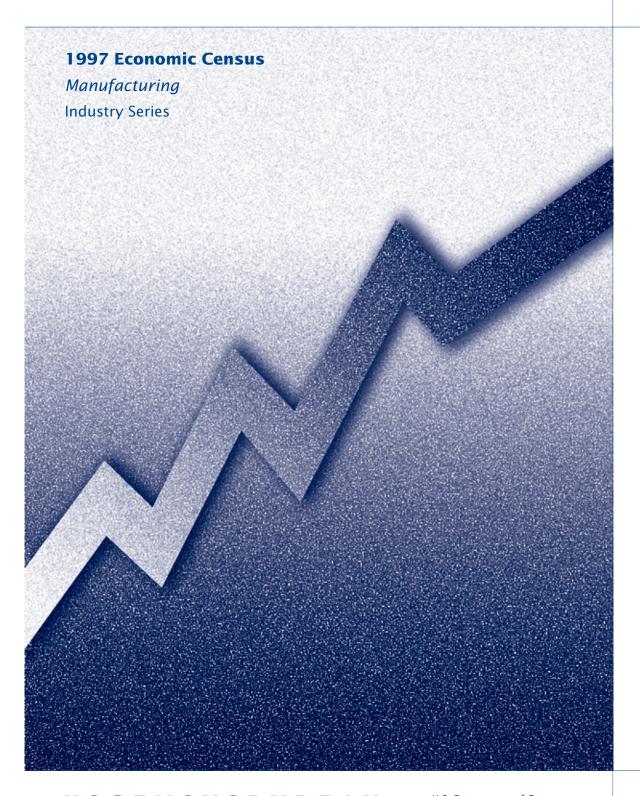
Fluid Power Valve and Hose Fitting Manufacturing

1997

ssued December 1999

EC97M-3329B



USCENSUSBUREAU

Helping You Make Informed Decisions

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



ACKNOWLEDGMENTS

The staff of the Manufacturing and Construction Division prepared this report. Judy M. Dodds, Assistant Chief for Census and Related Programs, was responsible for the overall planning, management, and coordination. Kenneth Hansen, Chief, Manufactured Durables Branch, assisted by Mike Brown, Renee Coley, Raphael Corrado, and Milbren Thomas, Section Chiefs, Michael Zampogna, Former Chief, Manufactured Nondurables Branch, assisted by Allen Foreman, Robert Miller, Robert Reinard, and Nat Shelton, Section Chiefs, and Tom Lee, Robert Rosati, and Tom Flood, Special Assistants, performed the planning and implementation. Stephanie Angel, Brian Appert, Stanis Batton, Carol Beasley, Chris Blackburn, Larry Blumberg, Vera Harris-Bourne, Brenda Campbell, Suzanne Conard, Vance Davis, Mary Ellickson, Matt Gaines, Merry Glascoe, Kay Hanks, Karen Harshbarger, Nancy Higgins, James Hinckley, Walter Hunter, Jim Jamski, Evelyn Jordan, Robert Lee, John Linehan, Paul Marck, Keith McKenzie, Philippe Morris, Joanna Nguyen, Betty Pannell, Joyce Pomeroy, Venita Powell, Cynthia Ramsey, Chris Savage, Aronda Stovall, Sue Sundermann, Thanos Theodoropoulos, Dora Thomas, Ann Truffa, Ronanne Vinson, Keeley Voor, Denneth Wallace, Tempie Whittington, Lissene Witt, and Mike Yamaner provided primary staff assistance.

Brian Greenberg, Assistant Chief for Research and Methodology Programs, assisted by **Stacey Cole,** Chief, Manufacturing Programs Methodology Branch, and **Robert Struble,** Section Chief, provided the mathematical and statistical techniques as well as the coverage operations. **Jeffrey Dalzell** and **Cathy Ritenour** provided primary staff assistance.

Mendel D. Gayle, Chief, Forms, Publications, and Customer Services Branch, assisted by **Julius Smith Jr.** and **Baruti Taylor,** Section Chiefs, performed overall

coordination of the publication process.

Kim Credito, Patrick Duck, Chip

Murph, Wanda Sledd, and Veronica

White provided primary staff assistance.

The Economic Planning and Coordination Division, Lawrence A. Blum, Assistant Chief for Collection Activities and Shirin A. Ahmed, Assistant Chief for Post-Collection Processing, assisted by Dennis Shoemaker, Chief, Post-Collection Census Processing Branch, Brandy Yarbrough, Section Chief, Sheila Proudfoot, Richard Williamson, Andrew W. Hait, and Jennifer E. Lins, was responsible for developing the systems and procedures for data collection, editing, review, correction and dissemination

The staff of the National Processing Center, **Judith N. Petty,** Chief, performed mailout preparation and receipt operations, clerical and analytical review activities, data keying, and geocoding review.

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

The Economic Statistical Methods and Programming Division, Charles P. Pautler Jr., Chief, developed and coordinated the computer processing systems. Martin S. Harahush, Assistant Chief for Quinquennial Programs, assisted by Barbara Lambert and Christina Arledge were responsible for design and implementation of the computer systems. Gary T. Sheridan, Chief, Manufacturing and Construction Branch, Lori A. Guido and Roy A. Smith, Section Chiefs, supervised the preparation of the computer programs.

Computer Services Division, **Debra Williams**, Chief, performed the computer processing.

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

Fluid Power Valve and Hose Fitting Manufacturing

EC97M-3329B

1997 Economic Census

Manufacturing **Industry Series**





U.S. Department of Commerce William M. Daley, Secretary Robert L. Mallett, **Deputy Secretary**

> **Economics** and Statistics Administration Robert J. Shapiro, **Under Secretary for Economic Affairs**

U.S. CENSUS BUREAU Kenneth Prewitt,

Director



Economics and Statistics Administration Robert J. Shapiro, Under Secretary for Economic Affairs



U.S. CENSUS BUREAU Kenneth Prewitt,

Director

William G. Barron,Deputy Director

Paula J. Schneider, Principal Associate Director for Programs

Frederick T. Knickerbocker, Associate Director for Economic Programs

Thomas L. Mesenbourg, Assistant Director for Economic Programs

William G. Bostic Jr., Chief, Manufacturing and Construction Division

CONTENTS

| | duction to the Economic Census | 1 5 |
|--|---|-------------------------------------|
| TABL | LES | |
| 1. 2. 3. 4. 5. 6a. 6b. 7. | Industry Statistics on NAICS Basis With Distribution Among 1987 SIC-Based Industries: 1997 | 7 7 8 9 10 11 13 |
| APP | ENDIXES | |
| A. B. C. D. E. F. | Explanation of Terms NAICS Codes, Titles, and Descriptions Coverage and Methodology Geographic Notes Metropolitan Areas Footnotes for Products Statistics and Materials Consumed by Kind Comparability of Product Classes and Product Codes: 1997 to 1992 | A-1 B-1 C-1 F-1 G-1 |

-- 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**

Health Care and Social Assistance 62

Arts. Entertainment, and Recreation 71

72 Accommodation and Foodservices

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 Service Sector Statistics Division

301-457-4673 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/econquide. 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:

- Α 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 rev-
- Ν Not available or not comparable.
- Revenue not collected at this level of detail for Q multiestablishment firms.
- S Withheld because estimates did not meet publication standards.

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

1997 ECONOMIC CENSUS INTRODUCTION 3 This page is intentionally blank.

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

U.S. Census Bureau, 1997 Economic Census

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, semiindependent 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 | | | All | All em | oloyees | Pr | oduction work | ers | | | | Total capital |
|------------------|--|-----------------------------|---------------------------------------|--------|----------------------|--------|------------------|--------------------|--|-----------------------------|------------------------------------|--------------------------------|
| or SIC code | Industry | Com- panies ¹ | estab- lish- ments ² | Number | Payroll (\$1,000) | Number | Hours (1,000) | Wages (\$1,000) | Value added by manufacture (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | expendi- tures (\$1,000) |
| 332912 | Fluid power valve & hose fitting mfg | 358 | 423 | 36 977 | 1 320 367 | 25 445 | 53 385 | 745 095 | 3 943 860 | 2 649 920 | 6 590 429 | 237 176 |
| 349200 372810 | Fluid power valves & hose fittings | | 423 | 36 977 | 1 320 367 | 25 445 | 53 385 | 745 095 | | 2 649 920 | 6 590 429 | 237 176 |
| 3/2810 | Aircraft parts & equipment, n.e.c. (pt) | N | - | - | - | - | - | _ | - | - | - | - |

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control. ²Includes 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]

| | | All establishments | | All em | ployees | Production workers | | | | | | |
|---|------------------|----------------------------|---|---------------------------------------|---|-----------------------------------|---|---|--------------------------------------|---|--|---|
| Industry and geographic area | E¹ | Total | With 20 em- ploy- ees or more | Number | Payroll (\$1,000) | Number | Hours (1,000) | Wages (\$1,000) | Value added by manufacture (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Total capital expendi- tures (\$1,000) |
| 332912, FLUID POWER VALVE & HOSE FITTING MFG | | | | | | | | | | | | |
| United States | - | 423 | 213 | 36 977 | 1 320 367 | 25 445 | 53 385 | 745 095 | 3 943 860 | 2 649 920 | 6 590 429 | 237 176 |
| California Florida Illinois Indiana Kansas | - - - 3 | 64 17 24 15 10 | 25 7 12 10 4 | 3 831 1 326 1 186 863 225 | 168 801 42 568 38 833 30 477 5 311 | 2 347 856 839 652 183 | 4 838 1 967 1 844 1 325 341 | 82 493 20 219 23 451 20 182 3 552 | 106 522 129 335 | 200 211 52 082 113 045 109 967 10 054 | 609 678 151 653 239 194 259 695 25 244 | 19 982 7 122 5 465 7 632 641 |
| Michigan Minnesota New Jersey New York North Carolina | _ | 48 19 10 16 9 | 27 10 4 6 5 | 4 809 1 443 402 593 743 | 163 930 53 798 16 704 19 297 21 914 | 3 587 951 234 390 538 | 7 466 2 159 520 846 1 078 | 98 256 32 829 6 839 12 268 12 665 | 158 670 29 124 44 845 | 409 295 70 122 38 001 18 102 55 375 | 751 479 230 789 67 838 64 029 107 967 | 23 058 6 807 763 3 205 5 614 |
| Ohio | 1 - - | 43 14 29 12 | 30 8 9 7 | 5 694 637 926 2 148 | 206 617 20 775 31 888 75 097 | 4 301 474 650 1 587 | 8 788 981 1 308 3 135 | 136 032 12 849 17 486 46 076 | 100 692 | 486 935 34 852 48 360 142 702 | 1 210 986 86 230 144 037 355 426 | 44 230 3 037 2 920 21 613 |

^{*} 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.

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

Table 3. Detailed Statistics by Industry: 1997

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

| Item | Value | Item | Value |
|---|--|---|--|
| 332912, FLUID POWER VALVE & HOSE FITTING MFG | | 332912, FLUID POWER VALVE & HOSE FITTING MFG—Con. | |
| Companies ¹ number | 358 | Value added | 3 943 860 |
| All establishments number . Establishments with 1 to 19 employees number . Establishments with 20 to 99 employees number . Establishments with 100 employees or more number . | 423 210 106 107 | Total inventories, beginning of year \$1,000 . Finished goods inventories, beginning of year \$1,000 . Work-in-process inventories, beginning of year \$1,000 . Materials and supplies inventories, beginning of year \$1,000 . | 1 222 915 544 693 321 775 356 447 |
| All employees number. Total compensation ² \$1,000. Annual payroll. \$1,000. Total fringe benefits \$1,000. | 36 977 1 733 735 1 320 367 413 368 | | 1 254 222 539 527 330 292 384 403 |
| Production workers, average for year | 25 445 24 669 25 262 | Gross book value of total assets at beginning of year \$1,000. Total capital expenditures (new and used) \$1,000. Capital expenditures for buildings and other structures | 2 117 462 237 176 |
| Production workers on August 12 | 25 647 26 202 | (new and used) \$1,000 Capital expenditures for machinery and equipment (new and used) \$1,000 Total retirements ² \$1,000. | 34 178 202 998 74 218 |
| Production-worker hours | 53 385 745 095 | Gross book value of total assets at end of year | 2 280 420 |
| Total cost of materials\$1,000 | 2 649 920 | Total depreciation during year ² \$1,000 | 168 507 |
| Cost of materials, parts, containers, etc., consumed \$1,000 Cost of resales \$1,000 Cost of fluels \$1,000 Cost of purchased electricity \$1,000 Cost of contract work \$1,000 | 2 184 326 248 854 7 151 44 695 164 894 | Total rental payments ² \$1,000 . Buildings and other structures rental payments ² \$1,000 . Machinery and equipment rental payments ² \$1,000 . Cost of purchased services for the repair of buildings and other | 25 994 12 740 13 254 |
| Quantity of electricity purchased for heat and power | 790 998 - | structures ³ \$1,000 Response coverage ratio ⁴ | 14 624 88 |
| Total value of shipments\$1,000 | 6 590 429 | equipment ³ \$1,000 Response coverage ratio ⁴ percent | 38 088 88 |
| Primary products value of shipments\$1,000 | 5 252 296 | Cost of purchased communications services ³ | 9 092 |
| Secondary products value of shipments\$1,000 Total miscellaneous receipts\$1,000 | 954 455 383 678 | Response coverage ratio ⁴ percent. Cost of purchased legal services ³ \$1,000. | 88 6 721 |
| Value of resales | 328 423 | Response coverage ratio ⁴ percent. | 88 |
| Contract receipts | 8 057 47 198 | | 2 754 88 |
| Other miscellaneous receipts | 47 190 | Cost of purchased advertising services ³ \$1,000 | 11 923 |
| Primary products specialization ratio | 84 6 251 385 | Response coverage ratio ⁴ percent. | 88 |
| Value of primary products shipments made in this industry \$1,000 Value of primary products shipments made in other | 5 252 296 | services ³ | 12 568 88 |
| industries \$1,000 | 999 089 | Cost of purchased refuse removal (including hazardous waste) services ³ \$1,000. | 3 466 |
| Coverage ratio percent | 84 | | 88 |

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

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

²These 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.

³Based on ASM sample data.

⁴A 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.

Table 4. Industry Statistics by Employment Size: 1997

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

| | | | All shments | All em | oloyees | Pr | oduction work | ers | | | | |
|---|----|-----------|---|------------|----------------------|------------|------------------|--------------------|--------------------------------------|-----------------------------|------------------------------------|---|
| Employment size class | E¹ | Total | With 20 em- ploy- ees or more | Number | Payroll (\$1,000) | Number | Hours (1,000) | Wages (\$1,000) | Value added by manufacture (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Total capital expendi- tures (\$1,000) |
| 332912, FLUID POWER VALVE & HOSE FITTING MFG | | | | | | | | | | | | |
| All establishments | - | 423 | 213 | 36 977 | 1 320 367 | 25 445 | 53 385 | 745 095 | 3 943 860 | 2 649 920 | 6 590 429 | 237 176 |
| Establishments with 1 to 4 employees | 8 | 102 51 | _ _ | 199 343 | 5 328 10 426 | 158 252 | 266 467 | 3 652 7 134 | 13 378 23 942 | 9 599 17 653 | 22 629 41 676 | 700 1 391 |
| Establishments with 10 to 19 employees | 6 | 57 | _ | 793 | 27 013 | 552 | 1 087 | 16 549 | 69 308 | 42 394 | 111 969 | 3 469 |
| Establishments with 20 to 49 employees | 1 | 58 | 58 | 1 928 | 65 091 | 1 348 | 2 513 | 35 517 | 171 435 | 113 635 | 277 987 | 9 052 |
| employees | - | 48 | 48 | 3 504 | 119 324 | 2 402 | 4 909 | 68 438 | 339 687 | 252 936 | 583 015 | 22 003 |
| employees Establishments with 250 to 499 | - | 64 | 64 | 10 028 | 336 161 | 7 188 | 15 803 | 197 362 | 958 991 | 716 808 | 1 730 787 | 60 067 |
| employees Establishments with 500 to 999 | | 28 | 28 | 8 856 | 341 704 | 6 096 | 13 099 | 201 518 | 875 413 | 524 577 | 1 397 333 | 54 186 |
| employees | - | 12 | 12 | 7 199 | 264 287 | 5 249 | 10 913 | 157 169 | 697 732 | 482 437 | 1 163 146 | 47 825 |
| employees Establishments with 2,500 employees | - | 3 | 3 | 4 127 | 151 033 | 2 200 | 4 328 | 57 756 | 793 974 | 489 881 | 1 261 887 | 38 483 |
| or more | _ | _ | _ | _ | _ | _ | _ | _ | _ | = | _ | _ |
| Administrative records ² | 9 | 184 | _ | 1 324 | 38 092 | 993 | 1 782 | 26 433 | 87 214 | 64 155 | 151 985 | 5 341 |

¹Some 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 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.

²Some 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 | | All | All em | ployees | Pr | oduction work | ers | Value added | | | Total capital |
|--------------------------------------|---|--------------------------|--------------|----------------------|------------|------------------|--------------------|--------------------------------|-----------------------------|------------------------------------|--------------------------------|
| industry or product class code | Industry or primary product class | estab- lish- ments | Number | Payroll (\$1,000) | Number | Hours (1,000) | Wages (\$1,000) | by manufacture (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | expendi- tures (\$1,000) |
| 332912 | Fluid power valve & hose fitting mfg | 423 | 36 977 | 1 320 367 | 25 445 | 53 385 | 745 095 | 3 943 860 | 2 649 920 | 6 590 429 | 237 176 |
| 3329121 | Aerospace type hydraulic fluid power | | | | | | | | | | |
| 3329123 | valvesAerospace type pneumatic fluid | 23 | 4 291 | 177 328 | 2 162 | 4 373 | 73 496 | 485 891 | 315 688 | 789 794 | 30 929 |
| 3329125 | power valvesNonaerospace type hydraulic | 12 | 3 005 | 123 822 | 1 677 | 3 558 | 44 613 | 529 540 | 259 826 | 778 582 | 16 298 |
| | directional control valves | 15 | 2 434 | 94 013 | 1 761 | 4 001 | 56 955 | 276 100 | 196 684 | 475 402 | 18 703 |
| 3329127 | Nonaerospace type hydraulic valves, except directional control | 25 | 3 403 | 127 682 | 2 265 | 4 985 | 72 353 | 410 670 | 232 444 | 646 159 | 17 741 |
| 3329129 | Nonaerospace type pneumatic directional control valves | 20 | 3 648 | 131 711 | 2 617 | 5 566 | 72 844 | 381 148 | 262 301 | 679 003 | 25 919 |
| 332912B | Nonaerospace type pneumatic | | | | | | | | | | |
| 332912D 332912F | valves, except directional control Parts for fluid power valves Aerospace type hydraulic and | 8 5 | 1 191 449 | 42 302 13 316 | 795 268 | 1 535 529 | 21 387 6 324 | 116 681 52 160 | 54 478 30 500 | 171 247 82 145 | 5 858 2 855 |
| 332912H | pneumatic fluid power hose or tube end fittings and assemblies Nonaerospace type flared (metal) | 28 | 4 571 | 169 976 | 3 050 | 7 005 | 100 820 | 439 391 | 257 397 | 681 254 | 27 672 |
| 332912J | fittings, couplings for, and assemblies of tubing used in fluid power transfer systems | 15 | 2 047 | 62 695 | 1 617 | 3 443 | 43 874 | 192 448 | 110 807 | 299 978 | 12 039 |
| 332912L | fittings, used in fluid power transfer systems. Nonaerospace type hydraulic and pneumatic fittings and couplings for | 10 | 2 535 | 89 963 | 1 818 | 3 857 | 51 140 | 193 551 | 281 846 | 471 245 | 19 637 |
| 332912N | hose | 35 | 6 217 | 191 843 | 5 024 | 10 085 | 138 983 | 638 711 | 455 872 | 1 095 849 | 45 001 |
| 002312IN | pneumatic assemblies of hose | 14 | 1 203 | 36 730 | 891 | 1 676 | 21 766 | 94 150 | 99 462 | 193 032 | 6 816 |

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]

| | | | 19 | 97 | | 1992 | | | |
|------------------------|---|--|---|----------|--------------------|--|---|----------|--------------------|
| NAICS | | Number of | | Product | shipments | Number of | | Product | shipments |
| product code | Product | companies with shipments of \$100,000 or more | Quantity of production for all purposes | Quantity | Value (\$1,000) | companies with shipments of \$100,000 or more | Quantity of production for all purposes | Quantity | Value (\$1,000) |
| 332912 | Fluid power valves and hose fittings | N | х | x | 6 251 385 | N | x | x | N |
| 3329121 | Aerospace type hydraulic fluid power valves | N | х | x | 649 005 | N | x | х | N |
| 33291211 | Aerospace type hydraulic fluid power valves | N | x | x | 649 005 | N | x | х | N |
| 3329121100 | Aerospace type hydraulic fluid power valves | 57 | × | X | 649 005 | N | x | X | N |
| 3329123 | Aerospace type pneumatic fluid power valves @ | N | x | Х | 499 415 | N | x | х | N |
| 33291231 | Aerospace type pneumatic fluid power | | | | | | | | |
| 3329123100 | valves Aerospace type pneumatic fluid power valves | N 39 | X X | X X | 499 415 499 415 | N N | x x | X X | N N |
| 3329125 | Nonaerospace type hydraulic directional control valves @ | N N | X | x | 519 904 | N | x | x | 314 608 |
| 33291251 | Nonaerospace type hydraulic directional control valves | N | х | x | 519 904 | N | x | x | N |
| 3329125100 | Nonaerospace type hydraulic directional control valves | 54 | X | X | 519 904 | 64 | x | Х | 314 608 |
| 3329127 | Nonaerospace type hydraulic valves, except directional control @ | N | Х | х | 747 190 | N | x | х | 374 522 |
| 33291271 | Nonaerospace type hydraulic valves, except directional control | N | х | х | 747 190 | N | x | х | N |
| 3329127100 | Nonaerospace type hydraulic valves, except directional control | 52 | х | х | 747 190 | 52 | х | х | 374 522 |
| 3329129 | Nonaerospace type pneumatic directional control valves @ | N | x | х | 619 943 | N | х | х | 324 237 |
| 33291291 | Nonaerospace type pneumatic directional control valves | N N | х | x | 619 943 | N | x | x | N |
| 3329129100 | Nonaerospace type pneumatic directional control valves | 42 | X | x | 619 943 | 47 | x | x | 324 237 |
| 332912B | Nonaerospace type pneumatic valves, except directional control @ | N | х | х | 192 604 | N | x | х | 125 921 |
| 332912B1 | Nonaerospace type pneumatic valves, except directional control | N | х | х | 192 604 | N | x | х | N |
| 332912B100 | Nonaerospace type pneumatic valves, except directional control | 40 | х | х | 192 604 | 41 | х | х | 125 921 |
| 332912D | Parts for fluid power valves @ | N | X | Х | 208 956 | N | х | Х | 136 986 |
| 332912D1 332912D100 | Parts for fluid power valves | N 52 | X | X | 208 956 208 956 | N 65 | X | X | 136 986 |
| 332912F | Aerospace type hydraulic and pneumatic fluid power hose or tube end fittings and assemblies @ | N | X | x | 562 664 | N | x | x | N |
| 332912F1 | Aerospace type hydraulic and pneumatic fluid power hose or tube end fittings and | " | ^ | ^ | 302 304 | | | ^ | |
| 332912F100 | assemblies | N | Х | Х | 562 664 | N | X | Х | N |
| | pneumatic fluid power hose or tube end fittings and assemblies | 37 | х | x | 562 664 | N | х | Х | N |
| 332912H | Nonaerospace type flared (metal) fittings, couplings for, and assemblies of tubing used in fluid power transfer systems @ | N | Х | x | 346 784 | N | х | х | 189 688 |
| 332912H1 | Nonaerospace type flared (metal) fittings, couplings for, and assemblies of tubing | | | | | | | | |
| 332912H100 | used in fluid power transfer systems | N | Х | Х | 346 784 | N | X | Х | N |
| | systems | 28 | X | Х | 346 784 | 19 | х | X | 189 688 |
| 332912J | Nonaerospace type flareless fittings and couplings, including nonmetal fittings, used in fluid power transfer systems @ | N | х | х | 512 409 | N | х | х | 339 868 |
| 332912J1 | Nonaerospace type flareless fittings and couplings, including nonmetal fittings, | | _ | | | | | _ | |
| 332912J100 | used in fluid power transfer systems Nonaerospace type flareless fittings and couplings, including nonmetal fittings, used in fluid power transfer | N | Х | Х | 512 409 | N | X | Х | N |
| 0000101 | systems | 27 | Х | Х | 512 409 | 26 | X | Х | 339 868 |
| 332912L | Nonaerospace type hydraulic and pneumatic fittings and couplings for hose @ | N | х | х | 849 747 | N | х | х | 421 300 |
| 332912L1 | Nonaerospace type hydraulic and pneumatic fittings and couplings for hose. | N | х | x | 849 747 | N | x | х | N |
| 332912L100 | Nonaerospace type hydraulic and pneumatic fittings and couplings for | " | ^ | X | 0.0777 | | ^ | ^ | IN |

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]

| | | | 19 | 997 | | 1992 | | | |
|------------------------|--|----|---|-------------------|--------------------|--|---|-------------------|--------------------|
| NAICS | Product | | | Product shipments | | Number of | | Product shipments | |
| product code | | | Quantity of production for all purposes | Quantity | Value (\$1,000) | companies with shipments of \$100,000 or more | Quantity of production for all purposes | Quantity | Value (\$1,000) |
| 332912 | Fluid power valves and hose fittings—Con. | | | | | | | | |
| 332912N | Nonaerospace type hydraulic and pneumatic assemblies of hose @ | N | x | Х | 293 568 | N | x | Х | 238 550 |
| 332912N1 332912N100 | Nonaerospace type hydraulic and pneumatic assemblies of hose | N | x | Х | 293 568 | N | x | Х | N |
| 33291211100 | Nonaerospace type hydraulic and pneumatic assemblies of hose | 28 | x | Х | 293 568 | 29 | х | Х | 238 550 |
| 332912W | Fluid power valves and hose fittings, nsk, total | N | x | Х | 249 196 | N | х | Х | N |
| 332912WY 332912WYWW | Fluid power valves and hose fittings, nsk, total | N | x | х | 249 196 | N | х | Х | N |
| 332912WYWY | nsk, for nonadministrative-record establishments Fluid power valves and hose fittings, | N | x | Х | 107 004 | N | Х | Х | N |
| | nsk, for administrative-record establishments | N | x | х | 142 192 | N | Х | Х | N |

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 | Product class and geographic area | | duct shipments ,000) |
|------------------------|---|---|---|
| code | 3.00 | 1997 | 1992 |
| 3329121 | AEROSPACE TYPE HYDRAULIC FLUID POWER VALVES @ | | |
| | United States | 649 005 | N |
| | California Connecticut New York Ohio | 189 338 24 044 70 038 18 197 | N N N N |
| 3329123 | AEROSPACE TYPE PNEUMATIC FLUID POWER VALVES @ | | |
| | United States | 499 415 | N |
| | California Ohio . | 116 832 14 670 | N N |
| 3329125 | NONAEROSPACE TYPE HYDRAULIC DIRECTIONAL CONTROL VALVES @ | | |
| | United States | 519 904 | 314 608 |
| | California Connecticut Michigan Minnesota Nebraska Ohio Wisconsin | 4 629 6 440 8 160 55 184 15 367 87 306 92 786 | 9 546 N 3 677 N 6 540 46 799 39 587 |
| 3329127 | NONAEROSPACE TYPE HYDRAULIC VALVES, EXCEPT DIRECTIONAL CONTROL @ | | |
| | United States | 747 190 | 374 522 |
| | California Illinois Michigan Nebraska Ohio Wisconsin | 12 044 263 295 9 779 8 289 128 171 71 925 | 8 428 138 542 N N 37 341 13 489 |
| 3329129 | NONAEROSPACE TYPE PNEUMATIC DIRECTIONAL CONTROL VALVES @ | | |
| | United States | 619 943 | 324 237 |
| | California . Connecticut . Michigan . Ohio . Texas. | 7 657 32 591 260 896 37 691 7 352 | 2 685 N 133 264 14 639 N |

See footnotes at end of table.

[#] 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 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 | Product class and geographic area | Value of product shipments (\$1,000) | S |
|------------------------|---|--------------------------------------|------------------|
| code | | 1997 | 1992 |
| 332912B | NONAEROSPACE TYPE PNEUMATIC VALVES, EXCEPT DIRECTIONAL CONTROL @ | | |
| | United States | 192 604 | 125 921 |
| | California | 9 734 7 858 | , N |
| | Illinois | 31 922 | 6 409 21 921 |
| | New Jersey. Ohio | 2 271 28 780 | N 23 314 |
| 332912D | PARTS FOR FLUID POWER VALVES @ | | |
| | United States | 208 956 | 136 986 |
| | California | 22 514 14 612 | 39 050 N |
| | Connecticut | 9 106 | 4 424 |
| | Michigan Minnesota Minnesota | 60 535 8 403 | 29 099 3 405 |
| | New York | 8 433 | 9 983 |
| | Ohio Wisconsin | 17 663 16 143 | 7 436 5 424 |
| 332912F | AEROSPACE TYPE HYDRAULIC AND PNEUMATIC FLUID POWER HOSE OR TUBE END FITTINGS AND ASSEMBLIES @ | | |
| | United States | 562 664 | N |
| | California Connecticut | 149 798 49 110 | N N |
| 332912H | NONAEROSPACE TYPE FLARED (METAL) FITTINGS, COUPLINGS FOR, AND ASSEMBLIES OF TUBING USED IN FLUID POWER TRANSFER SYSTEMS @ | | |
| | United States | 346 784 | 189 688 |
| | Michigan | 89 171 | 43 220 90 020 |
| | Ohio Wisconsin | 152 509 9 246 | 90 020 N |
| 332912J | NONAEROSPACE TYPE FLARELESS FITTINGS AND COUPLINGS, INCLUDING NONMETAL FITTINGS, USED IN FLUID POWER TRANSFER SYSTEMS @ | | |
| | United States | 512 409 | 339 868 |
| | Ohio | 302 475 | 180 390 |
| 332912L | NONAEROSPACE TYPE HYDRAULIC AND PNEUMATIC FITTINGS AND COUPLINGS FOR HOSE @ | | |
| | United States | 849 747 | 421 300 |
| | California | 16 753 76 317 | 10.016 |
| | Illinois Indiana | 38 722 | 18 348 7 151 |
| | Ohio Pennsylvania | 256 459 36 415 | 153 063 N |
| | Wisconsin | 102 332 | Ň |
| 332912N | NONAEROSPACE TYPE HYDRAULIC AND PNEUMATIC ASSEMBLIES OF HOSE @ | | |
| | United States | 293 568 | 238 550 |
| | California. | 2 055 56 671 | 33 683 |
| | New Jersey. | 12 893 | 7 972 N |
| | Ohio | 71 660 18 842 | N 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 | | 19 | 97 | 19 | 92 |
|--|---|------------------|---|------------------|-------------------------------------|
| material code | Material consumed | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| 332912 | FLUID POWER VALVE & HOSE FITTING MFG | | | | |
| 33272203 | Metal bolts, nuts, screws, washers, rivets, and other screw machine | · · | | | |
| 332000AC 33290003 | products Metal stampings Valves, fittings, and couplings purchased for further assembly (except | X | 280 670 15 272 | XX | N 8 133 |
| 33200029 33151101 | forgings) Other fabricated metal products (except forgings) Iron castings (rough and semifinished). | X X X | 224 707 145 804 76 725 | X X X | 113 314 56 546 27 428 |
| 33151009 33152005 33152500 33152009 33211101 | Steel castings (rough and semifinished). Aluminum and aluminum-base alloy castings (rough and semifinished) Copper and copper-base alloy castings (rough and semifinished) Other nonferrous castings (rough and semifinished) Iron and steel forgings | X X X X | 11 845 56 154 4 667 31 809 43 418 | X X X X | 15 957 N 4 619 29 852 N |
| 33211201 33120007 | Nonferrous forgings | X | 41 982 | × | 16 367 |
| 33120017 33120033 | metal products) | X | 253 348 51 585 | X X | N N |
| 33141105 | metal products) | X | 53 671 | X | N |
| 00111100 | and fabricated metal products) | X | D | X | D |
| 33142105 | Copper and copper-base alloy rod, bar, and mechanical wire, including extruded and/or drawn shapes | X | D | × | 65 617 |
| 33142135 | Copper and copper-base alloy pipe and tube (except castings, forgings, and fabricated metal products) | X | 10 795 | × | 5 219 |
| 33142145 | All other copper and copper-base alloy shapes and forms (except castings, forgings, and fabricated metal products) | X | 33 286 | × | D D |
| 33100039 | Aluminum and aluminum-base alloy shapes and forms (except castings, forgings, and fabricated metal products) | X | 98 173 | × | 28 173 |
| 33100083 | Other nonferrous shapes and forms (except castings, forgings, and fabricated metal products) | X | 15 415 | × | 8 278 |
| 00190060 | Scrap, including iron, steel, aluminum and aluminum-base alloy (excluding | ^ | 15 415 | ^ | 0 270 |
| 33531227 | home scrap) Electric motors and generators less than 1 horsepower (less than 746 | X | 15 662 | x | 2 600 |
| 32221001 | watts) | X X | 3 634 19 955 | × | 9 005 21 800 |
| 32622003 | Hydraulic and pneumatic hose (without fittings), rubber and plastics inner tube type, wire or textile reinforced | × | | x | |
| 32622005 | Other rubber and plastics hose and belting . | x | 81 518 718 | î x | 104 825 626 |
| 33999103 32600017 32610011 00970099 00971000 | Gaskets (all types), and packing and sealing devices Fabricated rubber products, except tires, tubes, hose, belting, and gaskets Fabricated plastics products (except gaskets) All other materials and components, parts, containers, and supplies Materials, ingredients, containers, and supplies, n.s.k. | X X X X | 14 731 9 491 20 473 324 658 127 947 | X X X X | 10 597 5 403 8 254 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:

- 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.
- Cost of products bought and sold in the same condition.

- 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

1997 ECONOMIC CENSUS APPENDIX A A-1

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 companyoperated 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 companyowned assets was to be reported as assets of the establishment at the end of the year.

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

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.

1997 ECONOMIC CENSUS APPENDIX A A-5

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

332912 FLUID POWER VALVE AND HOSE FITTING MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing fluid power valves and hose fittings.

The data published with NAICS code 332912 include the following SIC industries:

3492 Fluid power valves and hose fittings 3728 Aircraft parts and equipment, n.e.c. (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:

 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.

MANUFACTURING APPENDIX C C-1

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.

C-2 APPENDIX C MANUFACTURING

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 SICbased 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.

MANUFACTURING APPENDIX C C-3

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

C-4 APPENDIX C MANUFACTURING

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, completecoverage value for specified percentages of all the possible samples).

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

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

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.

C-6 APPENDIX C MANUFACTURING

Appendix D. Geographic Notes

Not applicable for this report.

1997 ECONOMIC CENSUS APPENDIX D D-1

Appendix E. Metropolitan Areas

Not applicable for this report.

1997 ECONOMIC CENSUS APPENDIX E E-1

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

Part 1. Products Statistics (Tables 6a and 6b)

| NAICS product code | Footnote |
|--------------------|--|
| @3329121 | For additional detail, see Current Industrial Report MA333N, Fluid Power Products. |
| @3329123 | For additional detail, see Current Industrial Report MA333N, Fluid Power Products. |
| @3329125 | For additional detail, see Current Industrial Report MA333N, Fluid Power Products. |
| @3329127 | For additional detail, see Current Industrial Report MA333N, Fluid Power Products. |
| @3329129 | For additional detail, see Current Industrial Report MA333N, Fluid Power Products. |
| @332912B | For additional detail, see Current Industrial Report MA333N, Fluid Power Products. |
| @332912D | For additional detail, see Current Industrial Report MA333N, Fluid Power Products. |
| @332912F | For additional detail, see Current Industrial Report MA333N, Fluid Power Products. |
| @332912H | For additional detail, see Current Industrial Report MA333N, Fluid Power Products. |
| @332912J | For additional detail, see Current Industrial Report MA333N, Fluid Power Products. |
| @332912L | For additional detail, see Current Industrial Report MA333N, Fluid Power Products. |
| @332912N | For additional detail, see Current Industrial Report MA333N, Fluid Power Products. |

Part 2. Materials Consumed by Kind (Table 7)

Not applicable.

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

| Section Sect | 1997 published | 1997 collected | 1992 published | 1997 published | 1997 collected | 1992 published | 1997 published | 1997 collected | 1992 published |
|--|--------------------------|--------------------|--------------------|--------------------------------|----------------|----------------|--|--------------------|--------------------|
| Section Sect | 3321111 | | | | 3469989 | | | | |
| 32211111 | 3321111206 | | | 3321165361 | 3469971 | | 3322127111 | 3423621 | 3423621 |
| \$20,000 \$46,000 \$46,000 \$20,000 \$46,000 \$46,000 \$40, | 3321111311 | | | 3321165YWV | 3469900 | 3469900 | 3322127116 | 3423631 | 3423631 |
| \$2011 \$460 \$460 \$2021 \$46000 \$46000 \$2022 \$16000 \$79982 \$7998 | 3321111YWV | | | | 34690 pt | 34690 pt | 3322127131 | 3423681 | 3423681 |
| 2011 | 3321113 | 34626 | 34626 | | 3469000 pt | | | | |
| \$46000 \$ | 3321113101 | 3462611 | 3462611 | | | · | 3322127199 | 3423698 | 3423698 |
| 32211 1979 3462700 346270 32211 1970 346270 346270 346270 346270 346271 | 3321113111 | | 3462616 | · | · | · | | | |
| 32011 (16) 34677 346770 346770 320117011 346656 346666 32011707W 346770 346770 346770 320117010 3466701 3466710 320117010 3466701 3466710 320117010 3466701 3466701 320117010 3466701 3466701 320117010 3466701 3466701 320117010 3466701 3466701 320117010 3466701 3466701 320117010 3466701 3466701 320117010 3466701 34 | 3321113YWV | 3462600 | 3462600 | 3321170106 | 3499633 | | 3322127YWV pt | 3524100 pt | 3524100 pt |
| 32211100.0 346270.0 346270.0 3221170401 349811 349811 349811 3521120 352020 352020 352011770.0 346281 3462812 33211707047 3498000 3402810 332212010.5 354511 354511 352017170.0 3462811 3462812 33211707047 3498000 3402810 34 | | | | 3321170211 | 3499655 | | | • | |
| Section Sect | 3321115106 | 3462716 | | 3321170401 | 3499611 | | | 35455 | 35455 |
| 1965 1966 | 3321115YWV | 3462700 | 3462700 | | | | 3322129 pt | | |
| 322111700, 342816 342616 322111700, 34200 322111700, 34211 3221111 32211 | 3321117 | | | 3321170YWW pt | 3499000 pt | 3499000 pt | 3322129106 | 3545513 | 3545513 |
| 32211 W. 94600 34200 332211 pt 3211 pt 3211 pt 3221 pt | 3321117106 | | | | | | 3322129111 | 3545515 3545517 | |
| 32211 (PVWW) 3460000 3460000 3460000 3460000 3460000 3460000 3460000 3460000 3460000 3460000 3460000 3460000 3460000 3460000 3460000 3460000 3460000 346000 | | 3462800 | 3462800 | | • | · | 3322129121 | 3545521 | 3545521 |
| 322119/WWY 346300 346307 32211101 33440 3211101 3221204 3221204 354577 3545077 3545077 32212101 346327 346357 3463 | 332111W | | | · | | | 3322129126 | 3545565 | |
| 322112101 346550 346550 332211101 3421404 394470 pt 32212040 3545779 3545779 352121111 342525 3465525 332211101 342110 3421101 3421204 3445525 3465525 3465525 332211101 342110 342120 3421204 3445525 3465525 3465525 3421101 3421101 342120 3421204 342120 3 | 332111WYWY | | | 3322111 pt | 39141 pt | 39141 pt | 3322129146 | 3545577 | 3545577 |
| 322112101 | 3321121 | | | 3322111 pt | 39142 pt | | 3322129236 | 3545571 | 3545571 |
| 32211271W 346300 346520 332211720 32211720 32212W pt 350920 pt 350 | 3321121101 | | | 3322111103 | 3914245 | 3914270 pt | 3322129341 | | |
| 3221127WW 346500 346300 322113131 3221155 32212W pt 35230 pt 35230 pt 35230 pt 35211220 3463915 3463910 3463915 3463910 3463915 3463910 3463915 3463910 346391 | 3321121311 | 3463525 | 3463525 | | 3914155 | 3914170 pt | 3322129YWV pt | 3545500 | 3545500 |
| 32211222. 34639 34639 332211336 3421157 3421157 332212Vpt 3520 pt 3520 pt 3520 pt 352112706 3463915 3463915 3463915 3421150 344881 34 | 3321121316 3321121YWV | | | 3322111222 | 3421130 | 3421130 | | • | |
| 332112/01 | | | | 3322111326 | 3421153 | | 332212W pt | 34230 | 34230 |
| 3221121/1 3463935 346390 34711/W P 34710 3 | 3321122101 | 3463915 | 3463915 | 3322111336 | 3421157 | 3421157 | 332212W pt | 35230 pt | 35230 pt |
| 332112WWW 346300 346300 332211WW pt 342100 32212W pt 36990 pt 36990 pt 332112WWW 346300 346300 332211WW pt 346300 332212W pt 36990 pt 36990 pt 332112WWW 346300 346300 332211311 342105 342105 332212W pt 37990 pt 37990 pt 3321140 pt 34690 pt 34690 pt 34690 pt 34690 pt 32211311 342105 342105 342216 332212W pt 37990 pt 37990 pt 3221140 pt 34690 pt 34690 pt 34690 pt 32211311 342105 342105 342216 332212W pt 37990 pt 3221140 pt 34690 pt 34690 pt 32211311 3421216 3421216 332212W pt 34690 pt 34690 pt 32211311 3421216 3421216 34221216 3422120 pt 34690 pt 3 | | | | 3322111455 | | | 332212W pt | 35240 pt | 35240 pt |
| 3321140/WW 346300 346300 32211310 32212 34210 332212W pt. 36990 pt 36990 pt 3291311 342100 342101 344801 34 | | | | 3322111YWV pt | | | 332212W pt | 35450 pt | 35450 pt |
| 3321140PW 3469002 3469002 3322113101 3421206 3421210 332212W Pt 37990 pt 39990 pt 332140 pt 34490 pt 332213110 3421216 3421216 3421210 332212W pt 342900 342200 332212W pt 342900 342200 3322140 pt 342900 342200 34 | 332112W | | | · | | · | 332212W pt | 36990 pt | 36990 pt |
| 3221140 P. 34490 pt 332213116 3421216 3421216 332212W J 39800 pt 39800 pt 39800 pt 32214016 3421 | | | 3463000 3463002 | | | | | · | |
| 3321140 Pt. 34498 34498 34498 34210 342100 342100 342100 32210 WWW pt. 342000 342000 pt 332140026 3449811 3449811 3449813 342911 9t 34210 34210 332212 WWW pt. 3322000 pt 3323000 pt 332140026 3449813 3449815 3449815 3449815 3449815 3449815 3449815 3449815 3449815 3449815 3449815 3449816 33221 WWW pt. 342000 pt. 3524000 pt. 352400 | | | | 3322113106 | 3421210 | 3421210 | | · | |
| 3321140010 3448811 3448811 3448811 332211W pt. 34210 34210 332212WWW pt. 352000 pt. 3545000 pt. 354500 | · | · | • | 3322113YWV | 3421200 | | 332212W pt | | |
| 3221140011 3448915 3448915 32221W p. 39140 p. 38140 p. 32222WVW pt 3545000 pt 3545000 pt 322140VW pt 344500 pt 344500 pt 32214VWW pt 344500 pt 34500 pt 32214VWW pt 344500 pt 34500 pt 345 | 3321140101 | 3449811 | 3449811 | 332211W pt | 34210 | 34210 | 332212VV Y VV VV pt | 3523000 pt | |
| 3321140416 3449817 3449817 3449817 332211WYWW pt 342100 342100 342100 342100 pt 399000 pt 399000 pt 3421000 pt 342100 pt 342100 pt 399000 pt 342100 pt 34210 pt 3 | 3321140311 | 3449815 | | | | | 332212WYWW pt | 3545000 pt | 3545000 pt |
| 3321140/WW pt 3449800 3449800 332211W/W pt 3421002 pt 3421002 pt 332212W/WW pt 349900 pt 349900 pt 3322118U pt 346800 3322119L 34231 34231 34231 332212W/W pt 345002 pt 3554002 | | | | 332211WYWW pt | 3421000 | 3421000 | 332212WYWW pt | 3699000 pt | |
| 3321150 pt. 34660 34661 322121 pt. 39999 pt 392140VVV pt 3522002 pt 3523002 pt 3523000 pt 352300 pt 3523 | 3321140YWW pt | 3449800 | 3449800 | 332211WYWV pt | 3914000 pt | | 1 332212\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | 3999000 pt | 3999000 pt |
| 3321150 pt. 34661 34661 34661 322121 pt. 39290 pt 332212W/WY pt 352002 pt. 3545002 pt. 3545002 pt. 3321150 pt. 34661 34661 34661 322121 pt. 3999 pt. 3321150 pt. 3466105 3466105 3466105 342610 342211 342311 342311 332212W/WY pt. 3545002 pt. 3545002 pt. 3321150 pt. 3466105 3466105 3466105 342610 342211 342311 342311 332212W/WY pt. 359002 pt. 3799002 pt. 3221150 pt. 3466105 3466105 3426100 332212106 342311 342311 342311 332213W/WY pt. 399902 pt. 3999002 pt. 3221150103 pt. 3466200 pt. 3466230 3322121351 342314 342314 3322130 34250 34250 3321150103 pt. 3466230 st. 322121351 342314 342314 3322130 34250 34250 3321150103 pt. 3466230 3322121351 342315 342315 33213010 342501 342501 342511 342315 342315 342315 342315 342315 342315 342315 342315 342315 342315 342315 342315 342315 342315 342315 342315 342315 342315 342315 342511 342315 342315 342315 342315 342510 542510 342511 342511 342315 342515 342315 342515 342315 342516 342315 342516 342315 342516 342315 342516 342315 342516 3 | | · | · | 332211WYWY pt | 3914002 pt | 3914002 pt | 1 332212WYWY nt | 3523002 pt | |
| 3321150 pt. 34662 34662 332212101 342311 33221133 332212WWY pt 3789002 pt 3789002 pt 339150101 3466105 3466105 33221206 3423113 3423113 332212WWY pt 3789002 pt 3789002 pt 33915010 pt 3466200 pt 3466200 332212101 342311 3423113 332213WWY pt 3899002 pt 3999002 pt 3321150103 pt 3466200 pt 3466230 332212551 342311 3423111 3322130101 342501 342501 342501 342501 342501 pt 3466230 332212551 342315 342314 342314 3322130101 342501 342501 342501 342501 pt 3466230 pt 3466230 332212551 342315 342314 342314 3322130101 342501 342501 342501 342501 pt 346620 pt 3466230 332212551 342315 342315 342315 342315 342510 pt 346620 pt 346622 332212355 342315 342315 342315 342510 pt 346610 3466100 332212339 3423197 399909 pt 3322130116 3425016 3425018 3425018 342515 | · | | | 3322121 pt | 34231 | 34231 | 332212WYWY pt | 3524002 pt | |
| 3321150/101 3466105 3466105 3322121206 3423113 3423121 33221200. 342510 342501 3425101 | · | | | | 39999 pt | | 332212WYWY pt | 3699002 pt | 3699002 pt |
| 3321150103 pt | 3321150 pt | | | | 3423112 | | 332212WYWY pt | 3799002 pt | |
| 3321150103 pt 3466200 pt 346623 | 3321150103 pt | 3466200 pt | 3466200 | 3322121311 | 3423121 | 3423121 | | • | |
| 3321150106 pt 3466123 pt 3466122 3322121361 3423155 3423155 3421310 3423115 3425116 3425016 3425016 3321150106 pt 3466123 pt 3466102 3322121399 3423197 399999 pt 332213011 3425013 3425016 3425016 3425016 3425016 3425017 342511 342313 | | | | | 3423141 | | 3322130101 | 3425011 | 3425011 |
| 3321150YWW pt 3466000 3426100 3322121399 3423197 3423107 3322130116 3425018 3425018 3425018 3425019 3425011 3425011 346602 346602 346602 3425021 3423133 3322130226 3425035 3425035 3425036 34 | 3321150106 pt | 3466123 pt | 3466120 | 3322121361 | 3423155 | 3423155 | | | 3425013 3425016 |
| 3321150YW pt | 3321150YWW pt | 3466000 | 3466000 | 3322121399 | 3423197 | 3423197 | 3322130116 | 3425018 | 3425018 |
| 3321161. 34692. 34692. 3322121426. 3423136. 3423136. 3322130231. 3425036. 3425036. 332161101. 3469201. 3469201. 3322121426. 3423138. 3423137. 3322130244. 3425039. 3425039. 332161115. 3469215. 3469205. 3469205. 3322121443. 3423139. 3423138. 3322130244. 3425039. 3425034. 332161311. 3469211. 3469211. 33221217444. 3423139. 3423139. 3322130365. 3425041. 332161311. 3469231. 3469231. 33221217474. 3423100. 3423100. 3423100. 3322130365. 3425043. 3425043. 332161335. 3469252. 3469253. 3469263. 3 | 3321150YWW pt | | | | 3423131 | | 3322130226 | 3425031 | 3425031 |
| 3321161101 | | | | | | | 3322130231 | 3425035 | 3425035 |
| 3321161321 3469205 3469205 3469205 3322121YWV pt 3423100 3423100 3322130361 3425043 3425043 3321161331 3469231 3469231 3322121YWV pt 3423100 3499900 pt 3999900 pt 3322130365 3425045 3425045 3425049 3321161352 3469252 3469252 3469253 3469253 3469253 3469253 3469253 3469253 3469253 3469263 3425049 3425000 34250 | 3321161101 | 3469201 | 3469201 | 3322121431 | 3423137 | 3423137 | 3322130244 | 3425039 | 3425039 |
| 3321161331 | 3321161205 | 3469215 3469205 | | | | | | | |
| 3321161352 3469252 3469252 3469252 3469253 3322123 pt. 34234 34234 3322130777 3425049 3425000 3425000 3321161388 3469288 3469288 3469288 3322123 pt. 3523E pt. 3523E pt. 3523E pt. 33221307WW 3425002 3425002 3321161398 3469298 3469298 3322123 pt. 3523E pt. 346941 3469411 3469411 3469411 3469411 3469411 3469411 3469411 3469411 3469417 3469417 3469417 3469417 3469417 3469419 3469400 3321161571 3469271 3469271 33221237WV pt. 3423400 3423400 3322141291 3469400 332214161571 3469501 3469400 3469400 3469400 332212506 3423511 3423511 3423511 3322143231 3469515 3469501 3 | 3321161311 | 3469211 | 3469211 | 3322121YWV pt | 3423100 | 3423100 | | | |
| 3321161354 | 3321161352 | 3469252 | 3469252 | | | · | 3322130377 | 3425049 | 3425049 |
| 3321161398 3469298 3469298 3469298 3322123 pt. 3523E pt. 3523E pt. 3321161398 3469298 346920 3322123 pt. 3523E pt. 3423414 3423414 3423414 3423414 3423414 3322141111 3469411 3469411 3469411 3322123106 3423433 3423433 3322141111 3469411 3469411 3469411 3322123106 3423433 3423444 3322141111 3469411 3469411 3469411 3469411 3322123111 3423444 3423444 332214121 3469414 3469417 332116525 346925 332212312 3423498 3423498 3322141231 3469417 3469417 332116151 3469261 3469261 3322123216 3523E80 3523E80 3523E00 pt 3322141241 3469429 3469429 332116151 346927 3469400 3322123114 3469400 3423400 3322141241 3469429 3469429 3321161584 3469284 3322123YWy pt 3523E00 pt 3523E00 pt 332214321 3469400 3469400 3321161584 3469200 3469200 3469200 3322125310 3423510 3423510 3322143211 3469507 3469507 3321163100 3469600 3469600 3322125101 3423511 3423511 3322143211 3469509 3469509 3321163100 3469600 3469600 3322125311 3423512 3423512 3322143211 3469505 3469505 3321165101 3469941 3322125316 3423522 342352 3322143211 3469555 pt 3469524 3321165211 3469948 3469948 3322125333 342351 342351 342351 3322143241 pt 3469555 pt 3469527 3321165221 3469951 3469951 3469950 3469509 3321165221 3469951 3469951 3469509 3469509 3321165221 3469951 3469959 3469959 3469959 3469950 3321165221 3469951 3469959 3469959 3469959 3469959 3469959 3469969 332212579W 342360 342360 3322143241 pt 3469950 3469000 pt | 3321161354 | 3469253 | 3469253 | 3322123 pt | 34234 | 34234 | 3322130YWW 3322130YWY | | |
| 3321161441 3469241 3469241 3469241 3423444 3423444 3423444 3322143211 3469414 3469414 3469417 3321161525 346925 3469225 3322123121 3423498 3423498 3322141231 3469417 3469417 3469417 3321161561 3469261 3469261 3322123216 3523E80 3523E00 pt 3322141241 3469429 3469429 3469429 3321161564 3469271 3469271 33221237WV pt 3523E00 pt 3322161054 3469260 3469200 3469200 3469200 3469200 3469200 3469200 3469200 3469200 346960 346960 346960 3322125101 3423511 3423511 3322143211 3469507 3469507 3469507 3321163.00 3469600 3469600 3322125206 3423512 342351 342351 3322143211 3469509 3469509 3321163100 3469600 346990 3322125206 3423512 342351 342351 3322143211 3469509 3469509 3469515 3469515 3469515 3469515 3469515 3469515 3469510 3469941 3469941 3322125316 3423522 3423522 3423521 3322143231 pt 3469525 pt 3469524 3321165211 3469948 3469948 3429521 3423511 3423511 3423511 3423511 3423511 3423511 3423511 3423511 3423511 3423511 3423511 3423511 3423511 3423511 3423511 3469541 3469951 3469527 3321165211 3469948 3469948 3322125333 342351 342351 3322143241 pt 3469599 pt 3469527 3321165211 3469951 3469959 3469959 3469959 3469959 3469959 3469959 3469959 3469959 3469969 33221257 pt. 34236 34236 3322143241 pt 346950 pt 3469500 pt 3321165211 3469961 3469969 3469969 33221257 pt. 34236 34236 3322143241 pt 346950 pt 346950 pt 346900 pt 3321165211 3469961 3469969 3469969 | 3321161398 | 3469298 | 3469298 | | 3523E pt | | | | |
| 3321161441 3469241 3469241 3469241 3423444 3423444 3423444 3322143211 3469414 3469414 3469417 3321161525 346925 3469225 3322123121 3423498 3423498 3322141231 3469417 3469417 3469417 3321161561 3469261 3469261 3322123216 3523E80 3523E00 pt 3322141241 3469429 3469429 3469429 3321161564 3469271 3469271 33221237WV pt 3523E00 pt 3322161054 3469260 3469200 3469200 3469200 3469200 3469200 3469200 3469200 3469200 346960 346960 346960 3322125101 3423511 3423511 3322143211 3469507 3469507 3469507 3321163.00 3469600 3469600 3322125206 3423512 342351 342351 3322143211 3469509 3469509 3321163100 3469600 346990 3322125206 3423512 342351 342351 3322143211 3469509 3469509 3469515 3469515 3469515 3469515 3469515 3469515 3469510 3469941 3469941 3322125316 3423522 3423522 3423521 3322143231 pt 3469525 pt 3469524 3321165211 3469948 3469948 3429521 3423511 3423511 3423511 3423511 3423511 3423511 3423511 3423511 3423511 3423511 3423511 3423511 3423511 3423511 3423511 3469541 3469951 3469527 3321165211 3469948 3469948 3322125333 342351 342351 3322143241 pt 3469599 pt 3469527 3321165211 3469951 3469959 3469959 3469959 3469959 3469959 3469959 3469959 3469959 3469969 33221257 pt. 34236 34236 3322143241 pt 346950 pt 3469500 pt 3321165211 3469961 3469969 3469969 33221257 pt. 34236 34236 3322143241 pt 346950 pt 346950 pt 346900 pt 3321165211 3469961 3469969 3469969 | | | | 3322123106 | 3423433 | 3423433 | 3322141111 | 3469411 | 3469411 |
| 3321161561 3469261 3469261 3322123216 3522E80 3523E00 pt 3322141241 3469429 3469429 3321161571 3469271 3469271 33221237WV pt 3423400 3423400 33221417WV 3469400 3469400 3321161584 3469284 3469200 3469200 3469200 3469200 3469600 346960 33221255101 3423511 3423511 3322143211 3469507 3469507 3321163.00 3469600 3469600 332212506 3423512 342351 342351 3322143211 3469509 3469509 3321165101 3469961 3469961 3322125311 3423512 342351 3322143211 3469509 3469501 3469515 3469515 3469515 3469515 3469511 3469511 3469515 3469515 3469515 3469511 | 3321161441 3321161525 | 3469241 | | | 3423444 | | 3322141231 | 3469414 3469417 | |
| 3321161584 3469284 3469284 3469284 33221237WV pt. 3523E00 pt. 3523E00 pt. 33221433. 34695 34695 3321161YW 3469200 3469200 3322125. 34235 34235 3322143101 3469507 3469507 3321163. 346960 3469600 3322125101 3423511 3423511 3322143211 3469509 3469509 3321165. 34699 346990 346990 346991 3469521 342351 342351 3322143211 3469515 3469521 3321165. 3469941 3469941 3322125316 342352 342352 342352 3322143231 pt. 346952 pt. 3469524 3321165211 3469948 3469948 3469948 3469948 3469948 3469948 3469949 346950 346950 346950 346950 346950 346950 346950 346950 346950 346950 346950 346950 346950 346950 346900 pt | 3321161561 | 3469261 | 3469261 | 3322123216 | 3523E80 | 3523E00 pt | 3322141241 | 3469429 | 3469429 |
| 3321163. 34696 34696 346960 346960 32125101 3423511 3423511 3322143211 3469509 3469509 3321163100 3469600 3469600 32125206 3423512 3423512 3322143221 3469515 3469515 321165. 34699 34699 34699 3322125311 3423521 3423521 3322143231 pt 3469525 pt 3469521 3321165.101 3469941 3469941 3322125316 3423522 342352 3322143231 pt 3469525 pt 3469524 3321165101 3469941 3469941 3322125321 342351 3423521 342351 332143231 pt 3469525 pt 3469524 3321165211 3469948 3469948 3322125331 3423531 3423531 3322143241 pt 3469599 pt 3469527 3321165221 3469951 3469951 3469959 3322125333 3423541 3423500 3321165221 346959 3469959 3469969 3322145241 346969 3469969 | 3321161584 | 3469284 | 3469284 | 3322123YWV pt 3322123YWV pt | 3423400 | | | | |
| 3321163.1 34696 34696 34696 346960 346960 3322125101 3423511 3423511 3322143211 3469509 3469509 3321163100 3469600 3469600 3322125206 3423512 3423512 3322143221 342351 3469515 3469515 3469515 3322145210 3423512 3423521 3322143231 pt 3469525 pt 3469521 3321165101 3469941 3322125316 3423522 3423522 3322143231 pt 3469525 pt 3469524 3321165101 3469948 3469948 3322125312 3423531 3423531 3423531 3322143241 pt 3469599 pt 3469527 3321165211 3469948 3469948 3322125333 3423541 3423541 3322143241 pt 3469599 pt 3469598 3321165221 3469951 3469959 3469959 3469959 3469959 3469959 3469959 3469959 3469969 3469969 3469969 3469969 346900 pt 3469000 pt | 3321161YWV | 3469200 | 3469200 | · | · | • | 3322143101 | 34695 | |
| 3321165 34699 3469 34 | | 34696 | | 3322125101 | 3423511 | 3423511 | 3322143211 | 3469509 | 3469509 |
| 3321165 34699 34699 34699 34699 34699 346952 346959 346959 346959 346959 346959 346959 346950 346950 346950 346990 346990 346990 346990 346990 346900 | | | | 3322125206 | 3423512 | | 3322143231 pt | 3469525 pt | |
| 332116521 3469948 3469948 3469948 322125333 3423541 3423541 3322143241 pt 3469599 pt 3469598 321165221 3469959 3469959 3469959 321165231 3469961 3469961 3469961 3469961 3321165251 3469969 3469969 3469969 3469969 346900 pt 3469000 pt | 3321165 | | | 3322125316 | 3423522 | 3423522 | 3322143231 pt | 3469525 pt | 3469524 |
| 3321165221 3469951 3469951 3469951 3469951 3469500 3469500 3469500 3469500 3321165231 3469501 3469961 3469961 3469969 3469969 3469969 3469969 346900 pt 346900 pt 3469000 pt | 3321165211 | 3469948 | 3469948 | 3322125333 | 3423541 | 3423541 | 3322143241 pt | 3469599 pt | 3469598 |
| 3321165241 3469961 3469969 332127 pt 34236 34236 332214W 34690 pt 346900 pt 346900 pt 346900 pt 346900 pt 346900 pt | 3321165231 | | | 3322125YWV | | | 3322143YWV | 3469500 | |
| 3321165271 3469985 3469985 3322127 pt 35241 pt 35241 pt 3469002 pt | 3321165241 | 3469961 | 3469961 | 3322127 pt | 34236 | 34236 | 332214W | | |
| | | | | 3322127 pt | 35241 pt | 35241 pt | 332214WYWY | | |

| 1997 published | 1997 collected | 1992 published | 1997 published | 1997 collected | 1992 published | 1997 published | 1997 collected | 1992 published |
|--|-----------------------------------|----------------------------------|---|-----------------------------------|-----------------------------------|---|--|-------------------------------------|
| 3323111 3323111106 | 34481 3448117 | 34481 3448117 | 3323213251 3323213306 | 3442298 3442221 | 3442298 3442221 | 3323233YWV pt 3323233YWV pt | 3446200 3449600 | 3446200 3449600 |
| 3323111111 3323111201 3323111YWV | 3448118 3448115 3448100 | 3448118 3448115 3448100 | 3323213YWV 3323215 pt | 3442200 | 3442200 24991 pt | 3323235 3323235101 | 34463 3446310 | 34463 3446310 |
| 3323113 3323113101 | 34482 | 34482 3448211 | 3323215 pt | 34423 | 34423 | 3323235106 3323235211 | 3446312 3446320 3446322 | 3446312 3446320 3446322 |
| 3323113106 3323113111 | 3448214 3448215 | 3448214 3448215 | 3323215 pt 3323215101 pt 3323215101 pt | 34497 | 34497 3442321 3449773 | 3323235216 3323235YWV 3323237 | 3446300 | 3446300 34464 |
| 3323113216 3323113221 3323113226 | 3448216 | 3448216 3448217 3448218 | 3323215106 pt 3323215106 pt | 2499141 | 2499141 3442325 | 3323237101 3323237106 | 3446410 3446413 | 3446410 3446413 |
| 3323113231 3323113236 | 3448226 3448227 | 3448226 3448227 | 3323215106 pt 3323215111 pt 3323215111 pt | 3449775 3442351 3449779 | 3449775 3442351 3449779 | 3323237111 3323237116 3323237YWV | 3446416 3446418 3446400 | 3446416 3446418 3446400 |
| 3323113241 3323113YWV | 3448254 3448200 | 3448254 3448200 | 3323215YWV pt 3323215YWV pt 3323215YWV pt | 2499100 pt | 2499100 pt 3442300 3449700 | 3323239 pt | 34465 | 34465 |
| 332311W | 34480 | 34480 3448000 3448002 | 3323217 3323217101 | 34424 3442411 | 34424 3442411 | 3323239 pt 3323239106 3323239111 | 3523E pt | 3523E pt 3446512 3446530 |
| 3323121 pt | 34411 | 34411 | 3323217106 3323217111 | 3442412 3442413 | 3442412 3442413 | 3323239201 3323239311 | 3446510 3523E84 | 3446510 3523E00 pt |
| 3323121 pt 3323121101 pt 3323121101 pt | 34494 | 34494 3441141 3449443 | 3323217YWV | 3442400 | 3442400 34425 | 3323239YWV pt 3323239YWV pt | 3446500 3523E00 pt | 3446500 3523E00 pt |
| 3323121206 pt 3323121206 pt | 3441142 3449447 | 3441142 3449447 | 3323219101 | 3442511 3442512 3442551 | 3442511 3442512 3442551 | 332323W pt | 34460 | 34460 34490 pt |
| 3323121211 pt 3323121211 pt 3323121216 | 3441143 | 3441143 3449452 3441144 | 3323219YWV | 3442500 | 3442500 24990 pt | 332323W pt 332323WYWW pt | 35230 pt | 35230 pt 3446000 |
| 3323121221 3323121226 3323121231 | 3441146 3441147 3441171 | 3441146 3441147 3441171 | 332321W pt | 34420 | 34420 | 332323WYWW pt 332323WYWW pt 332323WYWY pt | 3449000 pt 3523000 pt 3446002 | 3449000 pt 3523000 pt 3446002 |
| 3323121YWV pt 3323121YWV pt | 3441100 3449400 | 3441100 3449400 | 332321W pt 332321WYWW pt 332321WYWW pt | 34490 pt 2499000 pt 3442000 | 34490 pt 2499000 pt 3442000 | 332323WYWY pt 332323WYWY pt | 3449002 pt 3523002 pt | 3449002 pt 3523002 pt |
| 3323123 3323123100 | 34412 3441200 | 34412 3441200 | 332321WYWW pt 332321WYWY pt | 3449000 pt | 3449000 pt 2499002 pt | 3324101 3324101101 | 34431 | 34431 3443113 |
| 3323125 3323125106 | 34413 | | 332321WYWY pt 332321WYWY pt | 3442002 3449002 pt | 3442002 3449002 pt | 3324101206 3324101311 3324101YWV | 3443118 3443155 3443100 | 3443118 3443155 3443100 |
| 3323125111 3323125116 3323125121 | 3441326 | 3441323 3441326 3441329 | 3323221 3323221101 3323221106 | 34441 | 34441 3444121 3444123 | 3324105 3324105101 | 34433 3443308 | 34433 3443308 |
| 3323125126 3323125131 3323125136 | 3441359 | 3441359 3441384 3441398 | 3323221211 3323221216 3323221YWV | 3444127 3444129 3444100 | 3444127 3444129 3444100 | 3324105106 pt 3324105106 pt | 3443331 pt | 3443310 3443319 3443315 |
| 3323125136 3323125201 3323125YWV | 3441316 | 3441316 | 3323223 | 34442 | 34442 | 3324105111 pt 3324105111 pt 3324105126 pt | 3443332 pt 3443332 pt 3443333 pt | 3443324 3443326 |
| 332312W pt | | 34410 34490 pt | 3323223101 3323223106 3323223111 | 3444213 | 3444213 3444215 3444219 | 3324105126 pt 3324105131 pt 3324105131 pt | 3443333 pt 3443336 pt 3443336 pt | 3443330 3443328 3443334 |
| 332312W pt | 34490 pt 3441000 3449000 pt | 3441000 3449000 pt | 3323223YWV | 3444200 34444 | 3444200 34444 | 3324105146 3324105151 pt | 3443339 | 3443335 3443337 |
| 332312WYWY pt 332312WYWY pt | 3441002 3449002 pt | 3441002 3449002 pt | 3323227101 3323227206 3323227211 | 3444411 3444417 3444423 | 3444411 3444417 3444423 | 3324105151 pt 3324105161 pt 3324105161 pt | 3443342 pt | 3443340 3443341 3443344 |
| 3323130 pt | 34430 pt | 34430 pt 34432 pt | 3323227216 3323227221 3323227YWV | 3444429 3444431 3444400 | 3444429 3444431 3444400 | 3324105171 pt 3324105171 pt | 3443343 pt 3443345 pt 3443345 pt | 3443346 3443347 |
| 3323130111 3323130116 3323130121 | 3443244 | 3443244 3443246 3443248 | 3323229 3323229106 | 34445 | 34445 3444516 | 3324105181 3324105186 3324105291 | 3443348 3443351 3443352 | 3443348 3443351 3443352 |
| 3323130226 3323130231 3323130236 | 3443252 3443254 3443256 | 3443252 3443254 3443256 | 3323229111 3323229116 | 3444517 | 3444517 3444518 | 332410W 332410W 332410WYWW | 3443300 | 3443300 34430 pt |
| 3323130301 3323130346 | 3443221 3443299 | 3443221 3443298 pt | 3323229121 3323229201 3323229YWV | 3444519 3444505 3444500 | 3444519 3444505 3444500 | 332410WYWY | 3443000 pt | 3443000 pt 3443002 pt |
| 3323130406 3323130YWW pt 3323130YWW pt | | 3443236 3443000 pt 3443200 | 332322A 332322A101 | 34447 3444721 | 34447 3444721 | 3324207 3324207101 3324207106 | 34434 | 34434 3443414 3443416 |
| 3323130YWY | 34421 | 3443002 pt 34421 | 332322A106 | 3444725 | 3444725 3444731 3444741 | 3324207YWV | 3443400 | 3443400 34435 |
| 3323211110 3323211113 3323211116 | 3442111 | 3442111 3442116 3442119 | 332322AYWV | 3444700 34448 | 3444700 34448 | 3324209101 3324209106 | 3443520 3443535 | 3443520 3443535 3443542 |
| 3323211119 3323211201 | 3442121 3442105 | 3442121 3442105 | 332322C101 | 3444811 | 3444811 3444813 3444819 | 3324209111 3324209YWV | 3443542 3443500 | 3443500 |
| 3323211204 3323211207 3323211222 | 3442109 3442122 | 3442109 | 332322C311 332322CYWV | 3444819 | 3444800 34449 | 332420A 332420A100 | 34436 | 34436 3443600 |
| 3323211225 3323211328 | | 3442123 3442124 | 332322E101 332322E106 | 3444931 | 3444931 3444941 | 332420C 332420C101 332420C106 | 34437 3443712 3443715 | 34437 3443712 3443715 |
| 3323211331 3323211334 3323211440 | 3442125 3442126 3442128 | 3442125 3442126 3442128 | 332322E211 332322E321 332322E326 | 3444953 3444955 3444962 | 3444953 3444955 3444962 | 332420C111 332420C116 332420C121 | 3443717 3443719 3443748 | 3443717 3443719 3443748 |
| 3323211443 3323211446 | 3442130 3442131 | 3442130 3442131 | 332322E331 332322E336 332322EYWV | 3444965 3444998 3444900 | 3444965 3444998 3444900 | 332420C126 332420CYWV | 3443750 3443700 | 3443750 3443700 |
| 3323211549 3323211552 3323211555 | 3442132 3442134 3442136 | 3442132 3442134 3442136 | 332322W | 34440 pt | 34440 pt 3444000 pt | 332420E 332420E101 | 34438 | 34438 3443803 |
| 3323211661 3323211664 | 3442142 3442143 | 3442142 3442143 | 332322WYWY 3323231 | 3444002 pt | 3444002 pt 34461 | 332420E106 332420E211 332420E216 | 3443805 3443808 3443813 | 3443805 3443808 3443813 |
| 3323211667 3323211758 3323211770 | 3442144 3442139 3442145 | 3442144 3442139 3442145 | 3323231106 3323231111 | 3446112 | 3446112 3446115 | 332420E221 332420E226 332420EYWV | 3443820 3443822 3443800 | 3443820 3443822 3443800 |
| 3323211770 3323211837 3323211YWV | 3442127 3442100 | 3442127 3442100 | 3323231116 3323231201 3323231YWV | 3446117 3446110 3446100 | 3446117 3446110 3446100 | 332420G | 34439 | 34439 |
| 3323213 3323213101 | 34422 | 34422 3442220 | 3323233 pt | 34462 | 34462 | 332420G101 | 3443915 3443917 3443919 | 3443917 3443919 |
| 3323213111 3323213116 3323213121 | 3442224 | 3442222 3442224 3442230 | 3323233 pt 3323233101 pt 3323233101 pt | | 34496 3446210 3449611 | 332420G116 332420G121 332420G126 | 3443923 3443931 3443932 | 3443923 3443931 3443932 |
| 3323213226 3323213231 3323213236 | 3442235 3442241 | 3442235 3442241 3442242 | 3323233106 pt 3323233106 pt 3323233211 | 3446212 | 3446212 3449632 3446220 | 332420G131 | 3443933 3443934 3443936 | 3443933 3443934 3443936 |
| 3323213241 | 3442242 3442243 3442249 | 3442243 | 3323233211 3323233216 3323233221 | 3446222 | 3446222 | 332420G141 | 3443951 | 3443951 |

| 1997 published | 1997 collected | 1992 published | 1997 published | 1997 collected | 1992 published | 1997 published | 1997 collected | 1992 published |
|---|-------------------------------|-------------------------------------|---|--------------------------------|--|---|-------------------------------------|-----------------------------|
| 332420G356 | | | 3325105 3325105100 | 34296 | 34296 3429600 | 332618BYWV | 3496800 | |
| 332420W | 34430 pt | 34430 pt | 3325107 | 34297 3429711 | 34297 | 332618W pt | 33150 pt | • |
| 332420WYWW 332420WYWY | • | 3443002 pt | 3325107101 3325107106 3325107111 | 3429731 | | 332618W pt | 34960 | 34960 |
| 3324311 3324311101 | 34111 | | 3325107YWV | 3429700 | 3429700 | 332618WYWW pt 332618WYWW pt 332618WYWW pt | 3315000 pt | 3399000 pt |
| 3324311206 3324311YWV | 3411191 3411100 | 3411191 3411100 | 3325109 3325109101 3325109106 | 34298 pt 3429812 3429822 | 3429812 | 332618WYWY pt 332618WYWY pt | 3315002 pt 3399002 pt | 3315002 pt |
| 3324313 3324313100 | 34112 3411200 | | 3325109100 3325109111 | 3429852 | 3429852 | 332618WYWY pt | 3496002 | 3496002 |
| 332431W | 34110 3411000 | 34110 3411000 | 3325109199 | 3429898 | 3429898 | 3327100 pt | 35990 pt | 35995 |
| 332431WYWY | 3411002 | 3411002 | 332510W pt | • | 34290 pt | 3327100000 3327100YWW | 3599500 | 3599000 pt |
| 3324391 pt | 34121 | | 332510W pt 332510WYWW pt | 34990 pt 3429000 pt | 34990 pt 3429000 pt | 3327100YWY | 3599002 pt | · |
| 3324391100 3324391306 | 3412100 pt | 3412100 pt 3499821 | 332510WYWW pt 332510WYWY pt 332510WYWY pt | 3499000 pt | 3499000 pt 3429002 pt 3499002 pt | 3327211100 | | |
| 3324391311 3324391YWV pt 3324391YWV pt | 3499825 3412100 pt | 3412100 pt | 3326111 | 34931 | 34931 | 3327215 3327215111 3327215222 | 34512 3451231 3451242 | 3451231 |
| 3324393 | 34122 | 34122 | 3326111101 3326111106 | 3493106 | 3493106 | 3327215333 3327215444 | 3451252 3451257 | 3451252 |
| 3324393100 | 3412200 | | 3326111216 3326111221 3326111311 | 3493157 | 3493157 | 3327215555 | 3451262 | 3451262 3451239 |
| · | 34293 | | 3326111326 3326111YWV | 3493199 | 3493199 | 3327215699 3327215YWV | 3451298 3451200 | 3451299 pt 3451200 |
| 3324395 pt 3324395101 pt | | 34443 3412313 | 3326113 3326113101 | 34932 | 34932 | 332721W | 34510 3451000 | |
| 3324395101 pt 3324395106 pt | 3444314 3429300 | 3444314 3429300 | 3326113106 3326113YWV | 3493220 | 3493220 | 332721WYWY | 3451002 | 3451002 |
| 3324395106 pt 3324395199 3324395YWV pt | | 3412319 | 332611W | 34930 | 34930 3493000 | 3327221 3327221101 3327221106 | 34527 3452701 3452706 | 3452701 |
| 3324395YWV pt | 3444300 | 3444300 | 332611WYWY | 3493002 | 3493002 | 3327221115 | 3452715 3452745 | 3452715 |
| 3324397 3324397100 | 35373 pt 3537334 | 35373 pt 3537300 pt | 3326122 | 34952 | 34952 3495215 | 3327221159 3327221172 | 3452759 3452761 | 3452759 3452761 |
| • | 34120 | | 3326122116 3326122201 3326122206 | 3495217 3495212 3495214 | 3495217 3495212 3495214 | 3327221178 3327221184 3327221YWV | 3452762 3452763 3452700 | 3452763 |
| 332439W pt | · | 34290 pt 34440 pt | 3326122YWV | 3495200 | 3495200 | 3327223 | 34524 | |
| 332439W pt | 34990 pt | 34990 pt | 3326124 3326124111 3326124201 | 34953 pt 3495317 3495311 | 34953 pt 3495317 3495311 | 3327223111 | 3452411 | 3452411 3452412 |
| 332439W pt 332439WYWW pt | 35370 pt 3412000 | 35370 pt 3412000 | 3326124216 3326124221 pt | 3495318 | 3495318 3495313 | 3327223133 3327223144 3327223155 | 3452419 3452439 3452445 | 3452439 |
| 332439WYWW pt 332439WYWW pt | 3429000 pt | 3429000 pt 3444000 pt | 3326124221 pt 3326124226 | 3495320 pt | 3495319 3495321 | 3327223199 3327223YWV | 3452489 3452400 | 3452489 |
| 332439WYWW pt 332439WYWW pt | 3499000 pt | 3537000 pt | 3326124231 | 3495399 3495300 pt | 3495398 pt 3495300 pt | 3327225 | 34525 | 34525 |
| 332439WYWY pt 332439WYWY pt 332439WYWY pt | 3412002 | 3412002 3429002 pt 3444002 pt | 332612W | 34950 pt 3495000 pt | 34950 pt 3495000 pt | 3327225104 3327225129 3327225189 | 3452504 3452529 3452589 | 3452529 |
| 332439WYWY pt 332439WYWY pt | 3499002 pt | 3499002 pt | 332612WYWY | 3495002 pt | 3495002 pt 34961 | 3327225YWV | 3452500 | 3452500 |
| 3325101 3325101101 | 34292 | 34292 3429212 | 3326181101 3326181103 | 3496113 | 3496115 | 3327227 | 34526 3452609 3452615 | 3452609 |
| 3325101106 3325101111 | 3429213 | 3429213 3429214 | 3326181105 3326181107 3326181YWV | 3496152 | 3496134 3496152 3496100 | 3327227113 3327227135 3327227179 | 3452635 3452679 | 3452635 |
| 3325101116 3325101121 | 3429253 | 3429253 | 3326182 | 33992 | 33992 | 3327227YWV | 3452600 | 3452600 |
| 3325101133 3325101YWV | 3429255 3429200 | 3429255 3429200 | 3326182101 3326182106 3326182YWV | 3399298 | 3399211 3399298 3399200 | 3327229 3327229105 3327229115 | 34528 | 34528 3452831 3452811 |
| 3325103 pt | | 34294 | 3326183 | 3399200 34964 | 34964 | 3327229135 3327229199 | 3452821 3452898 | |
| 3325103 pt 3325103101 | 3429412 3429415 pt | 34991 3429412 3429413 | 3326183100 | 3496400 34965 | 3496400 34965 | 3327229YWV | 3452800 | 3452800 |
| 3325103111 pt 3325103111 pt 3325103121 | 3429415 pt | 3429414 3429417 | 3326185100 | 3496500 | 3496500 | 332722W | 34520 3452000 3452002 | 3452000 |
| 3325103125 3325103126 | 3499117 3429418 | 3499117 3429418 | 3326187 3326187101 3326187103 | 34966 3496613 3496621 | 34966 3496613 3496621 | 3328110 | 33980 | 33980 |
| 3325103128 3325103129 3325103131 | 3499143 3499141 3429419 | 3499198 pt 3499141 3429419 | 3326187105 3326187107 | 3496635 3496671 | 3496635 3496671 | 3328110100 3328110YWW 3328110YWY | 3398000 pt | 3398000 pt |
| 3325103133 | 3429422 | 3429422 | 3326187YWV | 3496600 | 3496600 | 3328120 | 34790 pt | 34790 pt |
| 3325103137 3325103216 3325103336 | 3499199 | 3499198 pt 3429416 3429423 | 3326189 3326189101 3326189103 | 33152 pt 3315202 3315204 | 33152 pt 3315201 pt 3315203 pt | 3328120101 3328120106 3328120111 | 3479010 | 3479011 |
| 3325103341 3325103346 | 3429424 3429427 | 3429424 3429427 | 3326189105 3326189107 | 3315206 3315208 | 3315205 pt 3315207 pt | 3328120116 3328120141 | 3479028 | 3479021 pt 3479081 |
| 3325103361 3325103363 | 3429437 3429442 | 3429437 3429442 | 3326189109 3326189111 pt | 3315211 3315212 pt | 3315209 pt 3315210 pt | 3328120146 3328120221 | 3479077 3479031 | 3479077 3479031 |
| 3325103365 3325103367 3325103451 | 3429443 3429444 3429433 | 3429443 3429444 3429433 | 3326189111 pt 3326189113 3326189115 | 3315212 pt | 3315213 pt 3315216 pt 3315222 pt | 3328120326 3328120431 3328120536 | 3479061 | 3479073 |
| 3325103456 | 3429436 | 3429436 | 3326189117 3326189119 | 3315224 3315226 | 3315223 pt 3315225 pt | 3328120YWW 3328120YWY | 3479075 3479000 pt 3479002 pt | 3479000 pt |
| 3325103569 3325103571 | 3429452 3429453 | 3429452 3429453 | 3326189121 3326189YWV | 3315231 3315200 pt | 3315230 pt 3315200 pt | 3328130 | 34710 | 34710 |
| 3325103573 3325103575 3325103579 | 3429454 3429461 3429462 | 3429454 3429461 3429462 | 332618B | 34968 | 34968 3496855 | 3328130100 3328130YWW 3328130YWY | 3471000 pt | 3471000 pt |
| 3325103579 3325103581 3325103583 | 3429464 3429466 | 3429464 3429466 | 332618B217 332618B319 | 3496883 3496885 | 3496883 3496885 | 3329111 | 34911 | 34911 |
| 3325103685 3325103687 | 3429471 3429473 | 3429471 3429473 | 332618B401 332618B403 | 3496842 3496851 | 3496842 3496851 3496863 | 3329111101 3329111103 | 3491111 | 3491121 |
| 3325103689 3325103691 | 3429481 3429491 | 3429481 3429491 | 332618B407 332618B409 332618B411 | 3496863 | 3496863 3496871 3496873 | 3329111105 3329111107 3329111109 | 3491123 3491134 3491138 | 3491134 |
| 3325103699 3325103YWV pt | 3429498 3429400 | 3429498 3429400 | 332618B413 332618B415 | 3496875 3496881 | 3496875 3496881 | 3329111111 | 3491143 3491152 | 3491143 3491152 |
| 3325103YWV pt | 3499100 | 3499100 | 332618B421 | 3496898 | 3496898 | 3329111YWV | 3491100 | 3491100 |

| 1997 published | 1997 collected | 1992 published | 1997 published | 1997 collected | 1992 published | 1997 published | 1997 collected | 1992 published |
|--|-------------------------------|-------------------------------|--|-------------------------------------|-------------------------------------|--|-------------------------------|-------------------------------|
| 3329113 3329113101 | 34912 3491201 | 34912 3491201 | 332912L 332912L100 | 3492M | 3492M 3492M00 | 332919W pt | 34940 pt | 34940 pt |
| 3329113103 3329113105 | 3491211 | 3491211 3491221 | 332912N | 3492N | 3492N | 332919W pt 332919WYWW pt | 34990 pt | 34990 pt 3429000 pt |
| 3329113107 3329113109 | 3491223 | 3491223 3491231 | 332912N100 | 3492N00 | 3492N00 | 332919WYWW pt 332919WYWW pt | 3494000 pt 3499000 pt | 3494000 pt 3499000 pt |
| 3329113111 3329113113 | 3491235 3491241 | 3491235 3491241 | 332912W pt | 34920 | 34920 37280 pt | 332919WYWY pt 332919WYWY pt | 3429002 pt 3494002 pt | 3429002 pt 3494002 pt |
| 3329113215 3329113YWV | 3491243 | 3491243 | 332912WYWW pt 332912WYWW pt | 3492000 | 3492000 | 332919WYWY pt | 3499002 pt | 3499002 pt 35621 |
| 3329115 | 34913 | 34913 | 332912WYWY pt 332912WYWY pt | 3492002 | 3492002 | 3329911 3329911000 | 35621 3562100 | 3562100 |
| 3329115101 3329115103 | 3491311 3491323 | 3491311 3491323 | 3329131 | 34321 | 34321 | 3329913 3329913000 | 35622 3562200 | 35622 3562200 |
| 3329115105 3329115107 | 3491335 3491347 | 3491335 3491347 | 3329131101 3329131206 | 3432102 | 3432102 3432105 | 3329915 3329915000 | 35623 | 35623 |
| 3329115109 3329115211 3329115YWV | 3491359 3491361 | 3491359 3491361 3491300 | 3329131211 3329131316 3329131321 | 3432108 3432110 3432112 | 3432108 3432110 3432112 | 3329917 | 3562300 | 3562300 35624 |
| 3329117 | 3491300 34914 | 34914 | 3329131326 pt 3329131326 pt | 3432111 pt 3432111 pt | 3432112 3432113 3432114 | 3329917000 | 3562400 | 3562400 |
| 3329117101 3329117103 | 3491411 3491413 | 3491411 3491413 | 3329131431 3329131436 | 3432115 | 3432115 3432117 | 3329919 3329919000 | 35629 | 35629 3562900 |
| 3329117105 3329117107 | 3491415 3491417 | 3491415 3491417 | 3329131441 | 3432118 | 3432118 | 332991W | 35620 3562000 | 35620 3562000 |
| 3329117109 3329117111 | 3491421 | 3491421 3491423 | 3329131446 3329131451 | 3432122 | 3432120 3432122 | 332991WYWY | 3562002 | 3562002 |
| 3329117113 3329117115 | 3491425 | 3491425 3491431 | 3329131456 3329131461 | 3432125 | 3432125 3432128 | 3329920 | 34820 | 34820 3482025 |
| 3329117217 3329117YWV | 3491461 3491400 | 3491461 3491400 | 3329131466 3329131468 pt | 3432130 | 3432130 3432132 | 3329920206 3329920311 3329920416 | 3482035 3482045 | 3482035 3482045 |
| 3329119 3329119101 | 34915 | 34915 3491511 | 3329131468 pt 3329131468 pt 3329131YWV | 3432133 pt | 3432134 3432136 3432100 | 3329920521 3329920626 | 3482055 3482061 3482069 | 3482055 3482061 3482069 |
| 3329119103 3329119105 | 3491523 3491535 | 3491523 3491535 | 3329133 | 34322 | 34322 | 3329920731 3329920YWW | 3482098 3482000 | 3482098 3482000 |
| 3329119107 3329119209 | 3491547 3491561 | 3491547 3491561 | 3329133131 3329133136 | 3432224 3432227 | 3432224 3432227 | 3329920YWY | 3482002 | 3482002 |
| 3329119YWV | 3491500 | | 3329133141 3329133146 | 3432230 3432233 | 3432230 3432233 | 3329931 3329931101 | 34831 3483111 | |
| 332911B 332911B101 | 34916 | 34916 3491611 3491623 | 3329133151 3329133201 pt | 3432202 pt | 3432236 3432201 | 3329931106 3329931111 | 3483135 | 3483135 3483151 |
| 332911B103 332911B105 332911B107 | 3491631 3491633 | 3491631 3491633 | 3329133201 pt 3329133206 pt | 3432202 pt | 3432203 3432205 | 3329931116 3329931121 | 3483171 3483181 | 3483171 3483181 |
| 332911B107 332911B109 332911B111 | 3491641 3491653 | 3491641 3491653 | 3329133206 pt 3329133211 | 3432206 pt | 3432207 3432212 | 3329931YWV 3329933 | 3483100 34833 | 3483100 34833 |
| 332911B113 332911B115 | 3491665 3491678 | 3491665 3491678 | 3329133216 3329133221 | 3432215 3432218 | 3432215 3432218 | 3329933101 | 3483311 | 3483311 3483331 |
| 332911B117 | 3491698 3491600 | 3491698 3491600 | 3329133226 3329133256 | 3432221 3432239 | 3432221 3432239 | 3329933YWV | 3483300 | 3483300 |
| 332911D | 34917 | 34917 | 3329133261 3329133266 | 3432245 3432250 | 3432245 3432250 | 332993W | 34830 | 34830 3483000 |
| 332911D101 | 3491711 3491713 | 3491711 3491713 | 3329133YWV | 3432200 | 3432200 | 332993WYWY | 3483002 | 3483002 34841 |
| 332911D105 | 3491715 3491727 3491731 | 3491715 3491727 3491731 | 3329137 3329137101 3329137106 | 34323 pt | 34323 pt 3432302 3432305 | 3329941100 | 3484100 | 3484100 |
| 332911D109 332911D111 332911D213 | 3491739 3491798 | 3491739 3491798 | 3329137110 3329137111 | 3432311 | 3432311 3432314 | 3329943101 | 34842 | 34842 3484211 |
| 332911DYWV | 3491700 | 3491700 | 3329137116 pt | 3432315 pt | 3432317 3432320 | 3329943206 3329943311 | 3484213 3484216 | 3484213 3484216 |
| 332911F 332911F100 | 34918 | 34918 3491800 | 3329137121 pt 3329137131 | 3432321 pt | 3432323 3432327 | 3329943416 3329943421 3329943426 | 3484221 3484223 3484226 | 3484221 3484223 3484226 |
| 332911H 332911H100 | 34919 | | 3329137141 pt 3329137141 pt | 3432331 pt | 3432308 3432332 pt | 3329943431 3329943536 | 3484254 3484265 | 3484254 3484265 |
| 332911W | 34910 | 34910 | 3329137224 3329137226 | 3432324 | 3432325 pt 3432325 pt | 3329943541 3329943546 | 3484274 3484281 | 3484274 3484281 |
| 332911WYWW 332911WYWY | 3491000 3491002 | 3491000 3491002 | 3329137YWV | 3432300 pt | 3432300 pt 34320 pt | 3329943YWV | 3484200 | 3484200 |
| 3329121 pt | 3492A | 3492A | 332913WYWW | 3432000 pt | 3432000 pt | 332994W | 34840 | 34840 3484000 |
| 3329121 pt 3329121100 pt | 37284 pt | | 3329191 pt | | 34944 | 332994WYWY | 3484002 34891 | 3484002 34891 |
| 3329121100 pt 3329121100 pt | | 3728400 pt 3728473 pt | 3329191 pt | 34998 pt | 34998 pt | 3329951106 3329951111 | 3489121 3489151 | 3489121 3489151 |
| 3329121100 pt 3329123 pt | 3728401 pt | 3728475 pt 3492B | 3329191101 pt | 3494421 3499831 | 3494421 3499831 | 3329951116 3329951YWV | 3489171 3489100 | 3489171 3489100 |
| 3329123 pt | 37284 pt | 37284 pt | 3329191203 3329191205 3329191207 | 3494431 3494441 3494451 | 3494431 3494441 3494451 | 3329952 | 34892 | 34892 |
| 3329123100 pt 3329123100 pt | 3728400 pt | 3728400 pt | 3329191207 3329191209 3329191YWV pt | 3494499 3494400 | 3494499 3494400 | 3329952100 332995W | 3489200 34890 | 3489200 34890 |
| 3329123100 pt 3329123100 pt | 3728402 pt 3728402 pt | 3728483 pt 3728485 pt | 3329191YWV pt | 3499800 pt | 3499800 pt | 332995WYWW 332995WYWY | 3489000 3489002 | 3489000 3489002 |
| 3329125 3329125100 | | 3492C 3492C00 | 3329193 pt | • | 34298 pt | 3329961 | 33534 | 33534 |
| 3329127 | 3492D | 3492D | 3329193 pt | 34945 pt | 34945 pt 3494511 | 3329961100 | 3353400 | 3353400 |
| 3329127100 3329129 | 3492D00 | 3492D00 3492E | 3329193103 3329193105 | 3494512 | 3494512 3494513 | 3329963 3329963101 | 34980 3498013 | 34980 3498013 |
| 3329129100 | 3492E00 | 3492E00 | 3329193107 3329193109 3329193111 | 3494514 3494515 | 3494514 3494515 3494516 | 3329963203 3329963205 | 3498015 3498017 | 3498017 |
| 332912B 332912B100 | | | 3329193111 3329193113 3329193215 | 3494516 3494517 3494518 | 3494516 3494517 3494518 | 3329963207 3329963YWV | 3498019 3498000 pt | 3498019 3498000 pt |
| 332912D 332912D100 | 3492G | 3492G 3492G00 | 3329193217 3329193319 | 3494519 3494521 | 3494519 3494521 | 332996W | 33530 pt 3353000 pt | 33530 pt 3353000 pt |
| 332912F pt | | | 3329193321 | 3494523 | 3494523 | 332996WYWW pt 332996WYWY pt | 3498000 pt | 3498000 pt 3353002 pt |
| 332912F pt 332912F100 pt | 37284 pt 3492H00 | 37284 pt 3492H00 | 3329193323 3329193325 | 3494532 3494534 | 3494532 3494534 | 332996WYWY pt | 3498002 | 3498002 |
| 332912F100 pt 332912F100 pt | 3728400 pt 3728403 pt | 3728400 pt 3728473 pt | 3329193327 3329193329 | 3494537 3494542 | 3494537 3494542 | 3329970 3329970101 | 35430 3543011 | 35430 3543011 |
| 332912F100 pt 332912F100 pt | 3728403 pt | 3728475 pt 3728483 pt | 3329193331 | 3494544 3494547 | 3494544 3494547 | 3329970206 3329970YWW | 3543098 3543000 | 3543098 3543000 |
| 332912F100 pt | 3728403 pt | 3728485 pt | 3329193335 3329193336 | 3494585 3429862 | 3494585 3429862 | 3329970YWY | 3543002 34310 | 3543002 34310 |
| 332912H 332912H100 | 3492J 3492J00 | 3492J 3492J00 | 3329193337 3329193YWV pt | 3494599 3429800 pt 3494500 pt | 3494599 3429800 pt 3494500 pt | 3329980110 | 3431010 | 3431010 |
| 332912J | 3492K | | · · | 34290 pt | • | 3329980YWW | 3431000 3431002 | 3431000 |
| | | | 1 | , | 11 1 | | | |

| 1997 published | 1997 collected | 1992 published | 1997 published | 1997 collected | 1992 published | 1997 published | 1997 collected | 1992 published |
|--------------------------|--------------------|-----------------------|----------------|--------------------|--------------------------|--------------------------------|--------------------------|--------------------------|
| 3329991 | | 34971 | 332999AYWV | 3499500 | 3499500 | 332999GYWV pt | 3999900 pt | 3999900 pt |
| 3329991101 3329991106 | | 3497132 3497133 | 332999G pt | 32918 pt | 32918 pt | 332999W pt | 32910 pt | 32910 pt |
| 3329991111 | | | 332999G pt | 34323 pt | 34323 pt | 332999W pt | 34320 pt | 34320 pt |
| 3329993 | | | 332999G pt | 34945 pt | 34945 pt | 332999W pt | 34940 pt | 34940 pt |
| 3329993101 | 3497352 | 3497352 | 332999G pt | 34998 pt | 34998 pt | 332999W pt | 34970 pt | 34970 pt |
| 3329993106 3329993111 | 3497358 | 3497354 3497358 | 332999G pt | 35373 pt | 35373 pt | 332999W pt | 34990 pt | 34990 pt |
| 3329993YWV | | | 332999G pt | 39999 pt | 39999 pt | 332999W pt | 35370 pt | 35370 pt |
| 3329994 3329994101 | | 35994 pt 3599411 | 332999G101 | 3499811 | | 332999W pt | 35990 pt | 35990 pt |
| | 3599413 3599415 | 3599413 3599415 | 332999G189 | 3494571 | 3494571 | 332999W pt | 39990 pt | 39990 pt |
| 3329994116 | 3599416 | 3599416 | 332999G301 | 3499829 3499839 | | 332999WYWW pt 332999WYWW pt | 3291000 pt | 3291000 pt 3432000 pt |
| | 3599425 | 3599425 3599400 pt | 332999G305 | 3537331 | 3537331 3999913 pt | 332999WYWW pt 332999WYWW pt | 3494000 pt | 3494000 pt 3497000 pt |
| 3329997 | | | 332999G306 pt | 3999991 pt | 3999942 pt | 332999WYWW pt 332999WYWW pt | 3499000 pt | 3499000 pt 3537000 pt |
| 3329997101 3329997106 | | | 332999G306 pt | 3999991 pt | 3999999 pt | 332999WYWW pt | 3599000 pt | 3599000 pt |
| 3329997YWV | | 3499200 | 332999G313 | 3291831 | 3291831 | 332999WYWW pt 332999WYWY pt | 3999000 pt | 3999000 pt 3291002 pt |
| 3329999 3329999100 | | 34993 | 332999G316 | 3291835 | 3291890 pt 3432332 pt | 332999WYWY pt | 3432002 pt | 3432002 pt |
| 3329999100 | | 3499300 34995 | 332999G399 pt | 3499898 | 3499899 pt | 332999WYWY pt 332999WYWY pt | 3494002 pt 3497002 pt | 3494002 pt 3497002 pt |
| 332999A101 | 3499511 | 3499511 | 332999GYWV pt | 3432300 pt | 3432300 pt | 332999WYWY pt | 3499002 pt | 3499002 pt |
| 332999A106 332999A111 | 3499521 3499531 | 3499521 3499531 | 332999GYWV pt | 3494500 pt | 3494500 pt 3499800 pt | 332999WYWY pt | 3537002 pt 3599002 pt | 3537002 pt 3599002 pt |
| | 3499539 | 3499539 | 332999GYWV pt | 3537300 pt | 3537300 pt | 332999WYWY pt | 3999002 pt | 3999002 pt |