

# Specialty Canning

1997

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## 1997 Economic Census

*Manufacturing*

Industry Series



U S C E N S U S B U R E A U

*Helping You Make Informed Decisions*

U.S. Department of Commerce  
Economics and Statistics Administration  
U.S. CENSUS BUREAU



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-- Not applicable for this report.

# Introduction to the Economic Census

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

- Policymaking agencies of the Federal Government use the data to monitor economic activity and assess the effectiveness of policies.
- 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, which allows them to 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.

## ALL-NEW INDUSTRY CLASSIFICATIONS

Data from the 1997 Economic Census are published primarily on the basis of the North American Industry Classification System (NAICS), unlike earlier censuses, which were published according to the Standard Industrial Classification (SIC) system. NAICS is in the process of being adopted in the United States, Canada, and Mexico. Most economic census reports cover one of the following NAICS sectors:

21	Mining
22	Utilities
23	Construction
31-33	Manufacturing
42	Wholesale Trade
44-45	Retail Trade
48-49	Transportation and Warehousing
51	Information

52	Finance and Insurance
53	Real Estate and Rental and Leasing
54	Professional, Scientific, and Technical Services
55	Management of Companies and Enterprises
56	Administrative and Support and Waste Management and Remediation Services
61	Educational Services
62	Health Care and Social Assistance
71	Arts, Entertainment, and Recreation
72	Accommodation and Foodservices
81	Other Services (except Public Administration)

(Not listed above are the Agriculture, Forestry, Fishing, and Hunting sector (NAICS 11), partially covered by the census of agriculture conducted by the U.S. Department of Agriculture, and the Public Administration sector (NAICS 92), covered by the census of governments conducted by the Census Bureau.)

The 20 NAICS sectors are subdivided into 96 subsectors (three-digit codes), 313 industry groups (four-digit codes), and, as implemented in the United States, 1170 industries (five- and six-digit codes).

## RELATIONSHIP TO SIC

While many of the individual NAICS industries correspond directly to industries as defined under the SIC system, most of the higher level groupings do not. Particular care should be taken in comparing data for retail trade, wholesale trade, and manufacturing, which are sector titles used in both NAICS and SIC, but cover somewhat different groups of industries. The industry definitions discuss the relationships between NAICS and SIC industries. Where changes are significant, it will not be possible to construct time series that include data for points both before and after 1997.

For 1997, data for auxiliary establishments (those functioning primarily to manage, service, or support the activities of their company's operating establishments, such as a central administrative office or warehouse) will not be included in the sector-specific reports. These data will be published separately.

## GEOGRAPHIC AREA CODING

Accurate and complete information on the physical location of each establishment is required to tabulate the census data for the states, metropolitan areas (MAs), counties, parishes, and corporate municipalities including cities, towns, villages, and boroughs. Respondents were

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required to report their physical location (street address, municipality, county, and state) if it differed from their mailing address. For establishments not surveyed by mail (and those single-establishment companies that did not provide acceptable information on physical location), location information from Internal Revenue Service tax forms is used as a basis for coding.

## **BASIS OF REPORTING**

The economic census is conducted on an establishment basis. A company operating at more than one location is required to file a separate report for each store, factory, shop, or other location. Each establishment is assigned a separate industry classification based on its primary activity and not that of its parent company.

## **DOLLAR VALUES**

All dollar values presented are expressed in current dollars; i.e., 1997 data are expressed in 1997 dollars, and 1992 data, in 1992 dollars. Consequently, when making comparisons with prior years, users of the data should consider the changes in prices that have occurred.

All dollar values are shown in thousands of dollars.

## **AVAILABILITY OF ADDITIONAL DATA**

### **Reports in Print and Electronic Media**

All results of the 1997 Economic Census are available on the Census Bureau Internet site ([www.census.gov](http://www.census.gov)) and on compact discs (CD-ROM) for sale by the Census Bureau. Unlike previous censuses, only selected highlights are published in printed reports. For more information, including a description of electronic and printed reports being issued, see the Internet site, or write to U.S. Census Bureau, Washington, DC 20233-8300, or call Customer Services at 301-457-4100.

### **Special Tabulations**

Special tabulations of data collected in the 1997 Economic Census may be obtained, depending on availability of time and personnel, in electronic or tabular form. The data will be summaries 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) that govern 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 of the division named below, U.S. Census Bureau, Washington, DC 20233-8300. To discuss a special tabulation before submitting specifications, call the appropriate division:

Manufacturing and Construction Division 301-457-4673  
Service Sector Statistics Division 301-457-2668

## **HISTORICAL INFORMATION**

The economic census has been taken as an integrated program at 5-year intervals since 1967 and before that for 1954, 1958, and 1963. Prior to that time, individual components 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 the 1840 Decennial Census and subsequent censuses to include mining and some commercial activities. The 1905 Manufactures Census was the first time a census was taken apart from the regular decennial population census. Censuses covering retail and wholesale trade and construction industries were added in 1930, as were some covering service trades in 1933. Censuses of construction, manufacturing, and the other business service censuses were suspended during World War II.

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 range of industries covered in the economic censuses expanded between 1967 and 1992. The census of construction industries began on a regular basis in 1967, and the scope of service industries, introduced in 1933, was broadened in 1967, 1977, and 1987. While a few transportation industries were covered as early as 1963, it was not until 1992 that the census broadened to include all of transportation, communications, and utilities. Also new for 1992 was coverage of financial, insurance, and real estate industries. With these additions, the economic census and the separate census of governments and census of agriculture collectively covered roughly 98 percent of all economic activity.

Printed statistical reports from the 1992 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 reports printed since 1967 are still available for sale on microfiche from the Census Bureau. CD-ROMs issued from the 1987 and 1992 Economic Censuses contain databases including nearly all data published in print, plus additional statistics, such as ZIP Code statistics, published only on CD-ROM.

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## 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 1997 Economic Census and Related Statistics* at [www.census.gov/econgguide](http://www.census.gov/econgguide). More information on the methodology, procedures, and history of the censuses will be published in the *History of the 1997 Economic Census* at [www.census.gov/econ/www/history.html](http://www.census.gov/econ/www/history.html).

## ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used with the 1997 Economic Census data:

A	Standard error of 100 percent or more.
D	Withheld to avoid disclosing data of individual companies; data are included in higher level totals.
F	Exceeds 100 percent because data include establishments with payroll exceeding revenue.
N	Not available or not comparable.
Q	Revenue not collected at this level of detail for multiestablishment firms.
S	Withheld because estimates did not meet publication standards.

V	Represents less than 50 vehicles or .05 percent.
X	Not applicable.
Y	Disclosure withheld because of insufficient coverage of merchandise lines.
Z	Less than half the unit shown.
a	0 to 19 employees.
b	20 to 99 employees.
c	100 to 249 employees.
e	250 to 499 employees.
f	500 to 999 employees.
g	1,000 to 2,499 employees.
h	2,500 to 4,999 employees.
i	5,000 to 9,999 employees.
j	10,000 to 24,999 employees.
k	25,000 to 49,999 employees.
l	50,000 to 99,999 employees.
m	100,000 employees or more.
p	10 to 19 percent estimated.
q	20 to 29 percent estimated.
r	Revised.
s	Sampling error exceeds 40 percent.
nec	Not elsewhere classified.
nsk	Not specified by kind.
–	Represents zero (page image/print only).
(CC)	Consolidated city.
(IC)	Independent city.



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# Manufacturing

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## SCOPE

The 1997 Economic Census – Manufacturing covers all manufacturing establishments with one or more paid employees. Manufacturing is defined as the mechanical, physical, or chemical transformation of materials or substances into new products. The assembly of components into new products is also considered manufacturing, except when it is appropriately classified as construction.

Establishments in the manufacturing sector are often described as plants, factories, or mills and typically use power-driven machines and materials-handling equipment. Also included in the manufacturing sector are some establishments that make products by hand, like custom tailors and the makers of custom draperies. While manufacturers typically do not sell to the public, some establishments like bakeries and candy stores that make products on the premises may be included.

While logging and publishing are no longer in the scope of manufacturing, data for these industries are included in the manufacturing industry reports, but are not included in the manufacturing state, summary, and other reports.

## GENERAL

This report, from the 1997 Economic Census – Manufacturing, is one of a series of 480 industry reports and 51 geographic area reports, each of which provides statistics for individual industries or states, respectively. Seven of the industry reports are for industries no longer in the manufacturing sector but are included with manufacturing for the 1997 census year. Also included for this sector are General, Product, and Materials Consumed Summary reports, a special report on Concentration Ratios in Manufacturing, and data files on Location of Manufacturing Plants.

Each industry report presents data for a six-digit North American Industry Classification System (NAICS) industry. A description of the particular NAICS industry may be found in Appendix B. These reports include such statistics as number of establishments, employment, payroll, value added by manufacture, cost of materials consumed, value of shipments, capital expenditures, etc. Explanations of these and other terms may be found in Appendix A. The industry reports also include data for states with 100 employees or more in the industry.

State reports, which include the District of Columbia, present similar statistics at the “all manufacturing” level for each state and its metropolitan areas (MAs) with 250

employees or more, and for counties, consolidated cities, and places with 500 employees or more. The state reports also include six-digit NAICS level data for industries with 100 employees or more in the state.

The General Summary report contains industry and geographic area statistics summarized in one report. It includes higher levels of aggregation than the industry and state reports, as well as revisions to the data made after the release of the industry and state reports.

The Products and Materials Consumed reports summarize the products and materials data published in the industry reports. The Product Summary report also includes data from the Current Industrial Reports (CIR) and a special table with data for products that are primary to more than one industry, which are not in the industry reports.

The Concentration Ratios report publishes data on the percentage of value of shipments accounted for by the 4-, 8-, 20-, and 50-largest companies for each manufacturing industry. Also shown in this report are Hirschmann-Herfindahl Indexes for each industry.

The Location of Manufacturing data files contain statistics on the number of establishments for the three- and six-digit NAICS industry by state, county, place, and ZIP Code by employment-size of the establishment.

## GEOGRAPHIC AREAS COVERED

Statistics at the six-digit NAICS industry level are shown for states and the District of Columbia in both the state and industry reports for cells with 100 employees or more.

The state reports also include data at the “all manufacturing” level for a variety of geographies that meet the employment criteria.

Data are available for the metropolitan areas (MAs) with 250 employees or more. The term MA is a general term used to encompass all of the specifically defined metropolitan areas. A consolidated metropolitan statistical area (CMSA) is made up of two or more contiguous primary metropolitan statistical areas (PMSAs) with a combined population of at least 1 million. A PMSA is a subdivision of a CMSA that demonstrates very strong internal economic and social links separate from the ties to other portions of the CMSA. A metropolitan statistical area (MSA) is an integrated economic and social unit with a population of at least 50,000. An MA is made up of one or more counties meeting standards of metropolitan character. In New England, cities and towns, rather than counties, are the

component geographic units. Determination of the MAs was made by the Office of Management and Budget (OMB) as of June 30, 1997. The population estimates were from the 1990 Census of Population or a subsequent special census. When applicable, the make-up of an MA is included in Appendix E. Changes to geographical boundaries are noted in Appendix D.

The state reports include data for counties with 500 employees or more. These are the primary divisions of states, except in Louisiana where they are called parishes and in Alaska where they are called boroughs and census areas. Maryland, Missouri, Nevada, and Virginia have one or more places that are independent of county organizations. These places are treated as counties and places. The counties and places are defined as of January 1, 1997.

The state reports include data for places with 500 employees or more. Places are typically cities, towns, and villages. They may be incorporated municipalities, semi-independent municipalities, special economic urban areas (SEUAs), or other place equivalents.

The state reports also include data for consolidated cities with 500 employees or more. Consolidated cities are made up of separately incorporated municipalities.

## **COMPARABILITY OF THE 1992 AND 1997 CENSUSES**

The adoption of the North American Industry Classification System (NAICS) has had a major impact on the comparability of data between the 1992 and 1997 censuses. Approximately half of the industries in the manufacturing sector of NAICS do not have comparable industries in the Standard Industrial Classification (SIC) system that was used in the past. If industries are not comparable between the two censuses, historic data are not shown. When applicable, Appendix G shows the product class and product comparability between the two systems.

While most of the change affecting the manufacturing sector was change within the sector, some industries left manufacturing and others came into manufacturing. Prominent among those leaving manufacturing are logging and portions of publishing. Prominent among the industries coming into the manufacturing sector are bakeries, candy stores where candy is made on the premises, custom tailors, makers of custom draperies, and tire retreading. Data for the industries coming into manufacturing as well as those leaving manufacturing are included in the manufacturing industry report series for 1997. However, the state and summary reports only include data for industries in the NAICS definition of manufacturing.

Another change resulting from the conversion to NAICS is that data for central administrative offices (CAOs) associated with manufacturing are not included along side the manufacturing data. This change affects data in the state reports and the general summary.

## **DISCLOSURE**

In accordance with Federal law governing census reports (Title 13 of the United States Code), no data are published that would disclose the operations of an individual establishment or company. However, the number of establishments classified in a specific industry or geography is not considered a disclosure, and may be released even when other information is withheld.

The disclosure analysis for the industry statistics files 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 capital expenditures. However, the suppressed data are included in higher-level totals. A separate disclosure analysis is performed for capital expenditures that can be suppressed even though value of shipments data are published.

## **AVAILABILITY OF MORE FREQUENT ECONOMIC DATA**

The Census Bureau conducts the Annual Survey of Manufactures (ASM) in each of the 4 years between the economic censuses. The ASM is a probability-based sample of approximately 58,000 establishments and collects many of the same industry statistics (including employment, payroll, value of shipments, etc.) as the economic census. However, there are selected statistics not included in the ASM. Among these are the number of companies and establishments, detailed product and materials data, and substate geographic data.

In addition to the ASM, the Census Bureau conducts a Current Industrial Reports (CIR) program. The CIR publishes detailed product statistics for selected manufacturing industries at the U.S. level annually and, in some cases, monthly and/or quarterly. For the 1997 Economic Census – Manufacturing, the annual CIR data are included in the Product Summary report.

The Census Bureau also conducts the monthly Manufacturers' Shipments, Inventories, and Orders (M3) program, which publishes detailed statistics for manufacturing industries at the U.S. level.

**Table 1. Industry Statistics on NAICS Basis With Distribution Among 1987 SIC-Based Industries: 1997**

[NAICS codes appear in bold type. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

NAICS or SIC code	Industry	Com-panies <sup>1</sup>	All estab-lish-ments <sup>2</sup>	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expendi-tures (\$1,000)
				Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>311422</b>	<b>Specialty canning</b> .....	<b>122</b>	<b>140</b>	<b>19 211</b>	<b>604 171</b>	<b>15 923</b>	<b>33 492</b>	<b>457 887</b>	<b>5 193 277</b>	<b>2 875 933</b>	<b>8 070 442</b>	<b>219 818</b>
203210	Canned specialties (pt) .....	N	140	19 211	604 171	15 923	33 492	457 887	5 193 277	2 875 933	8 070 442	219 818

<sup>1</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

<sup>2</sup>Includes establishments with payroll at any time during the year.

**Table 2. Industry Statistics for Selected States: 1997**

[States that are disclosures or with less than 100 employees are not shown. For explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E <sup>1</sup>	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expendi-tures (\$1,000)
		Total	With 20 em-ploy-ees or more	Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>311422, SPECIALTY CANNING</b>												
<b>United States</b> .....	<b>1</b>	<b>140</b>	<b>64</b>	<b>19 211</b>	<b>604 171</b>	<b>15 923</b>	<b>33 492</b>	<b>457 887</b>	<b>5 193 277</b>	<b>2 875 933</b>	<b>8 070 442</b>	<b>219 818</b>
California .....	1	17	7	4 542	119 097	4 016	8 547	92 879	734 287	382 375	1 118 129	34 741
Colorado .....	2	7	3	194	4 172	146	292	2 938	12 378	14 032	26 311	432
Texas .....	-	15	5	1 510	51 917	1 283	2 719	40 749	578 777	266 176	845 155	18 861

\* Hawaii has no incorporated places in the sense of functioning governmental units; however, in agreement with Hawaiian law, the Bureau of the Census reports data for census designated places (CDPs) which have been designated as place equivalents. Those CDPs, only for the state of Hawaii, with 2,500 or more population are recognized.

<sup>1</sup>Some payroll and sales data for 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 statistics 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 where estimated data based on administrative-record data account for 10 percent or more of the figures shown: 1-10 to 19 percent; 2-20 to 29 percent; 3-30 to 39 percent; 4-40 to 49 percent; 5-50 to 59 percent; 6-60 to 69 percent; 7-70 to 79 percent; 8-80 to 89 percent; 9-90 percent or more.

**Table 3. Detailed Statistics by Industry: 1997**

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

Item	Value	Item	Value
<b>311422, SPECIALTY CANNING</b>		<b>311422, SPECIALTY CANNING—Con.</b>	
Companies <sup>1</sup> .....	number.. 122	Value added .....	\$1,000.. 5 193 277
All establishments .....	number.. 140	Total inventories, beginning of year .....	\$1,000.. 855 371
Establishments with 1 to 19 employees .....	number.. 76	Finished goods inventories, beginning of year .....	\$1,000.. 566 570
Establishments with 20 to 99 employees .....	number.. 28	Work-in-process inventories, beginning of year .....	\$1,000.. 41 611
Establishments with 100 employees or more .....	number.. 36	Materials and supplies inventories, beginning of year .....	\$1,000.. 247 190
All employees .....	number.. 19 211	Total inventories, end of year .....	\$1,000.. 850 305
Total compensation <sup>2</sup> .....	\$1,000.. 762 517	Finished goods inventories, end of year .....	\$1,000.. 570 864
Annual payroll .....	\$1,000.. 604 171	Work-in-process inventories, end of year .....	\$1,000.. 40 379
Total fringe benefits .....	\$1,000.. 158 346	Materials and supplies inventories, end of year .....	\$1,000.. 239 062
Production workers, average for year .....	number.. 15 923	Gross book value of total assets at beginning of year .....	\$1,000.. 2 489 268
Production workers on March 12 .....	number.. 16 065	Total capital expenditures (new and used) .....	\$1,000.. 219 818
Production workers on May 12 .....	number.. 15 243	Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 48 566
Production workers on August 12 .....	number.. 16 244	Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 171 252
Production workers on November 12 .....	number.. 16 140	Total retirements <sup>2</sup> .....	\$1,000.. 116 365
Production-worker hours .....	1,000.. 33 492	Gross book value of total assets at end of year .....	\$1,000.. 2 592 721
Production-worker wages .....	\$1,000.. 457 887	Total depreciation during year <sup>2</sup> .....	\$1,000.. 210 087
Total cost of materials .....	\$1,000.. 2 875 933	Total rental payments <sup>2</sup> .....	\$1,000.. 19 360
Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 2 599 247	Buildings and other structures rental payments <sup>2</sup> .....	\$1,000.. 7 237
Cost of resales .....	\$1,000.. 193 886	Machinery and equipment rental payments <sup>2</sup> .....	\$1,000.. 12 123
Cost of fuels .....	\$1,000.. 35 333	Cost of purchased services for the repair of buildings and other structures <sup>3</sup> .....	\$1,000.. 3 824
Cost of purchased electricity .....	\$1,000.. 34 022	Response coverage ratio <sup>4</sup> .....	percent.. 77
Cost of contract work .....	\$1,000.. 13 445	Cost of purchased services for the repair of machinery and equipment <sup>3</sup> .....	\$1,000.. 18 486
Quantity of electricity purchased for heat and power .....	1,000 kWh.. 632 243	Response coverage ratio <sup>4</sup> .....	percent.. 77
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. D	Cost of purchased communications services <sup>3</sup> .....	\$1,000.. 2 852
Total value of shipments .....	\$1,000.. 8 070 442	Response coverage ratio <sup>4</sup> .....	percent.. 77
Primary products value of shipments .....	\$1,000.. 5 833 762	Cost of purchased legal services <sup>3</sup> .....	\$1,000.. 2 754
Secondary products value of shipments .....	\$1,000.. 1 890 086	Response coverage ratio <sup>4</sup> .....	percent.. 77
Total miscellaneous receipts .....	\$1,000.. 346 594	Cost of purchased accounting and bookkeeping services <sup>3</sup> .....	\$1,000.. 1 011
Value of resales .....	\$1,000.. 344 013	Response coverage ratio <sup>4</sup> .....	percent.. 77
Contract receipts .....	\$1,000.. D	Cost of purchased advertising services <sup>3</sup> .....	\$1,000.. 4 935
Other miscellaneous receipts .....	\$1,000.. D	Response coverage ratio <sup>4</sup> .....	percent.. 77
Primary products specialization ratio .....	percent.. 75	Cost of purchased software and other data processing services <sup>3</sup> .....	\$1,000.. 1 322
Value of primary products shipments made in all industries .....	\$1,000.. 6 423 958	Response coverage ratio <sup>4</sup> .....	percent.. 77
Value of primary products shipments made in this industry .....	\$1,000.. 5 833 762	Cost of purchased refuse removal (including hazardous waste) services <sup>3</sup> .....	\$1,000.. 2 774
Value of primary products shipments made in other industries .....	\$1,000.. 590 196	Response coverage ratio <sup>4</sup> .....	percent.. 77
Coverage ratio .....	percent.. 90		

<sup>1</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

<sup>2</sup>These items are collected in the ASM and estimated for the remaining establishments; therefore, the levels of estimation are higher than for other items in the table.

<sup>3</sup>Based on ASM sample data.

<sup>4</sup>A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those ASM establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note: The amounts shown for purchased services reflect only those services that establishments purchase from other companies.

**Table 4. Industry Statistics by Employment Size: 1997**

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

Employment size class	E <sup>1</sup>	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>311422, SPECIALTY CANNING</b>												
<b>All establishments .....</b>	<b>1</b>	<b>140</b>	<b>64</b>	<b>19 211</b>	<b>604 171</b>	<b>15 923</b>	<b>33 492</b>	<b>457 887</b>	<b>5 193 277</b>	<b>2 875 933</b>	<b>8 070 442</b>	<b>219 818</b>
Establishments with 1 to 4 employees .....	9	45	—	79	1 677	65	103	1 211	6 876	7 234	14 110	349
Establishments with 5 to 9 employees .....	8	15	—	95	1 771	80	109	1 298	6 106	6 167	12 276	277
Establishments with 10 to 19 employees .....	4	16	—	223	4 558	173	274	2 911	21 187	17 478	38 662	1 584
Establishments with 20 to 49 employees .....	2	15	15	459	10 485	360	672	7 159	33 433	43 966	77 349	7 719
Establishments with 50 to 99 employees .....	1	13	13	953	26 966	787	1 617	19 154	127 681	117 137	245 036	8 577
Establishments with 100 to 249 employees .....	3	17	17	2 936	76 527	2 203	4 698	52 543	376 029	354 891	731 004	27 685
Establishments with 250 to 499 employees .....	—	9	9	3 792	120 960	3 131	6 676	86 886	989 240	803 281	1 794 116	57 740
Establishments with 500 to 999 employees .....	—	6	6	4 094	148 097	3 462	7 159	115 060	1 680 260	779 992	2 459 725	42 667
Establishments with 1,000 to 2,499 employees .....	2	4	4	6 580	213 130	5 662	12 184	171 665	1 952 465	745 787	2 698 164	73 220
Establishments with 2,500 employees or more .....	—	—	—	—	—	—	—	—	—	—	—	—
Administrative records <sup>2</sup> .....	9	41	—	147	2 629	123	160	1 899	10 597	11 304	21 907	593

<sup>1</sup>Some payroll and sales data for 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 statistics 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 where estimated data based on administrative-record data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

<sup>2</sup>Some payroll and sales data for 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 statistics for these small establishments. Data are also included in respective size classes shown.

**Table 5. Industry Statistics by Industry and Primary Product Class Specialization: 1997**

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

NAICS industry or product class code	Industry or primary product class	All establishments	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>311422</b>	<b>Specialty canning .....</b>	<b>140</b>	<b>19 211</b>	<b>604 171</b>	<b>15 923</b>	<b>33 492</b>	<b>457 887</b>	<b>5 193 277</b>	<b>2 875 933</b>	<b>8 070 442</b>	<b>219 818</b>
3114221	Canned baby foods, except cereal and biscuits .....	7	2 729	94 992	2 310	5 186	71 592	895 260	520 773	1 414 298	26 644
3114224	Canned soups and stews (except frozen or seafood) .....	16	6 050	241 699	5 139	10 837	186 269	2 818 367	1 251 328	4 069 879	105 987
3114227	Canned dry beans .....	24	3 608	104 789	2 782	5 945	72 378	586 566	639 348	1 226 718	32 612
311422A	Other canned specialties and canned nationality foods, nec .....	14	3 272	88 204	2 500	4 393	69 989	523 820	243 481	769 013	35 907

**Table 6a. Products Statistics: 1997 and 1992**

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

NAICS product code	Product	1997				1992			
		Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments		Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)			Quantity	Value (\$1,000)
<b>311422</b>	<b>Specialty canned food products</b> .....	<b>N</b>	<b>X</b>	<b>X</b>	<b>6 423 958</b>	<b>N</b>	<b>X</b>	<b>X</b>	<b>N</b>
3114221	Canned baby foods, except cereal and biscuits .....	N	X	X	929 732	N	X	X	D
31142211	Canned baby foods, except cereal and biscuits .....	N	X	X	929 732	N	X	X	N
3114221100	Canned baby foods, except cereal and biscuits .....	8	X	701.3	929 732	5	X	D	D
3114224	Canned soups and stews (except frozen or seafood) .....	N	X	X	2 684 750	N	X	X	1 986 232
31142241	Canned soups and stews (except frozen or seafood) .....	N	X	X	2 684 750	N	X	X	N
3114224100	Canned soups and stews (except frozen or seafood) .....	35	X	X	2 684 750	22	X	X	1 986 232
3114227	Canned dry beans .....	N	X	X	1 068 249	N	X	X	1 119 473
31142271	Canned dry beans .....	N	X	X	1 067 673	N	X	X	N
3114227111	Canned dry beans with pork, including baked, 7.1 oz to 13 oz (8 oz short, 8 oz tall, No. 1, picnic, etc.) .....	4	X	4 742.0	39 862	5	X	D	D
3114227121	Canned dry beans with pork, including baked, 13.1 oz to 22 oz (No. 300, No. 303, No. 2, etc.) .....	16	X	28 891.1	329 765	21	X	25 922.1	256 534
3114227131	Canned dry beans with pork, including baked, 22.1 oz to 27 oz (jumbo, etc.) .....	2	X	D	D	4	X	D	D
3114227141	Canned dry beans with pork, including baked, 27.1 oz to 40 oz (No. 2 one-half quart glass, etc.) .....	6	X	D	D	11	X	3 384.5	44 067
3114227151	Canned dry beans with pork, including baked, other sizes .....	15	X	X	63 698	12	X	X	67 502
3114227161	Canned dry beans with sauce, vegetarian style, including baked, 13.1 oz to 18 oz (No. 300, No. 303, etc.) .....	13	X	8 354.7	73 219	14	X	6 747.1	58 909
3114227171	Canned dry beans with sauce, vegetarian style, including baked, other sizes .....	12	X	X	54 653	13	X	X	49 799
3114227181	All other canned dry beans, including chili con carne containing less than 20 percent meat, 13.1 oz to 18 oz (No. 300, No. 303, etc.) .....	19	X	42 120.3	359 616	24	X	36 876.9	344 192
3114227191	All other canned dry beans, including chili con carne containing less than 20 percent meat, all other sizes .....	15	X	X	126 938	16	X	X	149 581
3114227Y	Canned dry beans, nsk .....	N	X	X	576	N	X	X	N
3114227YWV	Canned dry beans, nsk .....	N	X	X	576	N	X	X	298
311422A	Other canned specialties and canned nationality foods, nec .....	N	X	X	1 463 244	N	X	X	N
311422A1	Canned specialties and canned nationality foods .....	N	X	X	1 463 244	N	X	X	N
311422A111	Spaghetti with or without meat and ravioli .....	9	X	X	634 752	N	X	X	N
311422A121	Canned mincemeat .....	2	X	0.7	752	4	X	D	D
311422A131	Canned Spanish foods (Mexican rice, tortillas, enchiladas) .....	11	X	X	143 157	13	X	X	129 716
311422A136	Frosting, canned, ready-to-spread (all varieties) .....	13	X	X	258 517	N	X	X	N
311422A141	Other canned specialties other than canned meats .....	20	X	X	426 066	N	X	X	N
311422AY	Other canned specialties and canned nationality foods, nsk .....	N	X	X	-	N	X	X	N
311422AYWV	Other canned specialties and canned nationality foods, nsk .....	N	X	X	-	N	X	X	N
311422W	Specialty canning, nsk, total .....	N	X	X	277 983	N	X	X	N
311422WY	Specialty canning, nsk, total .....	N	X	X	277 983	N	X	X	N
311422WYWV	Specialty canning, nsk .....	N	X	X	258 204	N	X	X	N
311422WYWV	Specialty canning, nsk .....	N	X	X	19 779	N	X	X	N

# Additional information is available for this item; see Appendix F.

@ Additional data are available for these codes at the aggregate U.S. level in the Current Industrial Report (CIR) series; see Appendix F for the CIR survey number and title.

\$ This product is primary to more than one industry; see Appendix F for a listing of the related product codes.

Note: For 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: <sup>P</sup> 10 to 19 percent estimated; <sup>Q</sup> 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

**Table 6b. Product Class Shipments for Selected States: 1997 and 1992**

[Product classes covered are those that are economically significant and whose production is 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 1997. For meaning of abbreviations and symbols, see introductory text. For explanations of terms, see appendixes]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)	
		1997	1992
3114221	<b>CANNED BABY FOODS, EXCEPT CEREAL AND BISCUITS</b> United States .....	929 732	D
3114224	<b>CANNED SOUPS AND STEWS (EXCEPT FROZEN OR SEAFOOD)</b> United States .....	2 684 750	1 986 232
3114227	<b>CANNED DRY BEANS</b> United States .....	1 068 249	1 119 473
	Indiana .....	45 343	75 334
	Ohio .....	32 062	N
	Texas .....	72 738	186 063
311422A	<b>OTHER CANNED SPECIALTIES AND CANNED NATIONALITY FOODS, NEC</b> United States .....	1 463 244	N
	California .....	138 122	N
	Illinois .....	70 423	N
	New Jersey .....	21 121	N
	Wisconsin .....	8 682	N

# Additional information is available for this item; see Appendix F.

@ Additional data are available for these codes at the aggregate U.S. level in the Current Industrial Report (CIR) series; see Appendix F for the CIR survey number and title.

\$ This product is primary to more than one industry; see Appendix F for a listing of the related product codes.

**Table 7. Materials Consumed by Kind: 1997 and 1992**

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

NAICS material code	Material consumed	1997		1992	
		Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
<b>311422</b>	<b>SPECIALTY CANNING</b>				
11131000	Fresh oranges .....	1,000 s tons..	-	N	N
11133100	Fresh apples .....	1,000 s tons..	83.6	15 095	N
11133901	Fresh apricots .....	1,000 s tons..	-	-	N
11133200	Fresh grapes .....	1,000 s tons..	-	-	N
11133903	Fresh peaches .....	1,000 s tons..	D	D	N
11133905	Fresh pears .....	1,000 s tons..	13.7	3 148	N
11133907	Fresh pineapples .....	1,000 s tons..	-	-	N
11132000	Fresh grapefruit .....	1,000 s tons..	-	-	N
11130003	Other fresh fruits .....	1,000 s tons..	D	D	N
11121901	Fresh green peas .....	1,000 s tons..	11.9	5 075	N
11121100	White potatoes .....	1,000 s tons..	115.9	17 130	N
11100001	Other fresh vegetables .....	1,000 s tons..	371.7	120 830	N
11121907	Fresh tomatoes .....	1,000 s tons..	119.0	25 098	N
11121905	Fresh sweet corn .....	1,000 s tons..	D	D	N
11121903	Fresh green (snap) or wax beans .....	1,000 s tons..	38.3	8 535	N
31131003	Sugar, cane and beet (in terms of sugar solids) .....	1,000 s tons..	P31.9	17 344	N
31122103	High fructose corn syrup (HFCS)(in terms of solids) .....	mil lb..	115.0	14 814	N
31122117	Crystalline fructose (dry fructose) .....	mil lb..	D	D	N
31122119	Dextrose and corn syrup, including corn syrup solids (in terms of dry weight) .....	mil lb..	90.2	15 049	N
31161003	Fresh, frozen, and prepared meats .....	mil lb..	153.2	185 933	N
31161500	Dressed poultry purchased for processing (cooking, smoking, canning, raw-boning, freezing, dehydrating) .....	mil lb..	84.2	128 002	N
31142311	Dried fruits and beans .....	1,000 s tons..	212.0	119 881	N
31142103	Concentrated fruit juices .....	mil gal..	D	D	N
31141105	Frozen fruits and vegetables (for further processing) .....	mil lb..	167.6	68 729	N
31142105	Tomato paste (24 percent NTSS equivalent) .....	mil lb..	338.8	139 816	N
31121101	Wheat flour .....	1,000 cwt..	3 618.2	25 887	N
31100019	Fats and oils, all types (purchased as such) .....	mil lb..	102.4	35 016	N
32310000	Printed labels .....		X	66 026	X
00190003	Flexible packaging materials .....		X	41 159	X
32221001	Paperboard containers, boxes, and corrugated paperboard .....		X	114 759	X
33243101	Metal cans, can lids and ends .....		X	573 850	X
32721301	Glass containers .....		X	175 658	X
00970099	All other materials and components, parts, containers, and supplies .....		X	503 118	X
00971000	Materials, ingredients, containers, and supplies, n.s.k. ....		X	134 496	X

# Additional information is available for this item; see Appendix F.

Note: For 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: P 10 to 19 percent estimated; a 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.



# Appendix A.

## Explanation of Terms

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### **BEGINNING- AND END-OF-YEAR INVENTORIES**

Respondents were asked to report their beginning-of-year and 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). Beginning 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.

### **Inventory Data by Stage of Fabrication**

Total inventories and three detailed components (1) finished goods, (2) work-in-process, and (3) materials, supplies, fuels, etc., were collected.

When using inventory data by stage of fabrication for “all industries” and at the three-digit subsector 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 an 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 all publication levels.

### **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.

Included in this item are:

1. Cost of parts, components, containers, etc.—Includes 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. Cost of products bought and sold in the same condition.

3. Cost of fuels consumed for heat and power—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.
4. Cost of purchased electricity—The cost of purchased electric energy represents the amount actually used during the year for heat and power. In addition, information was 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.
5. Cost of contract work—This term applies to work done by others on materials furnished by the manufacturing establishment. The actual cost of the material is to be reported on the cost of materials, parts, and containers line of this item. The term “Contract Work” refers to the fee a company pays to another company to perform a service.

### **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. If less than \$25,000 of a listed material was consumed by an establishment, the cost data could be reported in the “Cost of all other materials...,” Census material code 00970099. Also, the cost of materials for small establishments for which administrative records or short forms were used was imputed into the “Materials not specified by kind,” Census materials code 00971000.

### **Duplication in Cost of Materials and Value of Shipment**

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 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.

### **COST OF PURCHASED SERVICES**

Annual Survey of Manufactures (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 reflects the costs paid directly by the establishment and excludes 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. 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 was capitalized is considered capital expenditures and is, 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.

### **Response Coverage Ratio**

A response coverage ratio is a measure of the extent to which respondents report for an item. The estimate is made by calculating the ratio value of the weighted total employment data for all the ASM establishments that report the item to the weighted total employment data for all ASM establishments classified in an industry (reporters and non-reporters).

### **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.

### **EMPLOYEES**

This item includes all full-time and part-time employees on the payrolls of operating manufacturing establishments during any part of the pay period which included the 12th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded. The "all employees" number is the average number of production workers plus the number of other employees in mid-March. The number of production workers is the average for the payroll periods including the 12th of March, May, August, and November.

#### **Production Workers**

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

#### **All Other Employees**

This item covers nonproduction employees of the manufacturing establishment including those engaged in factory supervision above the line-supervisor level. It

includes sales (including driver-salespersons), sales delivery (highway truck drivers and their helpers), advertising, credit, collection, installation and servicing of own products, clerical and routine office functions, 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 utilized as a separate work force.

### **FRINGE BENEFITS**

Fringe benefits 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.

### **GROSS BOOK VALUE OF DEPRECIABLE ASSETS AT BEGINNING OF YEAR (BOY) AND END OF YEAR (EOY)**

Total value of depreciable assets is collected on all census forms. It shows the value of depreciable assets for the beginning of year and end of year. The data encompass all fixed depreciable assets on the books of establishments. 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 capital expenditures, less retirements, equaled assets at the end of the year.

### **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.

### **PAYROLL**

This item includes the gross earnings of all employees on the payrolls of operating manufacturing establishments paid in the calendar year. 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' total supplemental labor costs (those required by Federal and state laws and those incurred voluntarily or as part of collective bargaining agreements).

### **PRODUCT CODES AND CLASSES OF PRODUCTS**

NAICS United States industries are identified by a six-digit code, in contrast to the four-digit SIC code. The longer code accommodates the large number of sectors and allows more flexibility in designing subsectors. Each

product or service is assigned a ten-digit code. The product coding structure represents an extension by the Census Bureau of the six-digit industry classifications of the manufacturing and mining sectors. The classification system operates so that the industrial coverage is progressively narrower with the successive addition of digits. This is illustrated as follows:

NAICS level	NAICS code	Description
Industry . . . . .	33461	Manufacturing and reproduction of magnetic and optical media
U.S. industry . . . . .	334612	Reproduction of software
Product class . . . . .	3346120	Prerecorded compact disc (except software), tape, and record reproducing
BLS link code . . . . .	3346120X	
Product code . . . . .	3346120XXX	

As in previous censuses, data were collected for most industries on the quantity and value of individual products shipped. In the 1997 census program, information was collected on the output of almost 10,000 individual product items.

In the new system, there are about 1,500 product classes (seven-digit codes), about 6,000 census products (ten-digit codes), and an additional 3,700 CIR products (ten-digit codes). The ten-digit products are considered the primary products of the industry with the same first six digits.

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 1992 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 (quantity produced and consumed) 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.

## PRIMARY PRODUCT CLASS CODE

This file presents selected statistics for establishments according to their degree of specialization in products primary to their industry. This field contains either the six-digit North American Industrial Classification System (NAICS) industry code corresponding to all establishments in the industry, or the seven-digit NAICS product class code for all establishments within the industry that are specialized in a particular product class. Product class specialization is determined by evaluating the ratio of the largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment.

## 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.

## QUANTITY OF ELECTRIC ENERGY CONSUMED FOR HEAT AND POWER

Data on the cost of purchased electric energy were collected on all census forms. However, data on the quantity of purchased electric energy were collected only on the Annual Survey of Manufactures (ASM) form. 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.

## RENTAL PAYMENTS

Total rental payments are 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 company-owned 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.

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## RETIREMENTS OF DEPRECIABLE ASSETS

Included in this item is the gross value of assets sold, retired, scrapped, destroyed, etc., during the calendar year. 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.

## TOTAL CAPITAL EXPENDITURES (NEW AND USED)

For establishments in operation and any known plants under construction, manufacturers were asked to report their new and used 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.

Totals for expenditures include the costs of assets 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 land and cost of maintenance and repairs charged as current operating expenses.

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. If an establishment changed ownership during the year, the cost of the fixed assets (building and equipment) was to be reported.

## VALUE ADDED

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, 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.

## 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 sold without further processing. Included are all items made by or for the establishments from material 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.

In addition to the value for NAICS defined products, aggregates of the following categories of miscellaneous receipts are reported as part of a total establishment’s value of product shipments:

1. Reported contract work—Receipts for work or services that a plant performed for others on their materials.
2. Value of resales—Sales of products brought and sold without further manufacture, processing, or assembly.
3. Other miscellaneous receipts—Such as repair work, installation, sales of scrap, etc.

Industry primary product value of shipments represents one of the three components of value of shipments. These components are:

1. Primary products value of shipments.
2. Secondary product value of shipments.
3. Total miscellaneous receipts.

Primary product shipments is used in the calculations of industry specialization ratio and industry coverage ratio. The term “Value of primary products shipments made in this industry” is used in this publication and refers to the same data.

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## **Duplication in Cost of Materials and Value of Shipment**

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.

## **Specialization and Coverage Ratios**

These items are not collected on the report forms but are derived from the data shown in Table 3. 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 5 and data on product shipments shown in Tables 6a and 6b.

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.

## Appendix B.

# NAICS Codes, Titles, and Descriptions

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### **311422 SPECIALTY CANNING**

This U.S. industry comprises establishments primarily engaged in manufacturing canned specialty foods. Examples of products made in these establishments are canned baby food, canned baked beans, canned soups (except seafood), canned spaghetti, and other canned nationality foods.

The data published with NAICS code 311422 include the following SIC industry:

2032 Canned specialties (pt)

# Appendix C.

## Coverage and Methodology

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### MAIL/NONMAIL UNIVERSE

The manufacturing universe includes about 400,000 establishments. This number includes those industries in the North American Industry Classification System (NAICS) definition of manufacturing, but not those industries leaving the manufacturing sector in the classification change. 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 (ASM). 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.

Approximately 40 percent of the manufacturing establishments were small single-establishment companies that were excused from filing a census report. Selection of these establishments was based on two factors: annual payroll and our ability to assign the correct six-digit NAICS industry classification to the establishment. For each four-digit Standard Industrial Classification (SIC) industry code, an annual payroll cutoff was determined. These cutoffs were derived so that the establishments with payroll less than the cutoff were expected to account for no more than 3 percent of the value of shipments for the industry. Generally, all single-establishment companies with less than 5 employees were excused, while all establishments with more than 20 employees were mailed forms. Establishments below the cutoff that could not be directly assigned a six-digit NAICS code were mailed a classification report which requested information for assigning NAICS industry codes. Establishments below the cutoff that could be directly assigned a six-digit NAICS code were excused from filing any report. For below cutoff establishments, information on the physical location, payroll, and receipts was obtained from the administrative records of other Federal agencies under special arrangements that 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” (nsc) categories.

The industry classification codes included in the administrative-record 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 to a four-digit SIC industry and then erroneously re-coded to a six-digit NAICS industry. This was especially true whenever there was a relatively fine line of demarcation between industries or between manufacturing and nonmanufacturing activity.

Sometimes the administrative-record cases had only two- or three-digit SIC group classification codes available in the files. For the 1997 Economic Census – Manufacturing, 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 appropriate six-digit NAICS level. Establishments that did not return the classification form were coded later to those six-digit NAICS industries identified as “All other” industries within the given subsector.

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 establishments covered in the mail canvass were divided into three groups:

- a. ASM sample establishments.

This group accounts for approximately 15 percent of all manufacturing establishments. The ASM panel covers 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. For more information, see the Description of the ASM Survey Sample.



In an economic census 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 additional information on gross book value of assets and capital expenditures. ASM establishments were also requested to provide information on retirements, depreciation, rental payments, and supplemental labor costs. For establishments not included in the ASM, these additional items were estimated using relationships observed in the ASM establishment data. The census statistics for these variables are a sum of the ASM establishment data and the estimated data for non-ASM establishments. ASM establishments were also requested to provide information for selected purchased services. The census statistics for the purchased service items were derived solely from the ASM establishments. See Appendix A, Explanation of Terms for an explanation of these items. The census part of the report form is 1 of 220 versions containing product, material, and special inquiries. The diversity of manufacturing activities necessitated the use of this many forms to canvass the 480 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 perform. Respondents were requested to identify the products, the value of each product, and, in many cases, the quantity of the product shipped during the survey year. Space also was provided for the respondent to describe products not specifically identified on the form.

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

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 30 percent of all manufacturing establishments were included in this group. A variable cutoff, based on administrative-record payroll data and determined on an industry-by-industry basis, was used to select those establishments that were to receive 1 of the 220 economic census – manufacturing 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 includes approximately 15 percent of all manufacturing establishments. For those industries where application of the variable cutoff for administrative-record 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 31 versions of the short form, which requested summary product and material data and totals but no details on employment, payroll, cost of materials, inventories, and capital expenditures.

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

## **INDUSTRY CLASSIFICATION OF ESTABLISHMENTS**

Each of the establishments covered in the 1997 Economic Census – Manufacturing was classified in 1 of 480 industries (473 manufacturing industries and 7 former manufacturing industries) in accordance with the industry definitions in the 1997 NAICS Manual. This is the first edition of the NAICS Manual and it is a major change from the 1987 SIC Manual that was used previously. Appendix A of the 1997 NAICS Manual notes the comparability between the 1987 SIC and 1997 NAICS classification systems. When applicable, Appendix G of this report shows the product class and product comparability between the two systems for data in this report.

In the NAICS system, an industry is generally defined as a group of establishments that have similar production processes. To the extent practical, the system uses supply-based or production-oriented concepts in defining industries. The resulting group of establishments must be significant in terms of number, value added by manufacture, value of shipments, and number of employees.

The coding system works in such a way that the definitions progressively become narrower with successive additions of numerical digits. In the manufacturing sector for 1997, there are 21 subsectors (three-digit NAICS), 86 industry groups (four-digit NAICS), 184 NAICS industries (five-digit NAICS) that are comparable with Canadian and Mexican classification, and 473 U.S. industries (six-digit NAICS). This represents an expansion of the four-digit SIC-based U.S. industries from 459 in 1987. Product classes and products of the manufacturing industries have been assigned codes based on the industry from which they originate. In the new system, there are about 1,500 product classes (seven-digit codes), about 6,000 census products, and an additional 3,700 CIR products (ten-digit codes). The ten-digit products are considered the primary products of the industry with the same first six digits. These counts do not include the seven former manufacturing industries that are included in the 1997 Economic Census – Manufacturing.

For the 1997 Economic Census – Manufacturing, all establishments were classified in particular industries based on the products they produced. If an establishment made products of more than one industry, it was classified in the industry with the largest product value. For 1997, there were no “resistance rules” or “frozen industries.”

In ASM years, establishments included in the ASM sample with certainty weights 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. 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 some industries comprise different mixes of establishments in different survey years. Hence, comparisons between prior-year and current-year published totals, particularly at the six-digit NAICS level, should be viewed with caution. This is particularly true for the comparison between the data shown for a census year versus the data shown for the previous ASM year.

As previously noted, the small establishments that may have been misclassified by industry are usually administrative-record 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.

Establishments frequently make products classified both in their industry (primary products) and other industries (secondary products). Industry statistics (employment, payroll, value added by manufacture, value of shipments, etc.) reflect the activities of the establishments which may make both primary and secondary products. Product statistics, however, represent the output of all establishments without regard for the classification of the producing establishment. For this reason, when relating the industry statistics, especially the value of shipments, to the product statistics, the composition of the industry’s output should be considered.

The extent to which industry and product statistics may be matched with each other is measured by the primary product specialization ratio and the coverage ratio. The primary product specialization ratio is the proportion of industry shipments accounted for by the primary products of establishments classified in the industry. The coverage ratio is the proportion of product shipments accounted for by establishments classified in the industry.

## **ESTABLISHMENT BASIS OF REPORTING**

The economic census – manufacturing is conducted on an establishment basis. A company operating at more than one location is required to file a separate report for each location or establishment. 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 1997, 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.

The 1997 Economic Census – Manufacturing excludes data for central administrative offices (CAOs). These would include separately operated administrative offices, warehouses, garages, and other auxiliary units that service manufacturing establishments of the same company. These data are published in a separate report series.

## **DESCRIPTION OF THE ASM SURVEY SAMPLE**

The annual survey of manufactures (ASM) sample is drawn for the second survey year after a census. The most recent sample was drawn for the 1994 survey year based on the 1992 Census of Manufactures. This sample will be in place through the 1998 ASM.

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In 1992, there were approximately 370,000 individual manufacturing establishments. For sample efficiency and cost considerations, the 1992 manufacturing population was partitioned into two components for developing estimates within the ASM; a mail stratum and a nonmail stratum.

**Mail stratum.** The mail stratum of the survey is comprised of larger single-location manufacturing companies and all manufacturing establishments of multiunit companies (companies that operate at more than one physical location). Approximately 230,000 of the 370,000 establishments in the 1992 census were assigned to the mail stratum. On an annual basis, the mail stratum is supplemented with larger, newly active single-location companies identified from a list provided by the Internal Revenue Service (IRS) and new manufacturing locations of multiunit companies identified from the Census Bureau's Company Organization Survey (COS).

For the 1994 survey, a new sample of approximately 58,000 individual establishments was selected from the mail stratum assembled from the 1992 census. Supplemental samples representing both 1993 and 1994 births (newly active establishments that were not included in the 1992 census) were also selected. Establishments selected for the sample are mailed an ASM survey questionnaire for each year through 1998.

The 1994-98 ASM sample design is similar to the one used since 1984. Companies in the 1992 Census of Manufactures with manufacturing shipments of at least \$500 million were defined as company certainties. For these large companies, each manufacturing establishment is included in the mail sample. For the 1994-98 sample, there are approximately 650 certainty companies collectively accounting for over 18,000 establishments.

For the remaining portion of the mail component of the survey, the establishment was defined as the sample unit. All establishments with 250 employees or more were defined as employment certainties. In addition, all establishments producing products in SIC 3571 (Electronic Computers) were defined as certainties. Across these three arbitrary certainty classes, there were approximately 25,000 establishments included in the sample with certainty. Collectively, these certainty establishments accounted for approximately 80 percent of the total value of shipments in the 1992 Census of Manufactures.

Smaller establishments in the remaining portion of the mail stratum were sampled with probabilities ranging from .02 to 1.00. The initial probabilities of selection assigned to these establishments were proportionate to a measure-of-size determined for each establishment. The measure-of-size was a function of the establishment's 1992 industry classification, its 1992 product class data, and the historical variability of the year-to-year estimates of the product class estimates. For each product class (1,755) and four-digit industry (459), a desired reliability

constraint was specified. Using a technique developed by Dr. James R. Chromy of the Research Triangle Institute, the initial establishment probabilities were optimized such that the expected sample satisfied all industry and product class reliability constraints while the sample size was minimized. This technique reduces the likelihood of selecting nonrepresentative samples for individual product classes or industries.

This method of assigning probabilities based on product class shipments is motivated by our primary desire to produce reliable estimates of both product class and industry shipments. The high correlation between shipments and employment, value-added, and other general statistics assures that these variables will also be well represented by the sample. The actual sample selection procedure uses an independent chance of selection method (Poisson sampling) which permits us to prevent small establishments from being selected in consecutive samples without introducing a bias into the survey estimates.

**Nonmail component.** The initial nonmail component of the survey was comprised of approximately 140,000 small, single-establishment companies that were tabulated as administrative records in the 1992 Census of Manufactures. The nonmail stratum is also supplemented annually using the list of newly active single-location companies provided by the Internal Revenue Service (IRS) and payroll cutoffs. Companies with payroll below the payroll cutoff are added to the nonmail stratum. For this portion of the population, sampling is not used. The data for this group are estimated based on selected information obtained annually from the administrative records of the IRS and Social Security Administration (SSA). This administrative information, which includes payroll, total employment, industry classification, and physical location, is obtained under conditions which safeguard the confidentiality of both tax and census records.

## DESCRIPTION OF THE ASM ESTIMATING PROCEDURE

Most of the ASM estimates derived for the mail stratum are computed using a difference estimator. At the establishment level, there is a strong correlation between the current-year data values and the corresponding 1992 (base) data values. Therefore, within the mailed stratum, for each item at each level of aggregation, an estimate of the "difference" between the current year and the base year is computed from sample cases and added to the corresponding base-year values. For the 1993-1997 ASM estimates, the 1992 Census of Manufactures values serve as the base year. For the 1998 ASM, the base will be updated to be the 1997 Economic Census – Manufacturing.

Due to the positive year-to-year correlation, estimates derived using this methodology are generally more reliable than comparable estimates developed from the current sample data alone. Estimates for the capital expenditures variables are not generated using the difference

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estimator because the year-to-year correlations are considerably weaker. The standard linear estimator is used for these variables.

For the nonmail stratum, estimates for payroll and employment are directly tabulated from the administrative-record data provided by IRS and SSA. Estimates of data other than payroll and employment are developed from industry averages. Although the nonmail stratum contains approximately 170,000 individual establishments in 1994, it accounts for less than 2 percent of the estimate for total value of shipments at the total manufacturing level.

Corresponding estimates for the mail and nonmail components are combined to produce the estimates included in this publication.

### **QUALIFICATIONS OF THE ASM DATA**

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

The particular sample selected for the ASM is one of many 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 theoretically comparable, complete-coverage values.

Estimates of the standard errors have been computed from the sample data for selected ASM statistics in this report. They are represented 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, complete-coverage value for specified percentages of all the possible samples).

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

From one standard error below to one standard error above the derived estimate for about two-thirds of all possible samples.

From two standard errors below to two standard errors above the derived estimate for about 19 out of 20 of all possible samples.

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

In addition to the sample errors, the estimates are subject to various response and operational errors: errors of collection, reporting, coding, transcription, imputation for nonresponse, etc. These operational errors also would occur if a complete canvass were to be conducted under the same conditions as the survey. Explicit measures of their effects generally are not available. However, it is believed that most of the important operational errors were detected and corrected during 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 moderately higher. However, for particular estimates, the total error may considerably exceed the standard errors shown. Any figures shown in the tables in this publication having an associated standard error exceeding 15 percent may be combined with higher level totals, creating a broader aggregate, which then may be of acceptable reliability.

### **DATA FROM THE CURRENT INDUSTRIAL REPORTS (CIR)**

The CIR program provides product statistics for selected manufacturing industries at the U.S. level annually and, in some cases, monthly and/or quarterly. When detail product data are collected in the CIR, they are not also collected in the census. However, the annual CIR data are included in the census Product Summary report.

The CIR program uses a unified data collection, processing, and publication system. The Census Bureau updates the survey panels for most reports annually and reconciles the estimates to the results of the broader-based annual survey of manufactures and the economic

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census – manufacturing. The economic census – manufacturing provides a complete list of all producers of the products covered by the CIR program and serves as the primary source for CIR sampling. Where a small number of producers exist, CIR surveys cover all known producers of a product. However, when the number of producers is large, cutoff and random sampling techniques are used. Surveys are continually reviewed and modified to provide the most up-to-date information on products produced. While the CIR program includes both mandatory and voluntary surveys, the annual data are mandatory.

#### **DUPLICATION IN COST OF MATERIALS AND VALUE OF SHIPMENTS**

Data for cost of materials and value of shipments include varying amounts of duplication, especially at higher levels of aggregation. This is because the products of one establishment may be the materials of another. The value added statistics avoid this duplication and are, for most purposes, the best measure for comparing the relative economic importance of industries and geographic areas.

#### **VALUE OF INDUSTRY SHIPMENTS COMPARED WITH VALUE OF PRODUCT SHIPMENTS**

The 1997 Economic Census – Manufacturing shows value of shipments data for industries and products. In the industry statistics tables and files, 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 the products statistics tables and files represent the total value of all products shipped that are classified as primary to an industry regardless of the classification of the producing establishment.

## Appendix D. Geographic Notes

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Not applicable for this report.

# Appendix E. Metropolitan Areas

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Not applicable for this report.

## Appendix F. Footnotes for Products Statistics and Materials Consumed by Kind

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Not applicable for this report.



# Appendix G.

## Comparability of Product Classes and Product Codes: 1997 to 1992

1997 published	1997 collected	1992 published	1997 published	1997 collected	1992 published	1997 published	1997 collected	1992 published
31111111	20473	20473	311211561	2041117	2041117	3112217	20463	20463
311111111	2047321	2047321	311211671	2041121	2041121	311221711	2046353	2046353
311111121	2047323	2047323	311211681	2041123	2041123	311221712	2046354	2046354
311111231	2047326	2047326	311211791	2041126	2041126	311221713	2046356	2046356
311111341	2047338	2047338	3112117A1	2041129	2041129	311221714	2046359	2046359
311111YVV	2047300	2047300	3112117B1	2041128	2041128	3112217YVV	2046300	2046300
3111114	20474	20474	3112118C1	2041131	2041131	311221A	20464	20464
311111411	2047441	2047441	3112118D1	2041151	2041151	311221A11	2046462	2046462
311111422	2047443	2047443	3112118E1	2041161	2041161	311221A21	2046465	2046465
311111423	2047445	2047445	3112118F1	2041198	2041198	311221A23	2046472	2046472
311111434	2047454	2047454	311211YVV	2041100	2041100	311221A24	2046475	2046475
311111435	2047457	2047457	3112114	20412	20412	311221AYVV	2046400	2046400
3111114YVV	2047400	2047400	311211411	2041213	2041213	311221W	20460	20460
311111W	20470	20470	311211412	2041219	2041219	311221WYVV	2046000	2046000
311111WYVV	2047000	2047000	3112114YVV	2041200	2041200	311221WYVY	2046002	2046002
311111WYVY	2047002	2047002	3112117	20413	20413	3112221	20751	20751
3111191	20481	20481	311211711	2041311	2041311	311222111	2075113	2075113
311119111	2048111	2048111	311211712	2041315	2041315	311222122	2075115	2075115
311119121	2048115	2048115	311211713	2041321	2041321	311222123	2075121	2075121
311119123	2048116	2048116	311211714	2041323	2041323	311222124	2075131	2075131
311119134	2048118	2048118	311211715	2041365	2041365	3112221YVV	2075100	2075100
311119135	2048121	2048121	311211716	2041393	2041393	3112224	20752 pt	20752 pt
311119136	2048122	2048122	311211717	2041395	2041395	311222411	2075211	2075211
311119137	2048123	2048123	311211718	2041397	2041397	311222421	2075231	2075231
311119138	2048124	2048124	3112117YVV	2041300	2041300	311222423	2075251	2075251
311119139	2048131	2048131	311211A	20415	20415	311222424	2075261	2075261
31111913A	2048132	2048132	311211A11	2041511	2041511	311222426	2075297	2075297
31111913B	2048133	2048133	311211A12	2041513	2041513	3112224YVV	2075200 pt	2075200 pt
31111913C	2048134	2048134	311211A13	2041515	2041515	311222W	20750 pt	20750 pt
3111191YVV	2048100	2048100	311211A14	2041521	2041521	311222WYVV	2075000 pt	2075000 pt
3111194	20482	20482	311211A15 pt	2041530 pt	2041530 pt	311222WYVY	2075002 pt	2075002 pt
3111194100	2048200	2048200	311211A15 pt	2041530 pt	2041530 pt	3112231	20741	20741
3111197	20483	20483	311211A16 pt	2041590 pt	2041581	3112231100	2074100	2074100
311119711	2048301	2048301	311211A16 pt	2041590 pt	2041585	3112234	20742	20742
311119712	2048302	2048302	311211A16 pt	2041590 pt	2041586	3112234100	2074200	2074200
3111197YVV	2048300	2048300	311211A16 pt	2041590 pt	2041588	3112237	20743	20743
311119A	20484	20484	311211A16 pt	2041590 pt	2041589	3112237100	2074300	2074300
311119A100	2048400	2048400	311211A17 pt	2041596 pt	2041591	311223A	20744 pt	20744 pt
311119D	20485	20485	311211A17 pt	2041596 pt	2041592	311223A111	2074414	2074414
311119D111	2048503	2048503	311211A17 pt	2041596 pt	2041595	311223A22	2074451	2074451
311119D121	2048504	2048504	311211AYVV	2041500	2041500	311223A23	2074498	2074498
311119DYVV	2048500	2048500	311211D pt	20343 pt	20343 pt	311223AYVV	2074400 pt	2074400 pt
311119G	20486	20486	311211D pt	20416	20416	311223D	20761	20761
311119G100	2048600	2048600	311211D11 pt	2034338	2034339 pt	311223D111	2076113	2076113
311119J	20487	20487	311211D11 pt	2041613	2041613	311223D121	2076133	2076133
311119J111	2048705	2048705	311211D12	2041627	2041627	311223DYVV	2076100	2076100
311119J121	2048706	2048706	311211DYVV pt	2034300 pt	2034300 pt	311223G	20762	20762
311119JYVV	2048700	2048700	311211DYVV pt	2041600	2041600	311223G11	2076223	2076223
311119M	20488	20488	311211W pt	20340 pt	20340 pt	311223G12	2076252	2076252
311119M11	2048811	2048811	311211W pt	20410	20410	311223G13	2076257	2076257
311119M12	2048812	2048812	311211WYVV pt	2034000 pt	2034000 pt	311223G14	2076262	2076262
311119M13	2048813	2048813	311211WYVV pt	2041000	2041000	311223G15	2076263	2076263
311119M14	2048816	2048816	311211WYVY pt	2034002 pt	2034002 pt	311223G16	2076264	2076264
311119M15	2048821	2048821	311211WYVY pt	2041002	2041002	311223G17	2076265	2076265
311119M16	2048823	2048823	3112120	20440	20440	311223G18	2076268	2076268
311119M17	2048825	2048825	311212011	2044011	2044011	311223G19	2076273	2076273
311119M18	2048831	2048831	311212021	2044015	2044015	311223GYVV	2076200	2076200
311119M19	2048833	2048833	311212031	2044017	2044017	311223J	20763 pt	20763 pt
311119MYVV	2048800	2048800	311212041	2044021	2044021	311223J11	2076311	2076311
311119P	20489 pt	20489 pt	311212045	2044035	2044035	311223J12	2076351	2076351
311119P11	2048911	2048911	311212046	2044051	2044051	311223J13	2076361	2076361
311119P12	2048922	2048922	311212047	2044098	2044098	311223J14	2076397	2076397
311119P13	2048935	2048935	311212048	2044093	2044093	311223JYVV	2076300 pt	2076300 pt
311119P14	2048939	2048939	3112120YVV	2044000	2044000	311223W pt	20740 pt	20740 pt
311119P15	2048943	2048943 pt	3112120YVY	2044002	2044002	311223W pt	20760 pt	20760 pt
311119PYVV	2048900 pt	2048900 pt	3112120	20830	20830	311223WYVV pt	2074000 pt	2074000 pt
311119T	2048A	2048A	3112130100	2083000 pt	2083000 pt	311223WYVY pt	2076000 pt	2076000 pt
311119T111	2048A01	2048A01	3112130YVV	2083000 pt	2083000 pt	311223WYVY pt	2074002 pt	2074002 pt
311119T12	2048A03	2048A03	3112130YVY	2083002	2083002	311223WYVY pt	2076002 pt	2076002 pt
311119T13	2048A05	2048A05	3112211	20461	20461	3112251	20744 pt	20744 pt
311119T14	2048A07	2048A07	311221111	2046103	2046103	3112251 pt	20752 pt	20752 pt
311119T15	2048A09	2048A09	311221121	2046104	2046104	3112251 pt	20763 pt	20763 pt
311119T16	2048A11	2048A11	311221131 pt	2046114 pt	2046113	3112251 pt	20773 pt	20773 pt
311119T17	2048A12	2048A12	311221131 pt	2046114 pt	2046118	3112251 pt	20791	20791
311119T18	2048A19	2048A19	311221141	2046123	2046123	3112251111	2079113	2079113
311119TYVV	2048A00	2048A00	311221125	2046125	2046125	311225122	2079115	2079115
311119W	20480 pt	20480 pt	311221126	2046125	2046125	311225133	2079142	2079142
311119WYVV	2048000 pt	2048000 pt	311221137	2046129	2046129	311225144	2079151	2079151
311119WYVY	2048002 pt	2048002 pt	3112211YVV	2046100	2046100	311225155	2079152	2079152
311211	20411	20411	3112214	20462	20462	311225156	2079153	2079153
311211111	2041105	2041105	311221411	2046211	2046211	311225157	2079154	2079154
311211121	2041107	2041107	311221421	2046213	2046213	311225158	2079159	2079159
311211133	2041111	2041111	311221431 pt	2046218 pt	2046215			
311211144	2041113	2041113	311221433 pt	2046218 pt	2046217			
311211155	2041115	2041115	3112214YVV	2046200	2046200			

1997 published	1997 collected	1992 published	1997 published	1997 collected	1992 published	1997 published	1997 collected	1992 published
3112251591	2079171	2079171	3113207	20669	20669	3114121	20382	20382
31122515A1	2079183	2079183	3113207111	2066921	2066921	3114121111	2038211	2038211
31122515B1	2079185	2079185	3113207221	2066911	2066911	3114121221	2038213	2038213
31122515C1	2079198	2079198	3113207231	2066971	2066971	3114121331	2038215	2038215
31122515D1	2077313	2077313 pt	3113207241	2066975	2066975	3114121341	2038219	2038219
3112251701	2074499	2074499	3113207251	2066963	2066963	3114121451	2038221	2038221
3112251706	2075299	2075299	3113207360	2066981	2066981	3114121561	2038223	2038223
3112251711	2076391	2076391	3113207371	2066992	2066992	3114121671	2038220	2038220
3112251721	2076394	2076394	3113207381	2066993	2066993	3114121781	2038228	2038228
3112251731	2076395	2076395	3113207391	2066995	2066995	3114121791	2038231	2038231
			3113207YVW	2066900	2066900	31141217A1	2038235	2038235
3112251741	2076396	2076396						
3112251751	2076398	2076398	311320W	20660	20660	31141217B1	2038237	2038237
3112251YVW pt	2074400 pt	2074400 pt	311320WYVW	2066000	2066000	31141217C1	2038238	2038238
3112251YVW pt	2075200 pt	2075200 pt	311320WYVW	2066002	2066002	31141217D1	2038239	2038239
3112251YVW pt	2076300 pt	2076300 pt				31141217E1	2038247	2038247
3112251YVW pt	2077300 pt	2077300 pt	3113301	20642	20642	31141217F1 pt	2038250 pt	2038243
3112251YVW pt	2079100	2079100	3113301000	2064200	2064200	31141217G1 pt	2038250 pt	2038245
						31141217H1 pt	2038250 pt	2038249
3112254	20792	20792	3113302	54410 pt	54410 pt	3114121YVW	2038200	2038200
3112254100	2079200	2079200	3113302000	5441011	5441000 pt			
311225W pt	20740 pt	20740 pt						
311225W pt	20750 pt	20750 pt	311330W pt	20640 pt	20640 pt	3114124	20384	20384
						3114124111	2038451	2038451
311225W pt	20760 pt	20760 pt				3114124221	2038459	2038459
			311330W pt	54410 pt	54410 pt	3114124331	2038463	2038463
311225W pt	20770 pt	20770 pt	311330WYVW pt	2064000 pt	2064000 pt	3114124441	2038469	2038469
			311330WYVW pt	5441000 pt	5441000 pt	3114124YVW	2038400	2038400
311225W pt	20790	20790	311330WYVW pt	2064002 pt	2064002 pt			
311225WYVW pt	2074000 pt	2074000 pt	311330WYVW pt	5441002 pt	5441000 pt	311412W	20380	20380
311225WYVW pt	2075000 pt	2075000 pt				311412WYVW	2038000	2038000
311225WYVW pt	2076000 pt	2076000 pt	3113401	20643	20643	311412WYVW	2038002	2038002
311225WYVW pt	2077000 pt	2077000 pt	3113401000	2064300	2064300			
311225WYVW pt	2079000	2079000				3114211	20331	20331
311225WYVW pt	2079000	2079000	3113402	54410 pt	54410 pt	3114211111	2033112	2033112
311225WYVW pt	2074002 pt	2074002 pt	3113402000	5441015	5441000 pt	3114211121	2033113	2033113
311225WYVW pt	2075002 pt	2075002 pt				3114211131	2033115	2033115
311225WYVW pt	2076002 pt	2076002 pt	3113404	20648	20648	3114211141	2033122	2033122
311225WYVW pt	2077002 pt	2077002 pt	3113404110	2064811	2064811	3114211151	2033124	2033124
311225WYVW pt	2079002	2079002	3113404320	2064814	2064814	3114211161	2033128	2033128
			3113404450	2064815	2064815	3114211171	2033132	2033132
3112301	20431	20431	3113404YVW	2064800	2064800	3114211181	2033134	2033134
3112301111	2043101	2043101				3114211191	2033136	2033136
3112301121	2043103	2043103	3113407 pt	20649	20649	31142111A1	2033138	2033138
3112301231	2043105	2043105						
3112301241	2043107	2043107	3113407 pt	2099G pt	2099G pt	31142111B1	2033141	2033141
3112301351	2043109	2043109	3113407221	2064976	2064976	31142111C1	2033157	2033157
3112301361	2043111	2043111	3113407231	2099G95	2099G98 pt	31142111D1	2033159	2033159
3112301471	2043113	2043113	3113407241	2064921	2064921	31142111E1	2033161	2033161
3112301481	2043116	2043116	3113407YVW pt	2064900	2064900	31142111F1	2033163	2033163
3112301591	2043118	2043118	3113407YVW pt	2099G00 pt	2099G00 pt	31142111G1	2033165	2033165
31123015A1	2043119	2043119				31142111H1	2033169	2033169
3112301YVW	2043100	2043100	311340W pt	20640 pt	20640 pt	3114211YVW	2033100	2033100
3112304	20432 pt	20432 pt	311340W pt	20990 pt	20990 pt	3114214	20332	20332
3112304111	2043201	2043201				3114214111	2033203	2033203
3112304121	2043203	2043203	311340W pt	54410 pt	54410 pt	3114214121	2033205	2033205
3112304131	2043205	2043205	311340WYVW pt	2064000 pt	2064000 pt	3114214131	2033215	2033215
3112304141	2043207	2043207	311340WYVW pt	2099000 pt	2099000 pt	3114214141	2033235	2033235
3112304151	2043213	2043209 pt	311340WYVW pt	5441000 pt	5441000 pt	3114214151	2033237	2033237
3112304YVW	2043200 pt	2043200 pt	311340WYVW pt	2064002 pt	2064002 pt	3114214161	2033239	2033239
			311340WYVW pt	2099002 pt	2099002 pt	3114214171	2033253	2033253
311230W	20430 pt	20430 pt	311340WYVW pt	5441002 pt	5441000 pt	3114214181	2033255	2033255
311230WYVW	2043000 pt	2043000 pt				3114214191	2033274	2033274
311230WYVW	2043002 pt	2043002 pt				31142141A1	2033275	2033275
			3114111	20371	20371			
3113110	20610	20610	3114111111	2037135	2037135	31142141B1	2033276	2033276
3113110111	2061011	2061011	3114111121	2037141	2037141	31142141C1	2033291	2033291
3113110221	2061065	2061065	3114111131	2037155	2037155	31142141D1	2033293	2033293
3113110231	2061085	2061085	3114111141	2037157	2037157	31142141E1	2033294	2033294
3113110YVW	2061000	2061000	3114111151	2037161	2037161	31142141F1	2033295	2033295
3113110YVW	2061002	2061002	3114111161	2037162	2037162	31142141G1	2033297	2033297
			3114111171	2037165	2037165	31142141H1	2033298	2033298
3113120	20620	20620	3114111181	2037166	2037166	3114214YVW	2033200	2033200
3113120111	2062009	2062009	3114111191	2037168	2037168			
3113120221	2062012	2062012	31141115A1	2037169	2037169			
3113120331	2062014	2062014						
3113120441	2062015	2062015	31141116B1	2037170	2037170	3114217	20333	20333
3113120551	2062031	2062031	31141116C1	2037172	2037172	3114217111	2033315	2033315
3113120561	2062035	2062035	31141116D1	2037174	2037174	3114217121	2033321	2033321
3113120571	2062041	2062041	31141116E1	2037174	2037174	3114217YVW	2033300	2033300
3113120581	2062045	2062045	31141116F1	2037180	2037180			
3113120591	2062053	2062053	31141116G1	2037183	2037183	311421A	20335	20335
31131205A1	2062056	2062056	31141116H1	2037185	2037185	311421A111	2033515	2033515
31131205B1	2062075	2062075	31141116I1	2037186	2037186	311421A121	2033598	2033598
3113120YVW	2062000	2062000	31141116J1	2037187	2037187	311421AYVW	2033500	2033500
3113120YVW	2062002	2062002	31141116K1	2037194	2037194			
			31141116L1	2037197	2037197	311421D	20336	20336
3113130	20630	20630	31141116M1	2037199	2037199	311421D111	2033632	2033631 pt
3113130111	2063009	2063009	31141116N1	2037170	2037170	311421D221	2033614	2033614
3113130221	2063012	2063012	31141116O1	2037172	2037172	311421D231	2033615	2033615
3113130331	2063013	2063013	31141116P1	2037174	2037174	311421D241	2033622	2033622
3113130441	2063015	2063015	31141116Q1	2037180	2037180	311421D251	2033623	2033623
3113130551	2063033	2063033	31141116R1	2037183	2037183	311421D261	2033651	2033651
3113130561	2063035	2063035	31141116S1	2037185	2037185	311421D271	2033655	2033655
3113130671	2063053 pt	2063051	31141116T1	2037186	2037186	311421D281	2033667	2033667
3113130671 pt	2063053 pt	2063055	31141116U1	2037187	2037187	311421D291	2033691	2033691
3113130781	2063076	2063076	31141116V1	2037194	2037194	311421D3A1	2033658	2033631 pt
3113130791	2063082	2063082	31141116W1	2037194	2037194	311421D3B1	2033659	2033631 pt
31131308A1	2063084	2063084	31141116X1	2037242	2037242	311421D3C1	2033660	2033631 pt
31131309B1	2063091	2063091	31141116Y1	2037245	2037245	311421DYVW	2033600	2033600
3113130YVW	2063000	2063000						
3113130YVW	2063002	2063002	31141143B1	2037248	2037248	311421G	20338	20338
			31141144C1	2037249	2037249	311421G111	2033811	2033811
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3113201111	2066122	2066122	31141145E1	2037255	2037255	311421G131	2033813	2033813 pt
3113201221	2066132	2066132	31141146F1	2037261	2037261	311421G141	2033821	2033821
3113201231	2066132	2066132	31141146G1	2037263	2037263	311421G151	2033825	2033825
3113201341	2066152	2066152	31141146H1	2037269	2037269	311421G161	2033828	2033813 pt
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						311421G181	2033841	2033841
3113204	20662	20662	311411W	20370	20370	311421G191	2033851	2033851
3113204000	2066200	2066200	311411WYVW	2037000	203700			

1997 published	1997 collected	1992 published	1997 published	1997 collected	1992 published	1997 published	1997 collected	1992 published
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311421J221 .....	2033A11 .....	2033A11 .....	3115117121 .....	2026316 .....	2026316 .....	3115200221 .....	2024015 .....	2024015 .....
311421J231 .....	2033A31 .....	2033A31 .....	3115117131 .....	2026318 .....	2026318 .....	3115200331 .....	2024016 .....	2024016 .....
311421J241 .....	2033A41 .....	2033A41 .....	3115117YVW .....	2026300 .....	2026300 .....	3115200441 .....	2024021 .....	2024021 .....
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311421J261 .....	2033A93 .....	2033A93 .....	311511A .....	20265 .....	20265 .....	3115200461 .....	2024023 .....	2024023 .....
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311421M131 .....	2033B21 .....	2033B21 .....	311511D131 .....	2026714 .....	2026714 .....	31152005D1 .....	2024046 .....	2024096 .....
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311421P131 .....	2035215 .....	2035215 .....				3115200YVW .....	2024000 .....	2024000 .....
311421P141 .....	2035219 .....	2035219 .....	311511G .....	20268 .....	20268 .....	3115200YVW .....	2024002 .....	2024002 .....
311421P151 .....	2035221 .....	2035221 .....	311511G111 .....	2026813 .....	2026813 .....			
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311421P191 .....	2035239 .....	2035239 .....				3116111331 .....	2011116 .....	2011116 .....
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311422A111 pt .....	2032464 pt .....	2032463 .....	311513A100 .....	2022600 .....	2022000 pt .....	311611G141 .....	2011635 .....	2011635 .....
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3114231 pt .....	20342 .....	20342 .....	3115141791 .....	2023549 .....	2023549 .....			
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3114231121 .....	2034200 .....	2034200 .....				311611P121 .....	2011922 .....	2011922 .....
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3114234 .....	20343 pt .....	20343 pt .....	3115144131 .....	2023621 .....	2023621 .....			
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3114234121 .....	2034315 .....	2034315 .....	3115144351 .....	2023628 .....	2023628 .....			
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3114234141 .....	2034325 .....	2034325 .....				311611T111 .....	2011B15 .....	2011B15 .....
3114234151 .....	2034332 .....	2034332 .....	3115147 .....	20237 .....	20237 .....	311611T121 .....	2011B17 .....	2011B17 .....
3114234161 .....	2034337 .....	2034337 .....	3115147111 .....	2023712 .....	2023712 .....	311611T131 .....	2011B41 .....	2011B41 .....
3114234181 .....	2034340 .....	2034339 pt .....	3115147121 .....	2023717 .....	2023717 .....	311611T141 .....	2011B45 .....	2011B45 .....
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311423W pt .....	20340 pt .....	20340 pt .....				311611T171 .....	2048940 .....	2048941 pt .....
			311514A .....	20238 .....	20238 .....	311611TYVW pt .....	2011B00 .....	2011B00 .....
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311423WYVW pt .....	2034002 pt .....	2034002 pt .....	311514A241 .....	2023805 .....	2023805 .....			
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1997 published	1997 collected	1992 published	1997 published	1997 collected	1992 published	1997 published	1997 collected	1992 published
3116124	20137 pt	20137 pt	3117110YWY pt	2091002	2091002	3118124	20512	20512
3116124111	2013711	2013711	3117121	20922	20922	3118124111	2051230	2051230
3116124221	2013717	2013717	3117121111	2092201	2092213 pt	3118124121	2051231	2051231
3116124331	2013721	2013721	3117121121	2092202	2092213 pt	3118124231	2051243	2051243
3116124441	2013735	2013735	3117121131	2092203	2092213 pt	3118124241	2051244	2051244
3116124451	2013791	2013791	3117121141	2092204	2092213 pt	3118124251	2051250	2051250
3116124YVV	2013700 pt	2013700 pt	3117121151	2092207	2092213 pt	3118124261	2051251	2051251
3116127	20138	20138	3117121161	2092208	2092213 pt	3118124271	2051260	2051260
3116127100	2013800	2013800	3117121171	2092209	2092213 pt	3118124281	2051261	2051261
311612A pt	2013B	2013B	3117121181	2092210	2092213 pt	3118124291	2051270	2051270
311612A pt	51470 pt	51470 pt	3117121191	2092211	2092213 pt	31181242A1	2051271	2051271
311612A111	5147009	5147000 pt	31171211A1	2092212	2092213 pt	31181242B1	2051280	2051280
311612A221	2013B11	2013B11	31171211B1	2092215	2092215	31181242C1	2051281	2051281
311612A331	2013B13	2013B13	31171211C1	2092217	2092217	31181242D1	2051290	2051290
311612A441	2013B17	2013B17	31171211D1	2092218	2092218	31181242E1	2051291	2051291
311612A451	2013B18	2013B18	31171211E1	2092219	2092219	31181242F1	2051299	2051299
311612A461	2013B21	2013B21	31171211F1	2092223	2092223	3118124YVW	2051200	2051200
311612AYWV pt	2013B00	2013B00	31171211G1	2092224	2092224	3118127	20514	20514
311612AYWV pt	5147000 pt	5147000 pt	31171211H1	2092225	2092225	3118127111	2051413	2051413
311612W pt	20130	20130	31171211J1	2092226	2092226	3118127121	2051415	2051415
311612W pt	51470 pt	51470 pt	31171211K1	2092227	2092227	3118127131	2051419	2051419
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311612WYWW pt	5147000 pt	5147000 pt	31171211M1	2092231	2092231	311812A	20515	20515
311612WYWW pt	2013002	2013002	3117121YVW	2092200	2092200	311812A111	2051513	2051513
311612WYWW pt	5147002	5147002	3117122	20923	20923	311812A121	2051519	2051519
3116131	20771	20771	3117122211	2092311	2092311	311812AYWV	2051500	2051500
3116131111	2077111	2077111	3117122221	2092313	2092313	311812D pt	20518 pt	20518
3116131121	2077113	2077113	3117122331	2092315	2092315	311812D pt	20518 pt	20518
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3116134 pt	20772	20772	3117122451	2092319	2092319	311812D111	2051813	2051813
3116134 pt	20773 pt	20773 pt	3117122461	2092321	2092321	311812D131	2051845	2051845
3116134111	2077211	2077211	3117122471	2092323	2092323	311812D151	2051850	2051850
3116134221	2077212	2077212	3117122581	2092325	2092326 pt	311812D181	2051890	2051890
3116134231	2077237	2077237	3117122691	2092328	2092327 pt	311812D191	2051892	2051892
3116134241	2077298	2077298	31171226A1	2092331	2092329 pt	311812DYVW	2051800	2051800
3116134251	2077346	2077346	31171227B1	2092332	2092326 pt	311812W pt	20510	20510
3116134261	2077312	2077311 pt	31171228C1	2092333	2092327 pt	311812W pt	20520 pt	20520 pt
3116134YVW pt	2077200	2077200	31171228D1	2092334	2092329 pt	311812WYWW pt	2051000	2051000
3116134YVW pt	2077300 pt	2077300 pt	31171229E1	2092336	2092326 pt	311812WYWW pt	2052000 pt	2052000 pt
311613W	20770 pt	20770 pt	3117122AF1	2092338	2092327 pt	311812WYWW pt	2051002	2051002
311613WYWW	2077000 pt	2077000 pt	3117122AG1	2092339	2092329 pt	311812WYWW pt	2052002 pt	2052002 pt
311613WYWW	2077002 pt	2077002 pt	3117122YVW	2092300	2092300	3118130	20530	20530
3116151	20151	20151	311712311	20925	20925	3118130111	2053014	2053014
3116151111	2015133	2015133	3117123121	2092521	2092521	3118130221	2053011	2053011
3116151221	2015134	2015134	3117123131	2092522	2092522	3118130331	2053020	2053020
3116151331	2015136	2015136	3117123141	2092524	2092524	3118130341	2053017	2053017
3116151441	2015139	2015139	3117123251	2092525	2092525	3118130351	2053040	2053040
3116151551	2015141	2015141	3117123261	2092526	2092526	3118130361	2053030	2053025 pt
3116151YVW	2015100	2015100	3117123271	2092527	2092527	3118130371	2053032	2053025 pt
3116154	20152	20152	3117123281	2092528	2092528	3118130391	2053055	2053050 pt
3116154111	2015221	2015221	3117123291	2092529	2092529	31181303V1	2053060	2053050 pt
3116154121	2015223	2015223	31171232A1	2092530	2092530	3118130YWW	2053000	2053000
3116154YVW	2015200	2015200	31171232B1	2092533	2092533	3118130YVW	2053002	2053002
3116157	20153	20153	31171232C1	2092534	2092534	31181211	20521 pt	20521 pt
3116157111	2015322	2015322	31171232D1	2092535	2092535	3118121111	2052125	2052125
3116157221	2015324	2015324	31171232E1	2092536	2092536	3118121221	2052135	2052135
3116157331	2015327	2015327	3117123YVW	2092500	2092500	3118121331	2052123	2052123
3116157341	2015300	2015300	3117124 pt	20773 pt	20773 pt	3118121341	2052133	2052133
3116157YVW	2015300	2015300	3117124 pt	20926	20926	3118121351	2052159	2052151 pt
311615A	20154	20154	3117124111	2092611	2092611	3118121391	2052197	2052198 pt
311615A111	2015414	2015414	3117124121	2092613	2092613	3118121YVW	2052100 pt	2052100 pt
311615A121	2015416	2015416	3117124131	2092698	2092698	31181214	20522	20522
311615AYVW	2015400	2015400	3117124211	2077363	2077361 pt	3118121411	2052213	2052213
311615D	20155	20155	3117124221	2077376	2077366 pt	3118121421	2052217	2052217
311615D111	2015512 pt	2015511	3117124231	2077372	2077379 pt	3118121431	2052215	2052215
311615D111 pt	2015512 pt	2015513	3117124241	2077314	2077311 pt	31181214341	2052216	2052216
311615D111 pt	2015512 pt	2015515	3117124251	2077314	2077314 pt	31181214351	2052218	2052218
311615D121	2015531	2015531	3117124YVW pt	2077300 pt	2077300 pt	31181214361	2052220	2052220
311615D131	2015532	2015532	3117124YVW pt	2092600	2092600	31181214371	2052221	2052221
311615D141	2015533	2015533	311712W pt	20770 pt	20770 pt	31181214381	2052235	2052235
311615D151	2015534	2015534	311712W pt	20920	20920	31181214391	2052231	2052231
311615D161	2015539	2015539	311712WYVW pt	2077000 pt	2077000 pt	31181214YVW	2052200	2052200
311615D171	2015548	2015548	311712WYVW pt	2092000	2092000	311812W	20520 pt	20520 pt
311615DYVW	2015500	2015500	311712WYVW pt	2077002 pt	2077002 pt	311812WYVW	2052000 pt	2052000 pt
311615W	20150 pt	20150 pt	311712WYVW pt	2092002	2092002	311812WYVW	2052002 pt	2052002 pt
311615WYVW	2015000 pt	2015000 pt	3118110	54610	54610	3118220	20450	20450
311615WYVW	2015002 pt	2015002 pt	3118110111	5461011	5461000 pt	3118220121	2045013	2045013
3117110 pt	20770 pt	20770 pt	3118110121	5461013	5461000 pt	3118220211	2045011	2045011
3117110 pt	20773 pt	20773 pt	3118110131	5461015	5461000 pt	3118220231	2045015	2045015
3117110 pt	20910	20910	3118110141	5461017	5461000 pt	3118220241 pt	2045030 pt	2045017
3117110111	2091012	2091012	3118110151	5461019	5461000 pt	31182202421 pt	2045030 pt	2045019
3117110221	2091013	2091013	3118110161	5461021	5461000 pt	31182202431 pt	2045030 pt	2045025
3117110331	2091014	2091014	31181101V1	5461090	5461000 pt	3118220251	2045021	2045021
3117110341	2091015	2091015	3118110YVW	5461000	5461000 pt	3118220261 pt	2045090 pt	2045081
3117110351	2091016	2091016	3118110YVW	5461002	5461000 pt	31182202621 pt	2045090 pt	2045085
3117110461	2077362	2077361 pt	3118121 pt	20511	20511	31182202631 pt	2045090 pt	2045086
3117110471	2077364	2077366 pt	3118121 pt	20521 pt	20521 pt	31182202641 pt	2045090 pt	2045088
3117110481	2077371	2077379 pt	3118121111	2051121	2051121	31182202651 pt	2045090 pt	2045089
3117110591	2091019	2091019	3118121121	2051122	2051122	3118220271 pt	2045096 pt	2045091
31171106A1	2091031	2091031	3118121231	2051127	2051127	31182202721 pt	2045096 pt	2045092
31171107B1	2091051	2091051	3118121241	2051129	2051129	31182202731 pt	2045096 pt	2045095
31171107C1	2091071	2091071	3118121351	2051131	2051131	3118220YVW	2045000	2045000
31171107D1	2091082	2091082	3118121361	2051133	2051133	3118220YVW	2045002	2

1997 published	1997 collected	1992 published	1997 published	1997 collected	1992 published	1997 published	1997 collected	1992 published
3118230YVY	2098002	2098002	3119301	20872	20872	3119910 pt.	20990 pt.	20990 pt.
3118300 pt.	20990 pt.	20990 pt.	3119301111	2087215	2087215	3119910 pt.	20999 pt.	20999 pt.
3118300 pt.	20999 pt.	20999 pt.	3119301111	2087221	2087221	3119910111	2099921	2099921
3118300100	2099943	2099943	3119301YVW	2087200	2087200	3119910221	2099931	2099931
3118300YVW pt.	2099000 pt.	2099000 pt.	3119304	20873	20873	3119910331	2099935	2099935
3118300YVW pt.	2099900 pt.	2099900 pt.	3119304111	2087321	2087321	3119910441	2099945	2099945
3118300YVW pt.	2099900 pt.	2099900 pt.	3119304121	2087323	2087323	3119910551	2099953	2099953
3118300YVW pt.	2099002 pt.	2099002 pt.	3119304131	2087325	2087325	3119910561	2099955	2099955
3119111	20680 pt.	20680 pt.	3119304141	2087341	2087341	3119910671	2099958	2099958
311911111	2068013	2068013	3119304151	2087343	2087343	3119910781	2099959	2099959
311911121	2068015	2068015	3119304161	2087345	2087345	3119910YVW pt.	2099900 pt.	2099900 pt.
311911131	2068017	2068017	3119304YVW	2087300	2087300	3119910YVW pt.	2099900 pt.	2099900 pt.
311911241	2068033	2068033	3119307	20874 pt.	20874 pt.	3119911	20991	20991
311911251	2068035	2068035	3119307111	2087459	2087459	311991111	2099113	2099113
311911261	2068037	2068037	3119307121	2087461	2087461	311991121	2099115	2099115
311911371	2068053	2068053	3119307131	2087471	2087471	311991131	2099153	2099153
311911381	2068055	2068055	3119307141	2087481	2087481	311991141	2099155	2099155
311911391	2068057	2068057	3119307YVW	2087400 pt.	2087400 pt.	311991151	2099159	2099159
3119113A1	2068061	2068061	311930W	20870 pt.	20870 pt.	311991YVW	2099100	2099100
3119111YVW	2068000 pt.	2068000 pt.	311930YVW	2087000 pt.	2087000 pt.	311991111	2099325	2099325
			311930YVWY	2087002 pt.	2087002 pt.	311991411	2099327	2099327
3119114	2099F	2099F	311930YVWY	2087002 pt.	2087002 pt.	311991421	2099330	2099330
3119114111	2099F44	2099F44	3119411	20996	20996	3119914YVW	2099300	2099300
3119114121	2099F46	2099F46	3119411111	2099611	2099611			
3119114YVW	2099F00	2099F00	3119411121	2099651	2099651	3119997	20994	20994
311911W pt.	20680 pt.	20680 pt.	3119411131	2099657	2099657	3119997111	2099413	2099413
			3119411YVW	2099600	2099600	3119997121	2099423	2099423
311911W pt.	20990 pt.	20990 pt.	3119414	20353	20353	3119997131	2099434	2099434
311911WYVW pt.	2068000 pt.	2068000 pt.	3119414111	2035311	2035311	3119997141	2099455	2099455
311911WYVW pt.	2099000 pt.	2099000 pt.	3119414221	2035351	2035351	3119997YVW	2099400	2099400
311911WYVW pt.	2068002	2068002	3119414YVW	2035300	2035300			
311911WYVW pt.	2099002 pt.	2099002 pt.				311999A	2099A	2099A
			3119417	20354	20354	311999A111	2099A01	2099A01
3119191	20961	20961	3119417111	2035411	2035411	311999A121	2099A02	2099A02
3119191100	2096100	2096100	3119417221	2035423	2035423	311999A131	2099A03	2099A03
			3119417331	2035429	2035429	311999A141	2099A04	2099A04
3119194	20962	20962	3119417441	2035435	2035435	311999A151	2099A05	2099A05
3119194111	2096219	2096221 pt.	3119417YVW	2035400	2035400	311999A161	2099A06	2099A06
3119194221	2096225	2096221 pt.	311941W pt.	20350 pt.	20350 pt.	311999AYVW	2099A00	2099A00
3119194331	2096229	2096229	311941W pt.	20990 pt.	20990 pt.	311999D	2099B pt.	2099B pt.
3119194YVW	2096200	2096200	311941WYVW pt.	2035000 pt.	2035000 pt.	311999D131	2099B11	2099B11
			311941WYVW pt.	2099000 pt.	2099000 pt.	311999D141	2099B13	2099B13
3119197 pt.	20521 pt.	20521 pt.	311941WYVW pt.	2035002 pt.	2035002 pt.	311999D151	2099B21	2099B19 pt.
			311941WYVW pt.	2099002 pt.	2099002 pt.	311999DYVW	2099B00 pt.	2099B00 pt.
3119197 pt.	20963	20963				311999G	20159	20159
3119197111	2052155	2052151 pt.	3119421 pt.	28991 pt.	28991 pt.	311999G111	2015911	2015911
3119197221	2096300 pt.	2096300 pt.	3119421111	2899121	2899100 pt.	311999G121	2015913	2015913
3119197YVW pt.	2052100 pt.	2052100 pt.	3119421121	2099E31	2099E31	311999G131	2015915	2015915
3119197YVW pt.	2096300 pt.	2096300 pt.	3119421131	2099E33	2099E33	311999G141	2015917	2015917
311919W pt.	20520 pt.	20520 pt.	3119421241	2099E38	2099E38	311999G151	2015951	2015951
			3119421351	2099E39	2099E39	311999G161	2015953	2015953
311919W pt.	20960	20960	3119421YVW pt.	2099E00	2099E00	311999G171	2015955	2015955
311919WYVW pt.	2052000 pt.	2052000 pt.	3119421YVW pt.	2899100 pt.	2899100 pt.	311999G181	2015957	2015957
311919WYVW pt.	2096000	2096000				311999GYVW	2015900	2015900
311919WYVW pt.	2052002 pt.	2052002 pt.	3119424 pt.	20871	20871			
311919WYVW pt.	2096002	2096002	3119424 pt.	20952 pt.	20952 pt.	311999J	20874 pt.	20874 pt.
			3119424111	2087111	2087111	311999J111	2087435	2087435
3119201	20951	20951	3119424121	2087115	2087115	311999J121	2087437	2087437
3119201111	2095111	2095111	3119424131	2087153	2087153	311999JYVW	2087400 pt.	2087400 pt.
3119201211	2095115	2095115	3119424141	2095231	2095200 pt.			
3119201331	2095121	2095121	3119424YVW pt.	2087100	2087100	311999M pt.	20324 pt.	20324 pt.
3119201YVW	2095100	2095100	3119424YVW pt.	2095200 pt.	2095200 pt.	311999M pt.	2099G pt.	2099G pt.
3119204 pt.	20432 pt.	20432 pt.				311999M101	2032495	2032499 pt.
			3119427	2099B pt.	2099B pt.	311999M111	2099G11	2099G11
3119204 pt.	20952 pt.	20952 pt.	3119427111	2099B01	2099B01	311999M121	2099G25	2099G25
3119204111	2095211	2095200 pt.	3119427121	2099B03	2099B03	311999M131	2099G41	2099G41
3119204121	2043211	2043209 pt.	3119427131	2099B07	2099B07	311999M141	2099G51	2099G51
3119204YVW pt.	2043200 pt.	2043200 pt.	3119427251	2099B09	2099B09	311999M151	2099G85	2099G85
3119204YVW pt.	2095200 pt.	2095200 pt.	3119427261	2099B09	2099B09	311999M161	2099G91	2099G91
			3119427YVW	2099B00 pt.	2099B00 pt.	311999M171	2099G98	2099G98 pt.
3119207	2099D	2099D				311999MYVW pt.	2032400 pt.	2032400 pt.
3119207111	2099D82	2099D82	311942W pt.	20870 pt.	20870 pt.	311999MYVW pt.	2099G00 pt.	2099G00 pt.
3119207221	2099D83	2099D83	311942W pt.	20950 pt.	20950 pt.			
3119207231	2099D86	2099D86	311942W pt.	20990 pt.	20990 pt.	311999W pt.	20150 pt.	20150 pt.
3119207YVW	2099D00	2099D00				311999W pt.	20320 pt.	20320 pt.
311920W pt.	20430 pt.	20430 pt.				311999W pt.	20870 pt.	20870 pt.
311920W pt.	20950 pt.	20950 pt.						
			311942WYVW pt.	28990 pt.	28990 pt.	311999WYVW pt.	2015000 pt.	2015000 pt.
311920W pt.	20990 pt.	20990 pt.	311942WYVW pt.	2087000 pt.	2087000 pt.	311999WYVW pt.	2032000 pt.	2032000 pt.
311920WYVW pt.	2043000 pt.	2043000 pt.	311942WYVW pt.	2095000 pt.	2095000 pt.	311999WYVW pt.	2087000 pt.	2087000 pt.
311920WYVW pt.	2095000 pt.	2095000 pt.	311942WYVW pt.	2099000 pt.	2099000 pt.	311999WYVW pt.	2099000 pt.	2099000 pt.
311920WYVW pt.	2099000 pt.	2099000 pt.	311942WYVW pt.	2899000 pt.	2899000 pt.	311999WYVW pt.	2015002 pt.	2015002 pt.
311920WYVW pt.	2043002 pt.	2043002 pt.	311942WYVW pt.	2087002 pt.	2087002 pt.	311999WYVW pt.	2032002 pt.	2032002 pt.
311920WYVW pt.	2095002 pt.	2095002 pt.	311942WYVW pt.	2095002 pt.	2095002 pt.	311999WYVW pt.	2087002 pt.	2087002 pt.
311920WYVW pt.	2099002 pt.	2099002 pt.	311942WYVW pt.	2899002 pt.	2899002 pt.	311999WYVW pt.	2099002 pt.	2099002 pt.

