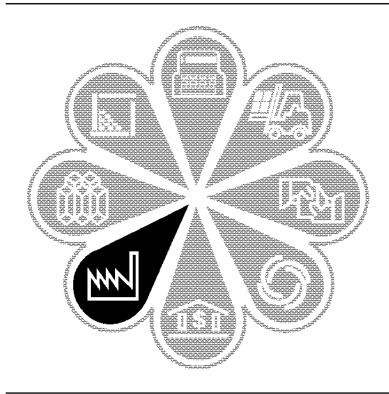
1992 Census of Manufactures

MC92-I-20A

INDUSTRY SERIES

Meat Products

Industries 2011, 2013, and 2015



1992 Census of Manufactures

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Issued December 1994



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

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



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Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

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

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

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

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

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

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

AUTHORITY AND SCOPE

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

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

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

AVAILABILITY OF THE DATA

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

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

WHAT'S NEW IN 1992

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

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

HISTORICAL INFORMATION

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

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

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

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

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

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

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

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

SOURCES FOR MORE INFORMATION

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

Census of Manufactures

GENERAL

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

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

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

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

SCOPE OF CENSUS AND DEFINITION OF MANUFACTURING

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

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

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

RELATIONSHIP BETWEEN ANNUAL SURVEY OF MANUFACTURES AND CENSUS OF MANUFACTURES

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

ESTABLISHMENT BASIS OF REPORTING

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

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

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

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

MANUFACTURING UNIVERSE AND CENSUS REPORT FORMS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

AUXILIARIES

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

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

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

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

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

INDUSTRY CLASSIFICATION OF ESTABLISH-MENTS

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

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

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

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

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

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

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

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

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

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

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

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

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

CENSUS DISCLOSURE RULES

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

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

SPECIAL TABULATIONS

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

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

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

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

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

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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]

											roduct class and product statistics		
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.

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MANUFACTURES-INDUSTRY SERIES

Description of Industries and Summary of Findings

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

SIC code and title

- 2011 Meat Packing Plants
- 2013 Sausages and Other Prepared Meats
- 2015 Poultry Slaughtering and Processing

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 2011, MEAT PACKING PLANTS

This industry is made up of establishments primarily engaged in the slaughtering, for their own account or on a contract basis for the trade, of cattle, hogs, sheep, lambs, and calves for meat to be sold or to be used on the same premises in canning, cooking, curing, and freezing, and in making sausage, lard, and other products. Also included in this industry are establishments primarily engaged in slaughtering horses for human consumption. Establishments primarily engaged in slaughtering, dressing, and packing poultry, rabbits, and other small game are classified in industry 2015; and those primarily engaged in slaughtering and processing animals not for human consumption are classified in industry 2048. Establishments primarily engaged in manufacturing sausages and meat specialties from purchased meats are classified in industry 2013; and establishments primarily engaged in canning meat for baby food 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 2011, Meat Packing Plants, had employment of 122.4 thousand. The employment figure was 7 percent above the 113.9 thousand reported in 1987. Compared with 1991, employment increased 1 percent. The 1991 data are based on the Census Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses.

The leading States in employment in 1992 were lowa, Nebraska, Kansas, and Texas, accounting for approximately 45 percent of the industry's employment. These same States were the leaders in 1987 when they accounted for 40 percent of the industry's employment.

The total value of shipments for establishments classified in this industry was \$50.4 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 2011 shipped \$46.8 billion of meat products considered primary to the industry, \$1.3 billion of secondary products, and had \$2.4 billion of miscellaneous receipts, resales, and contract work. Thus, the ratio of primary products to the total of both secondary and primary products shipped

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.

by establishments in this industry was 97 percent (specialization ratio). In 1987, the specialization ratio was 98 percent.

Establishments in this industry also accounted for 99 percent of products considered primary to the industry no matter where they were actually produced (coverage ratio). In 1987, the coverage ratio was 100 percent.

The products primary to industry 2011, no matter in what industry they were produced, appear in table 6a and aggregate to \$46.8 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 meat packing industry amounted to \$43.6 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 5 percent of the total value of shipments.

INDUSTRY 2013, SAUSAGES AND OTHER PREPARED MEATS

This industry is made up of establishments primarily engaged in manufacturing sausages, cured meats, smoked meats, canned meats, frozen meats, and other prepared meats and meat specialties, from purchased carcasses and other materials. Prepared meat plants operated by packing houses as separate establishments are also included in this industry. Establishments primarily engaged in canning or otherwise processing poultry, rabbits, and other small game are classified in industry 2015. Establishments primarily engaged in canning meat for baby food are classified in industry 2032. Establishments primarily engaged in cutting up and resale of purchased fresh carcasses, for the trade, (including boxed beef) are classified in wholesale trade, industry 5147.

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 2013, Sausages and Other Prepared Meats, had employment of 85.5 thousand. The employment figure was 9 percent above the 78.7 thousand reported in 1987. Compared with 1991, employment increased 7 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 Wisconsin, Texas, Illinois, and California, accounting for approximately 29 percent of the industry's employment. These same States were the leaders in 1987 when they accounted for 30 percent of the industry's employment. The total value of shipments for establishments classified in this industry was \$20.0 billion.

Establishments in virtually all industries ship secondary products as well as products primary to the industry in which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 2013 shipped \$17.3 billion of sausages and prepared meats considered primary to the industry, \$880.8 million of secondary products, and had \$1.8 billion of miscellaneous receipts, resales, and contract work. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in this industry was 95 percent (specialization ratio). In 1987, the specialization ratio was 96 percent.

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

The products primary to industry 2013, no matter in what industry they were produced, appear in table 6a and aggregate to \$17.7 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 sausage and prepared meats industry amounted to \$14.5 billion. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with less than 15 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 12 percent of the total value of shipments.

INDUSTRY 2015, POULTRY SLAUGHTERING AND PROCESSING

This industry is made up of establishments primarily engaged in slaughtering, dressing, packing, freezing, and canning poultry, rabbits, and other small game, or in manufacturing products from such meats, for their own account or on a contract basis for the trade. This industry also includes the drying, freezing, and breaking of eggs. Establishments primarily engaged in cleaning, oil treating, packing, and grading of eggs are classified in wholesale trade, industry 5144; and those engaged in the cutting up and resale of purchased fresh carcasses are classified in wholesale and 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 2015, Poultry Slaughtering and Processing, had employment of 193.8 thousand. The employment figure was 31 percent above the 147.9 thousand reported in 1987. The leading States in employment in 1992 were Arkansas, Georgia, Alabama, and North Carolina, accounting for approximately 46 percent of the industry's employment. These same States were the leaders in 1987 when they accounted for 44 percent of the industry's employment.

The total value of shipments for establishments classified in this industry was \$23.8 billion.

Establishments in virtually all industries ship secondary products as well as products primary to the industry in which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 2015 shipped \$22.7 billion of poultry products considered primary to the industry, \$327.4 million of secondary products, and had \$721.1 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 99 percent (specialization ratio). In 1987, the specialization ratio was 98 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 98 percent.

The products primary to industry 2015, no matter in what industry they were produced, appear in table 6a and aggregate to \$23.5 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 poultry slaughtering and processing industry amounted to \$17.1 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 4 percent of the total value of shipments.

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

[Excludes data for	auxiliaries.	For mean	ing of abbre	eviations an	d symbols, s	ee introduc	tory text. Fo	or explanatio	n of terms, see	appendixes]					
		All establi	ishments ³	All emp	oloyees	Pro	duction wor	kers						Rat	tios
Year ¹	Com- panies ² (no.)	Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufac- ture ⁴ (million dollars)	Cost of materials ⁵ (million dollars)	Value of shipments (million dollars)	New capital expend- itures ⁶ (million dollars)	End-of- year inven- tories ⁴ (million dollars)	Spe- ciali- zation ⁷ (per- cent)	Cover- age ⁸ (per- cent)
						IND	USTRY 20	11, MEAT	PACKING P	LANTS					
1992 Census	1 297	1 387	431	122.4	2 452.8	105.5	228.5	1 956.6	6 928.0	43 586.4	50 434.4	343.2	1 054.3	97	99
1991 ASM	(NA)	(NA)	(NA)	120.8	2 374.6	103.3	220.4	1 833.6	5 957.6	43 311.9	49 326.2	423.0	949.2	(NA)	(NA)
1990 ASM	(NA)	(NA)	(NA)	118.4	2 256.4	100.1	210.9	1 742.9	6 666.5	44 462.7	51 069.2	393.7	995.2	(NA)	(NA)
1989 ASM	(NA)	(NA)	(NA)	117.5	2 225.7	98.4	209.0	1 706.2	5 457.0	41 122.4	46 542.0	365.8	929.0	(NA)	(NA)
1988 ASM	(NA)	(NA)	(NA)	117.8	2 226.5	97.8	205.4	1 703.8	5 700.1	41 700.6	47 333.1	272.0	931.1	(NA)	(NA)
1987 Census	1 328	1 434	503	113.9	2 162.4	93.9	197.6	1 634.7	5 266.9	40 302.9	45 536.6	246.1	832.2	98	100
1986 ASM	(NA)	(NA)	(NA)	119.0	2 211.0	96.0	200.4	1 661.5	5 692.8	36 680.2	42 384.5	258.9	830.9	(NA)	(NA)
1985 ASM	(NA)	(NA)	(NA)	122.2	2 252.9	98.7	201.4	1 708.1	5 859.4	36 637.2	42 553.5	249.9	856.0	(NA)	(NA)
1984 ASM	(NA)	(NA)	(NA)	124.9	2 327.8	102.0	211.2	1 765.5	5 527.9	38 738.3	44 277.7	273.4	932.3	(NA)	(NA)
1983 ASM	(NA)	(NA)	(NA)	126.4	2 401.2	102.4	213.8	1 838.0	5 327.1	37 507.7	42 774.6	278.0	940.8	(NA)	(NA)
1982 Census	1 658	1 780	668	134.4	2 549.3	108.5	220.2	1 995.9	5 824.6	39 048.6	44 853.6	290.0	891.6	98	99
1981 ASM	(NA)	(NA)	(NA)	135.3	2 585.7	108.4	225.1	2 014.5	5 292.3	39 235.8	44 570.0	330.3	908.8	(NA)	(NA)
1980 ASM	(NA)	(NA)	(NA)	142.9	2 553.0	114.9	238.8	1 984.4	5 260.4	37 762.5	42 962.0	299.7	996.5	(NA)	(NA)
1979 ASM	(NA)	(NA)	(NA)	146.5	2 419.6	117.5	241.3	1 887.4	5 156.1	38 073.1	43 191.3	234.8	964.6	(NA)	(NA)
1978 ASM	(NA)	(NA)	(NA)	147.3	2 244.1	119.5	243.3	1 747.6	4 411.1	33 963.5	38 198.7	230.9	892.5	(NA)	(NA)
1977 Census	2 403	2 590	737	146.2	2 110.6	116.5	237.2	1 625.9	4 010.1	27 239.1	31 208.2	236.7	700.1	98	99
	INDUSTRY 2013, SAUSAGES AND OTHER PREPARED MEATS														
1992 Census	1 129	1 264	623	85.5	2 026.3	65.7	139.9	1 353.3	5 491.3	14 455.0	19 972.4	379.7	1 058.1	95	98
1991 ASM	(NA)	(NA)	(NA)	79.6	1 833.4	59.0	126.0	1 172.6	5 045.6	13 270.5	18 361.3	326.3	933.1	(NA)	(NA)
1990 ASM	(NA)	(NA)	(NA)	81.7	1 839.7	61.2	129.4	1 177.0	5 315.7	13 485.1	18 779.7	363.9	996.9	(NA)	(NA)
1989 ASM	(NA)	(NA)	(NA)	81.3	1 747.5	61.5	126.2	1 123.9	5 040.2	12 553.0	17 515.5	304.5	1 007.5	(NA)	(NA)
1988 ASM	(NA)	(NA)	(NA)	81.5	1 692.2	61.9	126.9	1 128.5	4 824.1	12 464.8	17 257.7	261.2	953.7	(NA)	(NA)
1987 Census	1 207	1 343	650	78.7	1 612.2	59.5	121.1	1 074.9	4 457.0	12 085.9	16 553.3	252.5	841.4	96	98
1986 ASM	(NA)	(NA)	(NA)	68.5	1 327.1	52.5	104.5	908.0	3 844.5	9 524.1	13 354.2	232.4	723.7	(NA)	(NA)
1985 ASM	(NA)	(NA)	(NA)	64.6	1 237.2	49.4	98.3	851.4	3 705.1	8 737.3	12 405.7	210.6	685.7	(NA)	(NA)
1984 ASM	(NA)	(NA)	(NA)	62.9	1 185.1	48.3	95.5	816.6	3 379.4	9 003.2	12 360.8	173.2	665.3	(NA)	(NA)
1983 ASM	(NA)	(NA)	(NA)	65.7	1 231.9	50.1	100.3	852.6	3 072.6	9 323.5	12 365.7	157.5	642.3	(NA)	(NA)
1982 Census	1 193	1 311	613	65.5	1 206.2	49.8	98.1	851.7	2 900.9	9 379.1	12 277.5	175.5	632.9	97	99
1981 ASM	(NA)	(NA)	(NA)	62.4	1 113.5	47.6	93.8	786.0	2 692.1	8 176.3	10 886.5	163.4	548.5	(NA)	(NA)
1980 ASM	(NA)	(NA)	(NA)	64.2	1 064.1	48.8	95.0	753.2	2 643.1	7 895.3	10 505.5	159.0	569.3	(NA)	(NA)
1979 ASM	(NA)	(NA)	(NA)	62.0	957.0	46.6	92.9	672.1	2 364.8	7 454.9	9 830.1	136.5	502.5	(NA)	(NA)
1978 ASM	(NA)	(NA)	(NA)	62.3	918.4	48.6	97.7	652.7	2 201.6	7 447.6	9 577.7	150.0	508.2	(NA)	(NA)
1977 Census	1 213	1 345	570	65.0	891.9	50.1	100.4	626.6	2 039.0	6 445.2	8 465.4	151.6	406.4	97	99
					INDU	STRY 201	5, POULT	RY SLAU	GHTERING A	ND PROCES	SING				
1992 Census	372	591	432	193.8	3 091.5	172.8	341.5	2 518.4	6 656.5	17 066.7	23 757.1	466.4	832.3	99	97
1991 ASM	(NA)	(NA)	(NA)	189.6	2 817.1	168.0	323.9	2 255.7	6 472.5	15 237.4	21 703.4	586.6	805.1	(NA)	(NA)
1990 ASM	(NA)	(NA)	(NA)	176.8	2 596.8	157.6	313.9	2 082.0	6 452.3	14 507.7	20 927.6	497.6	761.2	(NA)	(NA)
1989 ASM	(NA)	(NA)	(NA)	163.8	2 313.5	147.1	286.5	1 870.6	5 886.2	14 409.1	20 282.9	499.8	686.7	(NA)	(NA)
1988 ASM	(NA)	(NA)	(NA)	155.7	2 131.3	139.0	271.3	1 730.1	4 636.6	12 013.2	16 597.7	347.8	631.3	(NA)	(NA)
1987 Census	284	463	381	147.9	1 926.1	131.7	252.8	1 565.1	4 118.4	10 835.4	14 912.4	387.4	536.5	98	98
1986 ASM	(NA)	(NA)	(NA)	129.7	1 595.3	115.4	216.4	1 299.5	3 994.4	9 555.6	13 528.9	364.2	473.1	(NA)	(NA)
1985 ASM	(NA)	(NA)	(NA)	116.5	1 391.9	105.0	199.7	1 145.1	3 394.8	8 803.4	12 179.0	256.0	423.9	(NA)	(NA)
1984 ASM	(NA)	(NA)	(NA)	112.2	1 298.5	100.5	190.6	1 067.5	2 918.6	9 024.5	11 939.4	168.2	425.1	(NA)	(NA)
1983 ASM	(NA)	(NA)	(NA)	116.2	1 274.4	104.4	197.5	1 042.9	2 679.3	8 571.1	11 251.6	172.7	453.9	(NA)	(NA)
1982 Census 1981 ASM 1980 ASM 1979 ASM 1978 ASM 1977 Census	(NA) (NA) (NA) (NA) (NA)	532 (NA) (NA) (NA) (NA) 599	401 (NA) (NA) (NA) (NA) 408	117.7 119.6 117.7 108.7 102.3 97.9	1 237.1 1 162.2 1 060.6 912.4 796.6 699.1	106.2 108.8 105.5 97.6 92.7 87.5	199.6 199.7 196.4 183.6 173.0 162.2	1 009.9 974.7 878.8 747.7 656.6 564.4	2 276.8 2 174.6 2 114.3 1 921.0 1 904.7 1 428.9	8 170.5 8 331.4 7 414.9 6 732.4 5 917.9 5 189.7	10 471.1 10 452.5 9 487.0 8 617.3 7 779.5 6 602.7	231.1 204.2 191.2 178.1 170.8 144.4	440.1 486.6 414.5 380.2 345.0 273.1	(NA) (NA) (NA) (NA) (NA) (NA)	(NA) (NA) (NA) (NA) (NA) (NA)

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

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

chapter. ²For the Census, a company is defined as a business organization consisting of one establishment or more under common ownership or control. ³Includes establishments with payroll at any time during the year. ⁴Beginning in 1982, all respondents were requested to report their inventories at cost or market prior to adjustment to LIFO cost. This is a change from prior years when respondents were permitted to value their inventories using any generally accepted accounting method. Consequently, 1982 data for inventories and value added by manufacture are not comparable to prior-year data. ⁵Cost of materials is the sum of five components: the cost of (1) parts used in the manufacture (3) fuels; (4) electricity; and (5) commissions or fees to outside parties for contract manufacturing. A separate cost for each of the five components is shown in table 3a. Detailed data on materials consumed by type, are shown in table 7. ⁶Detailed data on new machinery and equipment expenditures are provided in table 3c. ⁷Represents ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for establishments, wherever classified. ⁸Represents ratio of primary products shipped by establishments classified in industry to total shipments of such products by all manufacturing establishments, wherever classified.

MANUFACTURES-INDUSTRY SERIES

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

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 employee (dollars) of production workers value of shipments percent of value added per production worker hour total value of Value added employment workers (dollars) shipments per employee (dollars) (percent) (number) (percent) (percent) (percent) (dollars) **INDUSTRY 2011, MEAT PACKING PLANTS** 20 039 19 657 19 057 18 942 1992 Census_____ 1991 ASM _____ 1990 ASM ______ 1989 ASM _____ 2 166 2 134 2 107 2 124 2 100 30.32 27.03 31.61 26.11 8.56 8.32 8.26 8.16 56 601 49 318 86 86 35 40 34 41 39 86 85 84 83 88 87 88 93 91 93 93 56 305 46 443 1988 ASM 18 901 8.30 88 48 388 27.75 1987 Census 1986 ASM ______ 1985 ASM ______ 1984 ASM ______ 2 104 2 087 2 041 2 071 2 088 26.65 28.41 29.09 18 985 82 81 8.27 89 93 92 46 24 41 18 580 18 436 18 637 18 997 47 839 47 949 8.29 87 39 81 82 81 86 87 88 38 42 45 8.48 91 8.36 8.60 44 259 42 145 26.17 24.92 93 93 1983 ASM _____ 1982 Census..... 1981 ASM 1980 ASM 1979 ASM 1978 ASM 1977 Census..... 2 029 2 077 2 078 2 054 2 036 2 036 26.45 23.51 22.03 21.37 18.13 16.91 18 968 19 111 17 866 9.06 8.95 8.31 7.82 87 88 88 43 338 39 115 36 812 81 80 80 80 81 80 93 94 94 94 95 94 44 49 49 47 51 53 16 516 15 235 14 436 35 195 29 946 27 429 88 89 87 7.18 INDUSTRY 2013, SAUSAGES AND OTHER PREPARED MEATS 1992 Census..... 1991 ASM 1990 ASM 1989 ASM 1988 ASM 23 699 23 033 22 518 21 494 39.25 40.04 41.08 39.94 2 129 2 136 2 114 2 052 2 050 129 136 114 052 64 226 63 387 65 064 61 995 37 36 35 35 35 77 74 75 76 76 9.67 72 72 72 72 72 72 83 9.31 9.10 8.91 82 82 82 82 82 20 763 8.89 59 191 38.01 1987 Census 1986 ASM ______ 1985 ASM ______ 1984 ASM ______ 2 035 1 990 1 990 1 977 2 002 56 633 56 124 57 354 36.80 36.79 37.69 20 485 76 77 76 77 76 8.88 83 73 71 70 73 75 36 35 33 35 40 19 374 19 152 8.69 81 8.66 80 18 841 18 750 8.55 53 727 46 767 35.39 30.63 82 85 1983 ASM _____ 8.50 1982 Census..... 1981 ASM 1980 ASM 1979 ASM 1978 ASM 1977 Census..... 18 415 17 845 16 575 15 435 14 742 13 722 1 970 1 971 1 947 1 994 2 010 2 004 8.68 8.38 7.93 7.23 6.68 6.24 44 289 43 143 41 170 38 142 35 339 31 369 29.57 28.70 27.82 86 85 85 76 76 75 78 77 76 75 75 76 78 76 42 41 40 40 42 44 86 87 87 25.46 22.53 20.31 INDUSTRY 2015, POULTRY SLAUGHTERING AND PROCESSING 1992 Census_____ 1991 ASM _____ 1990 ASM ______ 1989 ASM ______ 72 70 34 347 34 138 46 44 40 19.49 15 952 89 976 7.37 14 858 14 688 14 124 13 689 89 1 928 6.96 83 19.98 36 495 35 935 29 779 1 992 1 948 1 952 89 90 89 6.63 69 82 20.56 6.53 6.38 20.55 17.09 71 72 82 85 39 46 -----1988 ASM _____ 1987 Census..... 1986 ASM 1985 ASM 1984 ASM 13 023 12 300 11 948 11 573 920 875 902 73 71 72 76 27 846 30 797 29 140 16.29 18.46 17.00 6.19 89 89 90 90 90 1 86 17 82 40 6.01 1 5.73 84 41 897 5 60 86 26 012 44 15 31 1983 ASM _____ 10 967 1 892 5.28 76 88 23 058 48 13.57 1982 Census_____ 1981 ASM _____ 1980 ASM _____ 1979 ASM _____ 10 511 9 717 9 011 19 344 18 182 17 963 879 5.06 78 90 54 11 41 90 91 90 90 91 1 80 78 78 835 862 4.88 53 50 47 10.89 91 89 8 394 1 881 4.07 89 17 672 10.46 1978 ASM ______ 1977 Census_____ 7 787 866 3.80 76 79 86 89 18 619 42 11 01 7 141 89 854 3.48 14 596 49 8.81

[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.

20A-8 MEAT PRODUCTS

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

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

							199							1987
		All estab	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 2011, MEAT PACKING PLANTS														
United States	-	1 387	431	122.4	2 452.8	105.5	228.5	1 956.6	6 928.0	43 586.4	50 434.4	343.2	113.9	5 266.9
Alabama	E6 E1 E1 E1 E3 E1 E1 E3 E1 E1 E7 E1 E6	26 12 22 73 400 24 35 6 6 6 13 82 42 63 44 428 28 24 28 42 63 49 25 49 23 48 144 10 41 25 57 7 42	$\begin{array}{c} 5 \\ 4 \\ 4 \\ 27 \\ 12 \\ 10 \\ 13 \\ 2 \\ 5 \\ 28 \\ 15 \\ 30 \\ 30 \\ 14 \\ 111 \\ 6 \\ 4 \\ 14 \\ 10 \\ 6 \\ 6 \\ 2 \\ 22 \\ 5 \\ 5 \\ 5 \\ 4 \\ 5 \\ 5 \\ 5 \\ 5 \\ 15 \\ 2 \\ 2 \\ 19 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ $.7 F E 3.5 5.1 .4 2.1 F 7.0 3.4 16.9 12.3 2.2 E .3 5.6 H 1.7 .1 1.37 .3 .3 5.6 H 1.77 .1 2.2 2 2.2 E 2.3 5.6 H 2.1 2.2 E E 2.3 5.6 5.1 5.1 2.2 2 E E 2.3 5.6 5.1 5.1 2.2 2 5.6 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1	12.0 (D) 79.9 37.5 3.3 (D) 137.9 68.0 340.8 221.2 47.1 (D) 4.7 46.8 112.1 (D) 30.4 1.5 276.6 8.2 276.6 8.2 (D) 6.6 56.4 (D) 70.0 (D)	.5 (D) (D) 2.9 4.5 3 3 1.6 6.2 2.9 14.9 14.9 14.9 2.0 2.0 0 14.9 14.9 14.9 14.9 14.9 14.9 14.9 14.9	8 (D) (6.6.9 9.7 3.5 3.3 (D) 13.1 5.6 33.3 24.1 3.0 5.5 4.4 8.6 0.3 2 27.3 5.0 6.6 8 4.0 3.2 27.3 5.0 6.6 8 4.0 3.2 27.3 5.0 0 2,7 3.5 5.0 2,7 5.0 10 10 10 10 10 10 10 10 10 10 10 10 10	6.6 (D) (D) 90.2 2.5 2.5 (D) 113.0 52.7 285.1 192.9 31.8 (D) 3.5 38.0 88.1 (D) 2.5.1 (D) 3.5 38.0 (D) 4.9 2.5 (D) 3.1 8.8 (D) 4.9 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	47.0 (D) (D) 156.1 266.8 8.3 69.8 4.3 (D) 317.6 103.7 918.1 446.3 84.6 (D) 9.0 104.0 671.1 (D) 32.6 1.9 1.192.2 1.192.2 1.192.5 1.20.1 (D) 17.5 120.1 (D) 166.8 (D)	71.6 (D) (D) 1 181.6 2 558.0 75.7 396.8 19.2 (D) 2 313.1 5 198.7 5 819.0 440.5 (D) 440.5 (D) 440.5 (D) 434.2 1 898.2 (D) 434.2 14.5 7 172.0 58.6 (D) 73.0 520.6 (D) 601.8 (D)	118.0 (D) (D) 1 338.9 2 809.6 84.1 468.5 23.5 (D) 2 623.9 829.6 6 111.8 6 254.2 522.4 (D) 57.0 829.2 2 566.9 (D) 463.4 16.4 8 345.8 76.2 (D) 90.8 639.5 (D) 90.770.3 (D)	(D) 7. (D) 27.4 14.5 4.6 (D) 8.4 6.3 29.8 14.8 3.3 (D) 10.3 (D) 16.3 3.2 (D) 10.2 (D) 16.3 3.2 (D) 10.2 (D)	1.0 F F 3.3 H 2.2 2 .8 5.7 H 12.8 5.7 H 12.8 1.9 2.5 1.8 1.9 2.5 1.8 NA) 9.8 E F 8 2.6 C H 7	30.5 (D) (D) 162.0 (D) 15.1 58.8 6.6 46.5 266.4 (D) 582.9 518.0 (D) 582.9 518.0 (D) 9.4 92.5 513.0 (D) 137.6 82.6 (NA) 512.2 (D) (D) 27.1 75.3 (D) (D) 19.9
Oregon	E1 E8 - - - E4	42 20 68 27 16 26 109 17 22 23 3 16 46	4 27 8 6 32 4 6 7 2 16	.3 4.3 G 3.8 1.0 11.9 G H 1.9 .1 3.1	(D) 7.1 108.5 (D) 77.4 18.6 221.4 (D) (D) 35.8 1.4 67.7	(D) .2 3.5 (D) 3.5 .7 10.7 (D) (D) 1.7 .1 2.7	(D) .5 7.3 (D) 7.3 1.6 24.0 (D) 3.7 5.3	(D) 5.1 77.6 (D) 69.1 12.4 188.1 (D) (D) 29.9 1.1 48.8	(b) 219.1 (D) 286.4 79.4 551.5 (D) (D) 75.6 1.2 298.6	(b) 65.3 1 423.2 (D) 981.9 171.0 5 158.8 (D) (D) 1 051.7 8 8 8 1 282.7	(b) 79.7 1 642.4 (D) 1 266.3 250.2 5 700.5 (D) 0 (D) 1 131.0 1 0.0 1 584.2	(D) 24.1 (D) 4.1 2.7 33.9 (D) 1.1 (D) .1 7.7	5 3.6 1.0 H 2.55 12.7 G 4.5 2.0 C 3.2	27.3 161.5 31.6 (D) 101.4 253.4 (D) 210.5 79.5 (D) 191.8
United States	E6 E1 E3 E2 E5 E1 E1 E1 E5 E1 E5 E1 E5 E1 E5 E1	1 264 12 6 129 255 15 4 33 36 155 85 19 29 23 21 25 7 20 31 40 22 9 30 4 41 48 88 48 48 5	623 4 4 63 9 7 7 3 14 14 4 4 3 48 8 8 17 13 17 6 3 9 9 13 25 12 2 13 16 2 2 2 2 2 2 2 2 2 2	85.5 .7 G 5.5 .3 .2 .4 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7	2 026.3 11.9 (D) 136.4 (D) 8.6 (D) 52.0 54.4 3.5 (D) 160.3 37.1 119.2 (D) 110. (D) 23.9 34.7 (D) 32.2 (D) 34.4 44.1 (D) 63.2 (D) 53.4 44.1 (D) 65.9 52.6 (D) 53.4 44.1 (D) 65.9 52.6 (D) 53.4 (D) 65.9 52.6 (D) 53.4 (D) 53	65.7 (D) (A) (D) (C) (C) (C) (C) (C) (C) (C) (C	139.9 1.1 (D) 8.5 (D) 3.9 4.9 3.9 (D) 9.5 2.3 7.9 (D) 8.0 (D) 9.5 2.3 7.9 (D) 8.0 1.9 4.9 3.9 4.9 3.9 4.9 3.9 1.8 (D) 3.9 4.9 3.9 1.8 (D) 3.9 4.9 3.9 1.8 (D) 3.9 4.9 3.9 1.8 (D) 3.9 4.9 3.9 1.8 (D) 3.9 1.8 (D) 3.9 1.8 (D) 3.9 1.8 (D) 3.9 1.8 (D) 3.9 1.8 (D) 3.9 1.8 (D) 3.9 1.8 (D) 3.9 1.8 (D) 3.9 1.8 (D) 3.9 1.8 (D) 3.9 1.8 (D) 3.9 1.8 (D) 3.9 1.8 (D) 3.9 1.8 (D) 3.9 1.8 (D) 3.9 1.8 (D) 3.9 1.8 (D) 3.9 1.8 (D) 3.0 1.8 (D) 3.0 1.8 (D) 3.0 1.8 (D) 3.0 1.8 (D) 3.0 1.8 (D) 3.0 1.8 (D) 3.0 1.8 (D) 3.0 1.8 (D) 3.0 1.8 (D) 3.0 (D) (D) (D) (D) (D) (D) (D) (D)	1 353.3 7.9 (D) 855.8 (D) 4.4 (D) 36.5 39.4 2.0 (D) 106.5 242.2 93.6 (D) 100.5 5.6 (D) 17.7 18.1 (D) 19.0 (D) 39.4 2.5 30.5 (D) 37.7 (C) 37.7 (C) 37.7 (C) 38.5 8.5 8.5 (C) 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5	5 491.3 22.1 (D) 462.9 (D) 111.0 143.5 7.8 (D) 442.6 110.8 281.3 (D) (D) 22.4 (D) 62.6 72.6 (D) 102.1 8.1 8.4.5 (D) 145.3 (D) 145.3 (D) 145.3 (D) 145.3 (D) 145.3 (D) 145.3 (D) 145.3 (D) 145.3 (D) 145.5 (D) 145.6 152.9 (D) 170.6 (D) 170.	14 455.0 60.5 (D) 914.7 (D) 37.6 (D) 379.8 392.9 17.4 (D) 912.6 340.8 1 028.7 (D) (D) 95.3 (D) (D) 95.3 (D) 0 211.3 (D) 241.3 (D) 241.3 (D) 241.3 (D) 241.3 (D) 241.4 358.3 (D) 241.5 (D) 241.5 (D) 242.5 (D)	19 972.4 82.2 (D) 1 382.3 (D) 57.2 (D) 491.1 2536.1 2536.1 (D) 1 362.4 1 362.4 1 305.7 (D) (D) 1 18.0 (D) 179.4 285.6 (D) 503.7 22.3 442.8 (D) 503.7 22.3 442.8 (D) 538.5 539.2 (D)	$\begin{array}{c} \textbf{379.7} \\ (D) \\ $	78.7 6.5 6.6 2.6 CC 5.9.4 3.5 GF 7.2 4.6 6. 2.9 7.2 9.4 1.0 9.1 1.7 9.9 1.7 1.9 1.7 9.0 1.7 1.9 1.7 1.9 1.7 1.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	4 457.0 14.9 (D) 370.3 (D) 137.3 101.7 (D) 362.3 54.7 275.4 (D) 29.7 (D) 76.0 (D) 199.1 39.9 14.5 101.7 (D) 70.8 (D) 29.7 (D) 70.6 (D) 199.1 39.9 14.5 101.7 (D) 123.7 (NA) 201.8 82.7 (NA) 201.8 82.7 (NA) 201.8 82.7 (D) 120.7 (NA) 201.8 82.7 (NA) 201.8 120.7 (NA) (NA) 201.8 120.7 (NA) 201.8 120.7 (NA) 201.8 120.7 (NA) 201.8 120.7 (NA) 201.8 120.7 (NA) 201.8 120.7 (NA) 201.8 120.7 (NA) 201.8 120.7 (NA) 201.8 120.7 (NA) 201.8 120.7 (NA) 201.8 120.7 (NA) 201.8 120.7 (NA) 201.8 120.7 (NA) 201.8 120.7 (NA) 201.8 120.7 (NA) 201.8 120.7 (NA) 201.8 120.8 120.8 120.8 120.8 120.8 120.8 120.8 120.8 120.8 120.8 120.8 12
OhioOklahomaOregon Pennsylvania	-	41 13 21 75	26 6 11 49	3.7 1.2 1.4 4.8	85.3 28.7 30.2 120.7	(D) 3.0 .9 1.0 3.5	6.7 2.1 2.1 7.4	60.8 18.2 15.6 73.8	179.0 73.2 103.7	731.8 265.7 129.0 938.4	913.6 338.4 233.4 1 287.1	15.7 8.8 4.0 14.2	3.1 G 1.1 5.0	(D) 176.2 (D) 71.0 290.8

See footnotes at end of table.

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MEAT PRODUCTS 20A-9

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

Excludes data for auxiliaries. States			loyees of	more are sr	IOWN. FOI I	neaning of	199		ibols, see intro	buctory text.	-or explanation	i or terms, s		1987
		All establ	lishments	All emp	oloyees	Pro	duction wor	kers						
Industry and geographic area	E1	Total (no.)	With 20 employ- ees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manufac- ture (million dollars)
INDUSTRY 2013, SAUSAGES AND OTHER PREPARED MEATS-Con.														
Rhode Island South Carolina South Dakota Tennessee Texas		8 9 25 81	1 4 13 46	.1 G E 1.8 6.6	2.9 (D) (D) 42.0 157.0	.1 (D) (D) 1.2 4.9	.2 (D) (D) 2.7 11.0	2.5 (D) (D) 26.2 98.6	8.0 (D) (D) 133.1 335.0	15.3 (D) (D) 259.0 1 325.3	23.2 (D) (D) 398.2 1 661.4	.6 (D) (D) 3.1 34.4	(NA) .5 2.9 5.3	(NA) 23.2 (D) 178.6 220.3
Utah Virginia Washington Wisconsin	E4 	7 25 19 43	3 14 10 24	.2 H .9 6.7	4.6 (D) 21.1 189.6	.2 (D) .7 5.2	.4 (D) 1.5 11.2	2.9 (D) 13.0 133.7	15.2 (D) 79.3 798.1	76.4 (D) 131.9 1 353.2	91.4 (D) 202.9 2 153.1	.4 5.7 4.8 30.5	C 1.2 1.1 6.4	(D) 62.2 64.8 568.9
INDUSTRY 2015, POULTRY SLAUGHTERING AND PROCESSING														
United States	-	591	432	193.8	3 091.5	172.8	341.5	2 518.4	6 656.5	17 066.7	23 757.1	466.4	147.9	4 118.4
Alabama Arkansas California Colorado Delaware	- - E9 -	37 47 41 5 8	32 44 29 4 8	20.1 29.1 8.9 G 5.1	277.2 451.7 158.8 (D) 76.3	18.2 26.4 8.0 (D) 4.7	33.9 54.3 14.5 (D) 8.4	234.3 382.6 130.2 (D) 61.3	538.4 912.6 281.4 (D) 149.5	1 471.1 2 740.7 845.5 (D) 444.5	2 001.8 3 655.4 1 129.8 (D) 593.4	35.6 80.6 9.4 (D) 16.2	11.2 23.4 5.6 F 4.5	227.9 526.4 276.2 (D) 85.1
Florida Georgia Illinois Indiana Iowa	= E3 -	16 49 11 11 19	7 44 6 10 14	2.9 21.2 1.3 2.7 3.1	45.7 331.2 30.1 42.2 55.7	2.2 19.0 1.1 2.2 2.8	4.4 36.7 1.9 4.4 5.6	34.0 273.8 18.8 30.6 47.2	29.6 686.8 88.1 116.3 150.9	245.6 1 616.6 114.6 203.1 388.2	275.0 2 298.0 201.9 323.9 542.6	18.3 50.4 2.8 6.3 5.1	2.5 16.0 1.6 G 3.0	29.7 375.9 35.5 (D) 86.7
Kentucky Louisiana Maine Maryland Maryland Massachusetts	 E2 E2	4 5 2 10 4	3 3 2 7 3	F G E 3.3 .4	(D) (D) (D) 54.8 6.4	(D) (D) 2.9 .4	(D) (D) (D) 6.3 .7	(D) (D) (D) 40.1 5.1	(D) (D) 104.3 11.6	(D) (D) (D) 300.4 34.1	(D) (D) (D) 404.0 45.6	(D) (D) (D) 8.0 .8	C G E 3.6 C	(D) (D) (D) 110.9 (D)
Michigan Minnesota Mississippi Missouri Nebraska	- E1 -	10 27 26 29 7	4 16 24 25 6	G 6.5 11.1 8.5 1.8	(D) 108.5 148.7 130.1 40.7	(D) 5.9 9.9 7.7 1.5	(D) 11.8 19.1 14.6 3.1	(D) 91.7 118.6 108.9 30.7	(D) 233.2 309.4 356.8 27.3	(D) 560.2 843.3 791.9 141.4	(D) 811.6 1 152.6 1 149.1 179.5	(D) 11.6 22.5 25.7 8.6	2.0 7.0 6.2 5.6 1.6	93.7 206.1 196.2 194.8 60.2
New Jersey New York North Carolina Ohio Oklahoma	E3 E2 E1 E1 -	16 21 29 19 6	11 6 25 12 3	2.2 .6 18.2 1.4 G	39.7 10.3 259.4 22.5 (D)	1.8 .5 16.8 1.2 (D)	3.8 1.0 32.3 2.6 (D)	27.6 9.4 219.9 17.8 (D)	85.3 23.1 662.0 53.3 (D)	267.2 38.4 1 547.2 146.2 (D)	351.5 61.0 2 206.5 200.1 (D)	6.8 .8 35.6 2.4 (D)	G .8 14.9 G G	(D) 22.4 528.3 (D) (D)
Oregon Pennsylvania South Carolina South Dakota Tennessee	E1 E2	6 28 12 3 11	5 21 5 2 9	1.0 5.4 1.8 E 4.1	18.6 101.4 30.0 (D) 68.9	.8 4.3 1.6 (D) 3.7	1.8 8.6 3.4 (D) 7.8	16.2 74.9 25.4 (D) 57.6	25.0 170.2 118.7 (D) 161.3	72.3 549.2 153.4 (D) 456.9	97.7 719.2 274.0 (D) 621.5	(D) 8.4 4.4 (D) 5.9	.6 5.6 1.6 E 2.0	20.0 162.4 70.6 (D) 50.9
Texas Utah Virginia Washington West Virginia Wisconsin	– – E5 E2	20 2 17 8 3 9	15 1 12 4 2 7	9.3 F 9.2 .9 G 2.6	153.3 (D) 156.0 20.1 (D) 51.7	8.4 (D) 8.1 .7 (D) 2.0	17.9 (D) 17.1 1.7 (D) 3.7	131.3 (D) 125.0 15.2 (D) 30.6	238.6 (D) 382.4 28.7 (D) 92.4	899.1 (D) 934.5 111.4 (D) 222.7	1 146.3 (D) 1 315.9 139.7 (D) 319.1	20.2 (D) 15.2 (D) (D) 15.9	5.6 E 8.4 .6 F 2.2	152.5 (D) 235.7 13.7 (D) 40.6

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

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

¹Payroll and sales data for some small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other Government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown for those States where estimated value of shipments data based on administrative-record data account for 10 percent or more of figure shown. E1-10 to 19 percent; E2-20 to 29 percent; E3-30 to 39 percent; E4-40 to 49 percent; E5-50 to 59 percent; E6-60 to 69 percent; E7-70 to 79 percent; E8-80 to 89 percent; E9-90 percent or more. ²Statistics for some producing States have been withheld to avoid disclosing data for individual companies. However, for States with 100 employees more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C-100 to 249 employees; E-250 to 499 employees; E-500 to 999 employees; G-1,000 to 2,499 employees; H-2,500 to 4,999 employees; L-50,000 to 99,999 employees; M-100,000 employees or more.

20A-10 MEAT PRODUCTS

Table 3a. Summary Statistics for the Industry: 1992

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

ltem	Meat packing plants (SIC 2011)	Sausages and other prepared meats (SIC 2013)	Poultry slaughtering and processing (SIC 2015)
Companiesnumber	1 297	1 129	372
All establishmentsnumber	1 387 956 267 164	1 264 641 385 238	591 159 108 324
Employment and labor costs: Employees	122.4 3 082.1 2 452.8 629.3 339.4 289.9	85.5 2 574.9 2 026.3 548.6 254.2 294.4	193.8 3 868.2 3 091.5 776.8 351.6 425.2
Production workers: Average for year1,000	105.5 103.5 104.1 106.0 108.6	65.7 64.9 64.5 64.5 66.7 66.6	172.8 169.8 168.9 171.7 181.0
Hours millions	228.5	139.9	341.5
Wagesmil dol	1 956.6	1 353.3	2 518.4
Cost of materials1mil dolmil dol	43 586.4 41 036.4 2 261.3 92.9 158.6 37.3	14 455.0 12 723.5 1 469.3 71.2 161.6 29.5	17 066.7 16 174.6 518.0 85.5 219.3 69.3
Quantity of electric energy used for heat and power: Purchased mil kWh Generated less sold mil kWh	3 230.3 (D)	2 869.4 (D)	4 175.8 (D)
Total value of shipmentsmil dol	50 434.4	19 972.4	23 757.1
Value addedmil dol	6 928.0	5 491.3	6 656.5
Inventories by stage of fabrication: Beginning of 1992mil dol Finished goodsmil dol Work in processmil dol Materials and suppliesmil dolmil dol	951.8 700.4 89.5 161.9	1 085.1 571.9 149.3 363.9	848.1 465.1 145.1 237.9
End of 1992mil dolmil dol	1 054.3 769.0 100.9 184.4	1 058.1 552.2 143.0 363.0	832.3 445.6 130.7 256.0

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

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

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

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

Item	Meat packing plants (SIC 2011)	Sausages and other prepared meats (SIC 2013)	Poultry slaughtering and processing (SIC 2015)
Gross book value of depreciable assets: Total: Beginning of year New capital expenditures' Used capital expenditures' End of year Buildings and other structures: Beginning of year New capital expenditures Used capital expenditures Retirements End of year Machinery and equipment: Beginning of year	3 901.6 343.2 24.7 90.8 4 178.7 1 321.3 72.8 3.7 29.5 1 368.3 2 580.3	3 726.3 379.7 23.2 97.6 4 031.5 1 315.4 96.7 5.7 18.3 1 399.4 2 410.9	4 674.7 466.4 22.5 155.2 5 008.5 1 494.5 116.9 5.8 19.6 1 597.6 3 180.2
New capital expenditures1 Used capital expenditures Retirements End of year	270.4 21.1 61.3 2 810.4	283.0 17.5 79.3 2 632.1	349.5 16.8 135.6 3 410.9
Depreciation charges during 1992: Total Buildings and other structures Machinery and equipment	254.7 57.9 196.7	285.3 66.6 218.7	398.3 88.9 309.4
Rental payments: Total	73.2 39.1 34.1	88.2 47.8 40.3	124.2 28.8 95.3

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

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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]

		king plants 2011)	Sausages and me (SIC :	ats	Poultry slaughtering and processing (SIC 2015)		
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	27.4 76.8 180.5 82.9	(X) (X) (X) (X)	26.7 81.7 147.3 82.1	XXXX	31.0 83.9 204.0 85.1	XX XX XX XX	
Communications	8.2 82.8 5.2 77.1 121.6 80.8	XX XX XX XX XX XX XX XX XX XX XX XX XX	19.5 77.0 10.1 80.3 11.3 80.4 179.7 80.8 7.7 80.0 15.2 81.3	888888888888888888888888888888888888888	14.5 82.6 12.0 81.4 5.8 79.4 80.1 81.3 3.1 79.9 69.3 85.7	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
New machinery and equipment expenditures	270.4 4.9 6.1 207.9 1.2	(X) 25 3 1 (X)	283.0 5.5 6.3 174.8 1.3	(X) 14 6 1 (X)	349.5 14.6 5.0 329.9 1.2	(X) 4 1 (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	41 036.4 116.7 40 919.7 1.4	(X) 16 1 (X)	12 723.5 640.6 12 082.9 1.4	(X) 13 1 (X)	16 174.6 8.0 16 166.5 1.4	(X) 2 1 (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 emp	oloyees	Pro	duction wor	kers	Value added by			New	End-of-
Industry and employment size class	E ¹	estab- lish- ments (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	capital expend- itures (million dollars)	year inven- tories (million dollars)
INDUSTRY 2011, MEAT PACKING PLANTS												
Total	-	1 387	122.4	2 452.8	105.5	228.5	1 956.6	6 928.0	43 586.4	50 434.4	343.2	1 054.3
Establishments with an average of — 1 to 4 employees 5 to 9 employees 20 to 19 employees 20 to 49 employees 50 to 99 employees 50 to 99 employees 50 to 99 employees 250 to 499 employees 250 to 499 employees 250 to 599 employees 250 to 299 employees 2,500 employees or more 100ustrry 2013, SAUSAGES AND OTHER PREPARED MEATS	E6 E5 E3 E1 E2 E1 - - E9	519 256 181 183 84 69 35 20 36 4 618	.9 1.7 2.5 5.6 6.2 10.8 12.1 14.6 <u>68.0</u> (D) 2.2	14.0 23.6 40.6 95.4 125.8 220.1 245.2 307.9 <u>1 380.1</u> (D) 28.7	.8 1.4 2.1 4.4 4.9 9.0 9.9 1255 <u>60.4</u> (D) 1.9	1.5 2.7 4.2 9.0 10.3 19.0 20.8 27.5 133.4 (D) 3.6	10.6 18.2 31.4 69.2 89.7 166.6 176.0 240.9 <u>1 153.9</u> (D) 22.2	26.6 42.5 70.4 182.5 276.3 477.5 669.3 888.9 4 294.1 (D) 24.9	198.0 261.2 427.3 1 031.8 1 758.7 4 881.7 4 802.9 4 424.6 <u>25 800.3</u> (D) 178.2	224.7 303.4 497.7 1 215.6 2 034.2 5 363.6 5 300.8 30 020.8 (D) 203.2	1.4 2.3 3.5 8.0 12.9 35.0 122.9 22.0 1 <u>35.2</u> (D) 1.6	4.1 8.1 23.8 47.7 118.7 94.9 123.2 623.2 (D) 4.1
Total	E1	1 264	85.5	2 026.3	65.7	139.9	1 353.3	5 491.3	14 455.0	19 972.4	379.7	1 058.1
Establishments with an average of— 1 to 4 employees	E8 E7 E4 E1 E1 E1 - E9	271 189 181 235 150 148 71 15 4 362	.5 1.3 2.5 7.5 10.7 24.0 24.7 <u>14.3</u> (D) 1.3	8.5 20.0 46.9 172.9 236.4 581.3 589.0 <u>371.3</u> (D) 16.4	.4 1.0 1.8 5.4 7.9 18.4 19.3 <u>11.6</u> (D) 1.0	.7 1.9 3.7 10.7 16.2 39.4 42.3 <u>25.0</u> (D) 1.8	5.6 12.6 28.9 99.1 148.0 366.5 407.2 <u>285.4</u> (D) 10.6	21.9 51.1 120.2 409.0 713.2 1 722.7 1 589.5 <u>863.7</u> (D) 37.0	62.9 136.8 293.3 1 117.8 1 536.5 4 528.4 4 392.8 <u>2 386.5</u> (D) 106.4	84.7 188.0 411.9 1 532.5 2 253.5 6 247.7 5 996.9 <u>3 257.3</u> (D) 143.4	1.2 2.4 8.1 20.3 45.2 103.3 121.8 77.3 (D) 2.1	4.9 10.0 26.4 86.1 129.0 338.4 302.2 <u>161.1</u> (D) 7.9

See footnotes at end of table.

20A-12 MEAT PRODUCTS

MANUFACTURES-INDUSTRY SERIES

TIPS UPF [MCD_SRB,BA_TAYLOR] 6/ 7/95 10:36:19 EPCV21 TLP:20A,BTI;39 6/ 7/95 10:34:58 DATA:NONE UPF:DIR:20ADAT.UPF PAGE: 6 TSF:20A_92.DAT;61 6/ 7/95 10:35:16 UTF:20A_93.DAT;62 6/ 7/95 10:35:16 META:TIPS96-10350998.DAT;1 6/ 7/95 10:36:07

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

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

		All	All em	ployees	Pro	duction wo	rkers	Value added by			New	End-of-
Industry and employment size class	E1	estab- lish- ments (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	capital expend- itures (million dollars)	year inven- tories (million dollars)
INDUSTRY 2015, POULTRY SLAUGHTERING AND PROCESSING												
Total	-	591	193.8	3 091.5	172.8	341.5	2 518.4	6 656.5	17 066.7	23 757.1	466.4	832.3
Establishments with an average of –												
1 to 4 employees	E5	85	.1	2.5	.1	.3	2.0	5.2	15.8	21.1	.3	.5
5 to 9 employees	E7 E3	36 38	.2	3.5 7.9	.2 .5	.4	2.7 6.2	15.4 21.8	21.0	36.4 71.0	.8 1.2	1.0 2.5
10 to 19 employees 20 to 49 employees	E3	38 66	.5 2.3	7.9 38.1	.5 1.9	3.6	28.3	127.4	49.4 314.5	443.0	10.4	2.5
50 to 99 employees	-	42	3.0	50.3	2.6	4.8	39.7	160.3	346.3	505.7	14.0	25.2
100 to 249 employees	E1	82	13.6	224.4	11.7	23.8	170.3	537.5	1 399.2	1 955.8	52.2	97.3
250 to 499 employees	E1	87	31.7	522.7	27.8	56.3	412.6	1 133.0	3 081.8	4 216.6	77.2	153.0
500 to 999 employees	-	101	71.4	1 108.4	63.7	122.6	905.5	2 044.9	6 250.6	8 287.5	152.8	265.0
1,000 to 2,499 employees	-	54	71.0	1 133.7	64.2	128.8	951.1	2 611.0	5 588.1	8 220.0	157.5	259.5
Covered by administrative records ²	E9	94	.3	3.7	.3	.5	3.0	8.4	20.3	28.7	.7	1.1

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

¹Payroll and sales data for some small single-establishment manufacturing companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other Government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This 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-			All emp	oloyees	Pro	oduction work	ers	Value			New
try or prod- uct class code	Industry or primary product class	All estab- lish- ments (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	capital expend- itures (million dollars)
2011	Meat packing plants: All establishments in industry	1 387	122.4	2 452.8	105.5	228.5	1 956.6	6 928.0	43 586.4	50 434.4	343.2
20111 20112 20113 20114 20116	Establishments with this product class primary: Beef, not canned or made into sausage	162 11 10 74	56.3 .7 .7 37.8	1 085.3 18.9 13.1 812.5	50.0 .6 .6 32.8	110.3 1.3 1.3 71.3	907.9 12.4 10.6 656.4	2 985.4 32.5 46.5 1 908.9	28 725.7 248.0 277.7 9 453.0	31 652.1 284.3 323.3 11 345.2	121.9 1.3 .6 159.2
20118 20117 20118 20119 2011B	Sausage)	12 36 1 7 11	7.8 4.4 (D) .3 .5	175.3 87.7 (D) 7.9 8.8	6.6 3.2 (D) .3 .4	14.1 6.3 (D) .5 .8	117.8 53.6 (D) 4.2 6.8	696.7 375.6 (D) 10.3 19.6	1 350.6 502.4 (D) 96.5 86.2	2 039.6 876.3 (D) 107.0 106.5	14.6 18.0 (D) (D) .4
2013	Sausages and other prepared meats: All establishments in industry	1 264	85.5	2 026.3	65.7	139.9	1 353.3	5 491.3	14 455.0	19 972.4	379.7
20136 20137 20138	Establishments with this product class primary: Pork, processed or cured, including frozen, not canned or made into sausage	121 269 20	19.1 31.9 2.8	453.2 815.5 67.6	15.1 24.1 2.3	32.1 51.8 4.5	310.4 551.0 49.8	1 109.1 2 102.3 380.0	3 137.1 4 668.6 547.8	4 249.4 6 784.8 919.9	81.0 132.8 15.3
2013B	Other processed, frozen, or cooked meats	177	21.7	492.2	16.8	36.7	316.8	1 424.7	4 724.3	6 165.4	101.5
2015	Poultry slaughtering and processing: All establishments in industry	591	193.8	3 091.5	172.8	341.5	2 518.4	6 656.5	17 066.7	23 757.1	466.4
20151 20152 20153	Establishments with this product class primary: Young chickens (usually under 20 weeks of age) whole or parts	179 10 38	115.0 1.5 21.2	1 726.7 20.5 348.1	103.8 1.4 18.7	205.1 2.8 37.1	1 448.3 15.1 276.8	3 238.1 37.0 702.1	9 439.8 58.6 2 160.7	12 671.3 95.8 2 877.8	249.4 2.2 48.4
20154	Other poultry and small game (including frozen, whole or parts)	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20155 20159	Processed poultry and small game (except soups) containing 20 percent or more poultry or meat Liquid, dried, and frozen eggs	101 35	41.1 3.8	741.6 81.3	36.0 3.1	71.4 6.3	585.7 56.5	2 076.1 198.7	4 149.7 518.0	6 237.7 725.6	116.4 24.1

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

MANUFACTURES-INDUSTRY SERIES

MEAT PRODUCTS 20A-13

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 2011, MEAT PACKING PLANTS			
Total value of shipments	50 434.4 46 761.1 1 280.4 2 392.8 2 354.7 (D) (D)	45 536.6 41 204.8 737.2 3 594.6 3 453.7 112.9 28.0	44 853.6 40 357.2 726.3 3 770.0 3 281.2 169.7 319.1
Primary products specialization ratio	97	98	98
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	46 796.4 46 761.1 35.2	41 234.6 41 204.8 29.8	40 522.6 40 357.2 165.4
Coverage ratio	99	100	99
INDUSTRY 2013, SAUSAGES AND OTHER PREPARED MEATS			
Total value of shipments Primary products value of shipments Secondary products value of shipments Total miscellaneous receipts Value of resales Other miscellaneous receipts Subprimal and fabricated cuts packaged in plastics (boxed beef) Other miscellaneous receipts Other miscellaneous receipts Other miscellaneous receipts	19 972.4 17 318.7 880.8 1 772.9 1 703.6 34.0 35.4 24.4 - 11.0	16 553.3 14 049.7 528.6 1 975.0 1 869.5 44.3 61.2 (NA) (NA)	12 277.5 10 357.9 366.5 1 553.2 1 460.9 31.8 60.5 39.6 20.9
Primary products specialization ratio	95	96	97
Value of primary products shipments made in all industries Value of primary products shipments made in this industry Value of primary products shipments made in other industries	17 718.9 17 318.7 400.1	14 352.8 14 049.7 303.1	10 508.2 10 357.9 150.3
Coverage ratio	98	98	99
INDUSTRY 2015, POULTRY SLAUGHTERING AND PROCESSING			
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	23 757.1 22 708.6 327.4 721.1 529.1 144.1 48.0	14 912.4 14 026.8 264.6 621.0 419.3 161.9 39.8	10 471.1 (NA) (NA) (NA) (NA) (NA) (NA)
Primary products specialization ratio	99	98	(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	23 450.2 22 708.6 741.6	14 370.9 14 026.8 344.1	(NA) (NA) (NA)
Coverage ratio	97	98	(NA)

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

20A-14 MEAT PRODUCTS

Table 6a–1. Product and Product Classes—Quantity and Value of Shipments by All Producers: 1992 and 1987

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see Value of Shipments in appendixes. For meaning of abbreviations and symbols, see introductory text]

		, ,	1992			1987	
Draduat		Number of companies	Product s	hipments ¹	Number of companies	Product sl	hipments ¹
Product code	Product	with shipments			with shipments		
		of \$100,000 or more	Quantity ²	Value (million dollars)	of \$100,000 or more	Quantity ²	Value (million dollars)
2011– —	FRESH AND FROZEN MEAT FROM ANIMALS SLAUGHTERED IN THIS PLANT						<u>,</u>
	Total	(NA)	(X)	46 796.4	(NA)	(X)	41 234.6
20111 20111 12 20111 14 20111 16	Beef, not canned or made into sausage	(NA) 82 42	(X) *5 662.5 769.8	26 890.2 5 669.2 1 260.6	(NA) 141 64	(X) * r8 658.2 847.5	21 684.0 '7 746.9 1 222.8
20111 18 20111 31 20111 51 20111 71 20111 00	(boxed beef)mil lbmil	53 21 78 48 12 (NA)	*9 385.5 *150.0 2 967.8 1 413.5 **109.3 (X)	15 298.3 168.9 3 263.3 755.9 80.9 393.1	64 32 95 65 16 (NA)	r6 150.3 ** r311.2 r1 815.9 r1 087.4 *38.8 (X)	'9 451.5 '472.6 '1 690.9 '543.8 29.6 525.9
20112 20112 12 20112 17	Veal, not canned or made into sausage	(NA) 13	(X) **27.9	283.0 47.5	(NA) 26	(X) 164.6	379.4 177.0
20112 61 20112 00	vealmil lbmil lb	13 4 (NA)	*118.8 4.6 (X)	222.6 7.9 5.1	20 10 (NA)	85.8 *12.0 (X)	178.3 13.9 10.4
20113 20113 12 20113 52	Lamb and mutton, not canned or made into sausage Whole carcass and half carcass lamb and muttonmil lb Primal cuts and all other edible lamb and muttonmil lb	(NA) 14 8	(X) 210.7 72.8	335.0 214.7 117.0	(NA) 18 12	(X) *196.3 ** ⁻ 88.8	379.5 265.9 r103.6
20113 00	Lamb and mutton, not canned or made into sausage, n.s.k.	(NA)	(X)	3.3	(NA)	(X)	10.0
20114 20114 12 20114 17 20114 51 20114 00	Pork, not canned or made into sausage	(NA) 27 73 36 (NA)	(X) 906.2 10 742.5 516.2 (X)	9 635.0 632.2 8 791.8 183.5 27.6	(NA) 39 97 43 (NA)	(X) * ^r 1 801.3 7 947.0 488.0 (X)	'8 406.3 '1 335.9 6 817.1 171.5 81.8
20115 20115 13 20115 17 20115 00	Lard	(NA) 3 12 (NA)	(X) *11.4 334.6 (X)	94.2 3.2 76.8 ³ 14.1	(NA) 9 31 (NA)	(X) 47.3 506.5 (X)	128.0 14.6 101.2 ⁴ 12.2
20116	Pork, processed or cured (not canned or made into sausage) ⁵	(NA)	(X)	2 043.6	(NA)	(X)	2 941.7
20116 12 20116 22	Sweet-pickled or dry-cured pork (not smoked or cooked)mil lb Dry salt porkmil lb	5 14	11.6 110.1	19.7 69.9	11 21	47.4 203.0	73.8 135.5
20116 31	Smoked pork (not otherwise cooked): Hams and picnics, except cannedmil lb	53	757.7	1 080.8	68	791.3	1 394.0
20116 35 20116 41 20116 52	Slab baconmil Ibmil bmil bmil Ibmil Ibmi	26 37 25	130.8 587.9 76.4	106.3 533.6 74.4	32 46 29	214.6 764.1 46.6	176.0 840.4 51.3
20116 61	Boiled ham, barbecue pork, and other cooked pork, except canned meats and sausagemil lb	16	99.6	147.0	19	93.7	152.1
20116 00	Pork, processed or cured (not canned or made into sausage), n.s.k.	(NA)	(X)	11.9	(NA)	(X)	118.5
20117 20117 11 20117 17	Sausages and similar products (not canned) ⁵ Fresh sausage (pork sausage, breakfast links, etc.)mil lb Dry or semidry (salami, cervelat, pepperoni, summer	(NA) 60	(X) (S)	1 718.2 752.9	(NA) 73	(X) 589.6	2 079.7 779.1
20117 17 20117 21 20117 35	sausage, pork roll, etc.)mil bmil b_	17 36	96.6 359.6	171.1 359.4	20 54	118.2 432.1	220.0 414.0
20117 91	liverwurst, Folish sausage, packaged luncheon meats, minced roll, etc.)mil lb Jellied goods and similar preparations, (headcheese,	47	*280.0	386.8	63	478.1	531.0
20117 00	meat loaves, scrapple, puddings, chili con carne, etc.)mil lb Sausages and similar products (not canned), n.s.k	14 (NA)	20.6 (X)	19.7 28.4	17 (NA)	20.5 (X)	26.8 108.8
20118 20118 00	Canned meats (except dog, cat, and baby food) Canned meats (except dog, cat, and baby food)	(NA)	(X)	(D)	(NA)	(X)	402.0
20119	containing 20 percent meat or more ⁶ mill lb Hides, skins, and pelts	5 (NA)	(D) (X)	(D) 1 992.2	8 (NA)	271.9 (X)	402.0 1 638.4
20119 14 20119 22	Cattle, including kip millions Calf, except kip millions	100 14	*33.3	1 911.0 27.4	143 17	35.8 **1.0	1 509.3 17.9
20119 51 20119 97 20119 00	Sheep and lamb millions Other hides, skins, and pelts, except kip millions Hides, skins, and pelts, n.s.k.	7 18 (NA)	(S) (S) (X)	23.6 23.1 7.1	13 16 (NA)	3.7 (S) (X)	37.6 15.5 '58.0
2011B 2011B 15	Miscellaneous byproducts of meat packing plants Other fresh and frozen meats including horsemeat for	(NA)	(X)	(D)	(NA)	(X)	r460.0
2011B 17 2011B 41	human consumptionmil lb Pork rind pellets, including pork cracklings	9 2 13	*63.5 (X) *1 407.4	104.6 1.1 185.7	13 (NA) 18	112.8 (X) 1 481.8	93.5 (⁷) 199.2
2011B 45 2011B 55 2011B 59	Edible tallow and stearin	10 72	(S) (X)	9.0 207.5	15 66	*17.8 (X)	8.3 117.2
2011B 00	plants, including pulled wool and glue stock (except sausage casings) Miscellaneous byproducts of meat packing plants, n.s.k.	17 (NA)	(X) (X)	(D) 4.7	(NA) (NA)	(X) (X)	⁷ 23.7 '18.1

See footnotes at end of table.

MANUFACTURES-INDUSTRY SERIES

MEAT PRODUCTS 20A-15

Table 6a–1. Product and Product Classes—Quantity and Value of Shipments by All Producers: 1992 and 1987—Con.

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see Value of Shipments in appendixes. For meaning of abbreviations and symbols, see introductory text]

Product Product Product sprement Name of strippend with provide strippend strippend Product sprement Name of strippend with provide strippend Product sprement Product spr	· ·			1992			1987	
code (1990) Print atigation (1990) atigation (1990) atigation (1990)				Product s	hipments ¹		Product sl	hipments ¹
SLAUGHTERED IN THIS PLANT-OC: Image: Control of the control of the control single deal of the control		Product	with shipments of \$100,000	Quantity ²	(million	with shipments of \$100,000	Quantity ²	(million
201100 00 mm Pperf, a.k. mm (MA) (MA	2011							
20110 00 Prote and frazer, mark mark insupremain NNA 00 NNA 2 00 - 2 00 - 2 00 - 105 prof., rs.24 NNA 00 Prof. 2 00 - 2 00	20110	Fresh and frozen meat from animals slaughtered in this	(NA)		2 804 6	(NA)		12 735 7
2010 02 Free and factor must free whet from animal subgrittered in must be applied in an individual subgrittered in a must be applied in an individual subgrittered in a must be applied in an individual subgrittered in an individual subgrittered in a must be applied in an individual subgrittered in a must be applied in an individual subgrittered in a must be applied in an individual subgrittered in a must be applied in an individual subgrittered in a must be applied in an individual subgrittered in a must be applied in an individual subgrittered in a must be applied in a must be applied in a must be applied in an individual subgrittered in a must be applied in a must b	20110 00	Fresh and frozen meat from animals slaughtered in this plant, n.s.k. ⁸	. ,			. ,	, ,	
Trail	20110 02	Fresh and frozen meat from animals slaughtered in	. ,			` ´ ´	, ,	
2013 Poils, processed or cared, including from, not carend U. I. U. I. <t< td=""><td>2013- —</td><td>SAUSAGE AND OTHER PREPARED MEATS</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	2013- —	SAUSAGE AND OTHER PREPARED MEATS						
2015 t1 0° make indicataged encode on the standard encode on the sta	20120		(NA)	(X)	17 718.9	(NA)	(X)	'14 352.8
2013 22 Docked, mill b 17 BS.1 1401 15 228.4 55.3 2013 24 Horn and pince, except cannel mill b 11 165.5 172.4 109 662.2 128.0 2013 24 Bisci Accor mill b 11 165.5 142.2 669 172.5 178.6		or made into sausage ⁵	(NA)	(X)	3 491.9	(NA)	(X)	3 127.3
2013 3 Simple point of difference code() and bit		cooked)mil lb Dry salt porkmil lb						
2018 5 (1) Differ smoked poils mill b 43 '14.7 133.2 49 120.8 188.1 2013 0 (0) Differ smoked poils mill b 44 43.4.2 662.7 55 198.6 340.2 2013 0 (0) State and smoked or curved, motil mill b (N) (N) <t< td=""><td></td><td>Smoked pork (not otherwise cooked): Hams and picnics, except canned</td><td></td><td>1 050.5</td><td></td><td></td><td>959.2</td><td></td></t<>		Smoked pork (not otherwise cooked): Hams and picnics, except canned		1 050.5			959.2	
2013 6 In additional products on conset port. 4s 4s12 6s2.7 5s 198.8 340.2 2013 6 00 Products, not conset, not. (NA) (N)	20136 41	Slab baconmil lbmil lbmmil lbmil lbmmil l	51	916.1	947.5	66	795.1	1 018.2
2013 60 Poick, processed or cured, including frozen, not (NA)	20136 52 20136 61	Boiled ham, barbecue pork, and other cooked pork,						
20137 11 20137 12 20137 13 20137 14 20137 25 Preak sausage (pork sausage, brak/sau links, etc.),mil b preak use (pork) (sausage, brak/sau links, etc.),mil b 123 10995 1267.8 989.4 488.4 98 +478.0 989.4 20137 25 Preak during, including viewers mil b 123 10995 1267.8 139 1080.6 1259.4 20137 35 Dimension (pork), etc.)	20136 00	Pork, processed or cured, including frozen, not						
2013 71 Dry or semify (sham, exvisus, peptenn, summer, mill b., for the susage, privide (science), manual perturner, for susage, privide (science), manual perturner, mill b., for susage, privide (science), manual perturner, manual perurner, manual perturner, manual perturner, manual p		Sausage and similar products, not canned ⁵						
2013 73 Other satesge, encled or cooled (hologie, marks, mill b.,	20137 17	Dry or semidry (salami, cervelat, pepperoni, summer sausage, pork roll, etc.)mil lb	92	485.4	944.3	98	*478.0	989.4
20137 91 Jelled goods and similar properations, not canned, nsk	20137 35	Other sausage, smoked or cooked (bologna, liverwurst, Polish sausage, packed luncheon meats, minced roll, etc.)mil lb	194	1 845.3	2 379.3	200	1 433.4	1 929.5
20137 00 Sausage and similar products, not canned, n.s.k		Jellied goods and similar preparations, not canned (headcheese, meat loaves, scrapple, puddings, chili						
20138 00 containing 20 percent or more meats (NA) (X) 873.0 (NA) (X) 910.1 20138 01 food, containing 20 percent or more meat (NA) 32 (S) 873.0 46 *849.0 910.1 20138 11 food, containing 20 percent or more meat (NA) (X) (X) 5759.7 (NA) (X) 383.1 20138 11 food, containing 20 percent or more meat (NA) (X) 5759.7 (NA) (X) 1603.2 81 1272.2 1405.5 20138 12 food, containing 20 percent or more meat meats, conted mill b 5 100.0 0 0 141 *1 022.3 1429.9 20138 12 food, fooded meats, nak, conted meats, nak, conted meats, nak, conted (NA) (X) 1634.6 (NA) (X) 155.4 20138 02 Collagen susage casing susage and other prepared meats, nak, conted (NA) (X) 1634.6 (NA) (X) 156.4 20130 02 Susage and other prepared meats, nak, conted (NA) (X) 122 food (NA) (X) 14370.9 <		Sausage and similar products, not canned, n.s.k.	(NA)		254.8	(NA)	(X)	267.0
Image: containing 20 percent or more meat		containing 20 percent or more meat ⁵	(NA)	(X)	873.0	(NA)	(X)	910.1
2013B 11 2013B 11 2013B 12 2013B 02 2013B 02 2013D 02 2013B 02 2013D 02 2013B 02 2013D 02 2013B 02 2013D 02 2015D 02		food, containing 20 percent or more meatmil lb		. ,		-	*849.0	
2013B 17 2013B 18 0 Other processed, frozen, crooked meats, corred beef, frozen primal and fabricated cuts, frozen variety meats, etc. 5 (D) (D) - 141 '1 022.3 1 429.9 2013B 18 2013B 21 2013B 21 2013D 25 Sausage and other prepared meats, n.s.k. mil b 6 (D) (D) 5 (S) 63.2 2013B 02 2013B 02 Sausage and other prepared meats, n.s.k. (NA) (X) 1 448.6 (NA) (X) '1 506.8 2013D 02 Sausage and other prepared meats, n.s.k. ¹⁰ (NA) (X) 1 448.6 (NA) (X) '1 506.8 2015- POULTRY AND EGG PROCESSING (NA) (X) 143.4 (NA) (X) '14 370.9 20151 Young chickens (usually under 20 weeks of age): mil b 60 '10 518.4 5 120.0 56 6 947.5 3 059.1 20151 32 Wei to pack, bulk. mil b 20 1 680.6 5 303.0 21 336.6 222.1 8 405.6 2482.2 20151 32 Uher prepared meats, n.s.k	2013B 11	Frozen ground meat pattiesmil lb	` 59	1 357.2	1 603.2	83		1 405.6
20138 21 20130 00 20130 00 20151 00 20152 00 20151 20 20151 20	2013B 17	Pork rind pellets, including pork cracklingsmil lb Other processed, frozen, or cooked meats, corned beef, frozen primal and fabricated cuts, frozen	5	(D)	(D)	ן ו		
20130 20130 00 20130 00 Sausage and other prepared meats, n.s.k. ¹⁰ (NA) 2013 00 (NA) 2013 00 (NA) 2013 00 (NA) 2013 00 (NA) 2015	2013B 21		6	(D)	(D)		(S)	
2015- POULTRY AND EGG PROCESSING (NA) (X) 23 450.2 (NA) (X) 14 370.9 20151 Young chickens (usually under 20 weeks of age) whole or parts. (NA) (X) 12 260.0 (NA) (X) 7 451.7 20151 3 Brollers and fryers (usually under 20 weeks of age): mil b 260 10 518.4 5 120.0 56 6 447.5 3 059.1 20151 34 Dry ice pack, bulk. mil b 28 1 660.0 956.5 29 912.1 484.2 20151 34 Tray pack (consumer packaged), childedmil b 28 4 383.6 3 038.0 31 3 356.8 2 089.7 20151 34 Tory pack, bulk. mil b 11 309.6 202.1 8 405.6 261.7 20151 35 Group pack, bulk. mil b 11 309.6 202.1 8 405.6 261.7 20152 21 gap packulay under 20 weeks of age) (NA) (X) 108.8 41.8 11 (S) 64.3 20152 21 gap produci	20130		(NA)	(X)	1 848.6	(NA)	(X)	'1 506.8
Total Total (NA) (X) 23 450.2 (NA) (X) '14 370.9 20151 Young chickens (usually under 20 weeks of age) whole or partsthe pack, bulk. (NA) (X) 12 260.0 (NA) (X) 7 451.7 20151 Broilers and fryers (usually under 20 weeks of age): mil b 60 '10 518.4 5 120.0 56 6 947.5 3 059.1 20151 33 Dry ice pack, bulk. mil b 28 1 606.0 9565.5 29 912.1 448.2 20151 34 Other (including frozen) mil b 24 3 901.3 2 554.2 35 1 939.0 1 122.7 20151 34 Other (including frozen) mil b 42 3 901.3 2 554.2 35 1 939.0 1 22.7 20151 24 Roasters and capons (including frozen) mil b 11 309.6 202.1 8 405.6 261.7 20152 24 Egg producing type mil b 12 151.9 64.5 17 350.1 137.8 20152 20		Sausage and other prepared meats, n.s.k. ¹⁰ Sausage and other prepared meats, n.s.k. ¹¹		(X) (X)				
20151 Young chickens (usually under 20 weeks of age) whole or parts	2015- —		<i>(</i> 1.1.)					
or parts (NA) (X) 12 260.0 (NA) (X) 7 451.7 20151 33 Broilers and fyers (usually under 20 weeks of age): mil b. 60 *10 518.4 5 120.0 56 6 947.5 3 059.1 20151 34 Dry ice pack, bulk mil b. 28 1 606.0 956.5 29 9 12.1 4 484.2 20151 35 Other (including frozen) mil b. 28 4 383.6 3 038.0 31 3 356.8 2 089.7 20151 34 Other (including frozen) mil b. 42 3 901.3 2 554.2 35 1 939.0 1 122.7 20151 41 Roasters and capons (including frozen) mil b. 42 3 901.3 2 554.2 35 1 939.0 1 22.7 20152 100 Young chickens (usually under 20 weeks of age) mil b. 11 309.6 202.1 8 405.6 261.8 20152 21 Egg producing type frozen whole or parts) mil b. 12 151.9 64.5 17 350.1 137.8 20152 20 <td>20151</td> <td>Young chickens (usually under 20 weeks of age) whole</td> <td></td> <td></td> <td></td> <td></td> <td>. ,</td> <td></td>	20151	Young chickens (usually under 20 weeks of age) whole					. ,	
20151 34 20151 36 20151 36 20151 36 20151 39 20151 39 20151 39 20151 39 20151 39 20151 39 20151 39 20151 41 20151 00 Dry ice pack, bulk	00454.00	Broilers and fryers (usually under 20 weeks of age):	. ,	. ,		, ,	, ,	
20151 39 20151 41 20151 41 Other (including frozen)mill b Young chickens (usually under 20 weeks of age) whole or parts, n.s.k	20151 34	Dry ice pack, bulkmil lb	28	1 606.0	956.5	29	912.1	484.2
20151 00 Young chickens (usually under 20 weeks of age) whole or parts, n.s.k. (NA) (X) 389.2 (NA) (X) 434.1 20152 21 Hens and/ or fowl (including frozen whole or parts) (NA) (X) 106.6 (NA) (X) 210.7 20152 21 Egg producing type (Na) (X) 106.6 (NA) (X) 210.7 20152 23 Breeder type (ncluding frozen whole or parts) 11 13 109.8 41.8 11 (S) 64.3 20152 00 Hens and/ or fowl (including frozen whole or parts), (NA) (X) .4 (NA) (X) 86.6 20153 20 Turkeys (including frozen, whole or parts) (NA) (X) 2 881.1 (NA) (X) *1645.1 20153 22 Turkeys (mature) (usually under 16 weeks of age), (NA) (X) 2 881.1 (NA) (X) *1645.1 20153 24 Young turkeys (nature) (usually - 7 months of age), mil lb 7 303.6 180.9 7 (D) (1²) 20153 26 Old turkeys (preeders) (usually over 12 months of age), mil lb 10 66.8 <	20151 39	Other (including frozen)mil lb	42	3 901.3	2 554.2	35	1 939.0	1 122.7
20152 21 20152 23 Egg producing type	20151 00	Young chickens (usually under 20 weeks of age)				-		
20152 23 20152 00 Breader type 1 13 109.8 41.8 11 (S) 64.3 20152 00 Hens and/ or fowl (including frozen whole or parts), n.s.k. (NA) (X) .4 (NA) (X) .86 20153 24 Turkeys (including frozen, whole or parts) (NA) (X) 2881.1 (NA) (X) .4 (NA) (X) .86 20153 24 Turkeys (including frozen, whole or parts)mill lb 7 303.6 180.9 7 (D) (1 ²) 20153 24 Young turkeys (mature) (usually 4 - 7 months of age), wholemill lb 26 1 699.6 1 119.1 30 1 311.3 751.3 20153 27 Turkey parts, including ground turkey, turkey cutlets, etc				(X)				
20153 Turkeys (including frozen, whole or parts) (NA) (X) 2 881.1 (NA) (X) '1 645.1 20153 22 Fryer-roaster turkeys (usually under 16 weeks of age), whole (NA) (X) 2 881.1 (NA) (X) '1 645.1 20153 24 Young turkeys (mature) (usually 4 - 7 months of age), whole 7 303.6 180.9 7 (D) ('2) 20153 26 Old turkeys (breeders) (usually over 12 months of age), whole 26 1 699.6 1 119.1 30 1 311.3 751.3 20153 27 Turkey parts, including ground turkey, turkey cutlets, etc. 10 66.8 34.1 11 138.4 75.0 20153 27 Turkey parts, including ground turkey, turkey cutlets, etc. 30 1 855.4 1 354.8 22 717.3 517.7	20152 23	Breeder typemil lb Hens and/ or fowl (including frozen whole or parts),	13	109.8	41.8	11	(S)	64.3
20153 22 Fryer-roaster turkeys (usually under 16 weeks of age), whole 7 303.6 180.9 7 (D) (1 ²) 20153 24 Young turkeys (mature) (usually 4 - 7 months of age), whole 7 303.6 180.9 7 (D) (1 ²) 20153 26 Old turkeys (breeders) (usually over 12 months of age), whole 26 1 699.6 1 119.1 30 1 311.3 751.3 20153 27 Turkey parts, including ground turkey, turkey cutlets, etc. 10 66.8 34.1 11 138.4 75.0		Turkeys (including frozen, whole or parts)				. ,	. ,	
20153 26 age), whole	20153 22	Fryer-roaster turkeys (usually under 16 weeks of age), wholemil lb	. ,			. ,	, ,	
age), whole		Young turkeys (mature) (usually 4 - 7 months of age), wholemil lb	26	1 699.6	1 119.1	30	1 311.3	751.3
etcmil lb30 1 855.4 1 354.8 22 717.3 517.7		age), wholemil lb	10	66.8	34.1	11	138.4	75.0
		etcmil Ib						517.7 ¹² '301.1

See footnotes at end of table.

20A-16 MEAT PRODUCTS

MANUFACTURES-INDUSTRY SERIES

Table 6a-1. Product and Product Classes-Quantity and Value of Shipments by All Producers: 1992 and 1987-Con.

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see Value of Shipments in appendixes. For meaning of abbreviations and symbols, see introductory text]

			1992			1987	
Product	Product	Number of companies	Product s	hipments ¹	Number of companies	Product s	hipments ¹
code		with shipments of \$100,000 or more	Quantity ²	Value (million dollars)	with shipments of \$100,000 or more	Quantity ²	Value (million dollars)
2015- —	POULTRY AND EGG PROCESSING-Con.						
20154	Other poultry and small game (including frozen, whole or parts)	(NA)	(X)	73.9	(NA)	(X)	86.7
20154 14 20154 16	Ducksmil lb Other poultry and small game (geese, rabbits, etc.)	35	(D) (X)	(D) (D)	4 6	80.2 (X)	48.2 37.6
20154 00	Other poultrý and small ğame (including frozen, whole or parts), n.s.k.	(NA)	(X)	-	(NA)	(X)	.9
20155	Processed poultry and small game (except soups) containing 20 percent or more poultry or meat Canned poultry:	(NA)	(X)	6 380.7	(NA)	(X)	3 725.3
20155 11	10 oz or less1,000 cases of 48	2	(D)	(D)	2	(D)	(D)
20155 13	40.1 oz to 60 oz1,000 cases of 12	3	(D)	(D)	2	(D)	(D)
20155 15	Other sizes Cooked or smoked poultry, including frozen:	5	(X)	24.4	4	(X)	14.9
20155 31 20155 32	Turkey (except frankfurters, hams, and luncheon meats) Chicken (except frankfurters, hams, and luncheon	63	870.7	1 363.0	21	*599.3	865.6
20155 32	meats)	58 34	1 844.4 277.0	2 787.4 200.5	39 50	1 009.0 (S)	1 391.9 215.2
20155 33 20155 34 20155 39	Hams and luncheon meatsmillbmillbmillbmillbmillbmillbmillbmillbmillb	47	638.5 (X)	921.3 111.5	50 57 8	(3) 531.1 (X)	657.9 57.7
20155 48	Other processed poultry and small game (dehydrated, raw-boned, etc.), including frozen	32	(X) (X)	775.6	23	(X) (X)	365.7
20155 00	Processed poultry and small game (except soups) containing 20 percent or more poultry or meat,	02	(74)	110.0	20	(74)	000.7
	n.s.k.	(NA)	(X)	109.7	(NA)	(X)	105.7
20159	Liquid, dried, and frozen eggs Eggs, dried:	(NA)	(X)	746.2	(NA)	(X)	495.4
20159 11 20159 13	Whitesmil lbmil lbm	14 10	*35.6 (S)	81.0 38.9	11 8	**21.8 16.9	44.5 24.5
20159 15 20159 17	Whole mil lb Mixed mil lb	11 8	43.3 23.6	63.6 35.0	10 9	19.6 (S)	28.1 28.9
20159 51	Eggs, frozen or liquid: Whitesmillb	17	276.3	263.4	21	129.1	135.0
20159 53 20159 55	Yolks mil lb Whole mil lb	13 18	86.5 *215.7	37.1 108.3	20 25	88.1 195.8	47.0 94.4
20159 57 20159 00	Mixedmil lb Liquid, dried, and frozen eggs, n.s.k.	14 (NA)	128.8 (X)	68.8 50.1	15 (NA)	128.7 (X)	62.3 30.6
20150 20150 00 20150 02	Poultry and egg processing, n.s.k Poultry and egg processing, n.s.k. ⁹ Poultry and egg processing, n.s.k. ¹³	(NA) (NA) (NA)		1 001.7 973.0 28.7	(NA) (NA) (NA)	(X) (X) (X)	756.1 695.1 61.0

¹Data reported by all producers, not just those with shipments of \$100,000 or more. ²For some establishments, data have been estimated from central unit values which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: *10 to 19 percent estimated; **20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S). ³For 1992, data for product code 20137 41 are included with product code 20115 00. ⁴For 1987, product code 20137 41 was included with product code 20115 00. ⁵This product code is primary to more than one industry. ⁶This product code is primary to more than one industry. ⁷For 1987, product code 2011B 17 was included with product code 2011B 59. ⁸Typically for establishments with 20 employees or more. ¹⁰Typically for establishments with 20 employees or more. ¹¹Typically for establishments with 15 employees. ¹²For 1987, product code 20153 22 was included with product code 20153 00 to avoid disclosing data for individual companies.

MANUFACTURES-INDUSTRY SERIES

Table 6a-2. Selected Products Primary to More Than One Industry-Quantity and Value of Shipments by Industry: 1992 and 1987

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see Value of Shipments in appendixes. For meaning of abbreviations and symbols, see introductory text]

			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)
20116 20136	Pork, processed or cured (not canned or made into sausage) Made in slaughtering plants Made elsewhere Sweet-pickled or dry-cured pork (not smoked or	(NA) (NA) (NA)	(X) (X) (X)	5 535.5 2 043.6 3 491.9	(NA) (NA) (NA)	(X) (X) (X)	6 069.0 2 941.7 3 127.3
20116 12 20136 12 20136 22 20136 22 20136 22 20116 31 20136 31 20136 35 20136 35 20116 41 20136 41	cooked)	(NA) 55 17 (NA) 14 (NA) 53 104 (NA) 26 26 (NA) 37 51 (NA)	100.8 11.6 89.1 132.6 110.1 (S) 1 808.2 757.7 1 050.5 155.2 130.8 24.5 1 504.0 587.9 916.1 221.1	159.8 197 140.1 87.7 69.9 17.8 2 503.2 1 080.8 1 422.4 127.0 106.3 20.7 1 481.1 533.6 947.5 212.6	(NA) 11 15 (NA) 21 15 (NA) 68 109 (NA) 32 30 (NA) 46 66 (NA)	76.3 47.4 *28.9 238.4 203.0 35.4 1 750.5 791.3 959.2 256.5 214.6 41.9 1 559.2 764.1 795.1	$\begin{array}{c} 130.1\\ 73.8\\ 56.3\\ 158.7\\ 135.5\\ 23.2\\ 2690.0\\ 1296.0\\ 1296.0\\ 2218.7\\ 176.0\\ 42.7\\ 176.0\\ 42.7\\ 1858.6\\ 840.4\\ 1018.2\\ 240.4\end{array}$
20116 52 20136 52 20116 61 20136 61	Made in slaughtering plantsmil lb Made elsewheremil lb_ Boiled ham, barbecue pork, and other cooked pork, except canned meats and sausagesmil lb Made in slaughtering plantsmil lbmil lbmil lbmil lbmil lbmil lbmil lbmil lbmil lbmil lb	25 48 (NA) 16 48	76.4 *144.7 533.8 99.6 434.2	74.4 138.2 799.7 147.0 652.7	29 49 (NA) 19 55	46.6 120.8 292.3 93.7 198.6	51.3 189.1 492.3 152.1 340.2
20116 00 20136 00	Pork, processed or cured (not canned or made into sausage), n.s.k. Made in slaughtering plants Made elsewhere	(NA) (NA) (NA)	(X) (X) (X)	164.3 11.9 152.5	(NA) (NA) (NA)	(X) (X) (X)	280.3 118.5 161.8
20117 20137 20117 11 20137 11 20117 17 20137 17 20137 17 20117 21 20137 21	Sausages and similar products (not canned) Made in slaughtering plants Fresh sausagemil lb Made in slaughtering plantsmil lb Made elsewheremil lb Made in slaughtering plantsmil lb Made elsewheremil lb Frankfurters, including weinersmil lb Made elsewheremil lb Made elsewheremil lb Made elsewheremil lb Made elsewheremil lbmil lb Made elsewheremil lbmil lbmil lbmil lb	(NA) (NA) (NA) (NA) 128 (NA) 17 92 (NA) 36 123	(X) (X) **1 141.6 (S) 556.8 582.0 96.6 485.4 1 459.1 359.6 1 099.5	7 463.9 1 718.2 5 745.7 1 591.6 752.9 838.7 1 115.4 171.1 944.3 1 627.1 359.4 1 267.8	(NA) (NA) (NA) (NA) 132 (NA) 20 98 (NA) 54 139	(X) (X) 1 010.3 589.6 420.7 596.2 118.2 * 478.0 1 512.7 432.1 1 080.6	7 054.1 2 079.7 4 974.4 1 267.5 779.1 488.4 1 209.4 220.0 989.4 1 673.4 414.0 1 259.4
20117 35 20137 35 20117 91 20137 91 20117 00 20137 00	Other sausage, smoked or cooked mill b. Made in slaughtering plants mill b. Made elsewhere mill b. Jellied goods and similar preparations, not canned mill b. Made in slaughtering plants mill b. Made is slaughtering plants mill b. Made elsewhere mill b. Sausages and similar products (not canned), n.s.k. mill b. Made in slaughtering plants mill b. Made in slaughtering plants mill b. Made elsewhere mill b.	(NA) 47 194 (NA) 14 39 (NA) (NA) (NA)	2 125.2 *280.0 1 845.3 70.8 20.6 50.2 (X) (X) (X)	2 766.1 386.8 2 379.3 80.4 19.7 60.7 283.2 28.4 254.8	(NA) 63 200 (NA) 17 40 (NA) (NA) (NA)	1 911.5 478.1 1 433.4 60.9 20.5 *40.4 (X) (X) (X)	2 460.5 531.0 1 929.5 67.4 26.8 40.6 375.8 108.8 267.0
20118 00 20138 00	Canned meats (except dog, cat, and baby food)mil lb Made in slaughtering plantsmil lb Made elsewheremil lb	(NA) 5 32	(D) (D) (S)	(D) (D) 873.0	(NA) 8 46	1 120.9 271.9 849.0	1 312.1 402.0 910.1

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

¹Data reported by all producers, not just those with shipments of \$100,000 or more. ²For some establishments, data have been estimated from central unit values which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: *10 to 19 percent estimated; **20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

20A-18 MEAT PRODUCTS

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
20111, BEEF, NOT CANNED OR MADE INTO SAUSAGE			20117, SAUSAGES AND SIMILAR PRODUCTS (NOT CANNED)		
United States	26 890.2	21 684.0	United States	1 718.2	2 079.7
Arizona	294.1	(NA)	Alabama	80.4	(NA)
California	711.9 2 167.7	587.8 1 591.6	Georgia	34.9	65.3
Florida	28.0	95.5	IllinoisIndiana	32.7 37.7	(NA) (NA)
Georgia	126.6	(NA)	Kentucky	105.5	145.5
Hawaii	15.7	(NA)	North Carolina	43.7	58.2
ldahoinitiationalista initiationalista initia	484.4 793.2	(NA) 1 096.2	Oklahoma	22.1	17.9
Indiana	42.7	(NA)	Pennsylvania Tennessee	64.1 128.7	67.0 130.0
owa	1 357.0	1 411.1	Texas	49.6	82.4
Kansas	5 118.8	4 082.5			
Louisiana Maryland	3.3 24.9	6.5 26.4	20118, CANNED MEATS (EXCEPT DOG, CAT,		
Michigan	309.3	189.8	AND BABY FOOD)		
Minnesota	740.9	638.9	United States	(D)	402.0
Mississippi	30.2	(NA)			
Missouri Nebraska	65.2 5 829.4	61.0 3 341.9			
New Jersey	35.6	(NA)	20119, HIDES, SKINS, AND PELTS		
New Mexico	69.3	(NA)		4 000 0	4 000 4
New York	2.9	78.3	United States	1 992.2	1 638.4
North CarolinaNorth Dakota	64.9 107.7	(NA) (NA)	California	36.4	48.7
Ohio	122.3	251.9	Indiana	7.6	3.3
Oklahoma	11.0	136.9	lowa Kansas	92.5 378.3	116.7 280.4
Oregon	41.1	33.8	Kentucky	3.0	2.5
PennsylvaniaSouth Carolina	998.2 59.9	538.4 (NA)	Maryland	2.1	(NA)
South Dakota	306.8	331.4	Minnesota	53.2	54.Ó
Tennessee	39.7	69.4	NebraskaOhio	497.7 5.9	254.4 14.8
Texas	4 578.3	3 543.2	South Dakota	21.7	23.5
Utah	466.5	(NA)	Texas Wisconsin	304.4 91.8	272.1 69.7
Vermont Virginia	3.3	(NA) (NA)		0110	
Washington	702.8	638.3 859.4	2011B, MISCELLANEOUS BYPRODUCTS OF		
Wisconsin	1 078.3	039.4	MEAT PACKING PLANTS		
20112, VEAL, NOT CANNED OR MADE INTO SAUSAGE			United States	(D)	460.0
United States	283.0	379.4	California Colorado	12.1 27.5	10.2 (NA)
New York			Illinois		11.4
	111	(NIA)		36.9	
	11.1	(NA)	Indiana Iowa	4.3 40.8	(NA) 42.6
20113, LAMB AND MUTTON, NOT CANNED OR MADE INTO SAUSAGE	11.1	(NA)	Indiana Iowa Kansas Kentucky	4.3 40.8 37.4 2.9	(NA) 42.6 29.0 (NA)
20113, LAMB AND MUTTON, NOT CANNED OR MADE INTO SAUSAGE United States	11.1 335.0	(NA) 379.5	Indiana	4.3 40.8 37.4 2.9 13.1 24.5	(NA) 42.6 29.0 (NA) 15.5 26.9
OR MADE INTO SAUSAGE			Indiana Iowa Kansas Kentucky Michigan	4.3 40.8 37.4 2.9 13.1	(NA) 42.6 29.0 (NA) 15.5
OR MADE INTO SAUSAGE			Indiana Iowa Kansas Kentucky Michigan Minnesota Nebraska Ohio	4.3 40.8 37.4 2.9 13.1 24.5 93.4 6.5	(NA) 42.6 29.0 (NA) 15.5 26.9 (NA) 14.2
OR MADE INTO SAUSAGE United States 20114, PORK, NOT CANNED OR MADE INTO			Indiana Iowa Kansas Kentucky Michigan Minnesota Nebraska	4.3 40.8 37.4 2.9 13.1 24.5 93.4	(NA) 42.6 (NA) 15.5 26.9 (NA)
OR MADE INTO SAUSAGE			Indiana	4.3 40.8 37.4 2.9 13.1 24.5 93.4 6.5 22.4 8.0 114.1	(NA) 42.6 29.0 (NA) 15.5 26.9 (NA) 14.2 7.7 (NA) 81.0
OR MADE INTO SAUSAGE United States 20114, PORK, NOT CANNED OR MADE INTO			Indiana Iowa Kansas Kentucky Michigan Minnesota Nebraska Pennsylvania South Dakota	4.3 40.8 37.4 2.9 13.1 24.5 93.4 6.5 22.4 8.0	(NA) 42.6 29.0 (NA) 15.5 26.9 (NA) 14.2 7.7 (NA)
OR MADE INTO SAUSAGE United States 20114, PORK, NOT CANNED OR MADE INTO SAUSAGE United States	335.0 9 635.0	379.5 8 406.3	Indiana lowa Kansas Kentucky Michigan Minnesota Nebraska Ohio Pennsylvania South Dakota Texas Texas Washington	4.3 40.8 37.4 2.9 13.1 24.5 93.4 6.5 22.4 8.0 114.1	(NA) 42.6 29.0 (NA) 15.5 26.9 (NA) 14.2 7.7 (NA) 81.0
OR MADE INTO SAUSAGE United States 20114, PORK, NOT CANNED OR MADE INTO SAUSAGE United States Georgia	335.0 9 635.0 117.1 955.0	379.5 8 406.3 140.8 643.9	Indiana	4.3 40.8 37.4 2.9 13.1 24.5 93.4 6.5 22.4 8.0 114.1	(NA) 42.6 29.0 (NA) 15.5 26.9 (NA) 14.2 7.7 (NA) 81.0
OR MADE INTO SAUSAGE United States	335.0 9 635.0 117.1 955.0 505.7	379.5 8 406.3 140.8 643.9 281.6	Indiana Iowa Kansas Michigan Minnesota Nebraska Pennsylvania South Dakota Texas Washington 20136, PORK, PROCESSED OR CURED,	4.3 40.8 37.4 2.9 13.1 24.5 93.4 6.5 22.4 8.0 114.1	(NA) 42.6 29.0 (NA) 15.5 26.9 (NA) 14.2 7.7 (NA) 81.0
OR MADE INTO SAUSAGE United States	335.0 9 635.0 117.1 955.0 505.7 3 607.3 930.5	379.5 8 406.3 140.8 643.9 281.6 2 886.9 750.3	Indiana	4.3 40.8 37.4 2.9 13.1 24.5 93.4 6.5 22.4 8.0 114.1	(NA) 42.6 29.0 (NA) 15.5 26.9 (NA) 14.2 7.7 (NA) 81.0
OR MADE INTO SAUSAGE United States	335.0 9 635.0 117.1 955.0 505.7 3 607.3 930.5 623.9	379.5 8 406.3 140.8 643.9 281.6 2 886.9 750.3 (NA)	Indiana Iowa Kansas Michigan Minnesota Nebraska Pennsylvania South Dakota Pennsylvania South Dakota Texas Washington 20136, PORK, PROCESSED OR CURED, INCLUDING FROZEN, NOT CANNED OR MADE INTO SAUSAGE	4.3 40.8 37.4 2.9 13.1 24.5 93.4 6.5 22.4 8.0 114.1 5.2	(NA) 42.6 29.0 (NA) 15.5 26.9 (NA) 14.2 7.7 (NA) 81.0 2.2
OR MADE INTO SAUSAGE United States 20114, PORK, NOT CANNED OR MADE INTO SAUSAGE United States Georgia Indiana Indiana Minnesota Noth Carolina	335.0 9 635.0 117.1 955.0 505.7 3 607.3 930.5	379.5 8 406.3 140.8 643.9 281.6 2 886.9 750.3	Indiana	4.3 40.8 37.4 2.9 13.1 24.5 93.4 6.5 22.4 8.0 114.1 5.2 3 491.9 62.8	(NA) 42.6 29.0 (NA) 15.5 26.9 (NA) 14.2 7.7 (NA) 81.0 2.2 3 127.3 135.4
OR MADE INTO SAUSAGE United States 20114, PORK, NOT CANNED OR MADE INTO SAUSAGE United States Georgia Indiana Indiana Minnesota Noth Carolina	335.0 9 635.0 117.1 955.0 505.7 3 607.3 930.5 623.9 338.5	379.5 8 406.3 140.8 643.9 281.6 2 886.9 750.3 (NA) (NA)	Indiana lowa Kansas Kentucky Michigan Minnesota Nebraska Ohio Pennsylvania South Dakota Pennsylvania South Dakota Texas Vashington 20136, PORK, PROCESSED OR CURED, INCLUDING FROZEN, NOT CANNED OR MADE INTO SAUSAGE United States California Florida Georgia	4.3 40.8 37.4 2.9 13.1 24.5 93.4 6.5 22.4 8.0 114.1 5.2 3 491.9 62.8 73.6 5.0	(NA) 42.6 29.0 (NA) 15.5 26.9 (NA) 14.2 7.7 (NA) 81.0 2.2 3 127.3 135.4 (NA) 9.3
OR MADE INTO SAUSAGE United States	335.0 9 635.0 117.1 955.0 505.7 3 607.3 930.5 623.9 338.5	379.5 8 406.3 140.8 643.9 281.6 2 886.9 750.3 (NA) (NA)	Indiana	4.3 40.8 37.4 2.9 13.1 24.5 93.4 6.5 22.4 8.0 114.1 5.2 3 491.9 62.8 73.6 5.0 136.6 5.0	(NA) 42.6 29.0 (NA) 15.5 26.9 (NA) 14.2 7.7 (NA) 2.2 3 127.3 135.4 (NA) 9.3
OR MADE INTO SAUSAGE United States	335.0 9 635.0 117.1 955.0 505.7 3 607.3 930.5 623.9 338.5	379.5 8 406.3 140.8 643.9 281.6 2 886.9 750.3 (NA) (NA)	Indiana lowa Kansas Michigan Minesota Nebraska Ohio Pennsylvania South Dakota Pennsylvania South Dakota Texas Washington Vashington UnicLUDING FROZEN, NOT CANNED OR MADE INTO SAUSAGE United States California Florida Georgia Ilinois Iowa	4.3 40.8 37.4 2.9 13.1 24.5 93.4 6.5 22.4 8.0 114.1 5.2 3 491.9 62.8 73.6 5.0	(NA) 42.6 29.0 (NA) 15.5 26.9 (NA) 14.2 7.7 (NA) 81.0 2.2 3 127.3 135.4 (NA) 9.3
OR MADE INTO SAUSAGE United States	335.0 9 635.0 117.1 956.0 505.7 3 607.3 930.5 623.9 338.5 212.6 94.2	379.5 8 406.3 140.8 643.9 281.6 2 886.9 750.3 (NA) 344.7 128.0	Indiana	4.3 40.8 37.4 2.9 13.1 24.5 93.4 6.5 22.4 8.0 114.1 5.2 3 491.9 62.8 73.6 5.0 136.6 323.6 63.0	(NA) 42.6 29.0 (NA) 15.5 26.9 (NA) 14.2 7.7 (NA) 8 14.2 7.7 (NA) 8 2.2 3 127.3 135.4 (NA) 9.3 177.8 144.3 (NA)
OR MADE INTO SAUSAGE United States 20114, PORK, NOT CANNED OR MADE INTO SAUSAGE United States Georgia Illinois Ova North Carolina North Carolina Dhio 20115, LARD United States Illinois	335.0 9 635.0 117.1 955.0 505.7 3 607.5 930.5 623.9 338.5 212.6 94.2 12.5	379.5 8 406.3 140.8 643.9 281.6 2 886.9 750.3 (NA) (NA) 344.7 128.0 (NA)	Indiana	4.3 40.8 37.4 2.9 13.1 24.5 93.4 6.5 22.4 8.0 114.1 5.2 3 491.9 62.8 73.6 5.0 136.6 323.6 63.0 228.3 160.6	(NA) 42.6 29.0 (NA) 15.5 26.9 (NA) 14.2 7.7 (NA) 81.0 2.2 3 127.3 135.4 (NA) 9.3 177.8 144.3 (NA) 285.8
OR MADE INTO SAUSAGE United States 20114, PORK, NOT CANNED OR MADE INTO SAUSAGE United States Georgia diana vorth carolina North Carolina Dhio 20115, LARD United States llinois	335.0 9 635.0 117.1 956.0 505.7 3 607.3 930.5 623.9 338.5 212.6 94.2	379.5 8 406.3 140.8 643.9 281.6 2 886.9 750.3 (NA) 344.7 128.0	Indiana	4.3 40.8 37.4 2.9 13.1 24.5 93.4 6.5 22.4 8.0 114.1 5.2 3 491.9 62.8 73.6 5.0 136.6 323.6 63.0 228.3 160.6 98.7	(NA) 42.6 29.0 (NA) 15.5 26.9 (NA) 14.2 7.7 (NA) 81.0 2.2 3 127.3 135.4 (NA) 9.3 177.8 135.4 (NA) 9.3 177.8 174.3 (NA) 285.8 78.6
OR MADE INTO SAUSAGE United States	335.0 9 635.0 117.1 955.0 505.7 3 607.5 930.5 623.9 338.5 212.6 94.2 12.5	379.5 8 406.3 140.8 643.9 281.6 2 886.9 750.3 (NA) (NA) 344.7 128.0 (NA)	Indiana	4.3 40.8 37.4 2.9 13.1 24.5 93.4 6.5 22.4 8.0 114.1 5.2 3 491.9 62.8 73.6 5.0 136.6 323.6 63.0 228.3 160.6	(NA) 42.6 29.0 (NA) 15.5 26.9 (NA) 14.2 7.7 (NA) 81.0 2.2 3 127.3 135.4 (NA) 9.3 177.8 144.3 (NA) 285.8
OR MADE INTO SAUSAGE United States	335.0 9 635.0 117.1 955.0 505.7 3 607.5 930.5 623.9 338.5 212.6 94.2 12.5	379.5 8 406.3 140.8 643.9 281.6 2 886.9 750.3 (NA) (NA) 344.7 128.0 (NA)	Indiana	4.3 40.8 37.4 2.9 13.1 24.5 93.4 6.5 22.4 8.0 114.1 5.2 3 491.9 62.8 73.6 5.0 136.6 323.6 5.0 136.6 323.6 5.0 136.6 323.6 5.0 136.6 323.8 6.3 0 136.6 323.8 160.6 98.7 150.8	(NA) 42.6 29.0 (NA) 15.5 26.9 (NA) 14.2 7.7 (NA) 81.0 2.2 3 127.3 135.4 (NA) 9.3 175.8 78.6 108.5 175.0 217.5
OR MADE INTO SAUSAGE United States	335.0 9 635.0 117.1 955.0 505.7 3 607.3 930.5 623.9 338.5 212.6 94.2 12.5 5.2	379.5 8 406.3 140.8 643.9 281.6 2 886.9 750.3 (NA) (NA) 344.7 128.0 (NA) 5.6	Indiana	4.3 40.8 37.4 2.9 13.1 24.5 93.4 6.5 22.4 8.0 114.1 5.2 3 491.9 62.8 73.6 5.0 136.6 323.6 63.0 228.3 160.6 98.7 150.8	(NA) 42.6 29.0 (NA) 15.5 26.9 (NA) 14.2 7.7 (NA) 2.2 3 127.3 135.4 (NA) 9.3 177.8 135.4 (NA) 9.3 177.8 144.3 (NA) 285.8 78.6 108.5 175.0
OR MADE INTO SAUSAGE United States	335.0 9 635.0 117.1 955.0 505.7 3 607.5 930.5 623.9 338.5 212.6 94.2 12.5	379.5 8 406.3 140.8 643.9 281.6 2 886.9 750.3 (NA) (NA) 344.7 128.0 (NA)	Indiana	4.3 40.8 37.4 2.9 13.1 24.5 93.4 6.5 22.4 8.0 114.1 5.2 3 491.9 62.8 73.66 5.0 136.6 323.6 63.0 228.3 160.6 98.7 150.8 260.7 409.1 129.4 99.1	(NA) 42.6 29.0 (NA) 15.5 26.9 (NA) 14.2 7.7 (NA) 81.0 2.2 3 127.3 135.4 (NA) 9.3 177.8 144.3 (NA) 285.8 78.6 108.5 175.0 217.5 210.4 156.4 81.9
OR MADE INTO SAUSAGE United States	335.0 9 635.0 117.1 950.0 505.7 3 607.3 930.5 623.9 338.5 212.6 94.2 12.5 5.2 2 2 043.6 29.8	379.5 8 406.3 140.8 643.9 281.6 2 886.9 750.3 (NA) (NA) 344.7 128.0 (NA) 5.6	Indiana	4.3 40.8 37.4 2.9 13.1 24.5 93.4 6.5 22.4 8.0 114.1 5.2 3 491.9 6.2 8.0 114.1 5.2 3 491.9 6.2 8.0 136.6 322.6 5.0 136.6 322.6 322.6 9.8,7 150.8 260.7 409.1 129.4 9.9,1 129.4 9.9,1 129.4 9.9,1 129.4 9.9,1 129.4 9.9,1 129.4 9.0,1 129.4 9.0,1 129.4 9.0,1 129.4 9.0,1 129.4 9.0,1 129.4 129.5	(NA) 42.6 29.0 (NA) 15.5 26.9 (NA) 14.2 7.7 (NA) 81.0 81.0 81.0 81.0 81.0 81.0 81.0 81.0
OR MADE INTO SAUSAGE United States	335.0 9 635.0 117.1 956.0 505.7 3 607.3 930.5 623.9 338.5 212.6 94.2 12.5 5.2 2 043.6	379.5 8 406.3 140.8 643.9 281.6 2 886.9 750.3 (NA) (NA) 344.7 128.0 (NA) 5.6 2 941.7 (NA) 415.5	Indiana	4.3 40.8 37.4 2.9 13.1 24.5 93.4 6.5 22.4 8.0 114.1 5.2 3 491.9 62.8 73.6 5.0 136.6 323.6 63.0 228.3 160.6 323.6 63.0 228.3 160.6 98.7 150.8 260.7 129.4 99.1 129.4 99.1 129.4 99.1	(NA) 42.6 29.0 (NA) 15.5 26.9 (NA) 14.2 7.7 (NA) 8 14.2 7.7 (NA) 8 14.2 7.7 (NA) 8 14.2 7.7 (NA) 8 14.2 7.7 (NA) 8 14.2 7.7 (NA) 8 135.4 (NA) 9.3 177.8 144.3 (NA) 825.8 78.6 108.5 175.0 217.5 210.4 156.4 81.9 177.6

MANUFACTURES-INDUSTRY SERIES

MEAT PRODUCTS 20A-19

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

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

Product class and geographic area	1992 value of product shipments	1987 value of product shipments	Product class and geographic area	1992 value of product shipments	1987 value of product shipments
20137, SAUSAGE AND SIMILAR PRODUCTS, NOT CANNED			20151, YOUNG CHICKENS (USUALLY UNDER 20 WEEKS OF AGE) WHOLE OR PARTS		
United States	5 745.7	4 974.4	United States	12 260.0	7 451.7
United States	5 745.7	4 5/4.4		1 588.6	869.2
California	353.6	434.3	Alabama Arkansas	1 625.5	1 244.6
Colorado	77.7	76.6	Delaware	570.6	394.5
Connecticut	33.5	39.2	Florida	263.5	171.5
Hawaii	7.4	8.2	Georgia	1 754.4	895.0
Illinois	548.2	554.9	Maryland	364.9	243.9
			Maryianu	890.7	448.1
lowa	294.5	196.5	Mississippi	378.7	248.4
Kansas	199.7	183.9	North Carolina	1 224.3	947.7
Louisiana	19.5	25.6	Ohio	48.7	20.0
Massachusetts	119.2	116.2	Pennsylvania	246.3	130.6
Michigan	369.8	378.0	Tennessee	204.2	(NA)
			Virginia	754.6	526.4
Minnesota	26.9	25.0	Washington	109.6	46.0
Missouri	106.2	117.9			
Nebraska	65.2	61.7	20152 HENS AND/ OR FOWL (INCLUDING		
New Jersey New York	149.6 158.5	110.2 292.9	20152, HENS AND/ OR FOWL (INCLUDING FROZEN WHOLE OR PARTS)		
	158.5	292.9			
	105 -		United States	106.6	210.7
North Carolina	125.7	34.3			
Ohio	73.5	147.8			
Oklahoma	114.7 120.9	55.5 96.6	20153, TURKEYS (INCLUDING FROZEN,		
Oregon Pennsylvania	309.8	330.0	WHOLE OR PARTS)		
reninsylvania	509.0	550.0	-		
T	74.5	() ()	United States	2 881.1	1 645.1
Tennessee	71.5	(NA) 212.7	California	237.0	147.6
Texas Virginia	363.5 151.7	(NA)	lowa	172.2	96.4
Washington	66.9	(NA) (NA)	Minnesota	267.4	294.0
Wisconsin	969.1	746.3	Missouri	221.2	88.6
	000.1	740.0	North Carolina	477.0	210.5
			Ohio	27.5	(NA)
20138, CANNED MEATS (EXCEPT DOG, CAT, AND BABY FOOD), CONTAINING 20 PERCENT OR MORE MEAT			Pennsylvania	111.4	(NA) (NA)
20138, CANNED MEATS (EXCEPT DOG, CAT, AND BABY FOOD), CONTAINING 20 PERCENT OR MORE MEAT United States	873.0	910.1	Pennsylvania	73.9	(NA) (NA) 86.7
PERCENT OR MORE MEAT	873.0 56.6	910.1 (NA)	Pennsylvania	111.4	
PERCENT OR MORE MEAT United States			Pennsylvania	111.4	
PERCENT OR MORE MEAT United States	56.6	(NA)	Pennsylvania	111.4	
PERCENT OR MORE MEAT United States			Pennsylvania	111.4 73.9 6 380.7	86.7 3 725.3
PERCENT OR MORE MEAT United States	56.6 5 759.7 128.3	(NA) 3 834.1 (NA)	Pennsylvania 20154, OTHER POULTRY AND SMALL GAME (INCLUDING FROZEN, WHOLE OR PARTS) United States 20155, PROCESSED POULTRY AND SMALL GAME (EXCEPT SOUPS) CONTAINING 20 PERCENT OR MORE POULTRY OR MEAT United States Alabama	111.4 73.9 6 380.7 349.5	86.7 3 725.3 80.1
PERCENT OR MORE MEAT United States	56.6 5 759.7 128.3 448.3	(NA) 3 834.1 (NA) 315.5	Pennsylvania	111.4 73.9 6 380.7 349.5 1 417.3	86.7 3 725.3 80.1 651.0
PERCENT OR MORE MEAT United States Wisconsin 2013B, OTHER PROCESSED, FROZEN, OR COOKED MEATS United States	56.6 5 759.7 128.3 448.3 94.6	(NA) 3 834.1 (NA) 315.5 53.1	Pennsylvania 20154, OTHER POULTRY AND SMALL GAME (INCLUDING FROZEN, WHOLE OR PARTS) United States 20155, PROCESSED POULTRY AND SMALL GAME (EXCEPT SOUPS) CONTAINING 20 PERCENT OR MORE POULTRY OR MEAT United States Alabama	111.4 73.9 6 380.7 349.5	86.7 3 725.3 80.1
PERCENT OR MORE MEAT United States	56.6 5 759.7 128.3 448.3 94.6 31.7	(NA) 3 834.1 (NA) 315.5 53.1 71.3	Pennsylvania	111.4 73.9 6 380.7 349.5 1 417.3 218.4 27.4	86.7 3 725.3 80.1 651.0 256.1
PERCENT OR MORE MEAT United States Wisconsin 2013B, OTHER PROCESSED, FROZEN, OR COOKED MEATS United States	56.6 5 759.7 128.3 448.3 94.6	(NA) 3 834.1 (NA) 315.5 53.1	Pennsylvania	111.4 73.9 6 380.7 349.5 1 417.3 218.4 27.4 314.1	86.7 3 725.3 80.1 651.0 256.1 (NA) 137.4
PERCENT OR MORE MEAT United States Wisconsin 2013B, OTHER PROCESSED, FROZEN, OR COOKED MEATS United States Arkansas	56.6 5 759.7 128.3 448.3 94.6 31.7 353.0	(NA) 3 834.1 (NA) 315.5 53.1 71.3 220.7	Pennsylvania	111.4 73.9 6 380.7 349.5 1 417.3 218.4 27.4 314.1 314.1 370.0	86.7 3 725.3 80.1 651.0 256.1 (NA) 137.4 274.5
PERCENT OR MORE MEAT United States Wisconsin 2013B, OTHER PROCESSED, FROZEN, OR COOKED MEATS United States	56.6 5 759.7 128.3 448.3 94.6 31.7 353.0 430.5	(NA) 3 834.1 (NA) 315.5 53.1 71.3 220.7 163.9	Pennsylvania	111.4 73.9 6 380.7 349.5 1 417.3 218.4 27.4 314.1 370.0 326.1	86.7 3 725.3 80.1 651.0 256.1 (NA) 137.4 274.5 129.3
PERCENT OR MORE MEAT United States Wisconsin	56.6 5 759.7 128.3 448.3 94.6 31.7 353.0 430.5 99.7	(NA) 3 834.1 (NA) 315.5 53.1 71.3 220.7 163.9 (NA)	Pennsylvania	111.4 73.9 6 380.7 349.5 1 417.3 218.4 27.4 314.1 370.0 326.1 42.8	86.7 3 725.3 80.1 651.0 256.1 (NA) 137.4 274.5 129.3 (NA)
PERCENT OR MORE MEAT United States Wisconsin 2013B, OTHER PROCESSED, FROZEN, OR COOKED MEATS United States Arkansas	56.6 5 759.7 128.3 448.3 94.6 31.7 353.0 430.5 99.7 234.6	(NA) 3 834.1 (NA) 315.5 53.1 71.3 220.7 163.9 (NA) (NA)	Pennsylvania 20154, OTHER POULTRY AND SMALL GAME (INCLUDING FROZEN, WHOLE OR PARTS) United States 20155, PROCESSED POULTRY AND SMALL GAME (EXCEPT SOUPS) CONTAINING 20 PERCENT OR MORE POULTRY OR MEAT United States Alabama Arkansas Alabama Arkansas Georgia Minnesota Missouri Nebraska	111.4 73.9 6 380.7 349.5 1 417.3 218.4 27.4 314.1 370.0 326.1 42.8 125.5	86.7 3 725.3 80.1 651.0 256.1 (NA) 137.4 274.5 129.3 (NA) (NA)
PERCENT OR MORE MEAT United States Wisconsin	56.6 5 759.7 128.3 448.3 94.6 31.7 353.0 430.5 99.7 234.6 53.5	(NA) 3 834.1 (NA) 315.5 53.1 71.3 220.7 163.9 (NA) (NA) (NA)	Pennsylvania	111.4 73.9 6 380.7 349.5 1 417.3 218.4 27.4 314.1 370.0 326.1 42.8 125.5 7.0	86.7 3 725.3 80.1 651.0 256.1 (NA) 137.4 274.5 129.3 (NA) (NA) (NA) (NA)
PERCENT OR MORE MEAT United States Wisconsin	56.6 5 759.7 128.3 448.3 94.6 31.7 353.0 430.5 99.7 234.6	(NA) 3 834.1 (NA) 315.5 53.1 71.3 220.7 163.9 (NA) (NA)	Pennsylvania	111.4 73.9 6 380.7 349.5 1 417.3 218.4 27.4 314.1 370.0 326.1 42.8 125.5 7.0 495.0	86.7 3 725.3 80.1 651.0 256.1 (NA) 137.4 274.5 129.3 (NA) (NA) 14.5 212.2
PERCENT OR MORE MEAT United States Wisconsin 2013B, OTHER PROCESSED, FROZEN, OR COOKED MEATS United States Arkansas	56.6 5 759.7 128.3 448.3 94.6 31.7 353.0 430.5 99.7 234.6 53.5 54.7	(NA) 3 834.1 (NA) 315.5 53.1 71.3 220.7 163.9 (NA) (NA) (NA) (NA) (NA)	Pennsylvania 20154, OTHER POULTRY AND SMALL GAME (INCLUDING FROZEN, WHOLE OR PARTS) United States 20155, PROCESSED POULTRY AND SMALL GAME (EXCEPT SOUPS) CONTAINING 20 PERCENT OR MORE POULTRY OR MEAT United States AlabarnaArkansas California Florida Georgia Missouri New Jersey New Jersey North Carolina Pennsylvania	111.4 73.9 6 380.7 349.5 1 417.3 218.4 218.4 218.4 218.4 218.4 218.4 218.5 218.5 218.5 218.5 219.5 210	86.7 3 725.3 80.1 651.0 256.1 (NA) 137.4 274.5 129.3 (NA) (NA) 14.5 212.2 321.2
PERCENT OR MORE MEAT United States Wisconsin 2013B, OTHER PROCESSED, FROZEN, OR COOKED MEATS United States Arkansas California California Georgia Illinois Indiana Indiana Imdiana Imdiana Indiana Imdiana Indiana Imdiana Imd	56.6 5 759.7 128.3 448.3 94.6 31.7 353.0 430.5 99.7 234.6 53.5 54.7 68.2	(NA) 3 834.1 (NA) 315.5 53.1 71.3 220.7 163.9 (NA) (NA) (NA) (NA) 44.2 46.3	Pennsylvania	111.4 73.9 6 380.7 349.5 1 417.3 218.4 27.4 314.1 370.0 326.1 42.8 125.5 7.0 495.0 262.2 293.7	86.7 3 725.3 80.1 651.0 256.1 (NA) 137.4 274.5 129.3 (NA) (NA) (NA) 14.5 212.2 321.2 321.2 147.1
PERCENT OR MORE MEAT United States Wisconsin 2013B, OTHER PROCESSED, FROZEN, OR COOKED MEATS United States Arkansas	56.6 5 759.7 128.3 448.3 94.6 31.7 353.0 430.5 99.7 234.6 53.5 54.7 68.2 150.3	(NA) 3 834.1 (NA) 315.5 53.1 71.3 220.7 163.9 (NA) (NA) (NA) (NA) (NA) 44.2 46.3 77.3	Pennsylvania 20154, OTHER POULTRY AND SMALL GAME (INCLUDING FROZEN, WHOLE OR PARTS) United States 20155, PROCESSED POULTRY AND SMALL GAME (EXCEPT SOUPS) CONTAINING 20 PERCENT OR MORE POULTRY OR MEAT United States AlabamaArkansas	111.4 73.9 6 380.7 349.5 1 417.3 218.4 27.4 314.1 370.0 326.1 42.8 125.5 7.0 495.0 262.2 293.7 168.3	86.7 3 725.3 80.1 651.0 256.1 (NA) 137.4 274.5 129.3 (NA) (NA) 14.5 212.2 321.2 321.2 321.2 147.1 (NA)
PERCENT OR MORE MEAT United States	56.6 5 759.7 128.3 448.3 94.6 31.7 353.0 430.5 99.7 234.6 53.5 54.7 68.2 150.3 75.7	(NA) 3 834.1 (NA) 315.5 53.1 71.3 220.7 163.9 (NA) (NA) (NA) (NA) 44.2 46.3 77.3 48.4	Pennsylvania	111.4 73.9 6 380.7 349.5 1 417.3 218.4 27.4 314.1 370.0 326.1 42.8 125.5 7.0 495.0 262.2 293.7	86.7 3 725.3 80.1 651.0 256.1 (NA) 137.4 274.5 129.3 (NA) (NA) 14.5 212.2 321.2 321.2 147.1
PERCENT OR MORE MEAT United States	56.6 5 759.7 128.3 448.3 94.6 31.7 353.0 430.5 99.7 234.6 53.5 54.7 68.2 150.3	(NA) 3 834.1 (NA) 315.5 53.1 71.3 220.7 163.9 (NA) (NA) (NA) (NA) (NA) 44.2 46.3 77.3	Pennsylvania 20154, OTHER POULTRY AND SMALL GAME (INCLUDING FROZEN, WHOLE OR PARTS) United States 20155, PROCESSED POULTRY AND SMALL GAME (EXCEPT SOUPS) CONTAINING 20 PERCENT OR MORE POULTRY OR MEAT United States AlabamaArkansas Alabama Arkansas Georgia Missouri Georgia Missouri Nebraska New York North Carolina Pennsylvania Texas Visconsin	111.4 73.9 6 380.7 349.5 1 417.3 218.4 27.4 314.1 370.0 326.1 42.8 125.5 7.0 495.0 262.2 293.7 168.3	86.7 3 725.3 80.1 651.0 256.1 (NA) 137.4 274.5 129.3 (NA) 137.4 274.5 129.3 (NA) 14.5 212.2 321.2 321.2 147.1 (NA)
PERCENT OR MORE MEAT United States Wisconsin Ulited States United States United States United States United States Arkansas California Colorado Florida Florida Beorgia Ullinois Indiana India	56.6 5 759.7 128.3 448.3 94.6 31.7 353.0 430.5 99.7 234.6 53.5 54.7 68.2 150.3 75.7 167.4 113.9 99.0	(NA) 3 834.1 (NA) 315.5 53.1 71.3 220.7 163.9 (NA) (NA) (NA) (NA) (NA) (NA) 44.2 46.3 77.3 48.4 167.0 (NA) 182.3	Pennsylvania 20154, OTHER POULTRY AND SMALL GAME (INCLUDING FROZEN, WHOLE OR PARTS) United States 20155, PROCESSED POULTRY AND SMALL GAME (EXCEPT SOUPS) CONTAINING 20 PERCENT OR MORE POULTRY OR MEAT United States AlabamaArkansas	111.4 73.9 6 380.7 349.5 1 417.3 218.4 27.4 314.1 370.0 326.1 42.8 125.5 7.0 495.0 262.2 293.7 168.3	86.7 3 725.3 80.1 651.0 256.1 (NA) 137.4 274.5 129.3 (NA) 137.4 274.5 129.3 (NA) 14.5 212.2 321.2 321.2 147.1 (NA)
PERCENT OR MORE MEAT United States Wisconsin Ulited States United States United States United States United States Arkansas California Colorado Florida Florida Beorgia Ullinois Indiana India	56.6 5 759.7 128.3 448.3 94.6 31.7 353.0 430.5 99.7 234.6 53.5 54.7 68.2 150.3 75.7 167.4 113.9 99.0 344.2	(NA) 3 834.1 (NA) 315.5 53.1 71.3 220.7 163.9 (NA) (NA) (NA) (NA) 44.2 46.3 77.3 48.4 167.0 (NA) 182.3 125.7	Pennsylvania	111.4 73.9 6 380.7 349.5 1 417.3 218.4 27.4 314.1 370.0 326.1 42.8 125.5 7.0 495.0 262.2 293.7 168.3 135.4 746.2	86.7 3 725.3 80.1 651.0 256.1 (NA) 137.4 274.5 129.3 (NA) (NA) (NA) 14.5 212.2 321.2 321.2 147.1 (NA) 64.4 495.4
PERCENT OR MORE MEAT United States Wisconsin United States United States United States United States United States Arkansas California Colorado Florida Florida Georgia Ullinois Indiana Iowa Kansas Massachusetts Massachusetts Nebraska New Jersey New York Ohio Pennsylvania	56.6 5 759.7 128.3 448.3 94.6 31.7 353.0 430.5 99.7 234.6 53.5 54.7 68.2 150.3 75.7 167.4 113.9 99.0 344.2 610.2	(NA) 3 834.1 (NA) 315.5 53.1 71.3 220.7 163.9 (NA) (NA) (NA) (NA) (NA) (NA) 44.2 46.3 77.3 48.4 167.0 (NA) 182.3 125.7 485.4	Pennsylvania	111.4 73.9 6 380.7 349.5 1 417.3 218.4 27.4 314.1 370.0 326.1 42.8 125.5 7.0 495.0 263.2 293.7 168.3 135.4 746.2 39.3	86.7 3 725.3 80.1 651.0 256.1 (NA) 137.4 274.5 129.3 (NA) 14.5 212.2 321.2 147.1 (NA) 64.4 495.4 17.1
PERCENT OR MORE MEAT United States Wisconsin United States United States United States United States United States Arkansas California Colorado Florida Florida Florida Kansas. Massachusetts Minnesota Minnesota Missouri New Jersey. New York Ohio Pennsylvania Endiaea	56.6 5 759.7 128.3 448.3 94.6 31.7 353.0 430.5 99.7 234.6 53.5 54.7 68.2 150.3 75.7 167.4 113.9 99.0 344.2 610.2	(NA) 3 834.1 (NA) 315.5 53.1 71.3 220.7 163.9 (NA) (NA) (NA) (NA) (NA) (NA) 44.2 46.3 77.3 48.4 167.0 (NA) 182.3 125.7 485.4 136.1	Pennsylvania	111.4 73.9 6 380.7 349.5 1 417.3 218.4 27.4 314.1 370.0 326.1 42.8 125.5 7.0 495.0 262.2 293.7 168.3 135.4 746.2 39.3 50.7	86.7 3 725.3 80.1 651.0 256.1 (NA) 137.4 274.5 129.3 (NA) 137.4 274.5 129.3 (NA) 137.4 274.5 129.3 (NA) 137.4 4.5 212.2 321.2 321.2 147.1 (NA) 64.4 495.4 17.1 (NA)
PERCENT OR MORE MEAT United States	56.6 5 759.7 128.3 448.3 94.6 31.7 353.0 430.5 99.7 234.6 53.5 54.7 68.2 150.3 75.7 167.4 113.9 99.0 344.2 610.2	(NA) 3 834.1 (NA) 315.5 53.1 71.3 220.7 163.9 (NA) (NA) (NA) (NA) (NA) (NA) 44.2 46.3 77.3 48.4 167.0 (NA) 182.3 125.7 485.4	Pennsylvania	111.4 73.9 6 380.7 349.5 1 417.3 218.4 27.4 314.1 370.0 326.1 42.8 125.5 7.0 495.0 263.2 293.7 168.3 135.4 746.2 39.3	86.7 3 725.3 80.1 651.0 256.1 (NA) 137.4 274.5 129.3 (NA) (NA) 14.5 212.2 321.2 147.1 (NA) 64.4 495.4 17.1

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

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

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

Product code	Product class	1992	1991 ¹	1990 ¹	1989 ¹	1988 ¹	1987	1982	1977
2011-	Fresh and frozen meat from animals slaughtered in this plant	46 796.4	46 253.9	47 365.1	42 798.7	42 936.7	41 234.6	40 522.6	27 875.7
20111	Beef, not canned or made into sausage	26 890.2	26 710.6	27 106.1	24 302.1	23 327.7	21 684.0	20 606.7	14 095.8
20112	Veal, not canned or made into sausage	283.0	418.1	451.3	444.5	418.7	379.4	361.1	319.3
20113	Lamb and mutton, not canned or made into sausage	335.0	284.0	283.2	269.1	360.6	379.5	270.8	329.5
20114	Pork, not canned or made into sausage	9 635.0	9 526.9	9 589.8	7 961.3	8 630.4	8 406.3	8 071.8	5 647.5
20115 20116	Lard Pork, processed or cured (not canned or made into sausage)	94.2 2 043.6	86.3 2 777.0	100.6 2 479.0	121.0 2 391.5	130.9 2 456.8	128.0 2 941.7	239.6 3 042.0	214.1 2 095.3
20116	Sausages and similar products (not canned)	2 043.6	2 181.8	2 204.3	2 068.6	2 456.8 1 945.0	2 941.7	2 867.8	2 095.3
20117	Canned meats (except dog, cat, and baby food)	(D)	2 101.0	2 204.3	470.4	470.4	402.0	2 607.6	561.7
20119	Hides, skins, and pelts	1 992.2	1 893.2	2 205.9	2 060.5	2 020.3	1 638.4	867.1	807.7
2011B	Miscellaneous byproducts of meat packing plants	(D)	581.7	647.8	603.1	511.5	460.0	270.2	٦ ٦
20110	Fresh and frozen meat from animals slaughtered in this plant,	(2)		01110	000	01110	10010	21012	- 1 945.5
	n.s.k.	2 804.6	1 279.9	1 809.7	2 106.7	2 664.5	2 735.7	3 267.3	
2013-	Sausage and other prepared meats	17 718.9	16 422.4	16 714.0	15 544.1	15 269.0	14 352.8	10 508.2	7 146.8
20136	Pork, processed or cured, including frozen, not canned or made								
	into sausage	3 491.9	3 676.4	3 597.1	3 028.9	3 299.1	3 127.3	2 278.5	1 683.3
20137	Sausage and similar products, not canned	5 745.7	6 284.6	6 510.0	5 862.7	5 084.5	4 974.4	3 640.2	2 820.7
20138	Canned meats (except dog, cat, and baby food), containing 20								
	percent or more meat	873.0	1 089.4	1 288.1	1 192.4	1 094.1	910.1	890.4	694.6
2013B	Other processed, frozen, or cooked meats	5 759.7	4 992.4	4 886.0	4 711.0	4 248.4	3 834.1	1 824.7	- 1 948.1
20130	Sausage and other prepared meats, n.s.k.	1 848.6	379.5	432.9	749.2	1 542.9	1 506.8	1 874.4	
2015-	Poultry and egg processing	23 450.2	21 246.4	20 352.6	19 718.3	15 962.7	14 370.9	10 110.0	6 358.4
20151	Young chickens (usually under 20 weeks of age) whole or parts	12 260.0	11 623.3	10 899.4	10 392.6	8 072.6	7 451.7	6 017.4	3 961.1
20152	Hens and/ or fowl (including frozen whole or parts)	106.6	139.5	187.2	210.1	231.3	210.7	175.6	229.5
20153	Turkeys (including frozen, whole or parts)	2 881.1	2 574.9	2 519.5	2 210.5	1 962.5	1 645.1	1 272.4	927.3
20154	Other poultry and small game (including frozen, whole or parts)	73.9	33.1	28.2	58.5	80.0	86.7	58.9	57.9
20155	Processed poultry and small game (except soups) containing 20								
	percent or more poultry or meat	6 380.7	5 467.5	5 329.3	5 306.6	4 257.4	3 725.3	1 692.3	657.7
20159	Liquid, dried, and frozen eggs	746.2	939.2	847.9	760.9	522.9	495.4	329.7	312.7
20150	Poultry and egg processing, n.s.k.	1 001.7	469.0	541.1	779.1	836.1	756.1	563.7	212.2

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

Table 7. Materials Consumed by Kind: 1992 and 1987

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

		19	92	19	987
Material code	Material	Quantity ¹	Delivered cost (million dollars)	Quantity ¹	Delivered cost (million dollars)
	INDUSTRY 2011, MEAT PACKING PLANTS				
	Materials, ingredients, containers, and supplies	(X)	41 036.4	(X)	'36 652.9
021013 021011	Cattle slaughtered: Number of head1,000 Live weightmil lb	31 068.3 35 747.9	25 650.8 (X)	30 466.4 32 363.7	20 302.9 (X)
021023 021021	Calves slaughtered: Number of head1,000 Live weightmil lb	578.1 174.5	243.8 (X)	1 498.5 395.6	325.6 (X)
021313 021311	Hogs slaughtered: Number of head1,000 Live weightmil lb	86 308.4 21 511.9	9 677.0 (X)	74 133.7 18 188.7	9 219.2 (X)
021413 021411	Sheep and lambs slaughtered: Number of head1,000 Live weightmil lb	3 568.5 **549.2	288.8 (X)	3 743.2 437.3	350.1 (X)
201111 201121 201141 201132 201101	Fresh and frozen red meats, including variety meats: Beefmil lb Vealmil lb Porkmil lb Other fresh and frozen red meats Meat materials for sausage and canning not separable by	585.3 **17.2 *701.7 31.8	481.5 15.6 433.4 27.1	**463.1 42.1 892.3 4.6	416.7 54.1 679.2 4.6
201101 201161 201102	speciesmil lb Processed pork (cured, smoked, etc.)mil lb	42.7 34.0	17.4 28.9	*261.3 631.0	185.8 405.4
190032 201191 209993	Other purchased meat materials (cured beef, cured lamb, etc.)mil lb Poultry; live, fresh, frozen, or preparedmil lb Hides, skins, and pelts Spices and curing materials	20.9 (X) (X) (X)	24.8 57.1 23.0 69.7	46.8 (X) (X) (X)	44.0 25.5 49.3 66.6
201391 267101 265001	Casings: Animal and collagen Packaging paper and plastics film, coated and laminated Paperboard containers, boxes, and corrugated	(X) (X)	23.2 239.8	(X) (X)	19.9 (²)
308012 970099	paperboard Synthetic, including cellulosic and fibrous reinforced All other materials and components, parts, containers, and	(X) (X)	317.9 49.0	(X) (X)	(²) 34.4
971000	Supplies Materials, ingredients, containers, and supplies, n.s.k. ³	(X) (X)	566.8 2 800.6	(X) (X)	² 971.7 '3 497.9

See footnotes at end of table.

MANUFACTURES-INDUSTRY SERIES

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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		1987	
Material code	Material	Quantity ¹	Delivered cost (million dollars)	Quantity ¹	Delivered cost (million dollars)
	INDUSTRY 2013, SAUSAGES AND OTHER PREPARED MEATS				
	Materials, ingredients, containers, and supplies	(X)	12 723.5	(X)	'10 308.2
201111 201121 201141 201132 201101 201161 201102 190032 209993 201191	Fresh and frozen red meats purchased from other packers: Beefmil lb Vealmil lb Porkmil lb Other fresh and frozen red meats Meat materials for sausage and canning not separable by species Processed pork (cured, smoked, etc.)mil lb Potter purchased meat materials (cured beef, cured lamb, etc.)mil lb Poultry; live, fresh, frozen, or preparedmil lb Spices and curing materials Hides, skins, and pelts	4 061.7 159.0 4 385.8 **69.8 *921.6 506.5 65.7 (X) (X) (X) (X) (X)	4 236.3 150.7 2 950.5 31.9 612.0 422.6 47.8 402.3 246.8 46.9	*3 549.4 (S) 3 835.3 **101.2 (S) (S) **128.9 (X) (X) (X)	3 302.6 106.0 3 121.4 67.2 648.3 146.4 83.4 160.0 169.1 (⁴)
201391 308012 265001 267101 970099 971000	Casings: Animal and collagen	XX XX XX XX XX XX	101.8 169.6 290.4 301.5 914.7 1 797.6	88 88 88	64.2 138.4 (⁴) ⁴ 912.9 '1 388.3
	INDUSTRY 2015, POULTRY SLAUGHTERING AND PROCESSING Materials, ingredients, containers, and supplies	(X)	16 174.6	(X)	10 173.7
025111 025121 025311 025911 201501 025211 265001	Poultry and small game slaughtered: Young chickens (including commercial broilers) mil lb Hens (or fowl) and other chickens mil lb Turkeys mil lb Other poultry and small game (including ducks, geese, rabbits, etc.) Dressed poultry purchased for processing (cooking, smoking, canning, raw-boning, freezing, dehydrating) mil lb Shell eggs 1,000 cases (30 doz) Paperboard containers, hoves, and corrunated naperboard	26 037.5 **903.9 5 468.4 (X) *4 515.4 34 162. (X)	7 450.7 181.1 2 046.0 32.3 2 980.0 368.3 388.7	16 530.5 747.8 3 648.6 (X) ***2 208.2 (S) (X)	4 409.7 114.8 1 310.6 42.2 1 542.3 215.8 (⁵)
265001 267101 267301 341104 970099 971000	Paperboard containers, boxes, and corrugated paperboard Packaging paper and plastics film, coated and laminated Bags; plastics, foil, and coated paper Metal cans, can lids, and ends All other materials and components, parts, containers, and supplies Materials, ingredients, containers, and supplies, n.s.k. ³	XX XX XX XX XX	388.7 185.3 134.1 9.5 1 206.3 1 192.2	XX XX XX XX XX	(3) (5) (5) (5) 51 432.9 1 105.4

¹For some establishments, data have been estimated from central unit values which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: *10 to 19 percent estimated; **20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).
 ²For 1987, material codes 267101 and 265001 were included with material code 970099.
 ³Total cost of establishments that did not report detailed materials data, including establishments that were not mailed a report form.
 ⁴For 1987, material codes 265001, 267101, and 267101 were included with material code 970099.

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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 35
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 04	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
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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 8:06 AM MACHINE: MCVX26 DATA:NONE TAPE: NOreel FRAME: 1 TSF:TIPS92-08052027.DAT;1 1/ 6/95 08:05:28 UTF:TIPS93-08052027.DAT;1 1/ 6/95 08:05:28 META:TIPS96-08052027.DAT;1 1/ 6/95 08:06:13

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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
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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
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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.