Fruit and Vegetable Canning

1997

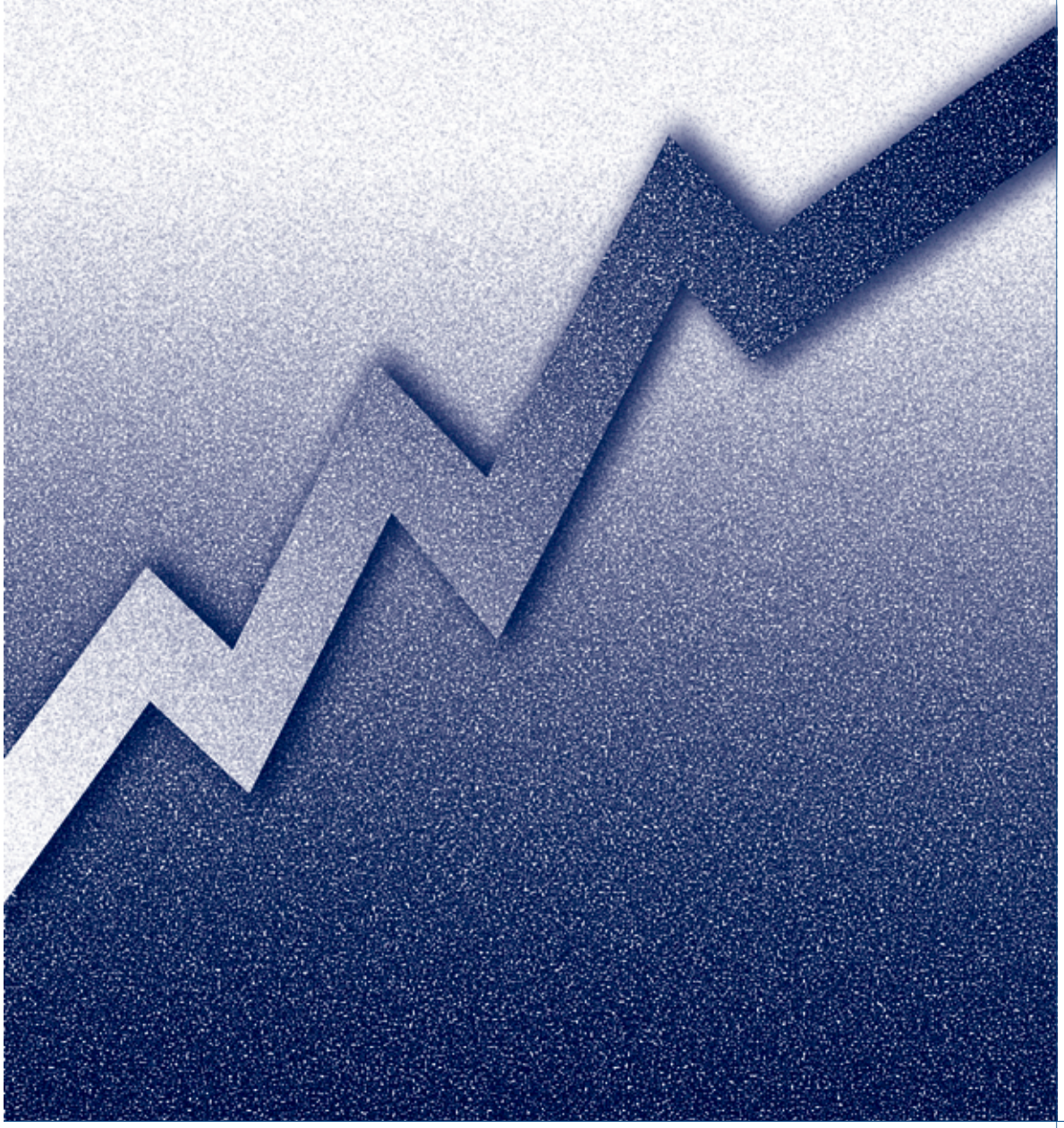
Issued January 2000

EC97M-3114C(RV)

1997 Economic Census

Manufacturing

Industry Series



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CONTENTS

-- Not applicable for this report.

Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

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

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) 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.

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/econguide. 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.

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

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	Companies[1]	All establishments[2]	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)				
311421	**Fruit & vegetable canning**	**663**	**824**	**64 016**	**1 726 293**	**52 884**	**106 367**	**1 241 683**	**7 017 553**	**8 977 673**	**15 978 798**	**534 195**
203300	Canned fruits & vegetables	N	695	56 081	1 537 288	46 463	93 168	1 111 516	6 274 463	8 248 019	14 508 303	469 010
203510	Pickles, sauces, & salad dressings (pt)	N	129	7 935	189 005	6 421	13 199	130 167	743 090	729 654	1 470 495	65 185

[1]For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.
[2]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[1]	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)				
311421, FRUIT & VEGETABLE CANNING												
United States	**1**	**824**	**418**	**64 016**	**1 726 293**	**52 884**	**106 367**	**1 241 683**	**7 017 553**	**8 977 673**	**15 978 798**	**534 195**
California	1	142	95	17 278	516 295	15 014	30 421	407 184	2 111 387	2 528 274	4 638 512	137 339
Florida	–	39	17	5 336	178 218	3 691	6 083	94 567	552 837	1 314 344	1 866 048	126 472
Hawaii *	1	15	2	768	18 420	710	1 175	15 530	37 882	59 443	97 300	2 743
Illinois	1	31	17	2 086	59 669	1 751	4 329	41 417	229 220	226 931	457 256	12 739
Michigan	2	37	20	3 452	74 443	2 977	5 756	56 771	302 907	352 023	655 510	35 899
Minnesota	1	19	12	2 139	46 922	1 985	4 290	40 207	140 112	217 130	356 440	8 090
New Jersey	1	17	11	1 391	48 872	952	2 032	28 747	208 195	237 383	444 085	12 409
New Mexico	–	8	3	752	10 044	548	800	7 119	22 459	24 895	47 365	1 380
New York	2	57	31	3 863	108 715	2 846	6 096	68 338	562 358	749 927	1 313 693	31 398
Oregon	3	34	15	1 725	42 364	1 509	2 657	28 438	139 265	152 234	287 547	9 113
Pennsylvania	1	28	14	2 289	61 349	1 859	3 795	41 186	207 937	313 005	529 670	11 673
Washington	–	35	19	3 183	76 495	2 833	5 413	55 721	236 422	399 806	635 258	15 659
Wisconsin	2	59	45	4 767	117 060	4 128	8 907	91 616	414 794	489 120	905 192	28 953

* 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.

[1]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
311421, FRUIT & VEGETABLE CANNING	
Companies[1] ..... number..	663
All establishments ..... number..	824
Establishments with 1 to 19 employees ..... number..	406
Establishments with 20 to 99 employees ..... number..	229
Establishments with 100 employees or more ..... number..	189
All employees ..... number..	64 016
Total compensation[2] ..... $1,000..	2 304 084
Annual payroll ..... $1,000..	1 726 293
Total fringe benefits ..... $1,000..	577 791
Production workers, average for year ..... number..	52 884
Production workers on March 12 ..... number..	37 863
Production workers on May 12 ..... number..	42 278
Production workers on August 12 ..... number..	86 066
Production workers on November 12 ..... number..	45 329
Production-worker hours ..... 1,000..	106 367
Production-worker wages ..... $1,000..	1 241 683
Total cost of materials ..... $1,000..	8 977 673
Cost of materials, parts, containers, etc., consumed ..... $1,000..	8 481 251
Cost of resales ..... $1,000..	181 768
Cost of fuels ..... $1,000..	132 957
Cost of purchased electricity ..... $1,000..	122 914
Cost of contract work ..... $1,000..	58 783
Quantity of electricity purchased for heat and power ..... 1,000 kWh..	2 001 492
Quantity of electricity generated less sold for heat and power ... 1,000 kWh..	D
Total value of shipments ..... $1,000..	15 978 798
Primary products value of shipments ..... $1,000..	14 321 378
Secondary products value of shipments ..... $1,000..	1 260 244
Total miscellaneous receipts ..... $1,000..	397 176
Value of resales ..... $1,000..	212 813
Contract receipts ..... $1,000..	171 956
Other miscellaneous receipts ..... $1,000..	12 407
Primary products specialization ratio ..... percent..	91
Value of primary products shipments made in all industries ..... $1,000..	16 924 097
Value of primary products shipments made in this industry ..... $1,000..	14 321 378
Value of primary products shipments made in other industries ..... $1,000..	2 602 719
Coverage ratio ..... percent..	84

Item	Value
311421, FRUIT & VEGETABLE CANNING—Con.	
Value added ..... $1,000..	7 017 553
Total inventories, beginning of year ..... $1,000..	3 965 868
Finished goods inventories, beginning of year ..... $1,000..	2 866 853
Work-in-process inventories, beginning of year ..... $1,000..	466 729
Materials and supplies inventories, beginning of year ..... $1,000..	632 286
Total inventories, end of year ..... $1,000..	3 947 290
Finished goods inventories, end of year ..... $1,000..	2 780 253
Work-in-process inventories, end of year ..... $1,000..	483 157
Materials and supplies inventories, end of year ..... $1,000..	683 880
Gross book value of total assets at beginning of year ..... $1,000..	5 113 600
Total capital expenditures (new and used) ..... $1,000..	534 195
Capital expenditures for buildings and other structures (new and used) ..... $1,000..	86 348
Capital expenditures for machinery and equipment (new and used) ..... $1,000..	447 847
Total retirements[2] ..... $1,000..	125 183
Gross book value of total assets at end of year ..... $1,000..	5 522 612
Total depreciation during year[2] ..... $1,000..	343 175
Total rental payments[2] ..... $1,000..	157 925
Buildings and other structures rental payments[2] ..... $1,000..	58 742
Machinery and equipment rental payments[2] ..... $1,000..	99 183
Cost of purchased services for the repair of buildings and other structures[3] ..... $1,000..	23 734
Response coverage ratio[4] ..... percent..	76
Cost of purchased services for the repair of machinery and equipment[3] ..... $1,000..	126 958
Response coverage ratio[4] ..... percent..	76
Cost of purchased communications services[3] ..... $1,000..	10 230
Response coverage ratio[4] ..... percent..	76
Cost of purchased legal services[3] ..... $1,000..	5 674
Response coverage ratio[4] ..... percent..	76
Cost of purchased accounting and bookkeeping services[3] ..... $1,000..	7 648
Response coverage ratio[4] ..... percent..	76
Cost of purchased advertising services[3] ..... $1,000..	22 152
Response coverage ratio[4] ..... percent..	76
Cost of purchased software and other data processing services[3] ..... $1,000..	2 977
Response coverage ratio[4] ..... percent..	76
Cost of purchased refuse removal (including hazardous waste) services[3] ..... $1,000..	19 199
Response coverage ratio[4] ..... percent..	76

[1]For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.
[2]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.
[3]Based on ASM sample data.
[4]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[1]	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)				
311421, FRUIT & VEGETABLE CANNING												
All establishments	**1**	**824**	**418**	**64 016**	**1 726 293**	**52 884**	**106 367**	**1 241 683**	**7 017 553**	**8 977 673**	**15 978 798**	**534 195**
Establishments with 1 to 4 employees	7	213	–	359	6 939	336	644	5 553	32 331	43 935	76 320	2 297
Establishments with 5 to 9 employees	8	94	–	630	12 474	513	737	9 519	42 673	61 535	104 277	2 530
Establishments with 10 to 19 employees	4	99	–	1 391	33 560	1 103	1 823	21 574	152 522	210 074	363 510	7 546
Establishments with 20 to 49 employees	3	120	120	3 881	105 718	3 011	6 069	69 223	329 584	489 919	842 007	22 434
Establishments with 50 to 99 employees	2	109	109	7 845	200 342	6 310	13 210	136 698	755 468	1 084 077	1 842 025	64 560
Establishments with 100 to 249 employees	2	117	117	18 496	469 487	15 187	31 705	330 788	1 937 918	2 340 502	4 281 472	155 149
Establishments with 250 to 499 employees	1	55	55	18 638	515 253	16 015	32 277	404 369	2 417 274	2 575 795	4 949 851	144 865
Establishments with 500 to 999 employees	–	15	15	D	D	D	D	D	D	D	D	D
Establishments with 1,000 to 2,499 employees	–	2	2	D	D	D	D	D	D	D	D	D
Establishments with 2,500 employees or more	–	–	–	–	–	–	–	–	–	–	–	–
Administrative records[2]	9	313	–	1 848	33 313	1 615	2 226	26 371	123 527	175 278	299 057	7 495

[1]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.

[2]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)				
311421	**Fruit & vegetable canning**	**824**	**64 016**	**1 726 293**	**52 884**	**106 367**	**1 241 683**	**7 017 553**	**8 977 673**	**15 978 798**	**534 195**
3114211	Canned fruits, except baby foods	51	11 576	315 715	10 419	20 847	256 861	1 258 542	1 420 155	2 664 142	51 826
3114214	Canned vegetables, except hominy and mushrooms	121	14 326	312 297	12 444	25 714	244 376	1 146 432	1 345 856	2 494 555	66 989
3114217	Canned hominy and mushrooms	10	631	19 242	472	897	12 033	42 086	78 842	120 936	2 590
311421A	Canned vegetable juices	4	132	3 887	118	377	3 104	9 602	7 555	17 510	D
311421D	Catsup and other canned tomato sauces, pastes, etc.	76	10 802	337 120	9 000	18 358	249 933	1 898 134	1 987 793	3 858 969	114 165
311421G	Canned jams, jellies, and preserves	41	3 834	119 512	2 963	6 181	79 536	526 277	597 611	1 129 202	22 885
311421J	Canned fruit juices, nectars, and concentrates	55	9 076	291 580	6 537	12 602	177 665	819 567	2 036 471	2 862 167	162 670
311421M	Fresh fruit juices and nectars, single strength	30	2 946	80 173	2 124	4 223	42 818	424 676	491 242	929 356	36 940
311421P	Pickles and other pickled products	64	7 075	169 673	5 679	12 039	114 684	669 738	645 451	1 312 950	61 890

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)
311421	**Canned fruits and vegetables**	**N**	**X**	**X**	**16 924 097**	**N**	**X**	**X**	**N**
3114211	Canned fruits, except baby foods	N	X	X	2 287 979	N	X	X	2 371 854
31142111	Canned fruits	N	X	X	2 287 782	N	X	X	N
3114211111	Canned apples 1,000 cases (24/2 1/2 s)	11	X	5 403.7	84 027	14	X	p5 311.3	75 244
3114211121	Canned applesauce 1,000 cases (24/2 1/2 s)	13	X	27 334.0	370 428	16	X	25 711.9	351 789
3114211131	Canned apricots 1,000 cases (24/2 1/2 s)	6	X	1 919.5	50 739	7	X	2 089.3	47 435
3114211141	Canned cherries, red pitted 1,000 cases (24/2 1/2 s)	8	X	1 343.9	20 262	9	X	623.3	12 424
3114211151	Canned cherries, sweet 1,000 cases (24/2 1/2 s)	8	X	1 061.1	21 231	10	X	1 051.3	19 243
3114211161	Canned cranberries and cranberry sauce 1,000 cases (24/2 1/2 s)	3	X	2 644.2	52 521	3	X	D	D
3114211171	Canned fruit cocktail 1,000 cases (24/2 1/2 s)	3	X	10 727.1	268 957	5	X	15 991.9	282 750
3114211181	Canned fruits for salads (including mixed fruits other than fruit cocktail) 1,000 cases (24/2 1/2 s)	6	X	3 055.9	77 861	5	X	4 793.7	99 481
3114211191	Canned olives, ripe and green ripe (including stuffed) (drained net weight) 1,000 cases (24/2 1/2 s)	9	X	15 691.8	379 395	10	X	11 234.2	283 517
31142111A1	Canned peaches, including spiced 1,000 cases (24/2 1/2 s)	8	X	28 346.8	458 173	14	X	30 497.5	502 908
31142111B1	Canned pears, including spiced 1,000 cases (24/2 1/2 s)	7	X	13 342.1	196 709	8	X	13 687.9	205 490
31142111C1	Canned pineapple (all styles) 1,000 cases (24/2 1/2 s)	2	X	D	D	5	X	8 580.9	151 755
31142111D1	Other canned fruits 1,000 cases (24/2 1/2 s)	19	X	D	D	19	X	D	D
31142111E1	Canned apple pie mixes 1,000 cases (24/2 1/2 s)	8	X	1 842.1	36 589	10	X	1 363.8	27 376
31142111F1	Canned cherry pie mixes 1,000 cases (24/2 1/2 s)	7	X	3 378.6	67 006	9	X	3 178.2	68 818
31142111G1	Canned peach pie mixes 1,000 cases (24/2 1/2 s)	4	X	428.5	10 584	6	X	351.6	8 332
31142111H1	Other canned fruit pie mixes 1,000 cases (24/2 1/2 s)	12	X	2 432.0	68 277	13	X	1 633.2	48 174
3114211Y	Canned fruits, except baby foods, nsk	N	X	X	197	N	X	X	N
3114211YWV	Canned fruits, except baby foods, nsk	N	X	X	197	N	X	X	12 762
3114214	Canned vegetables, except hominy and mushrooms	N	X	X	2 723 079	N	X	X	2 694 390
31142141	Canned vegetables	N	X	X	2 717 107	N	X	X	N
3114214111	Canned green lima beans 1,000 cases (24/303 s)	7	X	2 604.1	23 843	9	X	2 549.2	22 015
3114214121	Canned green and wax beans (including blue lake) 1,000 cases (24/303 s)	19	X	55 019.6	412 657	25	X	55 141.1	431 677
3114214131	Canned carrots 1,000 cases (24/303 s)	11	X	6 103.1	45 632	13	X	5 540.7	41 534
3114214141	Canned vegetable combinations (mixed vegetables, succotash, carrots and peas, vegetable salad, etc.) 1,000 cases (24/303 s)	12	X	12 864.7	123 465	19	X	11 947.6	119 085
3114214151	Canned green peas 1,000 cases (24/303 s)	14	X	23 635.6	205 158	19	X	29 448.4	254 580
3114214161	Other canned peas (blackeye, crowder, purple hull, field, etc.) 1,000 cases (24/303 s)	6	X	2 391.2	23 688	6	X	2 315.2	20 788
3114214171	Canned pumpkin and squash, including pie mix 1,000 cases (24/303 s)	5	X	2 962.7	41 879	8	X	D	D
3114214181	Canned spinach 1,000 cases (24/303 s)	5	X	6 313.1	53 981	6	X	6 089.2	50 537
3114214191	Canned sweet potatoes, including pie mix 1,000 cases (24/303 s)	3	X	6 650.5	91 814	6	X	p8 296.8	87 548
31142141A1	Canned white potatoes 1,000 cases (24/303 s)	11	X	6 787.2	49 457	13	X	6 487.6	48 752
31142141B1	Canned sauerkraut 1,000 cases (24/303 s)	7	X	9 267.6	70 814	10	X	6 378.5	46 950
31142141C1	Canned asparagus 1,000 cases (24/303 s)	8	X	4 344.6	82 210	15	X	4 532.7	86 768
31142141D1	Canned beets 1,000 cases (24/303 s)	5	X	9 203.9	65 469	9	X	9 442.8	68 747
31142141E1	Canned sweet corn, whole kernel 1,000 cases (24/303 s)	13	X	58 432.4	433 785	17	X	68 459.1	515 134
31142141F1	Canned sweet corn, cream style 1,000 cases (24/303 s)	12	X	20 561.6	157 241	13	X	14 851.2	116 643
31142141G1	Canned tomatoes (including stewed) 1,000 cases (24/303 s)	28	X	67 645.5	620 409	37	X	58 361.4	538 637
31142141H1	Other canned vegetables 1,000 cases (24/303 s)	29	X	14 802.5	215 605	24	X	D	D
3114214Y	Canned vegetables, except hominy and mushrooms, nsk	N	X	X	5 972	N	X	X	N
3114214YWV	Canned vegetables, except hominy and mushrooms, nsk	N	X	X	5 972	N	X	X	8 461

See footnotes at end of table.

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

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For 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)
311421	**Canned fruits and vegetables**—Con.								
3114217	Canned hominy and mushrooms	N	X	X	148 602	N	X	X	202 040
31142171	Canned hominy and mushrooms	N	X	X	148 598	N	X	X	N
3114217111	Canned hominy, 1,000 cases (24/303 s)	8	X	3 940.6	29 778	8	X	4 057.2	26 531
3114217121	Canned mushrooms, 1,000 cases (24/303 s)	13	X	4 179.9	118 820	14	X	5 452.2	175 509
3114217Y	Canned hominy and mushrooms, nsk	N	X	X	4	N	X	X	N
3114217YWV	Canned hominy and mushrooms, nsk	N	X	X	4	N	X	X	–
311421A	Canned vegetable juices	N	X	X	442 438	N	X	X	409 389
311421A1	Canned vegetable juices	N	X	X	441 873	N	X	X	N
311421A111	Canned tomato juice (including combinations containing 70 percent or more tomato juice), mil gal	21	X	130.5	399 995	21	X	125.1	391 322
311421A121	Other canned vegetable juices, mil gal	7	X	P12.3	41 878	7	X	5.2	17 783
311421AY	Canned vegetable juices, nsk	N	X	X	565	N	X	X	N
311421AYWV	Canned vegetable juices, nsk	N	X	X	565	N	X	X	284
311421D	Catsup and other canned tomato sauces, pastes, etc.	N	X	X	4 234 497	N	X	X	3 671 644
311421D1	Canned spaghetti, pizza, and marinara sauces	N	X	X	1 457 080	N	X	X	N
311421D111	Canned spaghetti, pizza, and marinara sauces, with or without other added ingredients, except salsa, including those with less than 20 percent meat, 1,000 cases (12/12 glass)	33	X	170 133.2	1 457 080	N	X	X	N
311421D2	Canned tomato, catsup, chili, and barbecue sauces, tomato paste, and tomato pulp and puree	N	X	X	2 433 140	N	X	X	N
311421D221	Canned tomato sauce, except pulp, puree, and paste, 7.1 oz to 10 oz (8 oz tall, etc.), 1,000 cases of 72	16	X	13 872.5	159 494	15	X	11 761.5	154 039
311421D231	Canned tomato sauce, except pulp, puree, and paste, other sizes, 1,000 cases (12/12 glass)	21	X	68 441.9	253 974	22	X	61 227.9	226 043
311421D241	Canned catsup, 14 oz to 32 oz, 1,000 cases of 24	15	X	29 721.7	437 941	14	X	31 826.8	485 318
311421D251	Canned catsup, all other sizes (including individual serving sizes), 1,000 cases (12/12 glass)	20	X	65 687.4	610 373	22	X	P48 380.6	462 244
311421D261	Canned chili sauce, 1,000 cases (12/12 glass)	15	X	14 304.4	106 300	16	X	10 533.0	78 861
311421D271	Canned barbecue sauce, 1,000 cases (12/12 glass)	26	X	24 297.5	191 154	24	X	27 398.1	264 026
311421D281	Canned tomato paste, mil lb	23	X	23 216.5	587 530	21	X	22 123.8	575 654
311421D291	Canned tomato pulp and puree, 1,000 cases (24/303 s)	10	X	12 351.1	86 374	18	X	10 732.5	85 357
311421D3	Canned salsa	N	X	X	319 868	N	X	X	N
311421D3A1	Canned salsa, 16 oz, 1,000 cases of 24	31	X	11 264.6	192 198	N	X	X	N
311421D3B1	Canned salsa, 7 oz to 12 oz, 1,000 cases of 24	17	X	3 566.1	45 793	N	X	X	N
311421D3C1	Canned salsa, other sizes, 1,000 cases (12/12 glass)	27	X	5 377.7	81 877	N	X	X	N
311421DY	Catsup and other tomato sauces, pastes, etc., nsk	N	X	X	24 409	N	X	X	N
311421DYWV	Catsup and other tomato sauces, pastes, etc., nsk	N	X	X	24 409	N	X	X	24 757
311421G	Canned jams, jellies, and preserves	N	X	X	1 007 148	N	X	X	922 315
311421G1	Canned jams, jellies, and preserves	N	X	X	974 222	N	X	X	N
311421G111	Canned strawberry jams and preserves, pure, mil lb	23	X	343.2	263 390	26	X	314.1	251 737
311421G121	Canned raspberry jams and preserves, pure, mil lb	17	X	211.8	151 590	14	X	217.2	156 137
311421G131	Other canned jams and preserves, pure, mil lb	29	X	144.1	96 676	N	X	X	N
311421G141	Canned grape jelly, pure, mil lb	18	X	236.8	158 247	21	X	225.0	153 745
311421G151	Other canned jellies, pure, mil lb	23	X	141.9	109 295	26	X	Q129.3	100 807
311421G161	Fruit spread, mil lb	9	X	P16.0	17 556	N	X	X	N
311421G171	Canned imitation jellies, jams, and preserves, mil lb	7	X	58.2	46 588	6	X	56.2	43 609
311421G181	Canned marmalades, mil lb	10	X	26.7	23 551	8	X	P24.3	21 685
311421G191	Canned fruit butter, mil lb	15	X	S	46 812	10	X	P56.1	57 350
311421G1A1	Canned maraschino cherries (excluding glace and candied), mil gal	7	X	10.6	60 517	8	X	9.7	58 441
311421GY	Jams, jellies, and preserves, nsk	N	X	X	32 926	N	X	X	N
311421GYWV	Jams, jellies, and preserves, nsk	N	X	X	32 926	N	X	X	32 656

See footnotes at end of table.

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

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For 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)
311421	**Canned fruits and vegetables**—Con.								
311421J	Canned fruit juices, nectars, and concentrates	N	X	X	2 915 653	N	X	X	3 319 661
311421J1	Canned orange juice, single strength	N	X	X	1 433 361	N	X	X	N
311421J111	Canned orange juice, single strength mil gal	36	X	494.1	1 433 361	43	X	624.6	1 815 013
311421J2	Canned fruit juices except orange	N	X	X	1 458 638	N	X	X	N
311421J221	Canned apple juice, single strength mil gal	34	X	235.8	491 595	43	X	232.1	486 584
311421J231	Canned grapefruit juice, single strength mil gal	20	X	p61.3	188 923	26	X	54.7	181 956
311421J241	Canned prune juice, single strength mil gal	8	X	D	D	13	X	p13.0	45 168
311421J251	Other canned whole fruit juices and mixtures of whole fruit juices mil gal	33	X	146.5	495 555	38	X	176.2	510 196
311421J261	Canned nectars, single strength mil gal	3	X	D	D	4	X	p2.5	7 718
311421J271	Fruit juices, concentrated, hot pack mil gal sngl st equiv	18	X	p58.7	191 130	17	X	57.2	210 076
311421JY	Canned fruit juices, nectars, and concentrates, nsk	N	X	X	23 654	N	X	X	N
311421JYWV	Canned fruit juices, nectars, and concentrates, nsk	N	X	X	23 654	N	X	X	62 950
311421M	Fresh fruit juices and nectars, single strength	N	X	X	1 426 476	N	X	X	1 227 963
311421M1	Fresh fruit juices and nectars, single strength	N	X	X	1 408 737	N	X	X	N
311421M111	Fresh orange juices and nectars, single strength mil gal	111	X	p342.9	717 832	136	X	251.0	540 292
311421M121	Other fresh juices amd nectars, single strength mil gal	60	X	160.5	406 410	70	X	p167.4	436 443
311421M131	Concentrated fruit juice (except for fountain use) mil gal sngl st equiv	16	X	103.4	284 495	16	X	p83.6	236 206
311421MY	Fresh fruit juices and nectars, single strength, nsk	N	X	X	17 739	N	X	X	N
311421MYWV	Fresh fruit juices and nectars, single strength, nsk	N	X	X	17 739	N	X	X	15 022
311421P	Pickles and other pickled products	N	X	X	1 232 949	N	X	X	1 206 939
311421P1	Pickles and other pickled products	N	X	X	1 231 331	N	X	X	N
311421P111	Finished dill cucumber pickles mil gal	20	X	131.3	501 433	21	X	139.2	502 234
311421P121	Finished sour cucumber pickles mil gal	5	X	D	D	7	X	9.8	38 540
311421P131	Finished sweet cucumber pickles mil gal	14	X	122.1	197 155	17	X	117.3	193 589
311421P141	Refrigerated finished cucumber pickles, including overnight, half sour, artificially acidified, etc. mil gal	16	X	44.7	152 248	17	X	24.5	85 515
311421P151	Other finished pickles and pickled products (mushrooms, peppers, onions, etc.) mil gal	20	X	20.5	86 040	14	X	43.2	162 559
311421P161	Finished horseradish (excluding sauce) mil gal	11	X	3.8	24 052	10	X	p2.8	19 542
311421P171	Finished relishes mil gal	20	X	33.4	134 309	20	X	p30.3	97 555
311421P181	Finished sauerkraut mil gal	7	X	9.5	20 492	7	X	p4.0	8 472
311421P191	Other finished pickled products mil gal	14	X	23.2	51 270	10	X	16.1	37 065
311421P1A1	Unfinished pickles (salt stock) mil gal	7	X	22.7	20 644	7	X	p17.7	17 820
311421P1B1	Unfinished brined cherries mil gal	3	X	4.1	19 145	4	X	3.1	18 426
311421P1C1	Other bulk unfinished pickled products, such as mushrooms, sauerkraut, etc. mil gal	2	X	D	D	8	X	8.3	24 629
311421PY	Pickles and other pickled products, nsk	N	X	X	1 618	N	X	X	N
311421PYWV	Pickles and other pickled products, nsk	N	X	X	1 618	N	X	X	993
311421W	Fruit and vegetable canning, nsk, total	N	X	X	505 276	N	X	X	N
311421WY	Fruit and vegetable canning, nsk, for both nonadministrative-and administrative-record establishments	N	X	X	505 276	N	X	X	N
311421WYWW	Fruit and vegetable canning, nsk, for nonadministrative-record establishments	N	X	X	264 751	N	X	X	N
311421WYWY	Fruit and vegetable canning, nsk, for administrative-record establishments	N	X	X	240 525	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: p 10 to 19 percent estimated; q 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
3114211	**CANNED FRUITS, EXCEPT BABY FOODS**		
	United States	**2 287 979**	**2 371 854**
	California	1 292 079	1 227 513
	Illinois	30 604	N
	Michigan	149 779	166 088
	New York	179 930	155 697
	Washington	173 230	222 538
3114214	**CANNED VEGETABLES, EXCEPT HOMINY AND MUSHROOMS**		
	United States	**2 723 079**	**2 694 390**
	California	593 430	474 255
	Illinois	98 584	161 904
	Indiana	73 230	49 271
	Michigan	42 978	52 028
	Minnesota	274 993	355 693
	North Carolina	32 951	26 483
	Ohio	65 238	41 572
	Oregon	132 164	71 244
	Texas	36 238	N
	Washington	121 882	114 341
	Wisconsin	697 784	664 416
3114217	**CANNED HOMINY AND MUSHROOMS**		
	United States	**148 602**	**202 040**
	California	15 340	14 546
	Pennsylvania	88 552	125 079
311421A	**CANNED VEGETABLE JUICES**		
	United States	**442 438**	**409 389**
	California	126 797	100 719
	Indiana	29 050	20 706
311421D	**CATSUP AND OTHER CANNED TOMATO SAUCES, PASTES, ETC.**		
	United States	**4 234 497**	**3 671 644**
	California	1 868 702	1 575 450
	Indiana	248 006	118 481
	Missouri	40 447	N
	New Jersey	201 014	123 758
	New York	112 673	391 536
	Ohio	702 462	635 562
	Pennsylvania	109 302	103 579
	Texas	279 737	113 520
	Wisconsin	27 810	48 219
311421G	**CANNED JAMS, JELLIES, AND PRESERVES**		
	United States	**1 007 148**	**922 315**
	California	184 445	205 053
	Illinois	17 367	12 145
	Indiana	4 701	N
	Kentucky	25 632	20 290
	Michigan	70 879	N
	New York	148 922	131 633
	Ohio	224 735	N
	Oregon	19 720	N
	Pennsylvania	108 886	52 645
311421J	**CANNED FRUIT JUICES, NECTARS, AND CONCENTRATES**		
	United States	**2 915 653**	**3 319 661**
	California	296 526	265 857
	Florida	1 414 387	1 543 602
	Michigan	57 689	223 764
	New Jersey	142 994	191 333
	New York	240 381	206 905
	Ohio	25 801	22 506
	Pennsylvania	161 351	200 387
	Texas	88 224	125 176
	Virginia	36 061	N
	Washington	244 710	77 091
	Wisconsin	26 526	24 794
311421M	**FRESH FRUIT JUICES AND NECTARS, SINGLE STRENGTH**		
	United States	**1 426 476**	**1 227 963**
	Alabama	23 742	16 332
	California	231 038	190 353
	Colorado	6 060	7 253
	Connecticut	10 797	16 524
	Florida	432 847	193 130
	Hawaii	14 892	N
	Indiana	13 419	N
	Iowa	8 587	N
	Kentucky	20 160	24 624
	Louisiana	10 659	8 798

See footnotes at end of table.

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

[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
311421M	**FRESH FRUIT JUICES AND NECTARS, SINGLE STRENGTH**—Con.		
	Massachusetts	53 099	34 270
	Michigan	32 211	85 309
	New Jersey	33 707	14 326
	New York	221 483	169 665
	North Carolina	10 794	14 081
	Ohio	25 192	26 603
	Pennsylvania	33 526	57 524
	Tennessee	25 712	31 437
	Texas	28 271	45 350
	Virginia	8 648	9 190
	Washington	57 888	120 869
311421P	**PICKLES AND OTHER PICKLED PRODUCTS**		
	United States	**1 232 949**	**1 206 939**
	California	65 755	179 641
	Michigan	316 578	290 716
	New York	29 041	35 538
	Ohio	9 845	N
	Texas	32 240	7 868
	Wisconsin	72 572	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)
311421	**FRUIT & VEGETABLE CANNING**				
11131000	Fresh oranges, 1,000 s tons	3 270.5	603 735	1 635.0	282 658
11133100	Fresh apples, 1,000 s tons	p1 513.4	249 173	1 194.8	176 452
11133901	Fresh apricots, 1,000 s tons	q79.3	25 516	46.5	12 685
11133200	Fresh grapes, 1,000 s tons	375.6	81 232	511.1	93 705
11133903	Fresh peaches, 1,000 s tons	599.9	143 777	559.9	132 101
11133905	Fresh pears, 1,000 s tons	466.4	102 158	428.2	95 660
11133907	Fresh pineapples, 1,000 s tons	D	D	351.0	57 560
11132000	Fresh grapefruit, 1,000 s tons	343.1	61 220	D	D
11130003	Other fresh fruits, 1,000 s tons	391.2	220 120	385.7	186 868
11121901	Fresh green peas, 1,000 s tons	242.7	62 794	303.4	79 887
11121100	White potatoes, 1,000 s tons	163.3	19 293	118.7	14 689
11100001	Other fresh vegetables, 1,000 s tons	p684.4	139 908	N	N
11121907	Fresh tomatoes, 1,000 s tons	11 055.9	653 265	8 220.2	520 022
11121905	Fresh sweet corn, 1,000 s tons	1 953.9	137 443	1 864.7	142 954
11121903	Fresh green (snap) or wax beans, 1,000 s tons	p564.0	94 528	528.3	86 729
31131003	Sugar, cane and beet (in terms of sugar solids), 1,000 s tons	p167.5	76 148	N	N
31122103	High fructose corn syrup (HFCS)(in terms of solids), mil lb	891.0	125 628	870.7	119 550
31122117	Crystalline fructose (dry fructose), mil lb	83.7	12 370	77.5	11 750
31122119	Dextrose and corn syrup, including corn syrup solids (in terms of dry weight), mil lb	595.6	72 306	651.5	71 174
31161003	Fresh, frozen, and prepared meats, mil lb	S	33 858	1 157.3	33 658
31161500	Dressed poultry purchased for processing (cooking, smoking, canning, raw-boning, freezing, dehydrating), mil lb	D	D	D	D
31142311	Dried fruits and beans, 1,000 s tons	28.0	23 133	N	N
31142103	Concentrated fruit juices, mil gal	133.7	628 742	p140.6	635 126
31141105	Frozen fruits and vegetables (for further processing), mil lb	677.2	381 870	N	N
31142105	Tomato paste (24 percent NTSS equivalent), mil lb	720.7	241 026	567.6	229 154
31121101	Wheat flour, 1,000 cwt	968.7	1 513	D	D
31100019	Fats and oils, all types (purchased as such), mil lb	128.1	38 794	N	N
32310000	Printed labels	X	106 414	X	87 697
00190003	Flexible packaging materials	X	236 976	X	99 191
32221001	Paperboard containers, boxes, and corrugated paperboard	X	333 353	N	N
33243101	Metal cans, can lids and ends	X	1 192 885	X	1 221 148
32721301	Glass containers	X	556 986	N	N
11121909	Cucumbers, 1,000 s tons	751.6	223 078	N	N
001900A3	Bags; plastics, foil, and coated paper	X	11 604	N	N
00970099	All other materials and components, parts, containers, and supplies	X	1 153 052	X	N
00971000	Materials, ingredients, containers, and supplies, n.s.k.	X	398 257	X	N

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; q 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Appendix A. Explanation of Terms

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.

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.

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

311421 FRUIT AND VEGETABLE CANNING

This U.S. industry comprises establishments primarily engaged in manufacturing canned, pickled, and brined fruits and vegetables. Examples of products made in these establishments are canned juices; canned jams and jellies; canned tomato-based sauces, such as catsup, salsa, chili, spaghetti, barbeque, and tomato paste; pickles, relishes, and sauerkraut.

The data published with NAICS code 311421 include the following SIC industries:

2033 Canned fruits and vegetables
2035 Pickles, sauces, and salad dressings (pt)

Appendix C. Coverage and Methodology

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" (nsk) 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.

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

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

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

Not applicable for this report.

Appendix E.
Metropolitan Areas

Not applicable for this report.

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

Not applicable for this report.

Appendix G. Comparability of Product Classes and Product Codes: 1997 to 1992

1997 published	1997 collected	1992 published
3111111	20473	20473
3111111111	2047321	2047321
3111111121	2047323	2047323
3111111231	2047326	2047326
3111111341	2047338	2047338
3111111YWV	2047300	2047300
3111114	20474	20474
3111114111	2047441	2047441
3111114221	2047443	2047443
3111114231	2047445	2047445
3111114341	2047454	2047454
3111114351	2047457	2047457
3111114YWV	2047400	2047400
311111W	20470	20470
311111WYWW	2047000	2047000
311111WYWY	2047002	2047002
3111191	20481	20481
3111191111	2048111	2048111
3111191121	2048115	2048115
3111191231	2048116	2048116
3111191341	2048118	2048118
3111191351	2048121	2048121
3111191361	2048122	2048122
3111191371	2048123	2048123
3111191381	2048124	2048124
3111191391	2048131	2048131
31111913A1	2048132	2048132
31111913B1	2048133	2048133
31111913C1	2048134	2048134
3111191YWV	2048100	2048100
3111194	20482	20482
3111194100	2048200	2048200
3111197	20483	20483
3111197111	2048301	2048301
3111197121	2048302	2048302
3111197YWV	2048300	2048300
311119A	20484	20484
311119A100	2048400	2048400
311119D	20485	20485
311119D111	2048503	2048503
311119D121	2048504	2048504
311119DYWV	2048500	2048500
311119G	20486	20486
311119G100	2048600	2048600
311119J	20487	20487
311119J111	2048705	2048705
311119J121	2048706	2048706
311119JYWV	2048700	2048700
311119M	20488	20488
311119M111	2048811	2048811
311119M121	2048812	2048812
311119M131	2048813	2048813
311119M141	2048816	2048816
311119M151	2048821	2048821
311119M161	2048823	2048823
311119M171	2048825	2048825
311119M181	2048831	2048831
311119M191	2048833	2048833
311119MYWV	2048800	2048800
311119P	20489 pt	20489 pt
311119P111	2048911	2048911
311119P121	2048922	2048922
311119P131	2048935	2048935
311119P141	2048939	2048939
311119P151	2048943	2048941 pt
311119PYWV	2048900 pt	2048900 pt
311119T	2048A	2048A
311119T111	2048A01	2048A01
311119T121	2048A03	2048A03
311119T131	2048A05	2048A05
311119T141	2048A07	2048A07
311119T151	2048A09	2048A09
311119T161	2048A11	2048A11
311119T171	2048A12	2048A12
311119T181	2048A19	2048A19
311119TYWV	2048A00	2048A00
311119W	20480 pt	20480 pt
311119WYWW	2048000 pt	2048000 pt
311119WYWY	2048002 pt	2048002 pt
3112111	20411	20411
3112111111	2041105	2041105
3112111221	2041107	2041107
3112111331	2041111	2041111
3112111441	2041113	2041113
3112111551	2041115	2041115
3112111561	2041117	2041117
3112111671	2041121	2041121
3112111681	2041123	2041123
3112111791	2041126	2041126
31121117A1	2041129	2041129
31121117B1	2041128	2041128
31121118C1	2041131	2041131
31121118D1	2041151	2041151
31121118E1	2041161	2041161
31121118F1	2041198	2041198
3112111YWV	2041100	2041100
3112114	20412	20412
3112114111	2041213	2041213
3112114121	2041219	2041219
3112114YWV	2041200	2041200
3112117	20413	20413
3112117111	2041311	2041311
3112117121	2041315	2041315
3112117131	2041321	2041321
3112117141	2041323	2041323
3112117151	2041365	2041365
3112117161	2041393	2041393
3112117171	2041395	2041395
3112117181	2041397	2041397
3112117YWV	2041300	2041300
311211A	20415	20415
311211A111	2041511	2041511
311211A121	2041513	2041513
311211A131	2041515	2041515
311211A141	2041521	2041521
311211A151 pt	2041530 pt	2041517
311211A151 pt	2041530 pt	2041519
311211A151 pt	2041530 pt	2041525
311211A161 pt	2041590 pt	2041581
311211A161 pt	2041590 pt	2041585
311211A161 pt	2041590 pt	2041586
311211A161 pt	2041590 pt	2041588
311211A161 pt	2041590 pt	2041589
311211A171 pt	2041596 pt	2041591
311211A171 pt	2041596 pt	2041592
311211A171 pt	2041596 pt	2041595
311211AYWV	2041500	2041500
311211D pt	20343 pt	20343 pt
311211D pt	20416	20416
311211D111 pt	2034338	2034339 pt
311211D111 pt	2041613	2041613
311211D121	2041627	2041627
311211DYWV pt	2034300 pt	2034300 pt
311211DYWV pt	2041600	2041600
311211W pt	20340 pt	20340 pt
311211W pt	20410	20410
311211WYWW pt	2034000 pt	2034000 pt
311211WYWW pt	2041000	2041000
311211WYWY pt	2034002 pt	2034002 pt
311211WYWY pt	2041002	2041002
3112120	20440	20440
3112120111	2044011	2044011
3112120221	2044015	2044015
3112120331	2044017	2044017
3112120441	2044021	2044021
3112120451	2044035	2044035
3112120461	2044051	2044051
3112120471	2044098	2044098
3112120481	2044093	2044093
3112120YWW	2044000	2044000
3112120YWY	2044002	2044002
3112130	20830	20830
3112130100	2083000 pt	2083000 pt
3112130YWW	2083000 pt	2083000 pt
3112130YWY	2083002	2083002
3112211	20461	20461
3112211111	2046103	2046103
3112211121	2046104	2046104
3112211131 pt	2046114 pt	2046113
3112211131 pt	2046114 pt	2046116
3112211141	2046118	2046118
3112211251	2046123	2046123
3112211261	2046125	2046125
3112211371	2046129	2046129
3112211YWV	2046100	2046100
3112214	20462	20462
3112214111	2046211	2046211
3112214221	2046213	2046213
3112214331 pt	2046218 pt	2046215
3112214331 pt	2046218 pt	2046217
3112214YWV	2046200	2046200
3112217	20463	20463
3112217111	2046353	2046353
3112217121	2046354	2046354
3112217131	2046356	2046356
3112217141	2046359	2046359
3112217YWV	2046300	2046300
311221A	20464	20464
311221A111	2046462	2046462
311221A221	2046465	2046465
311221A231	2046472	2046472
311221A241	2046475	2046475
311221AYWV	2046400	2046400
311221W	20460	20460
311221WYWW	2046000	2046000
311221WYWY	2046002	2046002
3112221	20751	20751
3112221111	2075113	2075113
3112221221	2075115	2075115
3112221231	2075121	2075121
3112221241	2075131	2075131
3112221YWV	2075100	2075100
3112224	20752 pt	20752 pt
3112224111	2075211	2075211
3112224221	2075231	2075231
3112224231	2075251	2075251
3112224241	2075261	2075261
3112224261	2075297	2075297
3112224YWV	2075200 pt	2075200 pt
311222W	20750 pt	20750 pt
311222WYWW	2075000 pt	2075000 pt
311222WYWY	2075002 pt	2075002 pt
3112231	20741	20741
3112231100	2074100	2074100
3112234	20742	20742
3112234100	2074200	2074200
3112237	20743	20743
3112237100	2074300	2074300
311223A	20744 pt	20744 pt
311223A111	2074414	2074414
311223A221	2074451	2074451
311223A231	2074498	2074498
311223AYWV	2074400 pt	2074400 pt
311223D	20761	20761
311223D111	2076113	2076113
311223D121	2076133	2076133
311223DYWV	2076100	2076100
311223G	20762	20762
311223G111	2076223	2076223
311223G121	2076252	2076252
311223G131	2076257	2076257
311223G141	2076262	2076262
311223G151	2076263	2076263
311223G161	2076264	2076264
311223G171	2076265	2076265
311223G181	2076268	2076268
311223G191	2076273	2076273
311223GYWV	2076200	2076200
311223J	20763 pt	20763 pt
311223J111	2076311	2076311
311223J121	2076351	2076351
311223J131	2076361	2076361
311223J141	2076397	2076397
311223JYWV	2076300 pt	2076300 pt
311223W pt	20740 pt	20740 pt
311223W pt	20760 pt	20760 pt
311223WYWW pt	2074000 pt	2074000 pt
311223WYWW pt	2076000 pt	2076000 pt
311223WYWY pt	2074002 pt	2074002 pt
311223WYWY pt	2076002 pt	2076002 pt
3112251 pt	20744 pt	20744 pt
3112251 pt	20752 pt	20752 pt
3112251 pt	20763 pt	20763 pt
3112251 pt	20773 pt	20773 pt
3112251 pt	20791	20791
3112251111	2079113	2079113
3112251221	2079115	2079115
3112251331	2079142	2079142
3112251441	2079151	2079151
3112251551	2079152	2079152
3112251561	2079153	2079153
3112251571	2079154	2079154
3112251581	2079159	2079159

1997 published	1997 collected	1992 published
3112251591	2079171	2079171
31122515A1	2079183	2079183
31122515B1	2079185	2079185
31122515C1	2079198	2079198
31122515D1	2077313	2077311 pt
3112251701	2074499	2074499
3112251706	2075299	2075299
3112251711	2076391	2076391
3112251721	2076394	2076394
3112251731	2076395	2076395
3112251741	2076396	2076396
3112251751	2076398	2076398
3112251YWV pt	2074400 pt	2074400 pt
3112251YWV pt	2075200 pt	2075200 pt
3112251YWV pt	2076300 pt	2076300 pt
3112251YWV pt	2077300 pt	2077300 pt
3112251YWV pt	2079100	2079100
3112254	20792	20792
3112254100	2079200	2079200
311225W pt	20740 pt	20740 pt
311225W pt	20750 pt	20750 pt
311225W pt	20760 pt	20760 pt
311225W pt	20770 pt	20770 pt
311225W pt	20790	20790
311225WYWW pt	2074000 pt	2074000 pt
311225WYWW pt	2075000 pt	2075000 pt
311225WYWW pt	2076000 pt	2076000 pt
311225WYWW pt	2077000 pt	2077000 pt
311225WYWW pt	2079000	2079000
311225WYWY pt	2074002 pt	2074002 pt
311225WYWY pt	2075002 pt	2075002 pt
311225WYWY pt	2076002 pt	2076002 pt
311225WYWY pt	2077002 pt	2077002 pt
311225WYWY pt	2079002	2079002
3112301	20431	20431
3112301111	2043101	2043101
3112301121	2043103	2043103
3112301231	2043105	2043105
3112301241	2043107	2043107
3112301351	2043109	2043109
3112301361	2043111	2043111
3112301471	2043113	2043113
3112301481	2043116	2043116
3112301591	2043118	2043118
31123015A1	2043119	2043119
3112301YWV	2043100	2043100
3112304	20432 pt	20432 pt
3112304111	2043201	2043201
3112304121	2043203	2043203
3112304131	2043205	2043205
3112304141	2043207	2043207
3112304151	2043213	2043209 pt
3112304YWV	2043200 pt	2043200 pt
311230W	20430 pt	20430 pt
311230WYWW	2043000 pt	2043000 pt
311230WYWY	2043002 pt	2043002 pt
3113110	20610	20610
3113110111	2061011	2061011
3113110221	2061065	2061065
3113110231	2061085	2061085
3113110YWW	2061000	2061000
3113110YWY	2061002	2061002
3113120	20620	20620
3113120111	2062009	2062009
3113120221	2062012	2062012
3113120331	2062014	2062014
3113120441	2062015	2062015
3113120551	2062031	2062031
3113120561	2062035	2062035
3113120571	2062041	2062041
3113120581	2062045	2062045
3113120591	2062053	2062053
31131205A1	2062056	2062056
31131205B1	2062075	2062075
3113120YWW	2062000	2062000
3113120YWY	2062002	2062002
3113130	20630	20630
3113130111	2063009	2063009
3113130221	2063012	2063012
3113130331	2063013	2063013
3113130441	2063015	2063015
3113130551	2063033	2063033
3113130561	2063035	2063035
3113130671 pt	2063053 pt	2063051
3113130671 pt	2063053 pt	2063055
3113130781	2063076	2063076
3113130791	2063082	2063082
31131308A1	2063084	2063084
31131309B1	2063091	2063091
3113130YWW	2063000	2063000
3113130YWY	2063002	2063002
3113201	20661	20661
3113201111	2066122	2066122
3113201221	2066112	2066112
3113201231	2066132	2066132
3113201341	2066152	2066152
3113201YWV	2066100	2066100
3113204	20662	20662
3113204000	2066200	2066200
3113207	20669	20669
3113207111	2066921	2066921
3113207221	2066911	2066911
3113207231	2066971	2066971
3113207241	2066975	2066975
3113207251	2066963	2066963
3113207360	2066981	2066981
3113207371	2066992	2066992
3113207381	2066993	2066993
3113207391	2066995	2066995
3113207YWV	2066900	2066900
311320W	20660	20660
311320WYWW	2066000	2066000
311320WYWY	2066002	2066002
3113301	20642	20642
3113301000	2064200	2064200
3113302	54410 pt	54410 pt
3113302000	5441011	5441000 pt
311330W pt	20640 pt	20640 pt
311330W pt	54410 pt	54410 pt
311330WYWW pt	2064000 pt	2064000 pt
311330WYWW pt	5441000 pt	5441000 pt
311330WYWY pt	2064002 pt	2064002 pt
311330WYWY pt	5441002 pt	5441000 pt
3113401	20643	20643
3113401000	2064300	2064300
3113402	54410 pt	54410 pt
3113402000	5441015	5441000 pt
3113404	20648	20648
3113404110	2064811	2064811
3113404320	2064814	2064814
3113404530	2064815	2064815
3113404YWV	2064800	2064800
3113407 pt	20649	20649
3113407 pt	2099G pt	2099G pt
3113407221	2064976	2064976
3113407231	2099G95	2099G98 pt
3113407241	2064921	2064921
3113407YWV pt	2064900	2064900
3113407YWV pt	2099G00 pt	2099G00 pt
311340W pt	20640 pt	20640 pt
311340W pt	20990 pt	20990 pt
311340W pt	54410 pt	54410 pt
311340WYWW pt	2064000 pt	2064000 pt
311340WYWW pt	2099000 pt	2099000 pt
311340WYWW pt	5441000 pt	5441000 pt
311340WYWY pt	2064002 pt	2064002 pt
311340WYWY pt	2099002 pt	2099002 pt
311340WYWY pt	5441002 pt	5441000 pt
3114111	20371	20371
3114111111	2037135	2037135
3114111121	2037141	2037141
3114111131	2037155	2037155
3114111141	2037157	2037157
3114111151	2037161	2037161
3114111261	2037162	2037162
3114111371	2037165	2037165
3114111481	2037166	2037166
3114111491	2037168	2037168
31141115A1	2037169	2037169
31141116B1	2037170	2037170
31141116C1	2037172	2037172
31141116D1	2037174	2037174
31141116E1	2037180	2037180
31141116F1	2037183	2037183
31141116G1	2037185	2037185
31141116H1	2037186	2037186
31141116J1	2037187	2037187
31141116K1	2037194	2037194
31141116L1	2037197	2037197
3114111YWV	2037100	2037100
3114114	20372	20372
3114114111	2037211	2037211
3114114121	2037213	2037213
3114114131	2037221	2037221
3114114141	2037225	2037225
3114114151	2037231	2037231
3114114161	2037233	2037233
3114114171	2037235	2037235
3114114181	2037241	2037241
3114114191	2037242	2037242
31141142A1	2037245	2037245
31141143B1	2037248	2037248
31141144C1	2037249	2037249
31141145D1	2037253	2037253
31141145E1	2037255	2037255
31141146F1	2037261	2037261
31141146G1	2037263	2037263
31141146H1	2037269	2037269
3114114YWV	2037200	2037200
311411W	20370	20370
311411WYWW	2037000	2037000
311411WYWY	2037002	2037002
3114121	20382	20382
3114121111	2038211	2038211
3114121221	2038213	2038213
3114121331	2038215	2038215
3114121341	2038219	2038219
3114121451	2038221	2038221
3114121561	2038223	2038223
3114121671	2038240	2038240
3114121781	2038228	2038228
3114121791	2038231	2038231
31141217A1	2038235	2038235
31141217B1	2038237	2038237
31141217C1	2038238	2038238
31141217D1	2038239	2038239
31141217E1	2038247	2038247
31141217F1 pt	2038250 pt	2038243
31141217F1 pt	2038250 pt	2038245
31141217F1 pt	2038250 pt	2038249
3114121YWV	2038200	2038200
3114124	20384	20384
3114124111	2038451	2038451
3114124221	2038459	2038459
3114124331	2038463	2038463
3114124441	2038469	2038469
3114124YWV	2038400	2038400
311412W	20380	20380
311412WYWW	2038000	2038000
311412WYWY	2038002	2038002
3114211	20331	20331
3114211111	2033112	2033112
3114211121	2033113	2033113
3114211131	2033115	2033115
3114211141	2033122	2033122
3114211151	2033124	2033124
3114211161	2033128	2033128
3114211171	2033132	2033132
3114211181	2033134	2033134
3114211191	2033136	2033136
31142111A1	2033138	2033138
31142111B1	2033141	2033141
31142111C1	2033157	2033157
31142111D1	2033159	2033159
31142111E1	2033161	2033161
31142111F1	2033163	2033163
31142111G1	2033165	2033165
31142111H1	2033169	2033169
3114211YWV	2033100	2033100
3114214	20332	20332
3114214111	2033203	2033203
3114214121	2033205	2033205
3114214131	2033215	2033215
3114214141	2033235	2033235
3114214151	2033237	2033237
3114214161	2033239	2033239
3114214171	2033253	2033253
3114214181	2033255	2033255
3114214191	2033274	2033274
31142141A1	2033275	2033275
31142141B1	2033276	2033276
31142141C1	2033291	2033291
31142141D1	2033293	2033293
31142141E1	2033294	2033294
31142141F1	2033295	2033295
31142141G1	2033297	2033297
31142141H1	2033298	2033298
3114214YWV	2033200	2033200
3114217	20333	20333
3114217111	2033315	2033315
3114217121	2033321	2033321
3114217YWV	2033300	2033300
311421A	20335	20335
311421A111	2033515	2033515
311421A121	2033598	2033598
311421AYWV	2033500	2033500
311421D	20336	20336
311421D111	2033632	2033631 pt
311421D221	2033614	2033614
311421D231	2033615	2033615
311421D241	2033622	2033622
311421D251	2033623	2033623
311421D261	2033651	2033651
311421D271	2033655	2033655
311421D281	2033667	2033667
311421D291	2033691	2033691
311421D3A1	2033658	2033631 pt
311421D3B1	2033659	2033631 pt
311421D3C1	2033660	2033631 pt
311421DYWV	2033600	2033600
311421G	20338	20338
311421G111	2033811	2033811
311421G121	2033812	2033812
311421G131	2033813	2033813 pt
311421G141	2033821	2033821
311421G151	2033825	2033825
311421G161	2033828	2033813 pt
311421G171	2033831	2033831
311421G181	2033841	2033841
311421G191	2033851	2033851
311421G1A1	2033861	2033861
311421GYWV	2033800	2033800

1997 published	1997 collected	1992 published
311421J	2033A	2033A
311421J111	2033A25	2033A25
311421J221	2033A11	2033A11
311421J231	2033A31	2033A31
311421J241	2033A41	2033A41
311421J251	2033A78	2033A78
311421J261	2033A93	2033A93
311421J271	2033A94	2033A94
311421JYWV	2033A00	2033A00
311421M	2033B	2033B
311421M111	2033B12	2033B12
311421M121	2033B19	2033B19
311421M131	2033B21	2033B21
311421MYWV	2033B00	2033B00
311421P	20352	20352
311421P111	2035211	2035211
311421P121	2035213	2035213
311421P131	2035215	2035215
311421P141	2035219	2035219
311421P151	2035221	2035221
311421P161	2035231	2035231
311421P171	2035233	2035233
311421P181	2035235	2035235
311421P191	2035239	2035239
311421P1A1	2035271	2035271
311421P1B1	2035275	2035275
311421P1C1	2035298	2035298
311421PYWV	2035200	2035200
311421W pt	20330	20330
311421W pt	20350 pt	20350 pt
311421WYWW pt	2033000	2033000
311421WYWW pt	2035000 pt	2035000 pt
311421WYWY pt	2033002	2033002
311421WYWY pt	2035002 pt	2035002 pt
3114221	20321	20321
3114221100	2032100	2032100
3114224	20322	20322
3114224100	2032200	2032200
3114227	20323	20323
3114227111	2032370	2032370
3114227121	2032371	2032371
3114227131	2032375	2032375
3114227141	2032376	2032376
3114227151	2032379	2032379
3114227161	2032382	2032382
3114227171	2032384	2032384
3114227181	2032386	2032386
3114227191	2032391	2032391
3114227YWV	2032300	2032300
311422A	20324 pt	20324 pt
311422A111 pt	2032464 pt	2032463
311422A111 pt	2032464 pt	2032494
311422A121	2032491	2032491
311422A131	2032493	2032493
311422A136	2032471	2032499 pt
311422A141 pt	2032498 pt	2032468
311422A141 pt	2032498 pt	2032496
311422A141 pt	2032498 pt	2032497
311422A141 pt	2032498 pt	2032499 pt
311422AYWV	2032400 pt	2032400 pt
311422W	20320 pt	20320 pt
311422WYWW	2032000 pt	2032000 pt
311422WYWY	2032002 pt	2032002 pt
3114231 pt	20342	20342
3114231 pt	2099B pt	2099B pt
3114231111	2034200	2034200
3114231121	2099B17	2099B19 pt
3114231YWV	2099B00 pt	2099B00 pt
3114234	20343 pt	20343 pt
3114234111	2034313	2034313
3114234121	2034315	2034315
3114234131	2034321	2034321
3114234141	2034325	2034325
3114234151	2034332	2034332
3114234161	2034337	2034337
3114234181	2034340	2034339 pt
3114234YWV	2034300 pt	2034300 pt
311423W pt	20340 pt	20340 pt
311423W pt	20990 pt	20990 pt
311423WYWW pt	2034000 pt	2034000 pt
311423WYWW pt	2099000 pt	2099000 pt
311423WYWY pt	2034002 pt	2034002 pt
311423WYWY pt	2099002 pt	2099002 pt
3115111	20261	20261
3115111111	2026112	2026112
3115111221	2026115	2026115
3115111231	2026116	2026116
3115111241	2026119	2026119
3115111YWV	2026100	2026100
3115114	20262	20262
3115114111	2026212	2026212
3115114221	2026223	2026223
3115114331	2026225	2026225
3115114441	2026232	2026232
3115114451	2026243	2026243
3115114461	2026245	2026245
3115114471	2026252	2026252
3115114481	2026263	2026263
3115114YWV	2026200	2026200
3115117	20263	20263
3115117111	2026313	2026313
3115117121	2026316	2026316
3115117131	2026318	2026318
3115117YWV	2026300	2026300
311511A	20265	20265
311511A111	2026502	2026500 pt
311511A121	2026504	2026500 pt
311511AYWV	2026500	2026500 pt
311511D	20267	20267
311511D111	2026711	2026711
311511D121	2026713	2026713
311511D131	2026714	2026714
311511D141	2026716	2026716
311511D151	2026717	2026717
311511D161	2026718	2026718
311511DYWV	2026700	2026700
311511G	20268	20268
311511G111	2026813	2026813
311511G121	2026815	2026815
311511G131	2026819	2026819
311511GYWV	2026800	2026800
311511W	20260	20260
311511WYWW	2026000	2026000
311511WYWY	2026002	2026002
3115120	20210	20210
3115120111	2021013	2021013
3115120121	2021015	2021015
3115120131	2021021	2021021
3115120YWW	2021000	2021000
3115120YWY	2021002	2021002
3115131	20223	20223
3115131111	2022303	2022301 pt
3115131121	2022304	2022302 pt
3115131131	2022305	2022301 pt
3115131141	2022306	2022302 pt
3115131YWV	2022300	2022300
3115134	20224	20224
3115134111	2022411	2022411
3115134221	2022413	2022413
3115134231	2022423	2022423
3115134241	2022425	2022425
3115134251	2022429	2022429
3115134YWV	2022400	2022400
3115137	20225	20225
3115137111	2022511	2022511
3115137121	2022521	2022521
3115137YWV	2022500	2022500
311513A	20226	20220 pt
311513A100	2022600	2022000 pt
311513W	20220	20220 pt
311513WYWW	2022000	2022000 pt
311513WYWY	2022002	2022002
3115141	20235	20235
3115141111	2023511	2023511
3115141221	2023522	2023522
3115141331	2023529	2023529
3115141441	2023542	2023542
3115141551	2023543	2023543
3115141661	2023545	2023545
3115141671	2023546	2023547 pt
3115141681	2023548	2023547 pt
3115141791	2023549	2023549
31151418A1	2023551	2023551
3115141YWV	2023500	2023500
3115144	20236	20236
3115144111	2023612	2023612
3115144121	2023616	2023616
3115144131	2023621	2023621
3115144241	2023626	2023626
3115144351	2023628	2023628
3115144YWV	2023600	2023600
3115147	20237	20237
3115147111	2023712	2023712
3115147121	2023717	2023717
3115147131	2023719	2023719
3115147YWV	2023700	2023700
311514A	20238	20238
311514A111	2023801	2023801
311514A121	2023803	2023803
311514A131	2023804	2023819 pt
311514A241	2023805	2023805
311514A251	2023807	2023807
311514A261	2023813	2023813
311514A271	2023821	2023819 pt
311514AYWV	2023800	2023800
311514D	20239	20239
311514D111	2023921	2023921
311514D121	2023923	2023923
311514D131	2023925	2023925
311514D141	2023928	2023928
311514D151	2023932	2023932
311514D161	2023938	2023938
311514DYWV	2023900	2023900
311514W	20230	20230
311514WYWW	2023000	2023000
311514WYWY	2023002	2023002
3115200	20240	20240
3115200111	2024014	2024014
3115200221	2024015	2024015
3115200331	2024016	2024016
3115200441	2024021	2024021
3115200451	2024022	2024022
3115200461	2024023	2024023
3115200471	2024025	2024099 pt
3115200481	2024026	2024099 pt
3115200491	2024027	2024099 pt
31152005A1	2024035	2024031 pt
31152005B1	2024037	2024031 pt
31152005C1	2024094	2024094
31152005D1	2024096	2024096
31152005E1	2024052	2024052
31152005F1	2024054	2024054
31152005G1	2024071	2024071
31152005H1	2024098	2024099 pt
3115200YWW	2024000	2024000
3115200YWY	2024002	2024002
3116111	20111	20111
3116111111	2011112	2011112
3116111221	2011114	2011114
3116111331	2011116	2011116
3116111441	2011118	2011118
3116111551	2011131	2011131
3116111661	2011151	2011151
3116111671	2011171	2011171
3116111YWV	2011100	2011100
3116114	20112	20112
3116114111	2011212	2011212
3116114121	2011217	2011217
3116114131	2011261	2011261
3116114YWV	2011200	2011200
3116117	20113	20113
3116117111	2011312	2011312
3116117121	2011352	2011352
3116117YWV	2011300	2011300
311611A	20114	20114
311611A111	2011412	2011412
311611A121	2011417	2011417
311611A131	2011451	2011451
311611AYWV	2011400	2011400
311611D	20115	20115
311611D111	2011513	2011513
311611D121	2011517	2011517
311611DYWV	2011500	2011500
311611G	20116	20116
311611G111	2011612	2011612
311611G121	2011622	2011622
311611G131	2011631	2011631
311611G141	2011635	2011635
311611G151	2011641	2011641
311611G161	2011652	2011652
311611G171	2011661	2011661
311611GYWV	2011600	2011600
311611J	20117	20117
311611J111	2011711	2011711
311611J121	2011717	2011717
311611J131	2011721	2011721
311611J141	2011735	2011735
311611J151	2011791	2011791
311611JYWV	2011700	2011700
311611M	20118	20118
311611M100	2011800	2011800
311611P	20119	20119
311611P111	2011914	2011914
311611P121	2011922	2011922
311611P131	2011951	2011951
311611P141	2011997	2011997
311611PYWV	2011900	2011900
311611T pt	2011B	2011B
311611T pt	20489 pt	20489 pt
311611T111	2011B15	2011B15
311611T121	2011B17	2011B17
311611T131	2011B41	2011B41
311611T141	2011B45	2011B45
311611T151	2011B55	2011B55
311611T161	2011B59	2011B59
311611T171	2048940	2048941 pt
311611TYWV pt	2011B00	2011B00
311611TYWV pt	2048900 pt	2048900 pt
311611W pt	20110	20110
311611W pt	20480 pt	20480 pt
311611WYWW pt	2011000	2011000
311611WYWW pt	2048000 pt	2048000 pt
311611WYWY pt	2011002	2011002
311611WYWY pt	2048002 pt	2048002 pt
3116121 pt	20136	20136
3116121 pt	20137 pt	20137 pt
3116121111	2013612	2013612
3116121121	2013622	2013622
3116121231	2013631	2013631
3116121341	2013635	2013635
3116121451	2013641	2013641
3116121561	2013652	2013652
3116121671	2013661	2013661
3116121781	2013741	2013741
3116121YWV pt	2013600	2013600
3116121YWV pt	2013700 pt	2013700 pt

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3116124	20137 pt	20137 pt
3116124111	2013711	2013711
3116124221	2013717	2013717
3116124331	2013721	2013721
3116124441	2013735	2013735
3116124451	2013791	2013791
3116124YWV	2013700 pt	2013700 pt
3116127	20138	20138
3116127100	2013800	2013800
311612A pt	2013B	2013B
311612A pt	51470 pt	51470 pt
311612A111	5147009	5147000 pt
311612A221	2013B11	2013B11
311612A331	2013B13	2013B13
311612A441	2013B17	2013B17
311612A451	2013B18	2013B18
311612A461	2013B21	2013B21
311612AYWV pt	2013B00	2013B00
311612AYWV pt	5147000 pt	5147000 pt
311612W pt	20130	20130
311612W pt	51470 pt	51470 pt
311612WYWW pt	2013000	2013000
311612WYWW pt	5147000 pt	5147000 pt
311612WYWY pt	2013002	2013002
311612WYWY pt	5147002	5147002
3116131	20771	20771
3116131111	2077111	2077111
3116131121	2077113	2077113
3116131YWV	2077100	2077100
3116134 pt	20772	20772
3116134 pt	20773 pt	20773 pt
3116134111	2077211	2077211
3116134221	2077212	2077212
3116134231	2077237	2077237
3116134241	2077298	2077298
3116134251	2077346	2077346
3116134261	2077312	2077311 pt
3116134YWV pt	2077200	2077200
3116134YWV pt	2077300 pt	2077300 pt
311613W	20770 pt	20770 pt
311613WYWW	2077000 pt	2077000 pt
311613WYWY	2077002 pt	2077002 pt
3116151	20151	20151
3116151111	2015133	2015133
3116151221	2015134	2015134
3116151331	2015136	2015136
3116151441	2015139	2015139
3116151551	2015141	2015141
3116151YWV	2015100	2015100
3116154	20152	20152
3116154111	2015221	2015221
3116154121	2015223	2015223
3116154YWV	2015200	2015200
3116157	20153	20153
3116157111	2015322	2015322
3116157221	2015324	2015324
3116157331	2015326	2015326
3116157341	2015327	2015327
3116157YWV	2015300	2015300
311615A	20154	20154
311615A111	2015414	2015414
311615A121	2015416	2015416
311615AYWV	2015400	2015400
311615D	20155	20155
311615D111 pt	2015512 pt	2015511
311615D111 pt	2015512 pt	2015513
311615D111 pt	2015512 pt	2015515
311615D121	2015531	2015531
311615D131	2015532	2015532
311615D141	2015533	2015533
311615D151	2015534	2015534
311615D161	2015539	2015539
311615D171	2015548	2015548
311615DYWV	2015500	2015500
311615W	20150 pt	20150 pt
311615WYWW	2015000 pt	2015000 pt
311615WYWY	2015002 pt	2015002 pt
3117110 pt	20770 pt	20770 pt
3117110 pt	20773 pt	20773 pt
3117110 pt	20910	20910
3117110111	2091012	2091012
3117110221	2091013	2091013
3117110331	2091014	2091014
3117110341	2091015	2091015
3117110351	2091016	2091016
3117110461	2077362	2077361 pt
3117110471	2077364	2077366 pt
3117110481	2077371	2077379 pt
3117110591	2091019	2091019
31171106A1	2091031	2091031
31171107B1	2091051	2091051
31171107C1	2091071	2091071
31171107D1	2091082	2091082
31171107E1	2091089	2091089
3117110YWW pt	2077000 pt	2077000 pt
3117110YWW pt	2077300 pt	2077300 pt
3117110YWW pt	2091000	2091000
3117110YWY pt	2077002 pt	2077002 pt
3117110YWY pt	2091002	2091002
3117121	20922	20922
3117121111	2092201	2092213 pt
3117121121	2092202	2092213 pt
3117121131	2092203	2092213 pt
3117121141	2092204	2092213 pt
3117121151	2092207	2092213 pt
3117121161	2092208	2092213 pt
3117121171	2092209	2092213 pt
3117121181	2092210	2092213 pt
3117121191	2092211	2092213 pt
31171211A1	2092212	2092213 pt
31171211B1	2092215	2092215
31171211C1	2092217	2092217
31171211D1	2092218	2092218
31171211E1	2092219	2092219
31171211F1	2092223	2092223
31171211G1	2092224	2092224
31171211H1	2092225	2092225
31171211J1	2092226	2092226
31171211K1	2092227	2092227
31171211L1	2092228	2092228
31171211M1	2092231	2092231
3117121YWV	2092200	2092200
3117122	20923	20923
3117122111	2092311	2092311
3117122221	2092313	2092313
3117122331	2092315	2092315
3117122441	2092317	2092317
3117122451	2092319	2092319
3117122461	2092321	2092321
3117122471	2092323	2092323
3117122581	2092325	2092326 pt
3117122691	2092328	2092327 pt
31171226A1	2092331	2092329 pt
31171227B1	2092332	2092326 pt
31171228C1	2092333	2092327 pt
31171228D1	2092334	2092329 pt
31171229E1	2092336	2092326 pt
3117122AF1	2092338	2092327 pt
3117122AG1	2092339	2092329 pt
3117122YWV	2092300	2092300
3117123	20925	20925
3117123111	2092521	2092521
3117123121	2092522	2092522
3117123131	2092523	2092523
3117123141	2092524	2092524
3117123251	2092525	2092525
3117123261	2092526	2092526
3117123271	2092527	2092527
3117123281	2092528	2092528
3117123291	2092529	2092529
31171232A1	2092530	2092530
31171232B1	2092533	2092533
31171232C1	2092534	2092534
31171232D1	2092535	2092535
31171232E1	2092536	2092536
3117123YWV	2092500	2092500
3117124 pt	20773 pt	20773 pt
3117124 pt	20926	20926
3117124111	2092611	2092611
3117124121	2092613	2092613
3117124131	2092698	2092698
3117124211	2077363	2077361 pt
3117124221	2077367	2077366 pt
3117124231	2077372	2077379 pt
3117124311	2077314	2077311 pt
3117124YWV pt	2077300 pt	2077300 pt
3117124YWV pt	2092600	2092600
311712W pt	20770 pt	20770 pt
311712W pt	20920	20920
311712WYWW pt	2077000 pt	2077000 pt
311712WYWW pt	2092000	2092000
311712WYWY pt	2077002 pt	2077002 pt
311712WYWY pt	2092002	2092002
3118110	54610	54610
3118110111	5461011	5461000 pt
3118110121	5461013	5461000 pt
3118110131	5461015	5461000 pt
3118110141	5461017	5461000 pt
3118110151	5461019	5461000 pt
3118110161	5461021	5461000 pt
31181101V1	5461090	5461000 pt
3118110YWW	5461000	5461000 pt
3118110YWY	5461002	5461000 pt
3118121 pt	20511	20511
3118121 pt	20521 pt	20521 pt
3118121111	2051121	2051121
3118121121	2051122	2051122
3118121231	2051127	2051127
3118121241	2051129	2051129
3118121351	2051131	2051131
3118121361	2051133	2051133
3118121471	2051135	2051135
3118121481	2051137	2051137
3118121491	2052188	2052198 pt
31181214A1	2052189	2052198 pt
31181214G1	2051141	2051141
31181214J1	2051142	2051142
3118121YWV pt	2051100	2051100
3118121YWV pt	2052100 pt	2052100 pt
3118124	20512	20512
3118124111	2051230	2051230
3118124121	2051231	2051231
3118124231	2051243	2051243
3118124241	2051244	2051244
3118124251	2051250	2051250
3118124261	2051251	2051251
3118124271	2051260	2051260
3118124281	2051261	2051261
3118124291	2051270	2051270
31181242A1	2051271	2051271
31181242B1	2051280	2051280
31181242C1	2051281	2051281
31181242D1	2051290	2051290
31181242E1	2051291	2051291
31181242F1	2051249	2051249
3118124YWV	2051200	2051200
3118127	20514	20514
3118127111	2051413	2051413
3118127121	2051415	2051415
3118127131	2051419	2051419
3118127YWV	2051400	2051400
311812A	20515	20515
311812A111	2051513	2051513
311812A121	2051519	2051519
311812AYWV	2051500	2051500
311812D pt	20518 pt	20513
311812D pt	20518 pt	20516
311812D pt	20518 pt	20517
311812D111	2051813	2051313
311812D131	2051845	2051700
311812D151	2051850	2051600
311812D181	2051890	2051398 pt
311812D191	2051892	2051398 pt
311812DYWV	2051800	2051300
311812W pt	20510	20510
311812W pt	20520 pt	20520 pt
311812WYWW pt	2051000	2051000
311812WYWW pt	2052000 pt	2052000 pt
311812WYWY pt	2051002	2051002
311812WYWY pt	2052002 pt	2052002 pt
3118130	20530	20530
3118130111	2053014	2053014
3118130221	2053011	2053011
3118130331	2053020	2053020
3118130341	2053017	2053017
3118130351	2053040	2053040
3118130361	2053030	2053025 pt
3118130371	2053032	2053025 pt
3118130391	2053055	2053050 pt
31181303V1	2053060	2053050 pt
3118130YWW	2053000	2053000
3118130YWY	2053002	2053002
3118211	20521 pt	20521 pt
3118211111	2052125	2052125
3118211221	2052135	2052135
3118211331	2052123	2052123
3118211341	2052133	2052133
3118211351	2052159	2052151 pt
3118211391	2052197	2052198 pt
3118211YWV	2052100 pt	2052100 pt
3118214	20522	20522
3118214111	2052213	2052213
3118214221	2052217	2052217
3118214331	2052215	2052215
3118214341	2052216	2052216
3118214351	2052218	2052218
3118214361	2052220	2052220
3118214371	2052221	2052221
3118214381	2052235	2052235
3118214391	2052231	2052231
3118214YWV	2052200	2052200
311821W	20520 pt	20520 pt
311821WYWW	2052000 pt	2052000 pt
311821WYWY	2052002 pt	2052002 pt
3118220	20450	20450
3118220121	2045013	2045013
3118220211	2045011	2045011
3118220231	2045015	2045015
3118220241 pt	2045030 pt	2045017
3118220241 pt	2045030 pt	2045019
3118220241 pt	2045030 pt	2045025
3118220251	2045021	2045021
3118220261 pt	2045090 pt	2045081
3118220261 pt	2045090 pt	2045085
3118220261 pt	2045090 pt	2045086
3118220261 pt	2045090 pt	2045088
3118220261 pt	2045090 pt	2045089
3118220271 pt	2045096 pt	2045091
3118220271 pt	2045096 pt	2045092
3118220271 pt	2045096 pt	2045095
3118220YWW	2045000	2045000
3118220YWY	2045002	2045002
3118230	20980	20980
3118230111	2098001	2098001
3118230221	2098007	2098000 pt
3118230331	2098003	2098003
3118230441	2098004	2098004
3118230451	2098005	2098005
3118230461	2098006	2098006
3118230YWW	2098000	2098000 pt

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3118230YWY	2098002	2098002
3118300 pt	20990 pt	20990 pt
3118300 pt	20999 pt	20999 pt
3118300100	2099943	2099943
3118300YWW pt	2099000 pt	2099000 pt
3118300YWW pt	2099900 pt	2099900 pt
3118300YWY	2099002 pt	2099002 pt
3119111	20680 pt	20680 pt
3119111111	2068013	2068013
3119111121	2068015	2068015
3119111131	2068017	2068017
3119111241	2068033	2068033
3119111251	2068035	2068035
3119111261	2068037	2068037
3119111371	2068053	2068053
3119111381	2068055	2068055
3119111391	2068057	2068057
31191113A1	2068061	2068061
3119111YWV	2068000 pt	2068000 pt
3119114	2099F	2099F
3119114111	2099F44	2099F44
3119114121	2099F46	2099F46
3119114YWV	2099F00	2099F00
311911W pt	20680 pt	20680 pt
311911W pt	20990 pt	20990 pt
311911WYWW pt	2068000 pt	2068000 pt
311911WYWW pt	2099000 pt	2099000 pt
311911WYWY pt	2068002	2068002
311911WYWY pt	2099002 pt	2099002 pt
3119191	20961	20961
3119191100	2096100	2096100
3119194	20962	20962
3119194111	2096219	2096221 pt
3119194221	2096225	2096221 pt
3119194331	2096229	2096229
3119194YWV	2096200	2096200
3119197 pt	20521 pt	20521 pt
3119197 pt	20963	20963
3119197111	2052155	2052151 pt
3119197221	2096300 pt	2096300 pt
3119197YWV pt	2052100 pt	2052100 pt
3119197YWV pt	2096300 pt	2096300 pt
311919W pt	20520 pt	20520 pt
311919W pt	20960	20960
311919WYWW pt	2052000 pt	2052000 pt
311919WYWW pt	2096000	2096000
311919WYWY pt	2052002 pt	2052002 pt
311919WYWY pt	2096002	2096002
3119201	20951	20951
3119201111	2095111	2095111
3119201211	2095115	2095115
3119201331	2095121	2095121
3119201YWV	2095100	2095100
3119204 pt	20432 pt	20432 pt
3119204 pt	20952 pt	20952 pt
3119204111	2095211	2095200 pt
3119204121	2043211	2043209 pt
3119204YWV pt	2043200 pt	2043200 pt
3119204YWV pt	2095200 pt	2095200 pt
3119207	2099D	2099D
3119207111	2099D82	2099D82
3119207221	2099D83	2099D83
3119207231	2099D86	2099D86
3119207YWV	2099D00	2099D00
311920W pt	20430 pt	20430 pt
311920W pt	20950 pt	20950 pt
311920W pt	20990 pt	20990 pt
311920WYWW pt	2043000 pt	2043000 pt
311920WYWW pt	2095000 pt	2095000 pt
311920WYWW pt	2099000 pt	2099000 pt
311920WYWY pt	2043002 pt	2043002 pt
311920WYWY pt	2095002 pt	2095002 pt
311920WYWY pt	2099002 pt	2099002 pt
3119301	20872	20872
3119301111	2087215	2087215
3119301121	2087221	2087221
3119301YWV	2087200	2087200
3119304	20873	20873
3119304111	2087321	2087321
3119304121	2087323	2087323
3119304131	2087325	2087325
3119304141	2087341	2087341
3119304151	2087343	2087343
3119304161	2087345	2087345
3119304YWV	2087300	2087300
3119307	20874 pt	20874 pt
3119307111	2087459	2087459
3119307121	2087461	2087461
3119307131	2087471	2087471
3119307141	2087481	2087481
3119307YWV	2087400 pt	2087400 pt
311930W	20870 pt	20870 pt
311930WYWW	2087000 pt	2087000 pt
311930WYWY	2087002 pt	2087002 pt
3119411	20996	20996
3119411111	2099611	2099611
3119411121	2099651	2099651
3119411131	2099657	2099657
3119411YWV	2099600	2099600
3119414	20353	20353
3119414111	2035311	2035311
3119414221	2035351	2035351
3119414YWV	2035300	2035300
3119417	20354	20354
3119417111	2035411	2035411
3119417221	2035423	2035423
3119417331	2035429	2035429
3119417441	2035435	2035435
3119417YWV	2035400	2035400
311941W pt	20350 pt	20350 pt
311941W pt	20990 pt	20990 pt
311941WYWW pt	2035000 pt	2035000 pt
311941WYWW pt	2099000 pt	2099000 pt
311941WYWY pt	2035002 pt	2035002 pt
311941WYWY pt	2099002 pt	2099002 pt
3119421 pt	2099E	2099E
3119421 pt	28991 pt	28991 pt
3119421111	2899121	2899100 pt
3119421121	2099E31	2099E31
3119421131	2099E33	2099E33
3119421241	2099E38	2099E38
3119421351	2099E39	2099E39
3119421YWV pt	2099E00	2099E00
3119421YWV pt	2899100 pt	2899100 pt
3119424 pt	20871	20871
3119424 pt	20952 pt	20952 pt
3119424111	2087111	2087111
3119424121	2087115	2087115
3119424131	2087153	2087153
3119424141	2095231	2095200 pt
3119424YWV pt	2087100	2087100
3119424YWV pt	2095200 pt	2095200 pt
3119427	2099B pt	2099B pt
3119427111	2099B01	2099B01
3119427121	2099B03	2099B03
3119427131	2099B07	2099B07
3119427241	2099B05	2099B05
3119427251	2099B09	2099B09
3119427YWV	2099B00 pt	2099B00 pt
311942W pt	20870 pt	20870 pt
311942W pt	20950 pt	20950 pt
311942W pt	20990 pt	20990 pt
311942W pt	28990 pt	28990 pt
311942WYWW pt	2087000 pt	2087000 pt
311942WYWW pt	2095000 pt	2095000 pt
311942WYWW pt	2099000 pt	2099000 pt
311942WYWW pt	2899000 pt	2899000 pt
311942WYWY pt	2087002 pt	2087002 pt
311942WYWY pt	2095002 pt	2095002 pt
311942WYWY pt	2099002 pt	2099002 pt
311942WYWY pt	2899002 pt	2899002 pt
3119910 pt	20990 pt	20990 pt
3119910 pt	20999 pt	20999 pt
3119910111	2099921	2099921
3119910221	2099931	2099931
3119910331	2099935	2099935
3119910441	2099945	2099945
3119910551	2099953	2099953
3119910561	2099955	2099955
3119910671	2099958	2099958
3119910781	2099959	2099959
3119910YWW pt	2099000 pt	2099000 pt
3119910YWW pt	2099900 pt	2099900 pt
3119910YWY	2099002 pt	2099002 pt
3119991	20991	20991
3119991111	2099113	2099113
3119991121	2099115	2099115
3119991131	2099153	2099153
3119991141	2099155	2099155
3119991151	2099159	2099159
3119991YWV	2099100	2099100
3119994	20993	20993
3119994111	2099325	2099325
3119994121	2099327	2099327
3119994YWV	2099300	2099300
3119997	20994	20994
3119997111	2099413	2099413
3119997121	2099423	2099423
3119997131	2099434	2099434
3119997141	2099455	2099455
3119997YWV	2099400	2099400
311999A	2099A	2099A
311999A111	2099A01	2099A01
311999A121	2099A02	2099A02
311999A131	2099A03	2099A03
311999A141	2099A04	2099A04
311999A151	2099A05	2099A05
311999A161	2099A06	2099A06
311999AYWV	2099A00	2099A00
311999D	2099B pt	2099B pt
311999D131	2099B11	2099B11
311999D141	2099B13	2099B13
311999D151	2099B21	2099B19 pt
311999DYWV	2099B00 pt	2099B00 pt
311999G	20159	20159
311999G111	2015911	2015911
311999G121	2015913	2015913
311999G131	2015915	2015915
311999G141	2015917	2015917
311999G151	2015951	2015951
311999G161	2015953	2015953
311999G171	2015955	2015955
311999G181	2015957	2015957
311999GYWV	2015900	2015900
311999J	20874 pt	20874 pt
311999J111	2087435	2087435
311999J121	2087437	2087437
311999JYWV	2087400 pt	2087400 pt
311999M pt	20324 pt	20324 pt
311999M pt	2099G pt	2099G pt
311999M101	2032495	2032499 pt
311999M111	2099G11	2099G11
311999M121	2099G25	2099G25
311999M131	2099G41	2099G41
311999M141	2099G51	2099G51
311999M151	2099G85	2099G85
311999M161	2099G91	2099G91
311999M171	2099G98	2099G98 pt
311999MYWV pt	2032400 pt	2032400 pt
311999MYWV pt	2099G00 pt	2099G00 pt
311999W pt	20150 pt	20150 pt
311999W pt	20320 pt	20320 pt
311999W pt	20870 pt	20870 pt
311999W pt	20990 pt	20990 pt
311999WYWW pt	2015000 pt	2015000 pt
311999WYWW pt	2032000 pt	2032000 pt
311999WYWW pt	2087000 pt	2087000 pt
311999WYWW pt	2099000 pt	2099000 pt
311999WYWY pt	2015002 pt	2015002 pt
311999WYWY pt	2032002 pt	2032002 pt
311999WYWY pt	2087002 pt	2087002 pt
311999WYWY pt	2099002 pt	2099002 pt