.1	2 827.0	4 573.6	7 395.7	298.2	1 881.9	(NA)	(NA)
1990 ASM	(NA)	(NA)	(NA)	46.2	817.0	39.2	74.7	602.4	2 921.6	4 618.9	7 473.6	349.9	1 751.2	(NA)	(NA)
1989 ASM	(NA)	(NA)	(NA)	46.9	810.5	39.9	74.4	593.7	3 089.7	4 299.0	7 422.6	283.9	1 567.8	(NA)	(NA)
1988 ASM	(NA)	(NA)	(NA)	48.5	773.5	41.2	76.1	569.3	3 072.5	3 777.9	6 814.9	235.7	1 516.9	(NA)	(NA)
1987 Census	194	258	193	49.8	786.8	42.8	78.4	591.4	2 986.8	3 669.5	6 606.2	175.2	1 414.5	91	93
1986 ASM	(NA)	(NA)	(NA)	46.4	701.0	40.1	70.7	526.7	2 648.6	3 218.6	5 885.7	196.4	1 331.2	(NA)	(NA)
1985 ASM	(NA)	(NA)	(NA)	46.1	698.6	40.2	73.3	538.6	2 355.1	3 435.3	5 802.5	213.5	1 338.5	(NA)	(NA)
1984 ASM	(NA)	(NA)	(NA)	46.9	693.4	41.2	76.4	540.1	2 555.7	3 470.8	5 968.9	189.8	1 313.6	(NA)	(NA)
1983 ASM	(NA)	(NA)	(NA)	47.3	681.2	40.9	74.4	519.4	2 393.4	3 185.7	5 560.8	176.3	1 236.9	(NA)	(NA)
1982 Census	195	264	199	47.7	643.5	41.5	77.1	506.7	2 408.6	2 970.1	5 374.6	235.7	1 144.4	93	93
1981 ASM	(NA)	(NA)	(NA)	48.8	569.3	42.7	84.6	449.4	1 989.9	2 817.9	4 780.2	132.3	1 003.0	(NA)	(NA)
1980 ASM	(NA)	(NA)	(NA)	48.0	534.7	41.2	82.0	419.6	1 689.2	2 464.5	4 180.9	145.8	949.0	(NA)	(NA)
1979 ASM	(NA)	(NA)	(NA)	51.9	525.2	45.7	83.5	423.6	1 531.6	2 441.3	3 959.1	119.2	938.4	(NA)	(NA)

TIPS [UPF] BATCH_178 [MCD_SRB,J_SMITH] MCD-SRB 5/11/95 10:34 AM MACHINE: EPCV23 DATA:NONE TAPE: NOreel FRAME: 1 TSF:20C_92.DAT;3 5/11/95 10:31:41 UTF:20C_93.DAT;3 5/11/95 10:31:42 META:TIPS96-10313192.DAT;1 5/11/95 10:33:51

See footnotes at end of table.

MANUFACTURES-INDUSTRY SERIES

PRESERVED FRUITS AND VEGETABLES 20C-7

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

		All establi	shments ³	All em	ployees	Pro	duction wo	rkers						Ra	tios
Year ¹	Com- panies² (no.)	Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufac- ture ⁴ (million dollars)	Cost of materials ⁵ (million dollars)	Value of shipments (million dollars)	New capital expend- itures ⁶ (million dollars)	End-of- year inven- tories ⁴ (million dollars)	Spe- ciali- zation ⁷ (per- cent)	Cover- age ⁸ (per- cent)
	INDUSTRY 2037, FROZEN FRUITS AND VEGETABLES—Con.														
1978 ASM 1977 Census	(NA) 187	(NA) 260	(NA) 193	46.4 46.8	477.0 425.9	41.2 41.5	81.4 78.5	384.1 344.7	1 519.0 1 322.5	2 472.6 1 972.0	3 961.4 3 297.5	130.5 87.7	844.3 724.4	(NA) 89	(NA) 89
						INDUS	STRY 203	B, FROZEN	SPECIALTI	ES, N.E.C.					
1992 Census 1991 ASM 1990 ASM 1989 ASM 1988 ASM 1987 Census	308 (NA) (NA) (NA) (NA) 244	363 (NA) (NA) (NA) (NA) 288	203 (NA) (NA) (NA) (NA) 182	46.7 44.9 44.7 41.8 38.0 37.5	971.5 876.1 852.5 789.8 680.6 669.1	38.3 36.7 36.3 33.7 30.6 30.1	73.4 72.2 67.5 63.8 60.7 58.7	673.6 626.7 593.6 545.6 470.2 461.7	4 075.9 4 229.6 3 710.4 3 374.2 2 808.3 2 806.6	3 808.9 4 198.0 4 085.2 3 532.0 2 985.8 2 849.9	7 885.7 8 427.8 7 797.0 6 904.6 5 798.1 5 624.8	249.7 224.9 230.3 145.6 188.1 178.2	582.8 541.4 540.3 555.2 516.1 520.0	93 (NA) (NA) (NA) (NA) 93	97 (NA) (NA) (NA) (NA) 94

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

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

chapter. ³For 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 (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 products shippents to total product shipments (primary and secondary, excluding miscellaneous receipts) for establishments classified in the industry. ⁸Represents ratio of primary products shipped by establishments classified in industry to total shipments of such products by all manufacturing establishments, wherever classified.

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

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

Excludes data for auxiliar	ies. For meaning of	of abbreviations and	symbols, see intro	ductory text. For e	explanation of term	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	2032, CANNED	SPECIALTIES			
1992 Census 1991 ASM 1990 ASM 1989 ASM 1988 ASM	26 714 24 151 24 142 23 654 23 515	82 83 82 80 80	2 064 1 955 2 015 2 011 2 016	12.04 11.41 11.13 11.25 11.07	46 47 48 50 52	54 56 57 59 62	172 262 142 598 136 916 128 401 114 379	16 17 18 18 21	101.90 87.61 82.84 79.66 71.30
1987 Census 1986 ASM 1985 ASM 1984 ASM 1983 ASM	21 420 20 777 19 707 18 739 17 895	80 79 81 81 82	1 954 1 969 1 878 1 934 1 970	10.37 9.93 9.92 9.18 8.45	50 53 55 55 55	60 63 65 64 65	108 261 94 182 89 306 89 581 78 968	20 22 22 21 23	69.62 60.27 58.41 56.96 48.96
1982 Census 1981 ASM 1980 ASM 1979 ASM 1978 ASM 1977 Census	16 769 15 485 14 492 13 122 12 244 11 231	81 82 81 82 81 81	1 947 1 949 2 010 1 991 2 056 1 972	8.04 7.45 6.87 6.20 5.71 5.29	57 60 61 61 61	67 70 71 71 71 71 70	75 611 63 834 56 564 49 768 46 729 43 280	22 24 26 26 26 26	47.82 40.06 34.66 30.58 28.00 26.95
			INC	OUSTRY 2033, C	ANNED FRUITS	AND VEGETA	BLES		
1992 Census 1991 ASM 1990 ASM 1989 ASM 1988 ASM	23 025 22 056 20 704 19 425 18 938	84 85 86 86 86	2 055 1 998 1 948 1 942 1 904	10.08 9.74 9.38 8.99 8.87	53 56 57 57 55	63 66 66 66 64	109 253 101 914 94 194 88 846 89 893	21 22 22 22 22 21	63.67 60.01 56.48 53.20 55.08
1987 Census 1986 ASM 1985 ASM 1984 ASM 1983 ASM	17 836 16 398 16 753 16 436 15 459	85 85 85 85 85 85	1 876 1 777 1 839 1 868 1 869	8.44 8.08 8.04 7.82 7.48	54 54 59 61 60	64 64 69 72 71	83 565 76 926 65 803 59 852 56 147	21 21 25 27 28	52.26 50.83 42.20 37.78 35.23
1982 Census 1981 ASM 1980 ASM 1979 ASM 1978 ASM 1977 Census	14 753 13 459 12 455 11 403 10 304 9 562	86 87 86 87 88 88	1 871 1 858 1 889 1 903 1 815 1 860	7.24 6.61 6.20 5.61 5.14 4.72	62 64 68 66 61 62	73 76 79 77 73 74	50 393 41 601 34 398 34 146 34 062 30 824	29 32 36 33 30 31	31.27 25.68 21.28 20.70 21.23 18.86

20C-8 PRESERVED FRUITS AND VEGETABLES

MANUFACTURES-INDUSTRY SERIES

TIPS [UPF] BATCH_178 [MCD_SRBJ_SMITH] MCD-SRB 5/11/95 10:34 AM MACHINE: EPCV23 DATA:NONE TAPE: NOreel FRAME: 2 TSF:20C_92.DAT;3 5/11/95 10:31:41 UTF:20C_93.DAT;3 5/11/95 10:31:42 META:TIPS96-10313192.DAT;1 5/11/95 10:33:51

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

Cost of Production materials and payroll as Cost of Average hourly materials as workers as Year Pavroll percent of Annual hours earnings of production percent of percent of Payroll as Value added of production workers value of shipments percent of value added per production worker hour total value of Value added pei employee (dollars) employment workers (dollars) shipments per employee (dollars) (percent) (number) (percent) (percent) (percent) (dollars) INDUSTRY 2034, DEHYDRATED FRUITS, VEGETABLES, AND SOUPS 1992 Census_____ 1991 ASM _____ 1990 ASM ______ 1989 ASM _____ 23 763 23 634 21 142 19 805 69.18 63.23 49.34 55.48 10.25 10.27 8.99 8.96 84 21 23 27 23 23 938 46 112 222 100 985 79 780 85 090 82 83 83 84 1 945 1 949 1 838 1 824 52 56 53 52 63 68 64 1988 ASM 19 250 9.01 63 82 463 53.65 1987 Census 1986 ASM ______ 1985 ASM ______ 1984 ASM ______ 833 758 836 8.95 8.82 92 436 70 467 18 891 83 81 51 51 20 60.62 18 189 18 394 18 185 19 091 26 29 32 30 63 49.41 41.58 83 82 80 54 55 57 63 629 57 613 63 364 8.66 68 1 835 1 966 8.60 8.76 38.52 40.29 68 70 1983 ASM _____ 1982 Census..... 1981 ASM 1980 ASM 1979 ASM 1978 ASM 1977 Census..... 15 949 15 122 13 422 12 686 11 917 10 688 58 257 55 886 51 956 42 729 36 069 33 743 705 827 8.18 7.40 6.29 41.48 38.40 34.21 56 61 27 27 26 30 33 32 82 80 80 83 82 81 69 72 72 71 73 73 898 1 60 819 864 889 5.90 5.58 5.05 28.35 23.61 21.99 58 60 60 1 1 INDUSTRY 2035, PICKLES, SAUCES, AND SALAD DRESSINGS 114.65 107.19 95.35 88.05 1992 Census_____ 1991 ASM _____ 1990 ASM _____ 1989 ASM _____ 24 827 23 493 23 052 22 466 76 78 74 76 78 2 006 1 975 1 994 1 981 175 196 164 190 140 778 132 073 10.62 41 14 14 50 10.43 10.23 10.08 54 57 58 46 16 17 17 48 50 1988 ASM 1 964 50 124 178 21 673 9.85 59 81.52 1987 Census 1986 ASM _____ 1985 ASM _____ 1984 ASM _____ 964 906 890 9.51 9.45 50 54 59 118 916 107 065 21 112 59 18 78.06 78 78 79 79 78 20 403 19 183 18 447 17 279 19 21 22 19 71.69 61.86 63 8.96 8.44 8.10 67 70 65 92 384 916 925 83 814 91 874 55.22 61.25 61 57 1983 ASM _____ 16 886 14 894 13 895 12 689 11 398 1982 Census..... 1981 ASM 1980 ASM 1979 ASM 1978 ASM 1977 Census..... 7.83 6.65 6.43 78 950 61 187 55 843 914 918 874 59 63 64 52.16 38.65 79 83 83 83 80 80 68 72 73 73 72 75 21 24 25 24 23 25 35.69 1 5.90 5.54 5.18 64 63 67 51 908 48 559 41 979 33.15 31.79 27.63 889 11 398 10 647 898 889 INDUSTRY 2037, FROZEN FRUITS AND VEGETABLES 1992 Census_____ 1991 ASM _____ 1990 ASM ______ 1989 ASM ______ 86 87 85 32 30 28 904 927 36.84 19 117 8.58 60 633 61 18 180 17 684 8.19 62 73 73 61 457 63 238 36.86 8.06 7.98 7.48 906 62 39 11 17 281 15 948 1 865 1 847 65 878 63 351 41.53 40.37 85 85 58 55 69 67 26 25 -----1988 ASM _____ 1987 Census_____ 1986 ASM _____ 1985 ASM _____ 1984 ASM _____ 1983 ASM _____ 15 799 15 108 15 154 832 763 823 38.10 37.46 32.13 86 86 87 56 55 59 59 976 57 082 1 7.54 67 26 7.45 26 67 1 51 087 71 30 14 785 88 854 7 07 58 57 70 54 493 27 33 45 14 402 86 1 819 6.98 70 50 600 28 32.17 1982 Census_____ 1981 ASM _____ 1980 ASM _____ 13 491 11 666 11 140 10 119 67 71 72 75 50 495 40 777 35 192 29 511 87 88 86 88 55 59 59 858 6.57 27 31 24 1 981 990 5.31 5.12 23.52 20.60 29 32 34 31 32 1979 ASM _____ 1 827 5.07 62 18.34 1978 ASM _____ 1977 Census_____ 10 280 9 100 89 89 976 4 72 62 60 74 73 32 737 18 66 892 4.39 28 259 16.85 INDUSTRY 2038, FROZEN SPECIALTIES, N.E.C. 1992 Census_____ 1991 ASM _____ 1990 ASM _____ 1989 ASM _____ 1988 ASM _____ 20 803 19 512 19 072 916 967 860 87 278 94 200 83 007 55.53 58.58 54.97 9.18 61 60 24 21 23 23 24 24 82 82 81 81 81 48 50 52 51 51 51 8.68 8.79 63 63 63 63 893 984 950 8.55 7.75 7.87 80 722 73 903 74 843 52.89 46.27 47.81 18 895 17 911 1987 Census_____ 17 843 80 1

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

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

MANUFACTURES—INDUSTRY SERIES

PRESERVED FRUITS AND VEGETABLES 20C-9

TIPS [UPF] BATCH_178 [MCD_SRB,J_SMITH] MCD-SRB 5/11/95 10:34 AM MACHINE: EPCV23 DATA:NONE TAPE: NOreel FRAME: 3 TSF:20C_92.DAT;3 5/11/95 10:31:41 UTF:20C_93.DAT;3 5/11/95 10:31:42 META:TIPS96-10313192.DAT;1 5/11/95 10:33:51

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]

			loyees of				199				or explanation			1987
		All establ	lishments	All em	ployees	Pro	duction wo	rkers						
Industry and geographic area	E1	Total (no.)	With 20 employ- ees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manufac- ture (million dollars)
INDUSTRY 2032, CANNED SPECIALTIES														
United States	-	220	76	21.0	561.0	17.2	35.5	427.4	3 617.5	3 057.2	6 662.7	274.7	24.5	2 652.4
Arizona Arkansas California Idaho Illinois	- - - -	3 5 31 2 14	2 3 11 2 5	E F 3.4 F .7	(D) (D) 87.2 (D) 14.1	(D) (D) 3.0 (D) .6	(D) (D) 5.6 (D) 1.2	(D) (D) 67.8 (D) 10.8	(D) (D) 431.1 (D) 96.3	(D) (D) 332.5 (D) 71.1	(D) (D) 763.0 (D) 167.4	(D) (D) 17.5 (D) 5.4	ш ₉ ,	(D) 103.3 (D) (D) (D)
Indiana Louisiana Maine Maryland Michigan	E3 - - -	5 4 2 2 11	3 2 1 1 4	F .2 C C 1.1	(D) 2.4 (D) (D) 31.5	(D) .2 (D) (D) .9	(D) .2 (D) (D) 2.0	(D) 1.8 (D) (D) 24.4	(D) 13.4 (D) (D) 211.9	(D) 14.7 (D) (D) 160.2	(D) 28.0 (D) 366.5	(D) (D) (D) (D) (D)	F C U C F	(D) (D) (D) (D)
Missouri New Jersey New York North Carolina Ohio	-	8 6 8 4 7	3 2 3 3 3	.2 F .8 G H	2.4 (D) 19.1 (D) (D)	.1 (D) .6 (D) (D)	.3 (D) .9 (D) (D)	1.8 (D) 10.9 (D) (D)	15.1 (D) 63.1 (D) (D)	12.8 (D) 55.9 (D) (D)	27.9 (D) 119.1 (D) (D)	(D) (D) (D) (D) (D)	FGGGG	(D) (D) (D) (D)
Oklahoma Pennsylvania South Carolina Tennessee Texas Washington Wisconsin		5 7 3 5 18 9 4	1 4 2 1 5 1 2	C 3.5 C F G F C	(D) 110.1 (D) (D) (D) (D) (D)	(D) 2.9 (D) (D) (D) (D)	(D) 6.5 (D) (D) (D) (D) (D)	(D) 91.7 (D) (D) (D) (D) (D)	(D) 613.7 (D) (D) (D) (D) (D)	(D) 401.2 (D) (D) (D) (D) (D)	(D) 1 016.4 (D) (D) (D) (D) (D)	(D) 80.9 (D) (D) (D) (D) (D)	(NA) 3.6 F 2.2 (NA) C	(NA) 419.4 (D) (D) 270.7 (NA) (D)
INDUSTRY 2033, CANNED FRUITS AND VEGETABLES														
United States	-	683	397	63.7	1 466.7	53.2	109.3	1 101.4	6 959.4	8 032.5	15 065.5	445.1	65.1	5 440.1
Alabama Arkansas California Colorado Connecticut	- - E2 E2	2 9 120 16 7	1 5 89 2 4	C F 18.7 .2 E	(D) (D) 460.5 4.0 (D)	(D) (D) 16.5 .2 (D)	(D) (D) 33.5 .4 (D)	(D) (D) 380.9 2.9 (D)	(D) (D) 1 828.0 12.7 (D)	(D) (D) 2 403.9 10.3 (D)	(D) (D) 4 233.5 23.0 (D)	(D) (D) 125.8 .3 1.5	C F 19.1 (NA) (NA)	(D) (D) 1 823.3 (NA) (NA)
Delaware Florida Georgia Hawaii Idaho	= E1 E1	5 33 6 10 5	4 13 3 4 3	.9 H .3 1.3 F	12.0 (D) 5.2 37.8 (D)	.8 (D) .3 .9 (D)	1.4 (D) .6 1.9 (D)	9.4 (D) 4.1 17.4 (D)	32.6 (D) 13.9 98.8 (D)	49.4 (D) 24.0 95.8 (D)	82.0 (D) 37.9 194.6 (D)	(D) 32.7 .8 2.1 (D)	F T F T F	(D) (D) (D) (D) (D)
Illinois Indiana Iowa Kentucky Louisiana	E1 - - -	24 14 7 7 7	16 7 4 3 4	1.7 1.0 E E	43.4 24.2 (D) (D) (D)	1.3 .7 (D) (D) (D)	3.0 1.6 (D) (D) (D)	29.9 16.9 (D) (D)	142.4 136.8 (D) (D) (D)	188.1 164.0 (D) (D) (D)	342.8 301.4 (D) (D) (D)	9.9 20.5 (D) 4.3 (D)	1.9 .7 G (NA) .4	128.7 40.1 (D) (NA) 26.8
Maryland Massachusetts Michigan Minnesota Mississippi	E2 E1 -	14 7 32 20 3	3 4 26 15 2	.2 .9 2.7 2.3 F	3.1 26.7 54.8 47.8 (D)	.1 .6 2.2 2.1 (D)	.2 1.2 4.7 4.3 (D)	1.9 12.3 40.3 38.1 (D)	11.7 139.4 240.4 182.9 (D)	17.7 172.3 325.5 192.3 (D)	29.3 311.7 564.9 374.0 (D)	.9 (D) 10.9 18.2 (D)	E F 2.6 2.7 (NA)	(D) (D) 171.0 198.3 (NA)
Missouri Nevada New Jersey New Mexico New York	=	13 2 14 3 50	2 1 10 1 31	C C 1.3 C 3.2	(D) (D) 39.2 (D) 82.7	(D) (D) .9 (D) 2.5	(D) (D) 2.1 (D) 5.7	(D) (D) 23.9 (D) 57.3	(D) (D) 112.7 (D) 772.4	(D) (D) 245.3 (D) 608.0	(D) (D) 359.6 (D) 1 393.4	(D) (D) 6.9 (D) 28.1	(NA) (NA) 1.3 (NA) 3.6	(NA) (NA) 158.8 (NA) 452.2
North Carolina Ohio Oregon Pennsylvania Tennessee	-	12 30 28 23 8	5 19 10 14 3	.7 2.9 1.5 3.3 E	10.1 74.8 30.2 70.3 (D)	.5 2.3 1.3 2.7 (D)	1.0 4.6 2.4 5.9 (D)	8.0 57.5 21.7 55.1 (D)	28.6 490.4 62.3 337.7 (D)	53.6 364.4 120.7 426.3 (D)	83.1 858.3 182.6 763.0 (D)	2.2 14.9 8.0 56.0 (D)	F 2.7 2.2 2.7 E	(D) 462.9 89.3 277.1 (D)
Texas Virginia		25 10 33 2 56	11 9 18 1 47	2.0 1.0 3.4 C 5.1	41.3 20.7 67.7 (D) 99.7	1.7 .8 3.0 (D) 4.6	3.6 1.6 5.7 (D) 9.8	31.2 13.7 51.7 (D) 83.9	208.0 58.9 277.7 (D) 354.7	203.9 69.9 279.6 (D) 470.7	405.0 128.6 557.5 (D) 826.4	10.6 2.2 18.5 (D) 20.9	2.2 G 2.4 (NA) 6.0	148.8 (D) 211.3 (NA) 330.7
INDUSTRY 2034, DEHYDRATED FRUITS, VEGETABLES, AND SOUPS														
United States	-	155	84	13.5	320.8	11.3	21.9	224.4	1 515.0	1 317.9	2 853.1	91.7	10.1	933.6
California Connecticut Florida Idaho Illinois	E1	74 1 6 11 2	47 1 2 10 2	7.2 C .1 2.9 F	170.0 (D) 3.5 61.7 (D)	6.0 (D) .1 2.5 (D)	11.5 (D) .2 5.0 (D)	115.4 (D) 2.1 42.1 (D)	680.6 (D) 9.7 254.5 (D)	817.9 (D) 8.6 168.5 (D)	1 518.7 (D) 18.0 422.3 (D)	44.0 (D) 17.9 (D)	6.0 C (NA) 1.8 E	515.9 (D) (NA) 91.0 (D)
New Jersey North Dakota Oregon Pennsylvania Washington Wisconsin	- _ E1	4 2 7 1 12 2	2 1 2 1 8 1	F C 2 E .6 C	(D) (D) 2.6 (D) 11.5 (D)	(D) (D) .1 (D) .5 (D)	(D) (D) .3 (D) .9 (D)	(D) (D) 2.2 (D) 8.3 (D)	(D) (D) 11.7 (D) 40.0 (D)	(D) (D) 6.8 (D) 46.0 (D)	(D) (D) 18.5 (D) 83.2 (D)	(D) (D) (D) 2.6 (D)	F (NA) C E (NA)	(D) (NA) (D) (D) (D) (NA)

See footnotes at end of table.

20C-10 PRESERVED FRUITS AND VEGETABLES

MANUFACTURES-INDUSTRY SERIES

TIPS [UPF] BATCH_178 [MCD_SRB.J_SMITH] MCD-SRB 5/11/95 10:34 AM MACHINE: EPCV23 DATA:NONE TAPE: NOreel FRAME: 4 TSF:20C_92.DAT;3 5/11/95 10:31:41 UTF:20C_93.DAT;3 5/11/95 10:31:42 META:TIPS96-10313192.DAT;1 5/11/95 10:33:51

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] 1992 1987 All establishments All employees Production workers New Industry and geographic area With 20 Value added Value added capital employ-ees or by manufac Cost of Value of expend-itures All by manufacemploy-ees² (1,000) materials (million dollars) shipments (million dollars) Payroll (million Wages (million ture (million) ture (million Number² Total Number Hours (million more E¹ (no.) (no.) (1,000)dollars) (1,000) (millions) dollars) dollars) dollars) dollars) INDUSTRY 2035, PICKLES, SAUCES, AND SALAD DRESSINGS United States _____ E1 531.3 347.4 3 749.2 2 651.3 6 398.0 158.8 2 544.8 376 152 21.4 16.3 32.7 21.4 (D) (D) (D) 82.3 Alabama _____ 3 E (D) (D) (D) 2.4 (D) (D) (D) (D) (D) (D) 20.2 (D) 322 (D) (D F (D) (D) (D) 56.7 (D) (D) (D) 721.3 (D) (D) (D) 1 115.6 (NA) (D) 565.2 (D) (D) 4.7 (D) (D) 392.1 (NA) E Arizona _____ Arkansas _____ F9 6 CE E1 California _____ 58 26 3.1 3.4 Colorado _____ 5 1 Е (D) (D) (D) (D) (D) (D) (D) (D) Е (D) Delaware _____ E 1.4 (D) 35.1 (D) 1.0 (D) 2.0 (D) 23.2 (D) 257.8 (D) 180.7 9.4 (D) (D) 438.5 (D) 5.3 E 1.7 (D) 1 1 (NA) (NA) 250.3 Georgia _____ q 5 2 E8 1.4 (D) 29.3 (NA) (NA) 1.3 16 2.2 (D) 44.4 Hawaiii1 C 1.7 .2 (D) 2.5 19.2 9.8 (D) .4 (D) 8.4 .1 (D) 1.2 Idaho _____ Illinois _____ (D) E1 20 11 287.7 253.3 540.8 (D) (D) 49.3 17.7 3.8 (D) 3.1 Indiana_____ E2 7 2 15.5 .6 (D) 1.3 (D) 61.0 66.7 127.7 11.1 EE4.5E 4 2 8 4 3 .8 E.7 .5 E Kentucky Louisiana Maryland (D) 70.8 64.4 (D) 15.7 (D) 100.2 (D) 168.0 (D) 7.7 E2 E3 12 5.5 (D) .3 (D) 98.9 1.7 (D) 4 8 12 .6 (D) 34. Massachusetts (D) (D) (D) (D) (D) 1.8 C F Michigan _____ 19 8 32.3 1.6 (D) (D) .3 .6 2.8 24.7 176.2 144.1 320.6 9.0 1.9 155.2 Minnesota Missouri New Jersey (D) (D) 15.0 (D) (D) 9.2 9.6 (D) (D) 79.1 71.9 (D) (D) 1.4 2.2 (D) (D) 158.1 (D) F1 (D) (D) 5 1 5 6 11 (D) (D (D) C 11 10 .4 .7 160.6 .6 G E1 E3 1.2 New York _____ 30 14.9 178.4 106.8 (D) (D) (NA) 15.0 (D) North Carolina _____ 8 11 18.9 1.5 (D) (D) 10.9 77.0 56.3 133.3 F .9 F C.4 F .7 (D) (D) 1.9 (D) (D) .9 (D) 4 4 1 4 (D) (D) 55.0 (D) (D) 8.4 (D) (D) (D) 5.2 (D) (D) (D) 28.0 (D) (D) (D) 27.0 (D) Ohio _____ Oklahoma _____ 3 10 19 (NA) Oregon _____ Pennsylvania _____ .3 (D) .5 (D) .3 G (D) (NA) E G .2 G (NA) (D) (D) 12.9 (D) (D) (D) 13.5 (D) 19.5 South Carolina _____ 5 4 1 CEGCG (D) E8 Tennessee _____ Texas _____ Washington _____ 2 10 28 E1 8 12 2 Wisconšin _____ INDUSTRY 2037, FROZEN FRUITS AND VEGETABLES United States 255 201 48.0 917.6 41.5 79.1 678.2 2 910.4 4 613.4 7 535.0 254.8 49.8 2 986.8 (D) 1 114.4 (NA) 9.7 C 5.7 G (D) 152.2 (D) 120.6 (D) 14.1 (D) 8.7 (NA) 435.0 (D) 683.6 (D) 114.3 (D) 644.5 Arkansas _____ C (D) 7.5 (D) 4.1 (D) (D) 480.7 (D) 30.6 8.6 C 5.3 G 44 37 alifornia_____ E1 E4 Delaware _____ Florida _____ (D) 77.0 (D) 304.1 (D) 1 427.6 2 29 (D) 1 759.0 (D) 44.5 2 24 Georgia _____ (D) (D) (D) (D) (D) (D) (D) (D) 351.2 90.1 Idaho _____ 12 6.5 117.9 6.0 (D) (D) (D) .6 11.4 98.1 379.7 437.6 818.8 35.5 6.7 12 3 11 2 11 (D) (D) (D) 37.4 (D) (D) (D) 16.0 (D) (D) (D) 1.1 (D) (D) (D) 9.6 (D) (D) (D) 103.2 (D) (D) (D) 6.5 1.2 1.2 E G Illinois_____ 7 11 2 14 (D (D (D Maine _____ Maryland _____ G C .8 59.9 (D) (D) E1 65.9 Michigan _____ .8 (D) (D) (D) .9 C F (D) (D) Minnesota _____ 4 2 16.3 1.5 11.0 47.7 49.0 96.6 F (D) 3 1 2 3 9 (D) (D) (D) 21.5 (D) (D) (D) 1.6 (D) (D) (D) 15.5 (D) (D) (D) 133.3 (D) (D) (D) 278.0 (NA) F (NA) (D) (D) (D) Missouri (D) (D) Nebraska_____ New Jersey_____ 34 É 1.0 (D) 150.6 F .1 4.3 F1 New York _____ 11 É (D) (D) (D) 412.4 (D) (NA) (D) 391.8 23.5 (D) (D) (D) 99.6 E C F (D) 890.6 (D) (D) (D) 6.4 (D) (D) North Dakota _____ 1 13 E 6 2 27 (NA) Ohio Ohio _____Oklahoma _____ (D) 33.9 7.2 E 7.3 .5 22 3 129. 480.9 Oregon _____ Pennsylvania _____ 12.2 (D) (D) 5 (D (D) (D) (D) (D) (D) (D) 1.8 (D) (D) 10.8 (D) (D) 14.2 (D) (D) 10.4 (D) (D) 33.9 (D) (D) 35.7 (D) (D) 69.6 South Dakota C F 1.3 C 6.3 2.5 (D) (D) 1.2 (D) (D) 5.6 2.2 (D) (D) (D) (D) 34.8 22.9 (NA) (NA) 1 (INA) (D) (NA) (NA) 369.3 170.1 Fennessee 6 2 1 G Texas_____ 6 Virginia_____ Washington_____ (D) (D) 137.6 (D) (D) 107.2 (D) (D) 510.8 275.2 3 (D) (D) (D) (D) (NA) (NA) E2 32 10 27 573.3 1 086.5 1.3 Wisconšin 48.9 42 37.1 390.7 **INDUSTRY 2038, FROZEN** SPECIALTIES, N.E.C. United States _____ 363 203 46.7 971.5 38.3 73.4 673.6 4 075.9 3 808.9 7 885.7 249.7 37.5 2 806.6 (D) 310.1 (NA) С (D) (D) (D) (D) (D) (NA) 2 4 2 4 (D) (D) (D) Arizona 3.5 7.7 .6 .2 (D) (D) (D) (D) Arkansas 57.8 3.2 6.2 12.9 49.9 315.1 625.2 (D 26.1 (D) .8 GHFC 590.9 58.6 14.0 467.9 56.9 17.0 35 5 4 147.4 6.2 1 058.7 115.9 California. E1 62 98.6 California _____ Connecticut _____ 8 8 .5 .2 .8 .3 7.4 E4 Florida _____ 5.2 31.1 (D) (D) 1.8 .3 .6 (D) (D) 28.5 5.7 8.3 98.3 (NA) (D) 58.6 4 3 29 F (D) (D) 3.7 (D) (D) 161.9 .8 (NA) G .7 F Georgia (D) (D) (D) (D) (D) (D) 2 2 14 5 5 (D) (D) 7.0 (D) 1.8 . E 2.5 ------E1 58.2 186.4 348.5 Illinois_____ 38.9 73.0 Indiana_____ Iowa _____ 9.7 .6 .8 79.6 6 5 .4 .7 40.6 11.3 50.1 123.1 (D)

See footnotes at end of table.

MANUFACTURES—INDUSTRY SERIES

PRESERVED FRUITS AND VEGETABLES 20C-11

 TIPS [UPF]
 BATCH_178
 [MCD_SRB,J_SMITH]
 MCD-SRB
 5/11/95
 10:34 AM
 MACHINE:
 EPCV23
 DATA:NONE
 TAPE:
 NOreel
 FRAME:
 5

 TSF:20C_92.DAT;3
 5/11/95
 10:31:41
 UTF:20C_93.DAT;3
 5/11/95
 10:31:42
 META:TIPS96-10313192.DAT;1
 5/11/95
 10:33:51

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]

	1992											1987		
		All establ	lishments	All em	ployees	Pro	duction wo	rkers						
Industry and geographic area		Total (no.)	With 20 employ- ees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manufac- ture (million dollars)
INDUSTRY 2038, FROZEN SPECIALTIES, N.E.CCon.														
Kansas Kentucky Maryland Massachusetts Michigan	- - E1 E1	3 1 3 10 11	1 1 3 3 6	G F G 3 E	(D) (D) 7.6 (D)	(D) (D) (D) .2 (D)	(D) (D) (D) .3 (D)	(D) (D) (D) 4.5 (D)	(D) (D) (D) 17.3 (D)	(D) (D) (D) 19.3 (D)	(D) (D) (D) 36.6 (D)	(D) (D) (D) 1.3 .8	G (NA) G C (NA)	(D) (NA) (D) (D) (NA)
Minnesota Missouri Nebraska New Hampshire New Jersey	- - - E2	17 11 2 1 17	12 5 2 1 10	2.3 F G C 1.1	43.7 (D) (D) (D) 25.7	1.7 (D) (D) (D) .8	3.5 (D) (D) (D) 1.5	25.5 (D) (D) 15.3	255.8 (D) (D) (D) 143.5	170.8 (D) (D) (D) 87.3	426.6 (D) (D) (D) 229.3	14.5 (D) (D) 3.6	G G F (NA) G	(D) (D) (NA) (D)
New Mexico New York North Carolina Ohio Oklahoma	E1 - - -	1 27 2 12 5	1 17 1 9 3	C 2.2 E 4.8 F	(D) 51.5 (D) 120.8 (D)	(D) 1.7 (D) 4.0 (D)	(D) 3.4 (D) 7.4 (D)	(D) 32.9 (D) 83.0 (D)	(D) 226.2 (D) 359.2 (D)	(D) 163.1 (D) 481.1 (D)	(D) 389.3 (D) 840.3 (D)	(D) 8.7 (D) 32.6 (D)	(NA) 2.8 C 3.7 E	(NA) 254.7 (D) 333.4 (D)
Oregon Pennsylvania South Carolina Tennessee Texas	 E3	8 21 2 6 20	6 11 1 4 9	.8 2.1 G F 2.6	19.3 37.9 (D) 46.6	.7 1.8 (D) (D) 2.2	1.3 3.3 (D) (D) 4.4	12.7 28.2 (D) (D) 35.2	92.7 152.9 (D) 127.4	70.6 110.0 (D) 115.3	163.3 264.7 (D) 242.7	4.0 8.7 (D) (D)	E 2.5 H F G	(D) 152.6 (D) (D) (D)
Utah Virginia Wisconsin	E1 - -	7 5 16	5 3 7	G G 1.6	(D) (D) 39.7	(D) (D) 1.0	(D) (D) 2.4	(D) (D) 22.6	(D) (D) 212.8	(D) (D) 149.7	(D) (D) 362.7	(D) (D) (D)	F G 1.2	(D) (D) 127.6

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

¹Payroll and sales data for some small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other Government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown for those States where estimated value of shipments data based on administrative-record data account for 10 percent or more of figure shown. E1-10 to 19 percent; E2-20 to 29 percent; E3-30 to 39 percent; E4-40 to 49 percent; E5-50 to 59 percent; E6-60 to 69 percent; E7-70 to 79 percent; E8-80 to 89 percent; E9-90 percent or more. ²Statistics for some producing States have been withheld to avoid disclosing data for individual companies. However, for States with 100 employees more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C-100 to 249 employees; E-250 to 499 employees; 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 specialties (SIC 2032)	Canned fruits and vegetables (SIC 2033)	Dehydrated fruits, vegetables, and soups (SIC 2034)	Pickles, sauces, and salad dressings (SIC 2035)	Frozen fruits and vegetables (SIC 2037)	Frozen specialties, n.e.c. (SIC 2038)
Companiesnumber	201	502	124	332	182	308
All establishments	220 144 37 39	683 286 217 180	155 71 45 39	376 224 87 65	255 54 81 120	363 160 96 107
Employment and labor costs: Employees	21.0 724.8 561.0 163.8 64.0 99.7	63.7 1 900.7 1 466.7 434.0 207.5 226.5	13.5 420.7 320.8 99.9 41.5 58.4	21.4 680.4 531.3 149.1 60.3 88.9	48.0 1 207.4 917.6 289.8 129.2 160.6	46.7 1 240.2 971.5 268.8 115.5 153.3
Production workers: Average for year1.000	17.2 16.6 16.8 17.7 17.8	53.2 38.8 42.5 86.9 45.0	11.3 10.2 10.8 12.6 11.5	16.3 13.8 15.4 21.3 14.8	41.5 38.1 40.4 46.8 40.9	38.3 38.2 37.8 38.6 38.6
Hours millions	35.5	109.3	21.9	32.7	79.1	73.4
Wagesmil dol	427.4	1 101.4	224.4	347.4	678.2	673.6
Cost of materials1mil dolMaterials, parts, containers, etc., consumed2mil dolmil dolResalesmil dolmil dol	3 057.2 2 900.4 76.6 34.3 33.0 13.0	8 032.5 7 293.9 440.5 130.4 108.5 59.3	1 317.9 1 212.4 28.0 36.2 32.1 9.3	2 651.3 2 517.1 70.0 17.6 36.4 10.2	4 613.4 4 246.7 98.4 79.9 128.2 60.2	3 808.9 3 427.4 247.3 31.3 91.9 11.0
Quantity of electric energy used for heat and power: Purchased mil kWh Generated less sold mil kWh	575.2 (D)	1 586.9 (D)	480.3 3.4	556.5 _	2 823.7 (D)	1 588.8 (D)
Total value of shipmentsmil dol	6 662.7	15 065.5	2 853.1	6 398.0	7 535.0	7 885.7
Value addedmil dol	3 617.5	6 959.4	1 515.0	3 749.2	2 910.4	4 075.9

See footnotes at end of table.

20C–12 PRESERVED FRUITS AND VEGETABLES

MANUFACTURES-INDUSTRY SERIES

TIPS [UPF] BATCH_178 [MCD_SRBJ_SMITH] MCD-SRB 5/11/95 10:34 AM MACHINE: EPCV23 DATA:NONE TAPE: NOreel FRAME: 6 TSF:20C_92.DAT;3 5/11/95 10:31:41 UTF:20C_93.DAT;3 5/11/95 10:31:42 META:TIPS96-10313192.DAT;1 5/11/95 10:33:51

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

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

ltem	Canned specialties (SIC 2032)	Canned fruits and vegetables (SIC 2033)	Dehydrated fruits, vegetables, and soups (SIC 2034)	Pickles, sauces, and salad dressings (SIC 2035)	Frozen fruits and vegetables (SIC 2037)	Frozen specialties, n.e.c. (SIC 2038)
Inventories by stage of fabrication: Beginning of 1992mil dolmil dol	802.4 495.9 17.3 289.2	3 715.0 2 730.7 431.7 552.5	699.6 406.4 147.3 145.8	699.4 446.1 52.4 200.9	1 723.2 1 153.8 231.6 337.8	562.8 287.3 9.1 266.4
End of 1992mil dolmil dol	859.7 521.8 29.3 308.6	3 749.0 2 857.8 358.1 533.1	709.4 399.7 133.9 175.8	700.4 448.0 54.8 197.6	1 775.9 1 234.9 220.4 320.6	582.8 302.8 8.2 271.9

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

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

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

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

Item	Canned specialties (SIC 2032)	Canned fruits and vegetables (SIC 2033)	Dehydrated fruits, vegetables, and soups (SIC 2034)	Pickles, sauces, and salad dressings (SIC 2035)	Frozen fruits and vegetables (SIC 2037)	Frozen specialties, n.e.c. (SIC 2038)
Gross book value of depreciable assets: Total: Beginning of year New capital expenditures ¹ Used capital expenditures Retirements End of year Buildings and other structures:	1 574.4 274.7 (D) (D) 1 712.3	4 048.8 445.1 29.2 160.1 4 363.0	857.8 91.7 11.9 35.0 926.4	1 630.9 158.8 10.5 40.9 1 759.3	3 042.0 254.8 11.7 75.9 3 232.5	2 342.8 249.7 (D) (D) 2 497.9
Beginning of year New capital expenditures Used capital expenditures Retirements End of year Machinery and equipment:	398.4 85.8 (D) (D) 438.0	1 138.6 104.0 2.8 21.9 1 223.4	238.1 17.3 3.0 .8 257.6	487.0 22.3 4.3 3.9 509.8	760.9 35.5 1.9 10.8 787.5	698.6 50.2 (D) 737.2
Retirements End of year New capital expenditures ¹ Used capital expenditures Retirements End of year	1 176.0 188.9 (D) (D) 1 274.4	2 910.2 341.1 26.4 138.2 3 139.6	619.7 74.4 8.9 34.2 668.8	1 143.9 136.5 6.2 37.0 1 249.6	2 281.1 219.3 9.7 65.1 2 445.0	1 644.2 199.5 (D) 1 760.7
Depreciation charges during 1992: Total	109.3 15.8 93.5	288.3 51.3 237.0	55.7 9.9 45.9	107.8 20.6 87.1	259.8 57.4 202.4	161.7 35.2 126.5
Rental payments: Total	22.5 9.6 12.9	102.4 46.0 56.4	16.2 7.7 8.5	29.8 13.9 15.9	54.7 26.6 28.0	52.3 28.5 23.8

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

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

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

	Canned s (SIC 2		Canned fruits a (SIC 2		Dehydrated fruits, vegetables, and soups (SIC 2034)	
Item	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)
Purchased services: Cost of purchased services for the repair of— Buildings and other structures	2.6 88.7 .8 86.7 .8 87.5 4.2 87.5 1.3 87.5 4.5	888888888888888888888888888888888888888	14.8 82.5 102.7 82.6 73.2 9.6 76.2 4.4 76.0 112.9 76.5 3.1 76.0 112.9 76.5 3.1 76.0 115.1 82.6	XXXX XXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX	1.4 80.8 25.7 81.2 2.5 82.5 2.0 83.8 2.9 81.2 30.7 83.8 6 81.2 31 81.2	888888888888888888888888888888888888888

See footnotes at end of table.

MANUFACTURES—INDUSTRY SERIES

PRESERVED FRUITS AND VEGETABLES 20C-13

TIPS [UPF] BATCH_178 [MCD_SRBJ_SMITH] MCD-SRB 5/11/95 10:34 AM MACHINE: EPCV23 DATA:NONE TAPE: NOreel FRAME: 7 TSF:20C_92.DAT;3 5/11/95 10:31:41 UTF:20C_93.DAT;3 5/11/95 10:31:42 META:TIPS96-10313192.DAT;1 5/11/95 10:33:51

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

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

		specialties 2032)	Canned fruits a (SIC 2		S0	, vegetables, and ups 2034)
Item	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)
New machinery and equipment expenditures Automobiles, trucks, etc., for highway use Computers and peripheral data processing equipment All other Adjustment ratio ³	188.9 .6 8.8 179.6 1.5	(X) 10 7 1 (X)	341.1 3.2 7.3 330.7 1.2	(X) 8 4 1 (X)	74.4 .6 3.4 70.4 1.2	(X 67 7 1 (X
Cost of materials, components, parts, etc., used	2 900.4 170.9 2 729.5 1.2	(X) 3 1 (X)	7 293.9 280.2 7 013.7 1.8	(X) 6 1 (X)	1 212.4 6.4 1 206.0 1.4	(X 10 1 (X
		es, and salad sings 2035)	Frozen fruits and vegetables (SIC 2037)		Frozen specialties, n.e.c. (SIC 2038)	
Item	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)
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	5.1 84.2 74.9 84.2	(X) (X) (X) (X)	15.8 67.4 152.8 70.1	(X) (X) (X) (X)	7.9 72.5 42.7 74.7	(X) (X) (X)
Other purchased services: Communications Response coverage ratio (percent) ² Legal 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 Refuse removal, including hazardous waste Response coverage ratio (percent) ²	4.0 82.7 2.7 83.3 1.1 83.3 55.5 83.3 1.3 70.7 7.0 83.9	XX XX XX XX XX XX XX XX XX XX XX XX XX	6.9 63.4 5.0 69.6 5.1 163.5 19.7 65.8 2.4 62.7 12.6 66.0	XX XX XX XX XX XX XX XX XX XX XX XX XX	4.6 71.7 2.6 70.7 2.2 25.4 75.7 .8 71.8 6.0 74.7	(X (X (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	136.5 .5 8.6 127.4 1.1	(X) 13 7 1 (X)	219.3 6.8 5.5 207.1 1.2	(X) 10 11 1 (X)	199.5 10.2 8.5 180.7 .9	(X 56 30 2 (X
Cost of materials, components, parts, etc., used Materials purchased or transferred from foreign sources ⁴ Materials purchased or transferred from domestic sources Adjustment ratio ³	2 517.1 49.2 2 467.9 1.9	(X) 18 1 (X)	4 246.7 350.6 3 896.1 1.3	(X) 6 1 (X)	3 427.4 85.5 3 341.9 1.5	(X 5 (X

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

¹For description of relative standard error of estimate, see Qualifications of the Data in appendixes. ²A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight, see appendix B) for those ASM establishments that reported to the weighted total employment for all ASM establishments classified in the industry. ³Detail has been adjusted upwards to account for nonresponse. Inverse of the ratio shown represents a measure of the response of the inquiry. (See appendixes for further explanation.) ⁴Data may understate the true cost of imported parts, components, and supplies since some respondents do not know the origin of these materials. Includes cases where materials were purchased from secondary suppliers or where they were transferred from company-operated warehouses or other distribution points. Direct purchases from foreign suppliers and importers by domestic manufacturing establishments are believed to be reported accurately.

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

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

		All	All em	ployees	Pro	duction wor	kers	Value added by			New capital	End-of- year
Industry and employment size class	E1	estab- lish- ments (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	expend- itures (million dollars)	inven- tories (million dollars)
INDUSTRY 2032, CANNED SPECIALTIES												
Total	-	220	21.0	561.0	17.2	35.5	427.4	3 617.5	3 057.2	6 662.7	274.7	859.7
Establishments with an average of — 1 to 4 employees 5 to 9 employees 20 to 19 employees 50 to 99 employees 10 to 129 employees 50 to 249 employees 250 to 499 employees 250 to 499 employees 250 to 499 employees 100 to 249 employees 100 to 249 employees 100 to 249 employees	E9 E8 E3 E3 - - - - -	84 27 33 25 12 19 7 8 5	.1 .2 .5 .7 3.1 2.8 4.8 8.0	2.5 3.1 7.6 14.0 19.9 66.0 74.1 126.4 247.5	.1 .4 .6 2.5 2.3 3.9 6.7	.2 .3 .7 1.2 1.3 4.9 8.4 13.6	1.9 2.4 5.6 13.3 47.5 55.3 93.8 199.1	14.2 14.8 37.5 72.0 105.3 331.5 500.5 752.9 1 788.9	12.8 13.3 37.4 60.9 92.3 361.7 402.0 830.7 1 246.3	27.0 28.1 74.9 132.8 197.8 692.6 896.6 1 576.2 3 036.8	1.3 1.1 2.3 4.0 14.6 16.8 26.4 <u>208.1</u> (D)	3.3 3.4 8.5 15.4 19.4 87.2 153.2 220.1 349.3
Covered by administrative records ²	E9	91	.2	3.4	.2	.4	2.6	16.9	15.1	32.0	1.3	3.9

See footnotes at end of table.

20C–14 PRESERVED FRUITS AND VEGETABLES

MANUFACTURES-INDUSTRY SERIES

TIPS [UPF] BATCH_178 [MCD_SRBJ_SMITH] MCD-SRB 5/11/95 10:34 AM MACHINE: EPCV23 DATA:NONE TAPE: NOreel FRAME: 8 TSF:20C_92.DAT;3 5/11/95 10:31:41 UTF:20C_93.DAT;3 5/11/95 10:31:42 META:TIPS96-10313192.DAT;1 5/11/95 10:33:51

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

All employees Production workers Value End-of-New added by manufacyear inven-All capita estab Cost of Value of expend-itures Industry and employment size class lish-Payrol Wages ture materials shipments tories ments (no.) (million dollars) Hours (millions) (million dollars) (million dollars) (million dollars) (million dollars) (million dollars) Number (1,000) Numbo (million E1 (1,000) dollars) INDUSTRY 2033, CANNED FRUITS AND VEGETABLES 683 1 466.7 8 032.5 15 065.5 445.1 3 749.0 Total _____ 63.7 53.2 109.3 1 101.4 6 959.4 Establishments with an average of-
 1 to 4 employees

 5 to 9 employees

 0 to 19 employees
 .2 .4 1.0 3.5 7.9 1.3 2.3 4.2 20.3 60.0 E7 148 4.5 7.9 19.3 79.8 181.1 23.3 30.2 53.6 79.4 13.0 .2 .4 3.5 13.0 20.0 74.2 155.1 457.4 883.1 255.2 E6 E3 E2 E1 66 72 107 110 5.8 13.1 57.0 128.1 36.4 78.4 400.5 685.7 30.2 42.9 103.4 440.7 952.6 885.9 262.9 .4 .8 2.7 6.4 13.9 17.2 <u>11.7</u> (D) 1.6 5.7 13.1 10 to 19 employees _____ 178.5 849.3 250 to 99 employees ______ 100 to 249 employees ______ 250 to 499 employees ______ 635.2 447.6 538.6 1 16.6 19.8 <u>14.3</u> (D) 104 56 353.9 461.8 29.0 34.6 259.8 364.8 532.8 271.9 101.0 168.7 3 1 500 to 999 employees ______ 1,000 to 2,499 employees ______ 358.3 (D) 24.1 (D) 890.8 (D) 18 2 269.2 (D) 1 930.6 (D) 2 314.0 (D) 4 283.2 (D) 87.4 (D) Covered by administrative records²_____ E9 155 .3 5.2 .3 .6 4.0 21.8 28.8 50.5 11.8 1.5 INDUSTRY 2034, DEHYDRATED FRUITS, VEGETABLES, AND SOUPS 155 1 317.9 2 853.1 91.7 Total _____ 13.5 320.8 11.3 21.9 224.4 1 515.0 709.4 Establishments with an average of-1.8 3.9 7.2 38.0 47.9 204.4 162.6 .6 1.6 3.9 11.3 14.3 59.5 43.0 4.0 9.0 24.4 54.2 129.4 .3 .6 1.3 3.1 5.6 31.2 22.1 1 to 4 employees ______ 5 to 9 employees ______ (Z) (Z) 3.3 7.4 7.3 16.4 41.0 .1 .2 .4 1.3 1.7 6.9 4.3 7.0 19 19 2.3 5.8 .1 .2 .7 .8 3.6 2.1
 10
 to 19 employees

 20
 to 49 employees

 50
 to 99 employees

 100
 to 249 employees
 .3 .9 1.1 4.1 16.7 76.7 72.2 E4 15.6 23.7 76.4 65.6 116.5 212.7 29 16 Ē1 25 7 7 268.3 310.0 603.6 250 to 499 employees ______ 500 to 999 employees ______ 2.5 4.5 326.9 276.0 582.7 E1 130.4 3.6 90.1 743.5 510.9 1 272.8 27.5 243.6 Covered by administrative records² 38 .1 1.7 .2 1.2 5.9 7.2 13.2 .5 3.4 E9 .1 INDUSTRY 2035, PICKLES, SAUCES, AND SALAD DRESSINGS E1 376 21.4 531.3 16.3 32.7 347.4 3 749.2 2 651.3 6 398.0 158.8 700.4 Total _____ Establishments with an average of-3.2 7.4 17.5 37.5 56.3 177.2 4.6 9.4 18.7 47.8 73.5 237.6 .8 1.6 2.3 2.1 4.8 23.2 E7 111 .2 .4 1.7 2.3 6.7 .2 .6 21.2 1 to 4 employees _____ .1 .3 .6 1.2 1.7 5.0 <u>7.5</u> (D) 5 to 9 employees ______ 10 to 19 employees ______ 20 to 49 employees ______ 38.4 80.3 E7 55 39.5 F4 58 11 9.6 68.2 78.0 146.4 1.1 2.5 3.5 10.5 E2 E2 E1 53 34 40 21.2 34.1 149.1 216.1 175.9 226.7 322.4 443.0 2 220.9 6.8 12.6 50 to 99 employees 100 to 249 employees 108.5 336.7 885.2 60.6 250 to 499 employees ______ 500 to 999 employees ______ 22 9.4 (D) 232.2 (D) 14.2 (D) 167.1 (D) 916.3 (D) 225.8 (D) <u>3 140.5</u> (D) 74.1 (D) 308.8 (D) 1 3 Covered by administrative records²_____ E9 114 .2 3.5 .2 .3 2.3 20.2 19.0 39.2 .8 5.0 **INDUSTRY 2037, FROZEN FRUITS AND** VEGETABLES Total _____ 255 48.0 917.6 41.5 79.1 678.2 2 910.4 4 613.4 7 535.0 254.8 1 775.9 Establishments with an average of-1 to 4 employees ______ 5 to 9 employees ______ 10 to 19 employees ______ 20 to 49 employees ______ (Z) .1 .2 1.4 2.9 10.1 9.7 15.4 8.3 (Z) .1 .1 .2 .3 2.1 4.7 $\begin{array}{c} 1.2 \\ 5.8 \\ 5.2 \\ 86.7 \\ 146.7 \\ 467.2 \\ 436.9 \\ 460.3 \\ 165.8 \end{array}$ 21 .8 2.9 3.7 30.6 57.0 206.0 194.7 270.8 151.0 2.0 10.1 3.6 12.7 5.6 .2 1.2 .5 1.9 20 13 42 39 22.3 25.0 345.9 1.2 .8 9.0 22.6 62.4 52.5 61.6 44.4 E3 E1 E1 2.3 20.3 39.0 9.0 122.9 16.0 229.1 335.7 .1 1.1 2.4 8.6 8.6 13.5 7.1
 20 to 49 employees

 100 to 249 employees

 250 to 499 employees

 250 to 499 employees

 1,000 to 2,499 employees
 198.5 530.9 653.0 614.8 945.7 354.3 1 341.4 785.1 1 199.2 690.5 1 998.0 1 438.9 2 122.3 1 046.0 62 28 23 7 16.4 16.0 151.3 141.4 Ē1 25.6 13.8 213.1 108.5 Covered by administrative records²-----E9 23 .1 1.1 .1 .1 .8 3.0 5.3 8.3 .3 1.9 INDUSTRY 2038, FROZEN SPECIALTIES, N.E.C. 4 075.9 Total _ 363 46.7 971.5 38.3 73.4 673.6 3 808.9 7 885.7 249.7 582.8 Establishments with an average of -1 to 4 employees ______ 5 to 9 employees ______ 1.5 3.7 10.0 17.2 40.9 99.6 8.1 64 43 53 62 34 52 34 12 9 .1 .3 .8 1.9 2.5 9.3 12.7 8.2 11.0 2.0 5.2 13.7 35.7 55.4 187.2 292.5 155.4 224.4 .1 .2 .6 1.5 1.8 7.2 9.8 7.2 9.7 .2 .5 1.2 2.8 3.8 14.0 20.1 12.8 18.1 1.2 2.8 7.1 17.9 29.4 94.0 175.9 73.7 180.9 19.1 44.5 119.3 179.9 814.4 21.8 55.0 132.6 191.0 1.0 2.6 6.5 9.1
 10
 to 19 employees

 20
 to 49 employees

 50
 to 99 employees

 100
 to 249 employees
 E4 23.0 30.9 123.3 182.3 252.0 369.4 425.0 525.1 Ē3 E2 62.3 67.7 37.4 62.6 608.8 143.5 1 381.2 1 2 116.8 182.1 764.1 745.3 389.2 767.4 625 1 1 021.9 Covered by administrative records²_____ E9 89 .3 4.9 .3 .5 3.6 16.3 18.4 34.7 .c 2.4

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

See footnotes at end of table.

MANUFACTURES-INDUSTRY SERIES

PRESERVED FRUITS AND VEGETABLES 20C-15

TIPS [UPF] BATCH_178 [MCD_SRB,J_SMITH] MCD-SRB 5/11/95 10:34 AM MACHINE: EPCV23 DATA:NONE TAPE: NOreel FRAME: 9 TSF:20C_92.DAT;3 5/11/95 10:31:41 UTF:20C_93.DAT;3 5/11/95 10:31:42 META:TIPS96-10313192.DAT;1 5/11/95 10:33:51

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

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

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

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

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; 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 work	kers	Value added by			New capital
prod- uct class code	Industry or primary product class	estab- lish- ments (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	expend- itures (million dollars)
2032	Canned specialties: All establishments in industry	220	21.0	561.0	17.2	35.5	427.4	3 617.5	3 057.2	6 662.7	274.7
20321 20322 20323 20324	Establishments with this product class primary: Canned baby foods, except cereal and biscuits Canned soups, except frozen or seafood Canned dry beans Other canned specialties and canned nationality	6 8 25	(D) 6.7 4.4	(D) 197.7 99.5	(D) 5.5 3.4	(D) 11.0 7.3	(D) 148.5 73.6	(D) 1 561.5 381.0	(D) 1 369.5 607.7	(D) 2 931.2 987.6	(D) 105.1 26.7
	foods	26	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2033	Canned fruits and vegetables: All establishments in industry	683	63.7	1 466.7	53.2	109.3	1 101.4	6 959.4	8 032.5	15 065.5	445.1
20331 20332 20333 20335 20336 20338 2033A 2033B	Establishments with this product class primary: Canned fruits, except baby foods Canned vegetables, except hominy and mushrooms Canned vegetable juices. Catsup and other tomato sauces, pastes, etc. Jams, jellies, and preserves Canned fruit juices, nectars, and concentrates Fresh fruit juices and nectars, single strength	62 145 11 3 64 29 54 41	14.7 18.7 .9 .1 11.8 3.3 8.3 3.4	313.7 354.6 21.6 2.1 319.3 90.8 231.3 87.1	12.7 16.6 .7 10.2 2.5 5.9 2.6	25.6 34.7 1.6 .1 20.7 5.6 11.6 5.3	241.4 288.5 15.0 1.5 260.0 59.2 138.0 64.1	1 379.3 1 336.8 47.9 4.7 1 764.5 422.1 1 298.4 536.8	1 403.5 1 494.4 144.3 7.0 1 967.3 436.5 1 815.2 547.8	2 781.1 2 843.5 193.0 8.4 3 738.2 857.1 3 160.0 1 099.2	41.4 79.1 1.8 (D) 168.1 25.1 80.1 38.7
2034	Dehydrated fruits, vegetables, and soups: All establishments in industry	155	13.5	320.8	11.3	21.9	224.4	1 515.0	1 317.9	2 853.1	91.7
20342 20343	Establishments with this product class primary: Soup mixes, dried Dried and dehydrated fruits and vegetables (including	13	2.6	75.6	2.2	4.2	57.2	552.1	312.0	862.7	18.4
	freeze-dried)	76	10.3	234.7	8.6	16.8	160.2	933.3	970.3	1 925.1	70.6
2035	Pickles, sauces, and salad dressings: All establishments in industry	376	21.4	531.3	16.3	32.7	347.4	3 749.2	2 651.3	6 398.0	158.8
20352 20353 20354	Establishments with this product class primary: Pickles and other pickled products Prepared sauces (except tomato) Mayonnaise, salad dressings, and sandwich spreads .	62 47 69	7.8 3.7 8.8	155.0 100.9 253.2	6.4 2.7 6.4	12.5 5.4 13.0	103.3 61.3 169.0	653.5 829.1 2 152.0	597.1 499.5 1 442.7	1 251.0 1 325.5 3 594.9	27.5 43.1 83.7
2037	Frozen fruits and vegetables: All establishments in industry	255	48.0	917.6	41.5	79.1	678.2	2 910.4	4 613.4	7 535.0	254.8
20371 20372	Establishments with this product class primary: Frozen fruits, juices, ades, drinks, and cocktails Frozen vegetables	79 112	11.9 35.0	255.0 641.0	9.5 31.0	19.3 58.0	169.6 494.0	772.1 2 081.2	2 310.6 2 218.8	3 102.7 4 291.8	80.1 168.8
2038	Frozen specialties, n.e.c.: All establishments in industry	363	46.7	971.5	38.3	73.4	673.6	4 075.9	3 808.9	7 885.7	249.7
20382 20384	Establishments with this product class primary: Frozen dinners: beef, pork, and poultry pies; and nationality foods Other frozen specialties, n.e.c	152 50	36.3 8.8	736.2 207.7	30.1 6.8	57.4 13.5	519.3 134.4	2 803.8 1 171.2	2 958.9 740.7	5 765.0 1 910.4	192.7 51.8

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

20C–16 PRESERVED FRUITS AND VEGETABLES

MANUFACTURES-INDUSTRY SERIES

TIPS [UPF] BATCH_178 [MCD_SRB,J_SMITH] MCD-SRB 5/11/95 10:34 AM MACHINE: EPCV23 DATA:NONE TAPE: NOreel FRAME: 10 TSF:20C_92.DAT;3 5/11/95 10:31:41 UTF:20C_93.DAT;3 5/11/95 10:31:42 META:TIPS96-10313192.DAT;1 5/11/95 10:33:51

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

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

······································			
Industry	1992	1987	1982
INDUSTRY 2032, CANNED SPECIALTIES			
Total value of shipments	6 662.7	5 350.1	4 140.8
Primary products value of shipmentsSecondary products value of shipments	4 984.4 1 533.2	4 079.3 1 165.3	3 149.8 867.4
Total miscellaneous receipts Value of resales	145.1 114.1	105.4 93.8	123.7 110.6
Contract receipts	(D) (D)	(D)	(D)
Other miscellaneous receipts	(D)	(D)	(D)
Primary products specialization ratio	76	78	78
Value of primary products shipments made in all industries	5 707.6 4 984.4	4 444.1 4 079.3	3 484.6 3 149.8
Value of primary products shipments made in this industry Value of primary products shipments made in other industries	4 984.4 723.2	4 079.3 364.8	334.8
Coverage ratio	87	92	90
INDUSTRY 2033, CANNED FRUITS AND VEGETABLES			
Total value of shipments	15 065.5	11 889.5	9 283.4
Primary products value of shipments	12 701.3	10 318.7	8 010.3
Secondary products value of shipments Total miscellaneous receipts	1 761.9 602.3	1 151.7 419.1	1 036.2 236.9
Value of resales	517.8	360.1	185.6
Contract receipts Other miscellaneous receipts	71.6 12.8	39.1 19.9	41.9 9.3
Primary products specialization ratio	88	90	89
Value of primary products shipments made in all industries	15 174.5	12 244.4	9 255.3
Value of primary products shipments made in this industry Value of primary products shipments made in other industries	12 701.3 2 473.3	10 318.7 1 925.6	8 010.3 1 245.1
Coverage ratio	84	84	87
INDUSTRY 2034, DEHYDRATED FRUITS, VEGETABLES, AND SOUPS			
Teleforder of allowed	0.050.4	4 004 0	4.745.4
Total value of shipments Primary products value of shipments	2 853.1 2 546.3	1 821.9 1 652.3	1 745.1 1 623.7
Secondary products value of shipments	(D) (D)	124.2	95.1
Total miscellaneous receipts Value of resales	(D) 35.2	45.5 32.8	26.2 (D)
Contract receipts	(D)	7.3	16.4
Other miscellaneous receipts	(D) (D)	5.4	(D) 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	2 785.7 2 546.3 239.5	2 079.2 1 652.3 426.9	1 749.2 1 623.7 125.5
Coverage ratio	91	79	93
INDUSTRY 2035, PICKLES, SAUCES, AND SALAD DRESSINGS			
Total value of shipments	6 398.0 5 167.0	5 050.3 3 838.4	4 268.8 2 708.9
Primary products value of shipmentsSecondary products value of shipments	1 119.2	1 068.0	1 284.4
Total miscellaneous receipts	111.7	143.9	275.5
Value of resales Contract receipts	89.4 8.5	134.8	269.5 1.9
Other miscellaneous receipts	13.8	2.7	4.1
Primary products specialization ratio	82	78	68
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	6 531.3 5 167.0 1 364.3	4 479.3 3 838.4 640.9	3 252.7 2 708.9 543.7
Coverage ratio	79	86	83
INDUSTRY 2037, FROZEN FRUITS AND VEGETABLES			
Total value of shipments	7 535.0	6 606.2	5 374.6
Primary products value of shipmentsSecondary products value of shipments	6 864.0 526.4	5 831.0 564.6	4 705.3 339.2
Total miscellaneous receipts	144.6	210.6	330.0
Value of resales	110.1 25.8	146.3 49.7	209.2 (D)
Other miscellaneous receipts	25.8 8.6	49.7	(D) (D)
Primary products specialization ratio	93	91	93
Value of primary products shipments made in all industries	7 415.5	6 253.7	5 062.0
Value of primary products shipments made in at hiodates	6 864.0 551.5	5 831.0 422.6	4 705.3 356.7
Coverage ratio	93	93	93

MANUFACTURES-INDUSTRY SERIES

PRESERVED FRUITS AND VEGETABLES 20C-17

TIPS [UPF] BATCH_178 [MCD_SRB,J_SMITH] MCD-SRB 5/11/95 10:34 AM MACHINE: EPCV23 DATA:NONE TAPE: NOreel FRAME: 11 TSF:20C_92.DAT;3 5/11/95 10:31:41 UTF:20C_93.DAT;3 5/11/95 10:31:42 META:TIPS96-10313192.DAT;1 5/11/95 10:33:51

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

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

Industry	1992	1987	1982
INDUSTRY 2038, FROZEN SPECIALTIES, N.E.C.			
Total value of shipments Primary products value of shipments Secondary products value of shipments Total miscellaneous receipts Value of resales Contract receipts Other miscellaneous receipts	7 885.7 6 978.8 514.6 392.3 377.2 (D) (D)	5 6248 4 912.4 361.3 351.2 334.7 (D) (D)	(NA) (NA) (NA) (NA) (NA) (NA)
Primary products specialization ratio	93	93	(NA)
Value of primary products shipments made in all industries Value of primary products shipments made in this industry Value of primary products shipments made in other industries	7 219.7 6 978.8 240.9	5 252.1 4 912.4 339.7	(NA) (NA) (NA)
Coverage ratio	97	94	(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			
		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)	
2032- —	CANNED SPECIALTIES							
	Total	(NA)	(X)	5 707.6	(NA)	(X)	4 444.1	
20321 20321 00	Canned baby foods, except cereal and biscuits ³ mill b	(NA) 5	(X) (D)	(D) (D)	(NA) (NA)	(X) (NA)	652.0 652.0	
20322 20322 00	Canned soups, except frozen or seafood ³	(NA) 22	(X) (X)	1 986.2 1 986.2	(NA) 19	(X) (X)	(D) (D)	
20323	Canned dry beans ³ Beans with pork. including baked:	(NA)	(X)	1 119.5	(NA)	(X)	895.3	
20323 70	7.1 oz to 13 oz (8 oz short, 8 oz tall, No. 1 picnic, etc.)1,000 cases							
20323 71	of 48 13.1 oz to 22 oz (No. 300, No. 303, No. 2, etc.)1000 cases of 24	5 21	(D) 25 922.1	(D) 256.5	8 (NA)	14 244.3 22 520.4	118.2 251.4	
20323 75	22.1 oz to 27 oz (jumbo, etc.)1,00 cases of 24	4	23 922.1 (D)	(D)	(NA)	401.3	4.7	
20323 76	27.1 oz to 40 oz (No. 2 1/2 quart glass, etc.)1,000 cases of 24	11	3 384.5	44.1	14	3 953.9	56.9	
20323 79	Other sizesBeans with sauce, vegetarian style, including baked:	12	(X)	67.5	17	(X)	65.7	
20323 82	13.1 oz to 18 oz (No. 300, No. 303, etc.)1,000 cases of 24	14	6 747.1	58.9	14	3 963.8	34.9	
20323 84	Other sizesAll other dry beans, including chili con carne	13	(X)	49.8	16	(X)	45.1	
20323 86	containing less than 20 percent meat: 13.1 oz to 18 oz (No. 300, No. 303, etc.)1,000 cases							
20323 91 20323 00	Other sizesCanned dry beans, n.s.k.	24 16 (NA)	36 876.9 (X) (X)	344.2 149.6 .3	25 22 (NA)	22 199.7 (X) (X)	186.3 128.1 3.9	
20324 20324 63	Other canned specialties and canned nationality foods ³	(NA) 10	(X) (X)	(D) (D)	(NA) (NA)	(X) (X)	(D) (D)	
20324 68 20324 91	Chinese foods (bean sprouts, chop suey, etc.)mincemeatmil lb	2	(X) (D)	(D) (D)	5	(X) 8.0	(D) 8.5	
20324 93	Spanish foods (Mexican rice, tortillas, enchiladas, etc.)	13	(X)	129.7	16	(X)	116.7	
20324 94 20324 96	Ravioli Macaroni with or without meat	5 5	(X) (X)	209.9 (D)	6 7	(X) (X)	90.0 (D)	
20324 97 20324 99	Canned gravy Other canned specialties, including canned puddings	6	(X)	(D)	4	(X)	(D)	
20324 00	(other than canned meats) Other canned specialties and canned nationality foods, n.s.k.	27 (NA)	(X) (X)	395.9	25	(X)	309.8 2.4	
20320	Canned specialties, n.s.k.	(NA) (NA)	(X)	1.0	(NA) (NA)	(X) (X)	2.4 145.0	
20320 20320 00 20320 02	Canned specialties, n.s.k. ⁴	(NA) (NA)	(X) (X)	157.8	(NA) (NA) (NA)	(X) (X)	58.5 86.5	

See footnotes at end of table.

20C–18 PRESERVED FRUITS AND VEGETABLES

MANUFACTURES-INDUSTRY SERIES

TIPS [UPF] BATCH_178 [MCD_SRB,J_SMITH] MCD-SRB 5/11/95 10:34 AM MACHINE: EPCV23 DATA:NONE TAPE: NOreel FRAME: 12 TSF:20C_92.DAT;3 5/11/95 10:31:41 UTF:20C_93.DAT;3 5/11/95 10:31:42 META:TIPS96-10313192.DAT;1 5/11/95 10:33:51

[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			companies with			
		shipments of		Value	shipments of		Value	
		\$100,000 or more	Quantity ²	(million dollars)	\$100,000 or more	Quantity ²	(million dollars)	
2033	CANNED FRUITS AND VEGETABLES							
	Total	(NA)	(X)	15 174.5	(NA)	(X)	12 244.4	
20331	Canned fruits, except baby foods ³	(NA)	(X)	2 371.9	(NA)	(X)	2 084.5	
20331 12	Apples1,000 cases (24/2 1/2		()		()	()		
20331 13	s) Applesauce1,000 cases	14	*5 311.3	75.2	14	2 953.3	40.3	
20331 15	(24/ 2 1/ 2) Apricots1,000 cases	16	25 711.9	351.8	18	19 751.1	238.8	
	(24/2 1/2 s)	7	2 089.3	47.4	6	1 321.4	26.3	
20331 22	Cherries, red pitted1,000 cases (24/2 1/2		623.3	12.4	9	560 7	10.1	
20331 24	s) Cherries, sweet1,000 cases (24/2 4/2		023.3	12.4	9	562.7	10.1	
	(24/ 2 1/ 2 s)	10	1 051.3	19.2	12	1 468.5	28.1	
20331 28	Cranberries and cranberry sauce1,000 cases (24/2 1/2		(5)			0.007.0	100 5	
20331 32	s) Fruit cocktail1,000 cases (24/ 2 1/2		(D)	(D)	4	9 937.6	106.5	
20331 34	S) Fruits for salads, including mixed fruits other than fruit	5	15 991.9	282.8	7	15 466.2	277.6	
	cocktail1,000 cases (24/ 2 1/ 2							
20331 36	S) Olives, ripe and green ripe, including stuffed (drained		4 793.7	99.5	8	3 682.7	79.7	
	net weight)1,000 cases (24/ 2 1/2		44,004,0	000 5	10	11,000,0	000.0	
20331 38	S) Peaches, including spiced1,000 cases (24/ 2 1/2	10	11 234.2	283.5	10	11 326.0	280.2	
20331 41	Pears, including spiced1,000 cases	14	30 497.5	502.9	12	23 413.9	368.5	
	(24/21/2 s)	8	13 687.9	205.5	8	11 756.0	185.1	
20331 57	Pineapple (all styles)		8 580.9	151.8	6	(D)	(D)	
20331 59	Other canned fruit							
	S) Canned fruit pie mixes:	19	(D)	(D)	(NA)	(D)	(D)	
20331 61	Apple 1,000 cases (24/ 2 1/ 2		1 363.8	27.4	11	1 244.0	28.4	
20331 63	s) Cherry		1 303.0	27.4	11	1 344.8	20.4	
20331 65	S) Peach1.000 cases	9	3 178.2	68.8	9	2 731.2	62.4	
	(24/2 1/2 s)	6	351.6	8.3	6	219.7	6.0	
20331 69	Other fruit pie mixes1,000 cases (24/ 2 1/ 2		4 000 0	40.0	10	4 400 5	40.0	
20331 00	s) Canned fruits, except baby foods, n.s.k.	13 (NA)	1 633.2 (X)	48.2 12.8	13 (NA)	1 480.5 (X)	40.2 15.1	
20332 20332 03	Canned vegetables, except hominy and mushrooms ³ 1,000 cases	(NA)	(X)	2 694.4	(NA)	(X)	2 297.8	
20332 05	(24/303 s) Beans, green and wax (including blue lake)1,000 cases	9	2 549.2	22.0	8	3 613.7	28.9	
20332 15	(24/303 s) Carrots1.000 cases	25	55 141.1	431.7	28	49 727.9	358.2	
20332 35	(24/303 s) Vegetable combinations (mixed vegetables,		5 540.7	41.5	14	4 652.5	35.0	
	succotash, carrots and peas, vegetable salad, etc.)1,000 cases (24/303 s)	19	11 947.6	119.1	18	9 769.1	85.1	
20332 37	Green peas1,000 cases (24/303 s)		29 448.4	254.6	19	26 807.9	238.5	
20332 39	Other peas (blackeye, crowder, purple hull, field, etc.)1,000 cases							
20332 53	(24/303 s) Pumpkin and squash, including pie mix1,000 cases	6	2 315.2	20.8	4	1 576.6	14.0	
20332 55	(24/ 303 s) SpinachSpinach		(D)	(D)	8	2 535.2	36.1	
20332 74	(24/303 s) Sweet potatoes, including pie mix (24/303 s) (24/303 s)	6	6 089.2 *8 296.8	50.5 87.5	7 11	5 162.4 6 353.9	43.5 65.5	
20332 75	(24/ 303 s) White potatoes1,000 cases (24/ 303 s)		6 487.6	87.5 48.8	11	6 353.9 6 141.8	65.5 46.5	
20332 76	(24/ 303 S) Sauerkraut1,000 cases (24/ 303 s)		6 487.6 6 378.5	48.8	10	6 552.7	40.5 50.3	
20332 91	Asparagus1,000 cases (24/ 303 s)		4 532.7	86.8	13	3 983.2	80.2	
20332 93	Beets1,000 cases (24/303 s)	9	9 442.8	68.7	11	10 050.3	71.8	
20332 94	Sweet corn, whole kernel1,000 cases (24/ 303 s)		68 459.1	515.1	20	56 287.4	437.5	

See footnotes at end of table.

MANUFACTURES-INDUSTRY SERIES

PRESERVED FRUITS AND VEGETABLES 20C-19

TIPS [UPF] BATCH_178 [MCD_SRB,J_SMITH] MCD-SRB 5/11/95 10:34 AM MACHINE: EPCV23 DATA:NONE TAPE: NOreel FRAME: 13 TSF:20C_92.DAT;3 5/11/95 10:31:41 UTF:20C_93.DAT;3 5/11/95 10:31:42 META:TIPS96-10313192.DAT;1 5/11/95 10:33:51

[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)	
2033- —	CANNED FRUITS AND VEGETABLES-Con.							
20332 20332 95	Canned vegetables, except hominy and mushrooms ³ — Con. Sweet corn, cream style1,000 cases							
20332 97	(24/ 303 s) Tomatoes, including stewed1,000 cases	13	14 851.2	116.6	15	12 744.0	101.2	
20332 98	(24/ 303 s) Other canned vegetables1,000 cases	37	58 361.4	538.6	37	45 490.3	427.6	
20332 00	(24/303 s) Canned vegetables, except hominy and mushrooms, n.s.k.	24 (NA)	(D) (X)	(D) 8.5	(NA) (NA)	(NA) (X)	145.7 32.2	
20333		(NA)	(X) (X)	202.0	(NA)	(X) (X)	165.5	
20333 15	Canned hominy and mushrooms ³	8	4 057.2	26.5	()	6 812.0	50.9	
20333 21	Mushrooms1,000 cases (24/ 303 s)	14	5 452.2	175.5	12	4 305.8	114.3	
20333 00	Canned hominy and mushrooms, n.s.k.	(NA)	(X)	-	(NA)	(X)	.4	
20335 20335 15	Canned vegetable juices ³	(NA)	(X)	409.4	(NA)	(X)	310.3	
20335 98	percent tomato juice or moremil gal Other vegetable juicesmil gal	21	125.1 5.2	391.3 17.8	25 6	97.8 2.0	296.5 7.4	
20335 00	Canned vegetable juices, n.s.k.	(NA)	(X)	.3	(NA)	(X)	6.5	
20336 20336 14	Catsup and other tomato sauces, pastes, etc. ³	(NA)	(X)	3 671.6	(NA)	(X)	3 024.4	
20336 15	of 72	15	11 761.5	154.0	13	15 025.3	215.1	
	(12/12 glass)	22	61 227.9	226.0	28	63 660.3	326.0	
20336 22	Catsup: 14 oz to 32 oz1,000 cases of 24	14	31 826.8	485.3	13	31 082.9	482.3	
20336 23	All other sizes, including individual serving sizes1,000 cases (12/12							
20336 31	glass) Spaghetti, pizza, and marinara sauces, with or without other added ingredients, including those with less than 20% meat1,000 cases	22	*48 380.6	462.2	29	44 951.8	405.3	
20336 51	(12/12 glass) 1,000 cases	39	157 034.8	1 315.3	28	78 909.4	552.9	
20336 55	(12/12 glass). Barbecue sauce	16	10 533.0	78.9	22	13 286.3	88.6	
20336 67	(12/12 glass) Tomato pastemil ib	24 21	27 398.1 22 123.8	264.0 575.7	25 (NA)	26 531.6 (NA)	270.4 558.9	
20336 91	I omato pulp and puree1,000 cases (24/303 s)	18	10 732.5	85.4	(147)	15 595.6	113.3	
20336 00	Catsup and other tomato sauces, pastes, etc., n.s.k.	(NA)	(X)	24.8	(NA)	(X)	11.6	
20338	Jams, jellies, and preserves ³ Jams and preserves, pure:	(NA)	(X)	922.3	(NA)	(X)	664.1	
20338 11 20338 12 20338 13	Strawberrymil lb_ Raspberrymil lb_ Othermil lb_	26 14 17	314.1 217.2 67.8	251.7 156.1 46.1	23 	223.5 231.4	156.1 156.2	
20338 21	Jellies, pure: Grapemil lb	21	225.0	153.7	20	180.3	119.7	
20338 25 20338 31	Other millib millib limitation jellies, jams, and preserves millib millibm millib millib millib millib millibm millib millib millib millibm millib millib millib millibm millibm millibm millib millib millib millib millibm millib	26 6	**129.3 56.2	100.8	24 8	84.6 58.2	60.3 50.4	
20338 41 20338 51	Marmaladesmil Ib Fruit buttermil Ib	8 10	*24.3 *56.1	21.7 57.4	8 8	18.9 36.7	15.1 34.7	
20338 61 20338 00	Maraschino cherries, excluding glace and candiedmil gal. Jams, jellies, and preserves, n.s.k.	8 (NA)	9.7 (X)	58.4 32.7	8 (NA)	10.6 (X)	64.6 6.8	
2033A	Canned fruit juices, nectars, and concentrates ³ Juices and nectars, single strength:	(NA)	(X)	3 319.7	(NA)	(X)	2 343.9	
2033A 11 2033A 25	Applemil galmil gal	43 43	232.1 624.6	486.6 1 815.0	34 32	151.4 374.5	355.0 1 196.6	
2033A 31 2033A 41	Grapefruitmil gal_ Prunemil gal_	26 13	54.7 *13.0	182.0	26	67.1 6.8	224.7 24.5	
2033A 78	Other whole fruit juices and mixtures of whole fruit juicesmil gal	38	176.2	510.2	41	118.0	337.7	
2033A 93 2033A 94	Nectarsmil gal Fruit juices, concentrated, hot pack mil gal sngl st	4	*2.5	7.7	5	3.4	10.0	
2033A 00	equiv Canned fruit juices, nectars, and concentrates, n.s.k.	17 (NA)	57.2 (X)	210.1 63.0	15 (NA)	48.3 (X)	177.1 18.3	
2033B	Fresh fruit juices and nectars, single strength ³ Juices and nectars, single strength:	(NA)	(X)	1 213.0	(NA)	(X)	951.4	
2033B 12 2033B 19	Orangemil gal Othermil gal	136 69	251.0 *161.4	540.3 421.4	124 66	223.3 122.2	489.2 377.7	
2033B 21	Concentrated fruit juice, except for fountain use mil gal sngl st equiv	16	*83.6	236.2	19	29.3	84.5	
2033B 00 20330	Fresh fruit juices and nectars, single strength, n.s.k.	(NA) (NA)	(X) (X)	15.0 370.3	(NA) (NA)	(X) (X)	- 402.3	
20330 20330 00 20330 02	Canned fruits and vegetables, n.s.k. Canned fruits and vegetables, n.s.k. ⁷	(NA) (NA) (NA)	(X) (X) (X)	370.3 312.5 57.7	(NA) (NA) (NA)	(X) (X) (X)	402.3 272.6 129.8	

See footnotes at end of table.

20C-20 PRESERVED FRUITS AND VEGETABLES

MANUFACTURES-INDUSTRY SERIES

TIPS [UPF] BATCH_178 [MCD_SRB,J_SMITH] MCD-SRB 5/11/95 10:34 AM MACHINE: EPCV23 DATA:NONE TAPE: NOreel FRAME: 14 TSF:20C_92.DAT;3 5/11/95 10:31:41 UTF:20C_93.DAT;3 5/11/95 10:31:42 META:TIPS96-10313192.DAT;1 5/11/95 10:33:51

[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 sh	nipments ¹	Number of	Product sh	ipments ¹
Product code	Product	companies with shipments of \$100,000	Quantity ²	Value (million	companies with shipments of \$100,000	Quantity ²	Value (million
2034- —	DRIED AND DEHYDRATED FRUITS, VEGETABLES, AND SOUPS	or more	Quantity	dollars)	or more	Quantity	dollars)
	VEGETABLES, AND SOUTS						
	Total	(NA)	(X)	2 785.7	(NA)	(X)	2 079.2
20342 20342 00	Soup mixes, dried Soup mixes, including oriental, dried and dehydrated,	(NA)	(X)	592.4	(NA)	(X)	461.2
20342 00	and freeze-driedmill lb	18	282.2	592.4	17	214.1	461.2
20343	Dried and dehydrated fruits and vegetables (including freeze-dried)	(NA)	(X)	2 124.3	(NA)	(X)	1 544.3
20343 13	Fruits, dried and dehydrated: Raisinsmil lb	10	477.0	434.2	10	349.9	333.7
20343 15 20343 21	Prunesmillb_ Applesmillb_	10 10	*344.6 52.7	305.0 73.0	9	313.4 46.4	265.2 63.3
20343 25	Other dried and dehydrated fruits and fruit peels						
20343 32	including fruit flour, meal, and powdermillb Dried and dehydrated potatoes (except potato flour),	24 10	*123.6 619.0	239.3 470.8	(NA) (NA)	(D) (D)	(D) (D)
	Dried and dehydrated potatoes (except potato flour), not packaged with other ingredientsmill lb Vegetables, dried and dehydrated (except potatoes), including vegetable flour:	10	019.0	470.0		(D)	(D)
20343 37 20343 39	Onionsmil lbmil bmil b	6	184.8	210.3	5	134.0	133.8
20343 00	vegetable flours, including potato flourmil lb Dried and dehydrated fruits and vegetables (including	18	230.7	383.9	(NA)	(D)	(D)
20343 00	freeze-dried), n.s.k.	(NA)	(X)	7.8	(NA)	(X)	'1.2
20340	Dried and dehydrated fruits, vegetables, and soups, n.s.k.	(NA)	(X)	69.0	(NA)	(X)	73.6
20340 00	Dried and dehydrated fruits, vegetables, and soups, n.s.k. ⁸	(NA)	(X)	55.9	(NA)	(X)	11.3
20340 02	Dried and dehydrated fruits, vegetables, and soups, n.s.k. ⁹	(NA)	(X) (X)	13.2	(NA)	(X) (X)	62.3
2035- —	PICKLES, SAUCES, AND SALAD DRESSINGS						
	Total	(NA)	(X)	6 531.3	(NA)	(X)	4 479.3
20352	Pickles and other pickled products ³ Finished pickles and other pickled products:	(NA)	(X)	1 206.9	(NA)	(X)	1 000.2
20352 11	Cucumber:	21	139.2	502.2	26	106.5	392.8
20352 13 20352 15	Dillinger mil gal. Sourmil gal. Sweetmil gal.	7 17	9.8 117.3	38.5 193.6	11 17	12.2 113.7	45.2 164.4
20352 19	Sweetmil ğal Refrigerated pickles, including overnight, half sour, artificially acidified, etcmil gal	17	24.5	85.5	15	27.7	87.8
20352 21	sour, artificially acidified, etc	14	43.2	162.6	(NA)	(10)	(10)
20352 31 20352 33	(mushrooms, peppers, onions, etc.)mil gal Horseradish (excluding sauce)mil galmilsesmil galmilsesmil galmilses	10 20	*2.8 *30.3	19.5 97.6	(NA)	2.Ó	12.7 (¹⁰)
20352 35 20352 39	Sauerkrautmil gal Other finished pickled productsmil gal	7	*4.0 16.1	8.5 37.1	(NA) 41	(10) ¹⁰ 54.1	(10) ¹⁰ 216.0
20352 71	Unfinished pickled products: Unfinished pickles (salt stock)mil gal	7	*17.7	17.8	9	13.9	12.8
20352 75 20352 98	Brined cherriesmil gal Other bulk pickled products, such as mushrooms,	4	3.1	18.4	6	3.2	21.6
20352 00	sauerkraut, etcmil gal Pickles and other pickled products, n.s.k	8 (NA)	8.3 (X)	24.6 1.0	12 (NA)	14.1 (X)	35.6 11.4
20353	Prepared sauces (except tomato) ³ Prepared mustardmil gal	(NA)	(X) 118.7	1 754.3	(NA)	(X) 91.2	903.9
20353 11 20353 51	Other sauces (worcestershire, soy, horseradish, meat,	41		324.0	46	-	258.5
20353 00	vegetable, seafood, etc.)mil gal Prepared sauces (except tomato), n.s.k	104 (NA)	*279.7 (X)	1 412.5 17.8	88 (NA)	156.7 (X)	644.3 1.1
20354	Mayonnaise, salad dressings, and sandwich spreads Spoon type dressing:	(NA)	(X)	3 339.7	(NA)	(X)	2 271.5
20354 11 20354 23	Salad dressingmil gal	49 39	166.7 214.0	852.1 899.4	47 44	107.0 117.1	585.0 508.1
20354 29	Mayonnaisemil gal Other spoon type dressing, including sandwich spreads, refrigerated dressings, and all other	00	214.0	000.4			000.1
20354 35	semisolid type dressingmil gal Pourable dressing (including reduced calorie, cheese,	43	137.3	674.4	33	132.3	679.0
20354 00	vinegar and oil, etc.)	41 (NA)	*182.1 (X)	904.4 9.4	40 (NA)	97.4 (X)	493.1 6.3
20250							
20350 20350 00 20350 02	Pickles, sauces, and salad dressings, n.s.k. Pickles, sauces, and salad dressings, n.s.k. ⁶ Pickles, sauces, and salad dressings, n.s.k. ⁷	(NA) (NA) (NA)	(X) (X) (X)	230.3 185.3 45.0	(NA) (NA) (NA)	(X) (X) (X)	303.7 132.4 171.3
2037- —	FROZEN FRUITS AND VEGETABLES						
	Total	(NA)	(X)	7 415.5	(NA)	(X)	6 253.7
0.		(177)	(^)	. 413.3	(110)	(^)	0 200.1

See footnotes at end of table.

MANUFACTURES-INDUSTRY SERIES

PRESERVED FRUITS AND VEGETABLES 20C-21

TIPS [UPF] BATCH_178 [MCD_SRB,J_SMITH] MCD-SRB 5/11/95 10:34 AM MACHINE: EPCV23 DATA:NONE TAPE: NOreel FRAME: 15 TSF:20C_92.DAT;3 5/11/95 10:31:41 UTF:20C_93.DAT;3 5/11/95 10:31:42 META:TIPS96-10313192.DAT;1 5/11/95 10:33:51

[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]

	in appendixes. For meaning of appreviations and sympols, see introduct		1992		1987			
		Number of	Product s	hipments ¹	Number of	Product sl	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)	
2037	FROZEN FRUITS AND VEGETABLES-Con.			,				
20371	Frozen fruits, juices, ades, drinks, and cocktails ³	(NA)	(X)	2 864.0	(NA)	(X)	2 481.6	
20371 35 20371 41	Frozen fruits: Strawberriesmil lb Red sour cherriesmil lb	20 11	312.2 *106.7	182.8 52.8	17 12	228.5 86.9	126.0 42.9	
20371 55 20371 57	Apples and applesaucemil lb Berries, including blueberries, raspberries,	14	183.3	98.5	9	98.5	53.7	
20371 61	blackberries, etc	15 26	104.3 275.9	93.8 172.6	15 21	64.9 187.6	60.0 109.0	
	Orange juice: Consumer and institutional sizes:							
20371 62 20371 65	6 oz or less1,000 cases of 48 6.1 oz to 12 oz1,000 cases	11	8 122.9	121.2	17	11 966.3	182.2	
20371 66	of 24	15	25 876.7	515.0	11	21 287.5	430.6	
20371 68	of 24 24.1 oz or more1,000 cases	7 11	(S) 5 810.0	132.9 142.3	10 12	8 032.2 6 733.5	164.1 167.5	
20371 69	Bulk 1,000 lb solid Grape juice:	18	428.4	620.0	20	362.5	503.8	
20371 70	4.1 oz to 7 oz1,000 cases of 48	5	1 745.6	17.8	8	1 832.4	18.4	
20371 72	10.1 oz to 13 oz1,000 cases of 24	5	2 709.1	31.3	7	2 499.0	32.1	
20371 74 20371 80	Other sizes1,000 lb solid Grapefruit juice1,000 lb	10	28.9	25.2	5	11.2	11.1	
20371 83	Solid Other frozen fruit and berry juices, concentrated 1,000 lb	17	75.5	135.1	22	68.6	120.1	
	Frozen fruit ades, drinks, and cocktails, concentrated:	19	211.2	273.7	20	183.4	255.1	
20371 85	Lemonade: 4.1 oz to 7 oz1,000 cases of 48	3	(D)	(D)	5	1 641.4	14.8	
20371 86	10.1 oz to 13 oz1,000 cases of 24	7	8 873.5	87.7	7	7 878.7	51.8	
20371 87 20371 94	Other sizes 1,000 lb solid solid 1000 lb	9	32.7	32.8	6	11.3	11.7	
20371 94	All other ades, drinks, and cocktails 1,000 lb solid Citrus pulp 1,000 s	8	93.8	84.8	10	114.9	91.2	
20371 00	tons Frozen fruits, juices, ades, drinks, and cocktails.	11	300.5	30.6	16	310.3	35.2	
20372	n.s.k Frozen vegetables ³	(NA) (NA)	(X) (X)	(D) 4 418.7	(NA) (NA)	(X) (X)	.1 3 645.3	
20372 11 20372 13	Asparagusmil lb Beans: green, regular, and french-cutmil lb	5 17	14.5 305.0	22.0 160.7	6 17	21.1 261.9	30.7 111.1	
20372 21 20372 25 20372 31	Lima beans: baby, emerald, and fordhookmilb Broccolimil b Brussels sproutsmil b	12 14 6	81.6 *172.3 35.4	40.5 90.7 21.2	19 18 9	110.4 330.0 52.8	52.6 174.6 30.2	
20372 33	Carrotsmil lb	21	256.7	78.0	25	272.0	78.0	
20372 35 20372 41 20372 42	Cauliflower mil b Green peas mil lb Spinach mil lb	12 22 10	87.8 310.8 121.6	46.6 153.7 51.6	20 28 18	126.7 375.2 175.3	73.4 153.5 64.8	
20372 45	Vegetable combinations (succotash, peas and carrots, mixed vegetables, vegetables with pasta, etc.)mill lb	21	*786.8	386.3	24	612.8	277.5	
20372 48 20372 49	French-fried potatoesmil lb Other potato products (patties, puffs, etc.)mil lb	13 21	6 146.0 1 018.9	1 841.2 435.0	15 20	4 735.1 905.1	1 465.6 387.8	
20372 53 20372 55	Sweet cut corn, yellowmil lb Sweet cob corn, yellowmil lb	22 13	552.0 332.5	230.4 147.9	24 12	457.7 249.6	192.2 106.3	
20372 61 20372 63	Southern greens: collards, kale, mustard, and turnipmil lb Onions (rings, dices, chopped, etc.)mil lb	5 21	67.1 410.1	21.0 244.3	6 - 47	76.8 725.9	26.4 411.5	
20372 69 20372 00	Other frozen vegetables mil lb Frozen vegetables, n.s.k.	32 (NA)	680.2 (X)	440.7 6.9	(NA)	(X)	9.2	
20370 20370 00	Frozen fruits and vegetables, n.s.k Frozen fruits and vegetables, n.s.k. ⁸ Frozen fruits and vegetables, n.s.k. ⁹	(NA) (NA)	(X) (X) (X)	132.8 101.6	(NA) (NA)	(X) (X)	126.8 81.8	
20370 02	Frozen fruits and vegetables, n.s.k. ⁹	(NA)	(X)	31.1	(NA)	(X)	45.0	
2038	FROZEN SPECIALTIES, N.E.C.							
	Total	(NA)	(X)	7 219.7	(NA)	(X)	5 252.1	
20382	Frozen dinners: beef, pork, and poultry pies; and nationality foods ³	(NA)	(X)	5 334.6	(NA)	(X)	4 103.5	
20382 11 20382 13	With red-meat entreemil lb With poultry entreemil lb	18 16	306.0 406.9	492.5 655.0	- 19	606.3	810.9	
20382 15 20382 19	With pasta entreemil lb With other entreemil lb Frozen entrees and side dishes, excluding rice dishes	14 9	204.4 *119.6	217.1 175.9		000.3	010.9	
20382 21	and nationality foods: With pasta products as major ingredientmil lb	35	339.3	367.5	ا ، ۲	1 146.2	1 339.1	
20382 23 20382 28	With other products as major ingredientmil lb Frozen rice dishesmil lb	24 (NA)	*441.0	644.8		(11)	(11)	
20382 31 20382 35	Frozen beef and pork piesmil lb Frozen poultry piesmil lb	777	57.9 (D)	53.5 (D)	11 10	68.3 ¹¹ 152.7	56.7 ¹¹ 117.0	

See footnotes at end of table.

20C-22 PRESERVED FRUITS AND VEGETABLES

MANUFACTURES-INDUSTRY SERIES

TIPS [UPF] BATCH_178 [MCD_SRB,J_SMITH] MCD-SRB 5/11/95 10:34 AM MACHINE: EPCV23 DATA:NONE TAPE: NOreel FRAME: 16 TSF:20C_92.DAT;3 5/11/95 10:31:41 UTF:20C_93.DAT;3 5/11/95 10:31:42 META:TIPS96-10313192.DAT;1 5/11/95 10:33:51

[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			
Product code		Number of	Product s	hipments ¹	Number of	Product shipments ¹		
	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)	
2038	FROZEN SPECIALTIES, N.E.CCon.							
20382	Frozen dinners: beef, pork, and poultry pies; and nationality roots ³ Con,							
20382 37 20382 38 20382 39 20382 40 20382 43 20382 45 20382 45 20382 49 20382 00	Frozen inationality foods: mil lb_ Tortillas mil lb_ Tamales mil lb_ Pizza mil lb_ Chow mein mil lb_ Choy suey mil lb_ Egg rolls mil lb_ All other frozen nationality foods mil lb_ Frozen dinners: beef, pork, and poultry pies; and mil lb_	11 12 10 38 3 2 8 47	51.6 215.0 72.7 1 046.6 (D) (D) 74.7 502.9	54.5 231.5 81.9 1 424.2 (D) (D) 86.8 684.4	(NA) (NA) 38 (NA) (NA) (NA) (NA)	(NA) (NA) 755.5 (NA) (NA) (NA) (NA)	(NA) (NA) 1 039.4 (NA) (NA) (NA) (NA)	
20302 00	nationality foods, n.s.k.	(NA)	(X)	8.4	(NA)	(X)	۶.6 ^י	
20384 20384 51	Other frozen specialties, n.e.c. ³ Whipped topping (dairy product substitute, dairy or	(NA)	(X)	1 662.6	(NA)	(X)	972.4	
20384 59	nondairy base)mil lbmil bmil bm	10	650.3	446.3	7	341.1	270.3	
20384 63 20384 69	mellorine and similar products	5 19	(X) 463.9	13.4 473.6	4 9	(X) 200.2	7.1 187.3	
20384 00	soups, etcmil lb	48 (NA)	679.5 (X)	714.9 14.3	43 (NA)	420.1 (X)	507.7	
20380 20380 00 20380 02	Frozen specialties, n.e.c., n.s.k Frozen specialties, n.e.c., n.s.k. ⁸ Frozen specialties, n.e.c., n.s.k. ⁹	(NA) (NA) (NA)	(X) (X) (X)	222.5 187.7 34.7	(NA) (NA) (NA)	(X) (X) (X)	176.2 110.7 65.6	

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 ³Data for this product class represent value of production rather than value of shipments. ⁴Typically for establishments with 20 employees or more. ⁵Typically for establishments with less than 20 employees. ⁶Typically for establishments with 10 employees. ⁶Typically for establishments with 15 employees. ⁸Typically for establishments with 15 employees. ⁸Typically for establishments with 15 employees. ⁸Typically for establishments with 15 employees. ⁹Typically fo

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
20321, CANNED BABY FOODS, EXCEPT CEREAL AND BISCUITS			20324, OTHER CANNED SPECIALTIES AND CANNED NATIONALITY FOODS		
United States	(D)	652.0	United States	(D)	(D)
20322, CANNED SOUPS, EXCEPT FROZEN OR SEAFOOD United States	1 986.2	(D)	California Illinois Texas Wisconsin 20331, CANNED FRUITS, EXCEPT BABY	154.0 92.4 85.8 49.1	382.3 165.3 434.9 (NA)
20323, CANNED DRY BEANS			FOODS		
United States	1 119.5	895.3	United States	2 371.9	2 084.5
California Indiana Louisiana North Carolina Texas	67.7 75.3 20.2 46.1 186.1	89.3 118.7 (NA) (NA) 144.7	California Michigan New York South Carolina Washington	1 227.5 166.1 155.7 11.3 222.5	1 086.6 94.3 125.2 (NA) 143.5

See footnotes at end of table.

MANUFACTURES-INDUSTRY SERIES

PRESERVED FRUITS AND VEGETABLES 20C-23

TIPS [UPF] BATCH_178 [MCD_SRB,J_SMITH] MCD-SRB 5/11/95 10:34 AM MACHINE: EPCV23 DATA:NONE TAPE: NOreel FRAME: 17 TSF:20C_92.DAT;3 5/11/95 10:31:41 UTF:20C_93.DAT;3 5/11/95 10:31:42 META:TIPS96-10313192.DAT;1 5/11/95 10:33:51

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	eographic area 1992 value of product shipments product shipments Product class and geographic area		1992 value of product shipments	1987 value of product shipments	
20332, CANNED VEGETABLES, EXCEPT HOMINY AND MUSHROOMS			2033B, FRESH FRUIT JUICES AND NECTARS, SINGLE STRENGTH-Con.		
United States	2 694.4	2 297.8	North Carolina	14.1	11.2
			Ohio Oklahoma	26.6 7.5	15.2 2.4
California Illinois	474.3 161.9	389.7 115.5	Pennsylvania	57.5	155.9
Indiana	49.3	35.2	Tennessee Texas	31.4 30.4	18.4 (NA)
Michigan Minnesota	52.0	47.1	Virginia	9.2	(11A)
	355.7	336.7	Washington	120.9	76.8
North Carolina	26.5	30.3			
Ohio Oregon	41.6	30.9 89.5	20342, SOUP MIXES, DRIED		
Washington Wisconsin	114.3 664.4	83.6 605.9	United States	592.4	461.2
20333, CANNED HOMINY AND MUSHROOMS			20343, DRIED AND DEHYDRATED FRUITS AND VEGETABLES (INCLUDING FREEZE-		
United States	202.0	165.5	DRIED)		
California	14.5	7.0	United States	2 124.3	1 544.3
Pennsylvania	125.1	114.0	California	1 288.5	1 115.6
			Idaho	417.8 19.8	150.2 13.8
20335, CANNED VEGETABLE JUICES			Oregon Washington	77.0	(NA)
United States	409.4	310.3			. ,
California	100.7	89.3	20352, PICKLES AND OTHER PICKLED		
Indiana	20.7	18.4	PRODUCTS		
Pennsylvania	7.3	(NA)	United States	1 206.9	1 000.2
			California	179.6	168.2
20336, CATSUP AND OTHER TOMATO			Illinois	68.9	29.0
SAUCES, PASTES, ETC.			Michigan	290.7	238.3
United States	3 671.6	3 024.4	New York Texas	35.5 7.9	54.3 22.3
California	1 575.5	1 479.1			22.0
Indiana	118.5	48.1	20353, PREPARED SAUCES (EXCEPT		
New Jersey	123.8	152.9	TOMATO)		
New York Ohio	391.5 635.6	256.7 608.1	United States	1 754.3	903.9
Pennsylvania	103.6	94.9			(NIA)
Texas Wisconsin	113.5 48.2	77.3 (NA)	Alabama California	5.0 330.1	(NA) 227.5
	40.2	(10,1)	Illinois	117.7	64.9
20338, JAMS, JELLIES, AND PRESERVES			Louisiana	126.1 80.3	63.5 60.5
			•		
United States	922.3	664.1	New York Ohio	55.8 65.4	41.1 55.4
California	205.1	127.0	Pennsylvania	114.6	73.5
Illinois	12.1	(NA)	Tennessee Texas	7.6 312.8	(NA) 89.8
Kentucky New York	20.3	(NA) 68.6	Washington	7.2	(NA)
Pennsylvania	52.6	50.4	Wisconsin	135.2	(NA)
2033A, CANNED FRUIT JUICES, NECTARS, AND CONCENTRATES			20354, MAYONNAISE, SALAD DRESSINGS, AND SANDWICH SPREADS		
United States	3 319.7	2 343.9	United States	3 339.7	2 271.5
California	265.9	219.2	Alabama California	63.8 514.1	67.4 371.2
Florida Illinois	1 543.6 61.3	1 097.3 92.9	Georgia	230.3	194.2
Michigan	223.8	103.3	Illinois Indiana	912.0 59.6	557.7 (NA)
New Jersey	191.3	148.3	New York	107.8	5 0.5
New York	206.9	67.7	Ohio	97.4	73.7
Ohio	22.5	(NA)			
Pennsylvania Texas	200.4 125.2	97.3 108.7	20371, FROZEN FRUITS, JUICES, ADES, DRINKS, AND COCKTAILS		
	77.1	175.2			
Washington					2 481.6
Wisconsin	24.8	12.8	United States	2 864.0	2 401.0
Wisconšin			California	627.2	381.9
Wisconšin			California Florida	627.2 1 469.2	381.9 1 585.5
Wisconšin 2033B, FRESH FRUIT JUICES AND NECTARS, SINGLE STRENGTH	24.8	12.8	California Florida Maine Michigan	627.2 1 469.2 43.4 34.4	381.9 1 585.5 20.8 77.5
Wisconšin			California Florida Maine Michigan New York	627.2 1 469.2 43.4 34.4 53.7	381.9 1 585.5 20.8 77.5 37.3
Wisconšin 2033B, FRESH FRUIT JUICES AND NECTARS, SINGLE STRENGTH	24.8	12.8	California Florida Maine Michigan	627.2 1 469.2 43.4 34.4	381.9 1 585.5 20.8 77.5
Wisconšin	24.8 1 213.0 16.3 3.0	12.8 951.4 8.5 (NA)	California Florida Maine Michigan New York Oregon Washington	627.2 1 469.2 43.4 34.4 53.7 153.4	381.9 1 585.5 20.8 77.5 37.3 112.0
Wisconšin	24.8 1 213.0 16.3 3.0 190.4	12.8 951.4 8.5 (NA) 97.7	California Florida Maine Michigan New York Oregon	627.2 1 469.2 43.4 34.4 53.7 153.4	381.9 1 585.5 20.8 77.5 37.3 112.0
Wisconšin	24.8 1 213.0 16.3 3.0	12.8 951.4 8.5 (NA)	California Florida Maine Michigan New York Oregon Washington	627.2 1 469.2 43.4 34.4 53.7 153.4	381.9 1 585.5 20.8 77.5 37.3 112.0
Wisconšin	24.8 1 213.0 16.3 3.0 190.4 7.3 16.5	12.8 951.4 8.5 (NA) 97.7 (NA) (NA)	California	627.2 1 469.2 43.4 34.4 53.7 153.4 175.3 4 418.7	381.9 1 585.5 20.8 77.5 37.3 112.0 98.5 3 645.3
Wisconšin	24.8 1 213.0 16.3 3.0 190.4 7.3 16.5 193.1 4.5	12.8 951.4 8.5 (NA) 97.7 (NA) (NA) 69.7 13.7	California	627.2 1 469.2 43.4 34.4 53.7 153.4 175.3	381.9 1 585.5 20.8 77.5 37.3 112.0 98.5
Wisconšin	24.8 1 213.0 16.3 3.0 190.4 7.3 16.5 193.1 4.5 24.6	12.8 951.4 8.5 (NA) 97.7 (NA) (NA) 69.7 13.7 16.2	California Florida Maine Michigan New York Oregon 20372, FROZEN VEGETABLES United States California Idaho Maine	627.2 1 469.2 43.4 34.4 53.7 153.4 175.3 4 418.7 390.6 833.8 80.2	381.9 1 585.5 20.8 77.5 37.3 112.0 98.5 3 645.3 483.1 641.2 97.9 97.9
Wisconsin	24.8 1 213.0 16.3 3.0 190.4 7.3 16.5 193.1 4.5 24.6 8.8	12.8 951.4 8.5 (NA) 97.7 (NA) (NA) 69.7 13.7 16.2 6.5	California	627.2 1 469.2 43.4 34.4 153.7 153.4 175.3 4 418.7 390.6 833.8 80.2 209.8	381.9 1 585.5 20.8 77.5 37.3 112.0 98.5 3 645.3 483.1 641.2 97.9 123.7
Wisconšin	24.8 1 213.0 16.3 3.0 190.4 7.3 16.5 193.1 4.5 24.6 8.8 24.1	12.8 951.4 8.5 (NA) 97.7 (NA) 69.7 13.7 16.2 6.5 18.3	California	627.2 1 469.2 43.4 53.7 153.4 175.3 4 418.7 390.6 833.8 80.2 209.8 210.9	381.9 1 585.5 20.8 77.5 37.3 112.0 98.5 3 645.3 483.1 641.2 97.9 123.7 (NA)
Wisconšin	24.8 1 213.0 16.3 3.0 190.4 7.3 16.5 193.1 4.5 24.6 8.8 24.1 34.3	12.8 951.4 8.5 (NA) 97.7 (NA) (NA) (NA) 69.7 13.7 16.2 6.5 18.3 (NA)	California	627.2 1 469.2 34.4 53.7 153.4 175.3 4 418.7 390.6 833.8 80.2 200.8 210.9 732.5	381.9 1 585.5 20.8 77.5 37.3 112.0 98.5 3 645.3 483.1 641.2 97.9 123.7 (NA) 632.1
Wisconšin	24.8 1 213.0 16.3 3.0 190.4 7.3 16.5 193.1 4.5 24.6 8.8 24.1	12.8 951.4 8.5 (NA) 97.7 (NA) 69.7 13.7 16.2 6.5 18.3	California	627.2 1 469.2 43.4 53.7 153.4 175.3 4 418.7 390.6 833.8 80.2 209.8 210.9	381.9 1 585.5 20.8 77.5 37.3 112.0 98.5 3 645.3 483.1 641.2 97.9 123.7 (NA)

See footnotes at end of table.

20C-24 PRESERVED FRUITS AND VEGETABLES

MANUFACTURES-INDUSTRY SERIES

TIPS [UPF] BATCH_178 [MCD_SRB,J_SMITH] MCD-SRB 5/11/95 10:34 AM MACHINE: EPCV23 DATA:NONE TAPE: NOreel FRAME: 18 TSF:20C_92.DAT;3 5/11/95 10:31:41 UTF:20C_93.DAT;3 5/11/95 10:31:42 META:TIPS96-10313192.DAT;1 5/11/95 10:33:51

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	
20382, FROZEN DINNERS: BEEF, PORK, AND POULTRY PIES; AND NATIONALITY FOODS			20382, FROZEN DINNERS: BEEF, PORK, AND POULTRY PIES; AND NATIONALITY FOODS Con.		
United States	5 334.6	4 103.5	Oregon Pennsylvania	68.3 172.3	(NA) 196.1
Arkansas California Connecticut Florida	420.1 748.8 116.4 16.7	(NA) 429.7 (NA) (NA) 75.1	Texas' Wisconsin 20384, OTHER FROZEN SPECIALTIES, N.E.C.	231.8 374.7	101.3 180.3
Illinois	93.8	/5.1	United States	1 662.6	972.4
Indiana Massachusetts Minnesota New Jersey New York Ohio	9.7 8.5 107.5 138.5 163.3 698.1	60.2 9.7 125.1 134.0 117.1 637.2	California Georgia Illinois Indiana Iowa Texas	194.7 74.7 91.7 52.3 22.7 6.5	95.8 71.6 57.9 (NA) (NA) (NA)

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

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

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

	mars. For meaning of abbreviations and symbols, see introductory text								
Product code	Product class	1992	1991 ¹	1990 ¹	1989 ¹	1988 ¹	1987	1982	1977
2032-	Canned specialties	5 707.6	5 467.1	5 221.6	5 174.0	4 797.6	4 444.1	3 484.6	2 429.0
20321	Canned baby foods, except cereal and biscuits	(D)	857.4	814.1	781.4	727.3	652.0	596.4	401.3
20322	Canned soups, except frozen or seafood	1 986.2	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
20323	Canned dry beans	1 119.5	894.4	920.8	880.2	984.4	895.3	735.3	556.5
20324	Other canned specialties and canned nationality foods	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20320	Canned specialties, n.s.k.	189.8	184.0	180.8	172.3	137.0	145.0	117.8	(NA)
2033- 20331 20332 20333 20335 20336 20338 20338 20338 20338 20338	Canned fruits and vegetables Canned fruits, except baby foods Canned vegetables, except hominy and mushrooms Canned hominy and mushrooms Catsup and other tomato sauces, pastes, etc Jams, jellies, and preserves Canned fruit juices, nectars, and concentrates Fresh fruit juices and nectars, single strength Canned fruits and vegetables, n.s.k.	15 174.5 2 371.9 2 694.4 202.0 409.4 3 671.6 922.3 3 319.7 1 213.0 370.3	16 050.0 2 314.0 2 679.1 220.2 640.9 4 100.9 938.8 3 3 631.2 1 165.6 359.2	15 255.2 2 210.8 2 697.2 209.3 617.7 3 810.4 858.3 3 459.0 979.7 412.6	14 252.0 2 093.6 2 720.0 166.8 565.8 3 631.7 770.8 3 016.6 916.9 369.7	12 836.9 2 000.9 2 324.2 184.6 341.5 3 284.0 697.7 2 604.8 993.3 405.8	12 244.4 2 084.5 2 297.8 165.5 310.3 3 024.4 664.1 2 343.9 951.4 402.3	9 255.3 1 590.6 2 047.2 139.0 270.3 2 174.4 603.0 1 409.9 652.2 368.7	6 621.4 1 289.3 1 650.9 149.8 251.8 1 350.0 396.9 - 1 223.4 309.4
2034- 20342 20343	Dried and dehydrated fruits, vegetables, and soups Soup mixes, dried Dried and dehydrated fruits and vegetables (including freeze- dried)	2 785.7 592.4 2 124.3	2 757.8 596.6 2 051.4	2 640.1 539.4 1 984.8	2 696.8 531.8 2 054.6	2 138.7 476.3 1 588.4	2 079.2 461.2 1 544.3	(NA) 332.8 (NA)	(NA) 224.7 (NA)
20340	Dried and dehydrated fruits, vegetables, and soups, n.s.k. Pickles, sauces, and salad dressings Pickles and other pickled products Prepared sauces (except tomato) Mayonnaise, salad dressings, and sandwich spreads Pickles, sauces, and salad dressings, n.s.k.	69.0	109.8	115.9	110.3	74.0	73.6	91.9	76.9
2035-		6 531.2	6 034.7	5 562.3	5 064.5	4 779.1	4 479.3	3 252.7	2 242.8
20352		1 206.9	1 249.4	1 232.0	1 054.8	1 041.5	1 000.2	694.5	553.2
20353		1 754.3	1 287.3	1 169.4	991.5	983.2	903.9	540.0	261.6
20354		3 339.7	3 198.1	2 853.5	2 710.8	2 436.0	2 271.5	1 815.4	1 292.3
20350		230.1	299.9	307.4	307.3	318.5	303.7	202.7	135.7
2037-	Frozen fruits and vegetables	7 415.5	7 286.2	7 411.9	7 158.6	6 749.3	6 253.7	5 062.0	3 047.2
20371	Frozen fruits, juices, ades, drinks, and cocktails	2 864.0	2 834.7	3 005.3	2 846.5	2 749.5	2 481.6	1 860.4	1 153.5
20372	Frozen vegetables	4 418.7	4 301.0	4 277.1	4 190.8	3 874.7	3 645.3	3 089.7	1 797.9
20370	Frozen fruits and vegetables, n.s.k	132.8	150.4	129.5	121.4	125.1	126.8	111.9	95.8
2038-	Frozen specialties, n.e.c.	7 219.7	7 846.0	7 033.7	6 459.1	5 524.5	5 252.1	3 124.9	(NA)
20382	Frozen dinners: beef, pork, and poultry pies; and nationality foods _	5 334.6	6 252.5	5 580.6	5 070.7	4 356.0	4 103.5	2 356.6	1 297.7
20384	Other frozen specialties, n.e.c.	1 662.6	1 391.9	1 279.1	1 190.9	984.8	972.4	624.3	(NA)
20380	Frozen specialties, n.e.c., n.s.k.	222.5	201.7	173.9	197.4	183.7	176.2	143.8	(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.

MANUFACTURES-INDUSTRY SERIES

PRESERVED FRUITS AND VEGETABLES 20C-25

TIPS [UPF] BATCH_178 [MCD_SRB,J_SMITH] MCD-SRB 5/11/95 10:34 AM MACHINE: EPCV23 DATA:NONE TAPE: NOreel FRAME: 19 TSF:20C_92.DAT;3 5/11/95 10:31:41 UTF:20C_93.DAT;3 5/11/95 10:31:42 META:TIPS96-10313192.DAT;1 5/11/95 10:33:51

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]

	ations and symbols, see introductory text]	1992		1987	
Material code	Material		Delivered cost		Delivered cost
COUE		Quantity ¹	(million dollars)	Quantity ¹	(million dollars)
	INDUSTRY 2032, CANNED SPECIALTIES				
	Materials, ingredients, containers, and supplies	(X)	2 900.4	(X)	2 549.0
	Fresh fruits:				
017411 017511	Oranges	(D)	(D)	7	
017515 017211	Apricots 1,000 s tons	(D)	(D)		
017521 017525	Pears1,000 s tons1,000 s tons	64.9 (D)	17.8 (D)	- 200.3	39.1
017911 017412	Pineapples 1,000 s tons	(D)	(D)		
017021	Other fresh fruits 1,000 s tons	(S)	4.6		
016111	Fresh vegetables: Green peas 1,000 s tons	**12.1	6.2	(S)	1.9
013411 018211	White potatoesnil lbmill bmill bmill bmill bmill bmill bmill bmill b	89.8 (D)	16.2 (D)	90.2 (D)	16.8 (D) 52.4
016141 016131	Tomatoes 1,000 s tons	137.7 (D)	34.5 (D)	206.3 5.3	1.2
016121 016191	Green (snap) or wax beans 1,000 s tons Other fresh vegetables 1,000 s tons	**35.1 *191.6	7.8 61.9	39.1 (D)	7.2 (D)
206011	Sweeteners: Sugar, cane and beet (in terms of sugar solids) 1,000 s tons	**46.3	23.9	48.7	23.6
204604 204611	High fructose corn syrup (HFCS)(in terms of solids) mil lb Crystalline fructose (dry fructose) mil lb	100.3 (D)	13.9 (D)	*87.8	10.4
204612	Dextrose and corn syrup, including corn syrup solids (in terms of dry weight)mil lb	*90.1	16.2	75.1	11.4
201013	Other materials, ingredients, containers, and supplies: Fresh, frozen, and prepared meatsmill b	181.6	194.1	219.3	229.1
201501	Dressed poultry purchased for processing (cooking, smoking, canning, raw-boning, freezing, dehydrating)mil lb	90.7	137.0	54.9	88.4
203411 203413	Dried fruits 1,000 s tons 1,000 s tons1,000 s tons	(D) 227.1	(D) 121.1	(NA) 264.3	(²) 147.8
203348	Concentrated fruit juicesmil gal	3.2	25.9	(NA)	(2)
203701 203702	Frozen fruits (for further processing)mil lbmil l	(D) 183.0	(D) 100.9	(NA) 143.9	(²) 81.6
203361 204110	Tomato paste (24 percent NTSS equivalent)mil lb Wheat flour1,000 cwt	287.8 2 077.7	155.3 19.9	468.0 2 009.1	187.8 20.1
207006 275001	Fats and oils, all types (purchased as such)mil lbmilted labelsmilted labelsmilter	120.0	41.1 54.7	121.7	38.4 47.6
190003	Flexible packaging materials Containers:		39.8		33.0
265001	Paperboard containers, boxes, and corrugated paperboard	(X)	83.2	(X)	91.8
341101 322101	Metal cans, can lids and endsGlass containers	(X) (X) (X)	650.1 139.3	(X) (X) (X)	504.1 147.0
970099	All other materials and components, parts, containers, and supplies		752.4		² 586.9
971000	Materials, ingredients, containers, and supplies, n.s.k. ³	(X)	93.4	(X)	76.3
	INDUSTRY 2033, CANNED FRUITS AND				
	VEGETABLES		7 202 0		E 054 0
	Materials, ingredients, containers, and supplies	(X)	7 293.9	(X)	5 951.0
017411	Fresh fruits: Oranges 1,000 s tons	1 635.0	282.7	1 063.0	230.7
017511 017515	Apples 1,000 s tons Apricots 1,000 s tons	1 194.8 46.5	176.5 12.7	977.9 42.4	111.6 12.3
017211 017521	Grapes 1,000 s tons	511.1 559.9	93.7 132.1	384.1 442.9	82.8 97.5
017525 017911	Pears1,000 s tons Pineapples1,000 s tons	428.2 351.0	95.7 57.6	375.2 362.6	69.3 53.7
017412 017021	Grapefruit 1,000 s tons 000 s tons 1,000 s tons	(D) 385.7	(D) 186.9	267.8 402.5	51.6 156.1
016111	Fresh vegetables: Green peas 1,000 s tons	303.4	79.9	250.7	60.4
013411 018211	White potatoes 1,000 s tons 1,000 s tonsmil lbmil lbmil lbmil lb	118.7 133.3	14.7 94.5	130.8 83.3	19.2 59.7
016141 016131	Tomatoes 1,000 s tons 1,000 s tons 1,000 s tons 1.000 s tons	8 220.2 1 864.7	520.0 143.0	7 414.2 1 686.3	454.4 117.4
016121 016191	Green (snap) or wax beans	528.3 *811.2	86.7 143.1	427.2 946.3	67.8 167.2
206011	Sweeteners: Sugar, cane and beet (in terms of sugar solids) 1,000 s tons	138.8	65.7	126.5	58.7
204604 204611	High fructose corn syrup (HFCS)(in terms of solids)mill lb Crystalline fructose (dry fructose)mill lb	870.7 77.5	119.5 11.8	705.8	82.0 4.4
204612	Dextrose and corn syrup, including corn syrup solids (in terms of dry weight)	651.5	71.2	550.4	56.1
201013	Other materials, ingredients, containers, and supplies: Fresh, frozen, and prepared meatsmillb	1 157.3	33.7	(NA)	/4/
201013 201501	Dressed poultry purchased for processing (cooking, smoking, canning, raw-boning, freezing, dehydrating)mil lb	(D)	(D)	(NA) (NA)	(4)
203411 203413	Dried beans1,000 s tons1,000 s tons	(D) 13.7 **49.7	(D) 16.1 26.5	13.7 32.9	12.8 15.6
203348	Concentrated fruit juicesmil gal	*140.6	635.1	121.8	576.6

See footnotes at end of table.

20C-26 PRESERVED FRUITS AND VEGETABLES

TIPS [UPF] BATCH_178 [MCD_SRB,J_SMITH] MCD-SRB 5/11/95 10:34 AM MACHINE: EPCV23 DATA:NONE TAPE: NOreel FRAME: 20 TSF:20C_92.DAT;3 5/11/95 10:31:41 UTF:20C_93.DAT;3 5/11/95 10:31:42 META:TIPS96-10313192.DAT;1 5/11/95 10:33:51

MANUFACTURES-INDUSTRY SERIES

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

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

		1992	2	1987	
Material code	Material	Quantity ¹	Delivered cost (million dollars)	Quantity ¹	Delivered cost (million dollars)
	INDUSTRY 2033, CANNED FRUITS AND VEGETABLES—Con.				
203701 203702 203361 204110 207006 275001 190003	Other materials, ingredients, containers, and supplies—Con. Frozen fruits (for further processing) Frozen vegetables (for further processing) Tomato paste (24 percent NTSS equivalent) Wheat flour 1,000 cwt. Friste and oils, all types (purchased as such) Printed labels Fexible packaging materials	198.6 55.9 567.6 (D) *95.2 (X) (X) (X)	116.2 22.7 (D) 28.9 87.7 99.2	195.1 34.9 392.2 (NA) 82.3 (X) (X)	96.7 14.7 165.2 (⁴) 18.9 55.9 82.0
265001 341101 322101	Containers: Paperboard containers, boxes, and corrugated paperboard Metal cans, can lids and ends Glass containers	(X) (X) (X)	311.3 1 221.1 531.1	(X) (X) (X)	216.6 1 079.8 448.9
970099 971000	All other materials and components, parts, containers, and supplies	(X) (X)	1 202.8 305.4	(X) (X)	⁴ 892.4 262.0
	INDUSTRY 2034, DEHYDRATED FRUITS, VEGETABLES, AND SOUPS				
	Materials, ingredients, containers, and supplies	(X)	1 212.4	(X)	^r 847.1
016151 016102 017011 203411 204602 206011 267101 267301 265001 970099	Cucumbers 1,000 s tons Other fresh vegetables 1,000 s tons Fresh fruits 1,000 s tons Dried fruits 1,000 s tons Corn syrup	- (D) **167.6 363.8 (D) 28.1 (X) (X) (X) (X) (X) (X)	(D) 40.9 382.8 (D) 13.7 34.4 28.1 84.4 414.9	1 135.9 163.9 311.2 (NA) 4.6 (X) (X) (X) (X) (X) (X)	93.4 45.2 311.3 (⁶) 2.5 (⁶) 88.7 5268.2 5268.2
971000	Materials, ingredients, containers, and supplies, n.s.k. ³	(X)	45.8	(X)	^r 38.1
	Materials, ingredients, containers, and supplies	(X)	2 517.1	(X)	2 344.8
016151 016102 017011 203411 204602	Cucumbers 1,000 s tons Other fresh vegetables 1,000 s tons Fresh fruits 1,000 s tons Dried fruits 1,000 s tons Corn syrup mil lb	*772.4 *269.8 *41.9 *1.8 323.4	181.4 86.6 10.1 1.3 42.9	704.3 246.7 61.5 .4 392.4	160.2 83.4 14.6 .3 43.9
206011 207006 267101 267301 322101 265001	Sugar, cane and beet (in terms of sugar solids) 1,000 s tons Fats and oils, all types (purchased as such) millb Packaging paper and plastics film, coated and laminated Bags; plastics, foil, and coated paper Glass containers. Paperboard containers, boxes, and corrugated paperboard	63.1 1 967.5 (X) (X) (X) (X) (X)	32.0 419.1 35.9 25.0 359.4 68.5	78.3 1 844.7 (X) (X) (X) (X) (X)	32.5 402.8 (⁶⁾ 388.7 59.8
970099 971000	All other materials and components, parts, containers, and supplies	(X) (X) (X)	1 120.9 134.0	(X) (X) (X)	⁶ 985.1 173.5
	INDUSTRY 2037, FROZEN FRUITS AND VEGETABLES				
	Materials, ingredients, containers, and supplies	(X)	4 246.7	(X)	3 347.0
017411 017511 017111 017022	Fresh fruits: 1,000 s tons Oranges 1,000 s tons Apples 1,000 s tons Strawberries 1,000 s tons Other fresh fruits 1,000 s tons	**3 051.2 279.9 117.1 863.6	643.1 65.6 80.1 233.7	2 068.5 183.3 100.3 798.1	423.5 52.1 61.3 229.1
016111 013411 016131 016121 016103 203701 203702	Fresh vegetables: 1,000 s tons Green peas 1,000 s tons White potatoes 1,000 s tons Sweet corn 1,000 s tons Green (snap) or wax beans 1,000 s tons Other fresh vegetables 1,000 s tons Frozen fruits (for further processing) mil Ib Frozen vegetables (or further processing) mil Ib	188.5 6 678.6 896.9 188.6 **1 106.5 190.9 **491.3	47.6 651.7 62.8 43.0 293.5 164.1 194.5	152.2 5 218.0 686.6 119.4 1 019.2 73.3 349.6	36.7 539.5 46.0 26.3 280.0 49.2 131.2
202220 206011 204110	Cheese, natural and process, including (imitation cheese and cheese substitutes) mil lb Sugar, cane and beet (in terms of sugar solids) 1,000 s tons Wheat flour1,000 cwt	17.3 63.2 (S)	26.1 30.5 9.6	(NA) 63.1 (NA)	(⁷) 28.1 (⁷)
207006 203361 190038 201014 349701	Fats and oils, all types (purchased as such)mil lb Tomato paste (24 percent NTSS equivalent)mil lb Poultry; live, fresh, frozen, or preparedmil lb Meat; fresh, frozen, or preparedmil lb Aluminum foil packaging products, converted or rolls and	*422.1 8 2.4 2.6	116.7 .3 3.0 3.0	262.5 (NA) (NA) (NA)	68.3 (7) (7) (7)
267101 267301 265001 341101	sheets		7.5 72.2 19.7 265.5 105.2		(') (') (7) 263.8 119.4

See footnotes at end of table.

MANUFACTURES-INDUSTRY SERIES

PRESERVED FRUITS AND VEGETABLES 20C-27

TIPS [UPF] BATCH_178 [MCD_SRB,J_SMITH] MCD-SRB 5/11/95 10:34 AM MACHINE: EPCV23 DATA:NONE TAPE: NOreel FRAME: 21 TSF:20C_92.DAT;3 5/11/95 10:31:41 UTF:20C_93.DAT;3 5/11/95 10:31:42 META:TIPS96-10313192.DAT;1 5/11/95 10:33:51

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	992	1987		
Material code	Material	Quantity ¹	Delivered cost (million dollars)	Quantity ¹	Delivered cost (million dollars)	
	INDUSTRY 2037, FROZEN FRUITS AND VEGETABLES—Con.					
970099	All other materials and components, parts, containers, and		000 7	00	7040.0	
971000	supplies Materials, ingredients, containers, and supplies, n.s.k. ³	(X) (X)	963.7 144.0	(X) (X)	⁷ 919.9 72.6	
	INDUSTRY 2038, FROZEN SPECIALTIES, N.E.C.					
	Materials, ingredients, containers, and supplies	(X)	3 427.4	(X)	'2 542.6	
017411 017511 017111 017022	Fresh fruits: 1,000 s tons	(D) (D)	(D) (D)	2.5	1.7	
016111 013411 016131 016121 016103 203701	Fresh vegetables: 1,000 s tons Green peas 1,000 s tons White potatoes 1,000 s tons Sweet corn 1,000 s tons Green (snap) or wax beans 1,000 s tons Other fresh vegetables 1,000 s tons Frozen fruits (for further processing)	(D) 42.3 (D) 1 081.5 36.0	(D) 13.4 (D) 237.7 23.5		167.2 ⁽⁸⁾	
203702 202220 206011 204110	Frozen vegetables (for further processing)mil lb_ Cheese, natural and process, including (imitation cheese and cheese substitutes)mil lb Sugar, cane and beet (in terms of sugar solids) 1,000 s tons Wheat flour 1,000 stons	402.1 349.1 32.5 10 218.6	171.2 417.4 18.9 138.2	216.3 260.3 25.9 11 118.9	90.8 295.1 13.8 135.3	
207006 203361 190038 201014 349701	Fats and oils, all types (purchased as such)mil lb Tomato paste (24 percent NTSS equivalent)mil lb Poultry; live, fresh, frozen, or preparedmil lb Meat; fresh, frozen, or preparedmil lb Aluminum foil packaging products, converted or rolls and sheets	259.0 176.2 505.9 438.3 (X)	76.7 67.3 367.9 527.2 13.6	222.9 230.1 343.0 373.2 (X)	49.8 82.5 255.1 458.7 (⁸)	
267101 267301 265001 341101 970099	Packaging paper and plastics film, coated and laminated Bags; plastics, foil, and coated paper Paperboard containers, boxes, and corrugated paperboard Metal cans, can lids and ends. All other materials and components, parts, containers, and	(X) (X) (X) (X)	83.9 34.2 375.7 9.1	XX XX XX	(⁸) (⁸) 288.7 3.8	
971000	Supplies Materials, ingredients, containers, and supplies, n.s.k. ³	(X) (X)	683.7 154.5	(X) (X)	⁸ 606.1 '94.0	

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 203411, 203348, and 203701 were included with material code 970099. ³Total cost of materials of establishments that did not report detailed materials data, including establishments that were not mailed a form. ⁴For 1987, data for material codes 201013, 201501, and 204110 were included with material code 970099. ⁵For 1987, data for material codes 204602, 267101, and 267301 were included with material code 970099. ⁵For 1987, data for material codes 204602, 267101 and 267301 were included with material code 970099. ⁶For 1987, data for material codes 2024011, 203348, 1, 90038, 201014, 349701, 267101, and 267301 were included with material code 970099. ⁶For 1987, data for material codes 20220, 204110, 203361, 190038, 201014, 249701, 267101, and 267301 were included with material code 970099. ⁶For 1987, data for material codes 20220, 204110, 203361, 190038, 201014, 349701, 267101, and 267301 were included with material code 970099. ⁶For 1987, data for material codes 203701, 349701, 267101, 267301, and 267401 were included with material code 970099.

20C-28 PRESERVED FRUITS AND VEGETABLES

Appendix A. Explanation of Terms

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

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

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

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

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

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

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

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

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

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

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

In addition to reports sent to operating manufacturing establishments, information on employment during the payroll period which included March 12 and annual payrolls also was requested of auxiliary units (e.g., administrative offices, warehouses, and research and development laboratories) of multiestablishment companies. However, these figures are not included in the totals for individual industries shown in this report. They are included in the *General Summary* and geographic area reports as a separate category.

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

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

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

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

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

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

The important components of this cost item are (1) all raw materials, semifinished goods, parts, containers, scrap, and supplies put into production or used as operating supplies and for repair and maintenance during the year, (2) electric energy purchased, (3) fuels consumed for heat, power, or the generation of electricity, (4) work done by others on materials or parts furnished by manufacturing establishments (contract work), and (5) products bought and resold in the same condition. (See discussion of duplication of data below.)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

In using inventory data by stage of fabrication for "all industries" and at the two-digit industry level, it should be noted that an item treated as a finished product by an establishment in one industry may be reported as a raw material by another establishment in a different industry. For example, the finished-product inventories of a steel mill would be reported as raw materials by a stamping plant. Such differences are present in the inventory figures by stage of fabrication shown for individual industries, industry groups, and "all manufacturing", which are aggregates of figures reported by establishments in specified industries.

Specialization and coverage ratios. These items are not collected on the report forms but are derived from the data shown in table 5b. An establishment is classified in a particular industry if its shipments of primary products of that industry exceed in value its shipments of the products of any other single industry.

An establishment's shipments include those products assigned to an industry (primary products), those considered primary to other industries (secondary products), and receipts for miscellaneous activities (merchandising, contract work, resales, etc.). Specialization and coverage ratios have been developed to measure the relationship of primary product shipments to the data on shipments for the industry shown in tables 1a through 5a and data on product shipments shown in tables 6a through 6c.

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

Coverage ratio represents the ratio of primary products shipped by the establishments classified in the industry to the total shipments of such products that are shipped by all manufacturing establishments wherever classified.

SECTION 2. ITEMS COLLECTED ONLY ON ASM REPORT FORMS

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

Supplemental labor costs. Supplemental labor costs are divided into legally required expenditures and payments for voluntary programs. The legally required portion consists primarily of Federal old age and survivors' insurance, unemployment compensation, and workers' compensation. Payments for voluntary programs include all programs not specifically required by legislation whether they

were employer initiated or the result of collective bargaining. They include the employer portion of such plans as insurance premiums, premiums for supplemental accident and sickness insurance, pension plans, supplemental unemployment compensation, welfare plans, stock purchase plans on which the employer payment is not subject to withholding tax, and deferred profit-sharing plans. They exclude such items as company-operated cafeterias, in-plant medical services, free parking lots, discounts on employee purchases, and uniforms and work clothing for employees. While the excluded items do benefit employees and all or part of their cost generally is similar to the items covered in the ASM labor costs statistics, accounting records generally do not provide reliable figures on net employee benefits of these types.

Retirements of depreciable assets. Included in this item is the gross value of assets sold, retired, scrapped, destroyed, etc., during 1992. When a complete operation or establishment changed ownership, the respondent was instructed to report the value of the assets sold at the original cost as recorded in the books of the seller. The respondent also was requested to report retirements of equipment or structures owned by a parent company that the establishment was using as if it were a tenant.

Depreciation charges for fixed assets. This item includes depreciation and amortization charged during the year against assets. Depreciation charged against fixed assets acquired since the beginning of the year and against assets sold or retired during the year are components of this category. Respondents were requested to make certain that they did not report accumulated depreciation.

Rental payments. Total rental payments is collected on all census forms. However, the breakdown between rental payments for buildings and other structures and rental payments for machinery and equipment is collected only on the ASM forms. This item includes rental payments for the use of all items for which depreciation reserves would be maintained if they were owned by the establishment, e.g., structures and buildings, and production, office, and transportation equipment. Excluded are royalties and other payments for the use of intangibles and depletable assets, and land rents where separable.

When an establishment of a multiestablishment company was charged rent by another part of the same company for the use of assets owned by the company, it was instructed to exclude that cost from rental payments. However, the book value (original cost) of these companyowned assets was to be reported as assets of the establishment at the end of the year.

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

Depreciable assets. Total value of gross depreciable assets is collected on all census forms. However, the detail for depreciable assets is collected only on the ASM forms. The data encompass all fixed depreciable assets on the books of establishments at the beginning and end of the year. The values shown (book value) represent the actual cost of assets at the time they were acquired, including all costs incurred in making the assets usable (such as transportation and installation). Included are all

buildings, structures, machinery, and equipment (production, office, and transportation equipment) for which depreciation reserves are maintained. Excluded are nondepreciable capital assets, including inventories and intangible assets, such as timber and mineral rights.

The definition of fixed depreciable assets is consistent with the definition of capital expenditures. For example, expenditures include actual capital outlays during the year, rather than the final value of equipment put in place and buildings completed during the year. Accordingly, the value of assets at the end of the year includes the value of construction in progress. In addition, respondents were requested to make certain that assets at the beginning of the year plus new and used capital expenditures, less retirements, equalled assets at the end of the year.

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

Quantity of electric energy consumed for heat and power. Data on the cost of purchased electric energy are collected on all census forms. However, data on the quantity of purchased electric energy are collected only on the ASM forms. In addition, information is collected on the quantity of electric energy generated by the establishment and the quantity of electric energy sold or transferred to other plants of the same company.

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

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

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

Cost of purchased services. ASM establishments were requested to provide information on the cost of purchased services for the repair of buildings and other structures, the repair of machinery, communication services, legal services, accounting and bookkeeping services, advertising, software and other data processing services, and refuse removal. Each of these items reflect the costs paid directly by the establishment, and exclude salaries paid to employees of the establishment for these services.

Included in the cost of purchased services for the repair of buildings and machinery are payments made for all maintenance and repair work on buildings and equipment, such as painting, roof repairs, replacing parts, and overhauling equipment. Such payments made to other establishments of the same company and for repair and maintenance of any leased property also are included. Extensive repairs or reconstruction that were capitalized are considered capital expenditures for used buildings and machinery and are, therefore, excluded from this item. Repair and maintenance costs provided by an owner as part of a rental contract or incurred directly by an establishment in using its own work force also are excluded.

Included in the cost of purchased advertising services are payments for printing, media coverage, and other advertising services and materials.

Included in the cost of purchased software and other data processing services are all purchases by the establishment from other companies. Excluded are services provided by other establishments of the same company (such as by a separate data processing unit).

Included in the cost of purchased refuse removal services are all costs of refuse removal services paid by the establishment, including costs for hazardous waste removal or treatment. Excluded are all costs included in rental payments or as capital expenditures.

Three basic approaches were utilized to produce these statistics.

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

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

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

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

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

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

where:

- NMc = the census value of new capital expenditures for machinery and equipment
- TMEasm = the weighted ASM value of new capital expenditures for machinery and equipment from reporters of the detailed breakout data
- 3. For item 10, cost of purchased services, the estimates were made by simply tabulating weighted data for all the ASM records that reported the item. A response coverage ratio (a measure of the extent to which respondents reported for each item) is shown in table 3c for the types of services. It is derived for each item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight, see appendix B) for those ASM establishments that reported the specific inquiry to the weighted total employment for all ASM establishments classified in the industry.

Appendix B. Annual Survey of Manufactures Sampling and Estimating Methodologies

DESCRIPTION OF SURVEY SAMPLE

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

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

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

This method of assigning measures of size was used in order to maximize the precision (that is, minimize the variance of estimates of the year-to-year change) in the value of product class shipments. Implicitly, it also gave weight differences in employment, value added, and other general statistics, since these are highly correlated with value of shipments. Individual sample selection probabilities were obtained by multiplying each establishment's final measure of size by an overall sampling fraction coefficient calculated to yield a total expected sample size.

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

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

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

DESCRIPTION OF ESTIMATING PROCEDURES

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

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

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

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

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

QUALIFICATIONS OF THE DATA

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

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

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

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

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

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

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

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

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

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

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

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

Appendix C. Product Code Reference Tables

1992	1987	1992	1987	1992	1987	1992	1987
2011B 17 2011B 59	2011B 99 2011B 99	20382 11 20382 13 20382 15	20382 23 20382 23 20382 23	20450 21 20450 25 20450 25 20450 25	20450 67 20450 72 20450 74	20630 09 20630 12 20630 35	20630 07 20630 07 20630 89
20137 20137 41 20137 41	20135 20135 13 20135 17	20382 19 20382 21 20382 23 20382 37	20382 23 20382 26 20382 26 20382 26 20382 53	20450 86 20450 88 20450 89 20450 92	20450 87 20450 87 20450 87 20450 87 20450 93	20630 76 20630 76 20630 91	20630 75 20630 81 20630 89
013B 17	2013B 19	20382 38 20382 39 20382 43 20382 43	20382 53 20382 53 20382 51	20450 95	20450 93 20461 17	20752 97 20752 97	20752 32 20752 98
013B 18	2013B 19	20382 47 20382 49	20382 51 20382 51 20382 51	20461 18 20461 23	20462 49 20461 19	20791 83 20791 85	20791 81 20791 81
0223 01 0223 02	20223 00 20223 00	20382 49 20382 49 20382 49	20382 53 20382 55 20382 57	20461 25 20461 29 20461 29	20461 31 20461 19 20461 34	20824 11 20840 10	20824 00 20840 00
)224 11)224 13	20224 21 20224 21			20461 29	20461 37	20851 15 20851 15	20851 13 20851 19
0238 01 0238 03	20238 11 20238 11	20415 11 20415 11 20415 13 20415 13 20415 13	20415 51 20415 52 20415 53 20415 54	20462 11 20462 11 20462 13	20462 41 20462 47 20462 41	20853 65 20853 65	20853 63 20853 81
0238 05 0238 07 0238 19	20238 11 20238 11 20238 11 20238 11	20415 15 20415 15 20415 17	20415 56 20415 57 20415 60	20462 13 20462 15 20462 15	20462 47 20462 43 20462 47	20864 00 20922 15	20864 10 20922 21
0321 00 0321 00	20321 11 20321 21	20415 19 20415 21 20415 21 20415 21 20415 25	20415 63 20415 66 20415 67 20415 72	20462 17 20462 17	20462 43 20462 47	20922 15 20922 17 20922 18 20922 19	20922 21 20922 21 20922 22 20922 22
0321 00 0321 00 0321 00 0321 00 0321 00	20321 31 20321 51 20321 71 20321 98	20415 25 20415 86 20415 88 20415 88 20415 89 20415 92	20415 74 20415 87 20415 87 20415 87 20415 87 20415 93	20489 41 2048A 12	20489 00 2048A 13	20923 21 20923 21 20923 21 20923 21 20923 23	20923 24 20923 31 20923 33 20923 25
0323 71 0323 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 33
0324 63 0324 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 29 20925 30	20925 31 20925 31 20925 35 20925 32
0331 59 0331 59 0331 59	20331 18 20331 31 20331 97	20431 20431 01 20431 03 20431 05 20431 07 20431 09	20430 20430 11 20430 11 20430 12 20430 12 20430 15	20511 31 20511 33 20511 35 20511 37 20511 41 20511 42	20511 15 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
0332 98 0332 98 0332 98	20332 58 20332 73 20332 99	20431 09 20431 11 20431 13 20431 16 20431 18 20431 19	20430 15 20430 17 20430 17 20430 17 20430 21 20430 21	20512 30 20512 31	20512 33 20512 33	20980 01 20980 02 20980 03 20980 03	20980 21 20980 21 20980 21 20980 21 20980 31
0336 67 0336 67 0336 67	20336 61 20336 63 20336 65	20432	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
0338 12 0338 13	20338 15 20338 15	20432 01 20432 03 20432 05 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 20512 39	20999 45 20999 58 20999 59	20999 41 20999 98 20999 98
0343 25 0343 25 0343 32 0343 32 0343 32 0343 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 20512 42	2099A 2099A 01 2099A 02 2099A 03 2099A 04 2099A 05 2099A 06	20997 20997 81 20997 81 20997 81 20997 85 20997 85 20997 85
0343 39	20343 41 20352 34	20450 11 20450 11 20450 12	20450 51 20450 52	20522 16 20522 17 20522 18 20522 20	20522 19 20522 19 20522 19 20522 19 20522 19	2099B 2099B 01	20997 20997 13
)352 33)352 35)352 39	20352 34 20352 34 20352 34	20450 13 20450 13 20450 15 20450 15	20450 53 20450 54 20450 56 20450 57	20530 20	20530 13	2099B 03 2099B 05 2099B 07 2099B 09	20997 21 20997 31 20997 41 20997 51
0372 63 0372 69	20372 98 20372 98	20450 17 20450 19 20450 21	20450 60 20450 63 20450 66	20530 25 20530 40 20530 50	20530 13 20530 19 20530 19	2099B 11 2099B 13 2099B 19	20997 61 20997 71 20997 98

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

MANUFACTURES-INDUSTRY SERIES

TIPS [UPF] BATCH_1674 [APS_PPGB_C_BROOKS] APS-PPGB 1/ 6/95 8:07 AM MACHINE: MCVX26 DATA:NONE TAPE: NOreel FRAME: 1 TSF:TIPS92-08064702.DAT;1 1/ 6/95 08:06:54 UTF:TIPS93-08064702.DAT;1 1/ 6/95 08:06:55 META:TIPS96-08064702.DAT;1 1/ 6/95 08:07:40

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	20450 66 20450 67 20450 72	20450 21 20450 21 20450 25	20630 07 20630 07 20630 75	20630 09 20630 12 20630 76
20135 20135 13 20135 17	20137 20137 41 20137 41	20382 23 20382 26 20382 26 20382 26 20382 51	20382 19 20382 21 20382 23 20382 43	20450 72 20450 74 20450 87 20450 87 20450 87	20450 25 20450 86 20450 88 20450 88 20450 89	20630 73 20630 81 20630 89 20630 89	20630 76 20630 35 20630 91
2013B 19	2013B 17	20382 51 20382 51 20382 51 20382 51	20382 45 20382 47 20382 49	20450 93 20450 93	20450 92 20450 95	20752 32 20752 98	20752 97 20752 97
2013B 19	2013B 18	20382 53 20382 53 20382 53	20382 37 20382 38 20382 38 20382 39	20461 17 20461 19	20461 18 20461 23	20791 81 20791 81	20791 83 20791 85
20223 00 20223 00	20223 01 20223 02	20382 53 20382 55 20382 57	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
20224 21 20224 21	20224 11 20224 13			20461 37	20461 29	20851 13 20851 19	20851 15 20851 15
20238 11	20238 01	20415 51 20415 52 20415 53	20415 11 20415 11 20415 13	20462 41 20462 41 20462 43	20462 11 20462 13 20462 15	20853 63 20853 81	20853 65 20853 65
20238 11 20238 11 20238 11	20238 03 20238 05 20238 07	20415 54 20415 56 20415 57 20415 60	20415 13 20415 15 20415 15 20415 17	20462 43 20462 47 20462 47 20462 47	20462 17 20462 11 20462 13	20864 10	20864 00
20238 11 20321 11	20238 19 20321 00	20415 60 20415 63 20415 66 20415 67 20415 72	20415 17 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 22	20922 15 20922 17 20922 18 20922 19
20321 21 20321 31 20321 51 20321 71 20321 98	20321 00 20321 00 20321 00 20321 00 20321 00 20321 00	20415 74 20415 87 20415 87 20415 87 20415 93 20415 93	20415 25 20415 25 20415 86 20415 88 20415 89 20415 92 20415 95	20489 00 2048A 13	20489 41 2048A 12	20923 24 20923 25 20923 31 20923 31 20923 33	20923 21 20923 23 20923 21 20923 26 20923 21
20323 73 20323 74	20323 71 20323 71			2048A 13 2048A 13	2048A 12 2048A 19	20923 33 20923 35 20923 35	20923 27 20923 23 20923 29
20324 61 20324 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 35	20925 27 20925 28 20925 30 20925 29 20925 35
20331 18 20331 31 20331 97	20331 59 20331 59 20331 59	20430	20432	20511 15 20511 15 20511 17 20511 17 20511 28 20511 28	20511 31 20511 33 20511 35 20511 37 20511 41 20511 42	20923 33 20952 11 20952 14 20952 17 20952 19	20923 35 20952 00 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	20512 33 20512 33	20512 30 20512 31	20980 21 20980 21 20980 21 20980 21	20980 01 20980 02 20980 03
20336 61 20336 63 20336 65	20336 67 20336 67 20336 67	20430 15 20430 15 20430 17 20430 17 20430 21	20431 09 20431 11 20431 13 20431 16 20431 18	20512 35 20512 35 20512 36 20512 36 20512 36	20512 43 20512 44 20512 50 20512 51	20980 31 20980 31 20980 31 20980 31	20980 04 20980 05 20980 06 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 37 20512 39 20512 39 20512 39 20512 40	20512 60 20512 61 20512 70 20512 71 20512 80	20997 20997 13 20997 21	2099B 2099B 01 2099B 03
20343 18 20343 23 20343 29 20343 31	20343 25 20343 25 20343 32 20343 32 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 20997 71	2099B 05 2099B 07 2099B 09 2099B 11 2099B 13
20343 38 20343 41	20343 39 20343 39	20440 99 20440 99	20440 93 20440 98	20522 19 20522 19	20522 16 20522 17	20997 81 20997 81 20997 81	2099A 01 2099A 02 2099A 03
20352 34 20352 34 20352 34 20352 34 20352 34	20352 21 20352 33 20352 35 20352 39	20450 51 20450 52 20450 53 20450 53 20450 54	20450 11 20450 11 20450 13 20450 13	20522 19 20522 19	20522 18 20522 20	20997 85 20997 85 20997 85 20997 85 20997 98	2099A 04 2099A 05 2099A 06 2099B 19
20372 98 20372 98	20372 63 20372 69	20450 56 20450 57 20450 60 20450 63	20450 15 20450 15 20450 17 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 2. Comparability of Product Classes and Product Codes That Changed: 1987 to 1992

Part 3. Current Industrial Reports by Product Code

[Not applicable for this report]

C-2 APPENDIX C

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.