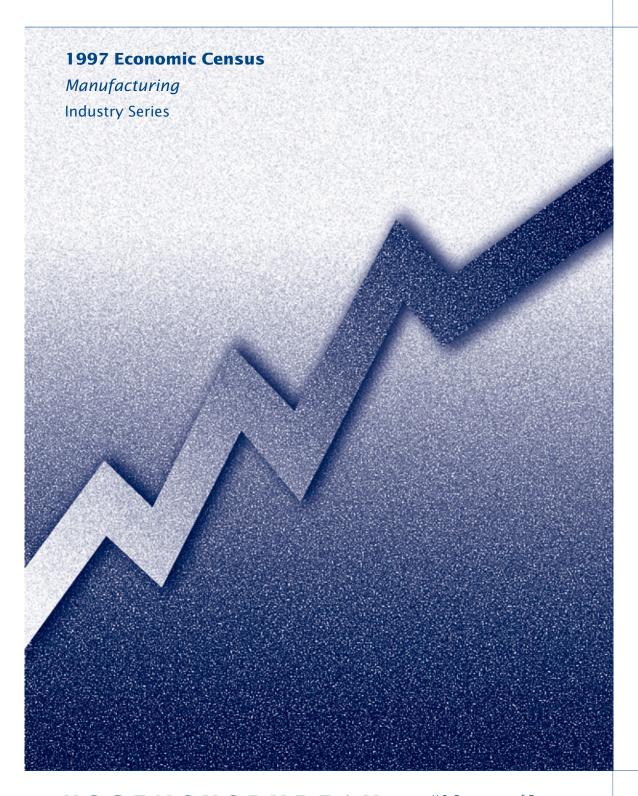
Farm Machinery and Equipment Manufacturing

1997

ssued November 1999

EC97M-3331A



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Farm Machinery and **Equipment Manufacturing**

EC97M-3331A

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

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-- 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 | Production workers | | | | | | 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) |
| | | | | | | | | | | | | |
| 333111 | Farm machinery & equipment | | | | | | | | | | | |
| 050000 | mfg | 1 263 | 1 337 | 66 230 | 2 368 893 | 47 773 | 95 386 | 1 549 162 | 7 541 449 | 8 456 566 | 15 899 421 | 508 851 |
| 352330 | Farm machinery & equipment (pt) | N | 1 337 | 66 230 | 2 368 893 | 47 773 | 95 386 | 1 549 162 | 7 541 449 | 8 456 566 | 15 899 421 | 508 851 |

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 shments | All emp | oloyees | Pr | 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) |
| 333111, FARM MACHINERY & EQUIPMENT MFG | | | | | | | | | | | | |
| United States | - | 1 337 | 460 | 66 230 | 2 368 893 | 47 773 | 95 386 | 1 549 162 | 7 541 449 | 8 456 566 | 15 899 421 | 508 851 |
| California Florida | 3 7 | 113 31 32 37 70 | 33 3 8 15 28 | 1 972 312 769 1 614 4 459 | 60 424 8 760 18 149 52 223 132 740 | 1 373 236 551 1 166 3 327 | 2 616 486 1 064 2 314 6 774 | 33 098 6 025 13 173 30 989 86 050 | 124 216 20 779 35 223 163 139 230 926 | 127 650 21 093 42 161 138 664 317 157 | 235 062 42 579 78 144 300 438 559 125 | 13 684 1 933 6 723 19 326 22 120 |
| Pennsylvania Tennessee Texas Washington Wisconsin | 2 | 37 19 81 35 66 | 7 8 19 6 33 | 1 878 387 1 617 418 5 697 | 66 431 10 149 41 933 11 149 173 591 | 1 568 284 1 081 309 4 027 | 2 880 549 2 013 595 7 836 | 54 527 6 684 24 434 7 805 104 191 | 121 895 18 253 74 366 28 496 514 758 | 127 869 30 855 105 214 30 968 690 824 | 246 915 48 626 180 626 59 111 1 194 651 | 6 704 1 603 8 163 3 340 57 188 |

^{*} 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 |
|--|---|--|---|
| 333111, FARM MACHINERY & EQUIPMENT MFG | | 333111, FARM MACHINERY & EQUIPMENT MFG— | |
| Companies ¹ number | 1 263 | Con. | 7 544 440 |
| All establishments number. Establishments with 1 to 19 employees number. Establishments with 20 to 99 employees number. Establishments with 100 employees or more number. | 1 337 877 326 134 | Value added \$1,000. 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. | 7 541 449 2 069 493 884 238 582 021 603 234 |
| All employees number Total compensation² \$1,000 Annual payroll \$1,000 Total fringe benefits \$1,000 | 66 230 3 170 982 2 368 893 802 089 | Total inventories, end of year \$1,000 . Finished goods inventories, end of year \$1,000 . Work-in-process inventories, end of year \$1,000 . Materials and supplies inventories, end of year \$1,000 . | 2 274 805 963 209 601 644 709 952 |
| Production workers, average for year | 47 773 48 568 47 475 | 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 | 3 843 636 508 851 |
| Production workers on August 12number Production workers on November 12number | 47 343 47 706 | (new and used)\$1,000 Capital expenditures for machinery and equipment (new | 88 904 |
| Production-worker hours 1,000. Production-worker wages \$1,000 | 95 386 1 549 162 | and used) | 419 947 144 790 4 207 697 |
| Total cost of materials | 8 456 566 | Total depreciation during year ² \$1,000 | 282 708 |
| Cost of materials, parts, containers, etc., consumed \$1,000 Cost of resales \$1,000 Cost of fuels \$1,000 Cost of purchased electricity \$1,000 | 7 749 758 500 785 40 896 66 696 | Total rental payments ² \$1,000 . Buildings and other structures rental payments ² \$1,000 . Machinery and equipment rental payments ² \$1,000 . | 79 035 21 041 57 994 |
| Cost of contract work | 1 485 927 | Cost of purchased services for the repair of buildings and other structures \$1,000 Response coverage ratio Cost of purchased services for the repair of machinery and | 15 586 71 |
| Total value of shipments\$1,000 | 15 899 421 | equipment ³ \$1,000 Response coverage ratio ⁴ percent | 58 613 71 |
| Primary products value of shipments \$1,000. Secondary products value of shipments \$1,000. | 14 345 236 864 529 | Cost of purchased communications services ³ | 17 130 71 |
| Total miscellaneous receipts \$1,000 Value of resales \$1,000 Contract receipts \$1,000 | 689 656 629 695 29 221 | Cost of purchased legal services ³ \$1,000 . Response coverage ratio ⁶ percent . Cost of purchased accounting and bookkeeping services ³ \$1,000 . | 17 953 71 7 317 |
| Other miscellaneous receipts\$1,000 | 30 740 | Response coverage ratio ⁴ percent Cost of purchased advertising services ³ \$1,000 | 71 38 948 |
| Primary products specialization ratio | 94 14 965 688 | Response coverage ratio ⁴ percent Cost of purchased software and other data processing | 71 |
| Value of primary products shipments made in this industry \$1,000. Value of primary products shipments made in other industries \$1.000. | 14 345 236 | services ³ \$1,000 Response coverage ratio ⁴ percent Cost of purchased refuse removal (including hazardous waste) | 15 600 71 |
| Coverage ratio | 95 | services ³ | 6 566 71 |

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 | ployees | Pr | oduction work | ers | | | | |
|--|----------------|------------|---|----------------|----------------------|----------------|------------------|--------------------|--|-----------------------------|------------------------------------|---|
| Employment size class | E ¹ | 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) |
| 333111, FARM MACHINERY & EQUIPMENT MFG | | | | | | | | | | | | |
| All establishments | - | 1 337 | 460 | 66 230 | 2 368 893 | 47 773 | 95 386 | 1 549 162 | 7 541 449 | 8 456 566 | 15 899 421 | 508 851 |
| Establishments with 1 to 4 employees | 8 | 407 | - | 788 | 19 124 | 592 | 961 | 15 334 | 37 911 | 44 234 | 83 509 | 7 946 |
| employees | 7 | 216 254 | - | 1 493 3 508 | 33 958 84 418 | 1 118 2 549 | 1 881 4 557 | 25 549 57 056 | 67 559 183 865 | 83 515 210 240 | 151 714 395 288 | 11 817 21 104 |
| Establishments with 20 to 49 employees | 1 | 227 | 227 | 7 000 | 178 685 | 5 001 | 9 667 | 110 389 | 405 719 | 474 598 | 862 760 | 36 274 |
| employees | 2 | 99 | 99 | 7 222 | 214 977 | 5 226 | 10 376 | 128 886 | 457 588 | 537 254 | 983 215 | 49 575 |
| employees | 1 | 84 | 84 | 12 772 | 372 593 | 9 098 | 18 397 | 222 724 | 1 032 177 | 1 284 358 | 2 317 279 | 90 455 |
| employees | - | 27 | 27 | 9 890 | 331 717 | 6 726 | 14 294 | 198 400 | 822 494 | 934 559 | 1 725 269 | 70 735 |
| employees | - | 18 | 18 | D | D | D | D | D | D | D | D | D |
| employees | - | 3 | 3 | 4 222 | 241 622 | 2 919 | 6 094 | 155 653 | 671 839 | 773 196 | 1 444 488 | 34 838 |
| or more | - | 2 | 2 | D | D | D | D | D | D | D | D | D |
| Administrative records ² | 9 | 518 | _ | 2 369 | 47 245 | 1 764 | 2 755 | 38 227 | 91 639 | 121 189 | 215 687 | 22 178 |

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 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 industry or | | All | All em | ployees | Pr | oduction work | ers | Value added | | | Total capital |
|-----------------------|---|--------------------------|-----------------|----------------------|----------------|------------------|--------------------|--------------------------------|-----------------------------|------------------------------|--------------------------------|
| 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) |
| 333111 | Farm machinery & equipment mfg | 1 337 | 66 230 | 2 368 893 | 47 773 | 95 386 | 1 549 162 | 7 541 449 | 8 456 566 | 15 899 421 | 508 851 |
| 3331111 3331113 | Farm-type (power take-off hp) wheel tractors (2- and 4-wheel drive) (sold with or without attachments) Farm dairy equipment, sprayers and dusters (except aerial types), farm | 18 | 5 836 | 306 860 | 4 037 | 8 573 | 212 473 | 2 176 884 | 2 437 354 | 4 564 747 | 81 041 |
| 3331117 | elevators, farm blowers, and attachments | 56 | 3 962 | 121 477 | 2 871 | 5 126 | 75 641 | 275 785 | 460 027 | 744 132 | 29 565 |
| 0004440 | excluding turf machinery | 46 | 4 658 | 160 090 | 3 558 | 7 318 | 106 860 | 423 399 | 474 266 | 876 099 | 30 404 |
| 3331119 333111A | Harvesting machinery (except hay and straw) and attachments Haying machinery and attachments | 85 31 | 12 510 4 182 | 597 591 152 592 | 9 182 3 290 | 19 261 6 186 | 432 989 118 263 | 2 110 557 306 261 | 1 867 013 368 985 | 3 981 057 667 655 | 113 616 30 121 |
| 333111C 333111E | Parts for farm machinery, for sale separately Farm plows (including plowshares, primary tillage), harrows, rollers, | 76 | 5 143 | 148 165 | 3 749 | 7 797 | 94 598 | 301 757 | 367 444 | 664 009 | 27 927 |
| 333111G | pulverizers, and cultivators and weeders, and attachments | 58 | 3 947 | 116 319 | 2 730 | 5 691 | 68 303 | 244 910 | 254 664 | 493 945 | 24 205 |
| 333111J | including attachments | 180 | 15 220 | 488 977 | 10 391 | 20 735 | 248 046 | 974 039 | 1 336 845 | 2 300 446 | 98 329 |
| | attachments | 51 | 5 587 | 163 832 | 4 063 | 8 111 | 104 600 | 491 924 | 615 558 | 1 103 741 | 28 338 |

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 | 997 | | | 19 | 92 | |
|------------------------|---|--|---|----------|------------------------|--|---|----------|-------------------------|
| 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) |
| 333111 | Farm machinery and equipment | N | x | х | 14 965 688 | N | х | х | N |
| 3331111 | Farm-type (power take-off hp) wheel tractors (2- and 4-wheel drive) (sold with or without attachments) @ | N | X | X | 3 856 907 | N | x | х | N |
| 33311110 | Farm-type (power take-off hp) wheel tractors (2- and 4-wheel drive) (sold with | | | | | | | | |
| 3331111000 | or without attachments) | N 20 | X X | X X | 3 856 907 3 856 907 | N N | X X | × | N |
| 3331113 | with or without attachments) Farm dairy equipment, sprayers and dusters (except aerial types), farm elevators, farm blowers, and attachments @ | N N | × | X | 745 305 | 11 N | × | X | N |
| 33311130 | Farm dairy equipment, sprayers and dusters (except aerial types), farm elevators, farm blowers, and | | | | | | | | |
| 3331113000 | attachments Farm dairy equipment, sprayers and dusters (except aerial types), farm elevators, farm blowers, and | N 82 | X | X | 745 305 745 305 | N N | × | X X | N |
| 3331117 | attachments Planting, seeding, and fertilizing machinery and attachments, excluding turf machinery @ | N 82 | × | X | 1 080 018 | N | × | X | 520 758 |
| 33311170 | Planting, seeding, and fertilizing machinery and attachments, excluding | | ^ | ^ | 1 000 010 | | | Α | 020 700 |
| 3331117000 | turf machinery Planting, seeding, and fertilizing machinery and attachments, excluding turf machinery | N 96 | x x | x x | 1 080 018 1 080 018 | N 103 | x x | x x | N 520 758 |
| 3331119 | Harvesting machinery (except hay and straw) and attachments @ | N | Х | Х | 2 969 950 | N | x | x | 1 564 471 |
| 33311190 3331119000 | Harvesting machinery (except hay and straw) and attachments | N | х | х | 2 969 950 | N | x | х | N |
| 333111A | straw) and attachments | 106 N | X X | X X | 2 969 950 664 378 | 87 N | x x | x x | 1 564 471 434 769 |
| 333111A0 333111A0 | Haying machinery and attachments Haying machinery and attachments | N 53 | X | X | 664 378 664 378 | N 33 | X | X | 434 769 N 434 769 |
| 333111C | Parts for farm machinery, for sale separately @ . | N N | X | X | 1 424 675 | N N | x | X | 1 486 003 |
| 333111C1 | Parts for farm-type wheel tractors (except operator cabs), for sale separately | N N | X | X | 584 948 | N | x | X | 1 400 003 |
| 333111C110 | Parts for farm-type wheel tractors (except operator cabs), for sale separately. | 55 | X | X | 584 948 | 38 | x | X | 384 276 |
| 333111C2 | Other parts for farm machinery, for sale separately | N | Х | Х | 801 417 | N | x | х | N |
| 333111C220 | Other parts for farm machinery (except for wheel tractors), for sale separately, including operator cabs. | 190 | х | х | 801 417 | N | x | х | N |
| 333111CY | Parts for farm machinery, for sale separately, nsk | N | x | Х | 38 310 | N | x | х | N |
| 333111CYWV | Parts for farm machinery, for sale separately, nsk | N N | × | X | 38 310 | N | x | X | 67 882 |
| 333111E | Farm plows (including plowshares, primary tillage), harrows, rollers, pulverizers, and cultivators and weeders, and attachments @ | N | X | Х | 608 954 | N | x | х | 267 735 |
| 333111E0 | Farm plows (including plowshares, primary tillage), harrows, rollers, pulverizers, and cultivators and weeders, | | | | | | | | |
| 333111E000 | and attachments Farm plows (including plowshares, primary tillage), harrows, rollers, pulverizers, and cultivators and | N N | Х | X | 608 954 | N | X | X | N |
| 333111G | weeders, and attachments All other farm machinery and equipment, excluding parts, but including attachments | 107 N | X | X | 608 954 1 836 550 | 100 N | × | x x | 267 735 N |
| 333111G0 | All other farm machinery and equipment, excluding parts, but including | " | X | ^ | . 230 000 | | | ^ | 14 |
| 333111G000 | attachments All other farm machinery and equipment, excluding parts, but including attachments. | N 238 | x x | X X | 1 836 550 1 836 550 | N N | x x | X X | N |

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 | | Number of companies | | Product | shipments | Number of | | Product shipments | |
| product code | Product | | 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) |
| 333111 | Farm machinery and equipment —Con. | | | | | | | | |
| 333111J | Commercial turf and grounds care equipment, including parts and attachments @ | N | х | x | 1 339 888 | N | х | х | 834 041 |
| 333111J0 333111J000 | Commercial turf and grounds care equipment, including parts and attachments Commercial turf and grounds care equipment, including parts and | N | х | X | 1 339 888 | N | х | х | N |
| | attachments | 76 | X | X | 1 339 888 | 88 | X | X | 834 041 |
| 333111W | Farm machinery and equipment, nsk, total | N | X | X | 439 063 | N | X | X | N |
| 333111WY | Farm machinery and equipment, nsk, | | X | X | 400.000 | | V | V | |
| 333111WYWW | total | N | Х | × | 439 063 | N | Х | X | N |
| 333111WYWY | establishments | N | Х | Х | 223 683 | N | x | Х | N |
| | establishments | N | Х | Х | 215 380 | 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 | | luct shipments 000) |
|------------------------|---|--|---------------------------------------|
| code | | 1997 | 1992 |
| 3331111 | FARM-TYPE (POWER TAKE-OFF HP) WHEEL TRACTORS (2- AND 4-WHEEL DRIVE) (SOLD WITH OR WITHOUT ATTACHMENTS) @ United States | 3 856 907 | N |
| 3331113 | FARM DAIRY EQUIPMENT, SPRAYERS AND DUSTERS (EXCEPT AERIAL TYPES), FARM ELEVATORS, FARM BLOWERS, AND ATTACHMENTS @ | | |
| | United States | 745 305 | N |
| | Georgia Iowa Nebraska North Dakota Wisconsin | 21 329 85 853 12 298 8 295 128 311 | N |
| 3331117 | PLANTING, SEEDING, AND FERTILIZING MACHINERY AND ATTACHMENTS, EXCLUDING TURF MACHINERY @ | | |
| | United States | 1 080 018 | 520 758 |
| | Arkansas Georgia Iowa Michigan Minnesota | 20 095 11 783 221 726 8 724 62 607 | N 12 716 140 327 N 33 416 |
| | Nebraska North Carolina North Dakota Wisconsin | 16 681 3 586 81 282 27 021 | 12 884 N 14 657 22 502 |
| 3331119 | HARVESTING MACHINERY (EXCEPT HAY AND STRAW) AND ATTACHMENTS @ | | |
| | United States | 2 969 950 | 1 564 471 |
| | California Idaho Michigan Minnesota Nebraska | 30 801 12 405 6 685 51 247 107 106 | 27 115 12 321 4 983 N N |
| | North Dakota Oregon Texas. Washington Wisconsin | 19 729 23 018 4 075 10 823 32 088 | 8 584 N N 3 986 21 411 |

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 shipment (\$1,000) | ts |
|------------------------|---|-------------------------------------|-----------------|
| code | | 1997 | 199 |
| 33111A | HAYING MACHINERY AND ATTACHMENTS @ | | |
| | United States | 664 378 | 434 76 |
| | California | 12 597 | 3 21 |
| | Illinois Oregon | 10 336 27 899 | |
| | Texas | 30 064 32 404 | 32 87 |
| 33111C | PARTS FOR FARM MACHINERY, FOR SALE SEPARATELY @ | | |
| | United States | 1 424 675 | 1 486 00 |
| | California | 8 679 | 21 08 |
| | Colorado | 3 284 8 648 | 18 18 24 10 |
| | ldaho | 14 547 376 655 | 10 4° 323 09 |
| | Indiana | 34 684 | 33 90 |
| | lowa | 555 979 | 489 92 |
| | Kansas | 32 347 18 610 | 22 46 17 02 |
| | Minnesota | 53 993 | 30 59 |
| | Mississippi | 5 872 11 244 | 8 63 54 87 |
| | Missouri | 78 310 | 96 89 |
| | North Carolina | 9 148 24 857 | 16 95 |
| | Oklahoma | 7 640 | 7 68 |
| | Oregon | 3 891 | 18 66 |
| | South Dakota Texas | 8 134 7 201 | 4 40 15 84 |
| | Washington Wisconsin | 3 562 62 959 | 75 20 |
| 33111E | FARM PLOWS (INCLUDING PLOWSHARES, PRIMARY TILLAGE), HARROWS, ROLLERS, | 02 333 | 73 20 |
| SITIE | PULVERIZERS, AND CULTIVATORS AND WEEDERS, AND ATTACHMENTS @ | | |
| | United States | 608 954 | 267 73 |
| | Arkansas | 4 262 14 372 | 3 81 6 75 |
| | Georgia | 19 961 | 6 62 |
| Illinoi | Illinois | 92 641 218 123 | 33 66 91 70 |
| | Kansas | 71 469 | 34 37 |
| | Mississippi Nebraska | 9 764 31 336 | 6 85 8 87 |
| | North Dakota | 33 911 | 10 36 |
| | Ohio | 34 320 | |
| | Tennessee | 9 300 12 686 | 6 58 |
| | Washington Wisconsin | 4 898 13 611 | 11 11 |
| 3111G | ALL OTHER FARM MACHINERY AND EQUIPMENT, EXCLUDING PARTS, BUT | 10 011 | |
| 331110 | INCLUDING ATTACHMENTS @ | | |
| | United States | 1 836 550 | |
| | Alabama | 138 982 10 204 | |
| | California | 39 445 | |
| | Georgia | 24 687 180 252 | |
| | Indiana | 176 071 | |
| | lowa | 158 705 104 938 | |
| | Minnesota | 45 494 | |
| | Mississippi | 18 353 | |
| | Missouri | 7 806 427 389 | |
| | North Carolina | 105 230 22 346 | |
| | Ohio | 17 056 | |
| | Oklahoma | 9 005 | |
| | Oregon | 18 921 25 099 | |
| | South Dakota | 13 022 9 247 | |
| | Tennessee | | |
| | Texas. Washington Wisconsin | 20 761 20 872 117 432 | |
| 33111J | COMMERCIAL TURF AND GROUNDS CARE EQUIPMENT, INCLUDING PARTS AND | 117 402 | |
| .51115 | ATTACHMENTS @ | | |
| | United States | 1 339 888 | 834 04 |
| | Florida | 4 960 16 054 | 10 42 |
| , | Indiana | 47 590 | |
| l | lowa | 13 618 | |

See footnotes at end of table.

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

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 1997. For meaning of abbreviations and symbols, see introductory text. For explanations of terms, see appendixes]

| NAICS product class | Product class and geographic area | Value of product shipments (\$1,000) | | | | |
|------------------------|--|---|---------------------------------------|--|--|--|
| code | | 1997 | 1992 | | | |
| 333111J | COMMERCIAL TURF AND GROUNDS CARE EQUIPMENT, INCLUDING PARTS AND ATTACHMENTS @—Con. | | | | | |
| | Minnesota . Missouri . Nebraska . Ohio . Wisconsin | 57 984 5 100 125 778 11 783 581 436 | 27 220 N 84 127 N 413 550 | | | |

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) |
| 333111 | FARM MACHINERY & EQUIPMENT MFG | | | | |
| 33399601 | Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and | | | | |
| 33399501 33399901 33291203 33291207 | pneumatic). Fluid power cylinders and rotary actuators (hydraulic and pneumatic) Fluid power filters (hydraulic and pneumatic) Fluid power hose or tube fittings and assemblies (hydraulic and pneumatic) Fluid power valves (hydraulic and pneumatic) | X X X X | 412 901 128 953 16 916 92 240 134 915 | Z Z Z Z Z Z | N N N N N N N N N N N N N N N N N N N |
| 33272203 | Metal bolts, nuts, screws, washers, rivets, and other screw machine products | X | 172 389 | N | N |
| 332000AC 33200041 33211101 33211201 | Metal stampings All other fabricated metal products (except forgings) Iron and steel forgings Nonferrous forgings | x x x | 206 096 371 899 111 386 3 579 | N N N N N | N N N N |
| 33151001 | Iron and steel castings (rough and semifinished) | X X | 583 264 | N | N N |
| 33152005 33152003 33120007 | Aluminum and aluminum-base alloy castings (rough and semilinished) Other nonferrous castings (rough and semifinished) Steel bars, bar shapes, and plates (except castings, forgings, and fabricated | × | 50 190 4 941 | N N | N N |
| 33120017 | metal products). Steel sheet and strip, including tin plate | X X | 506 603 838 401 | N N | N N |
| 33120019 | Steel structural shapes and sheet piling (except castings, forgings, and | | | | |
| 33120091 | fabricated metal products) | Х | 123 270 | N | N |
| 331000AJ | metal products) | Х | 131 471 | N | N |
| 331000AA | metal products) Metal powders | X | 18 708 4 685 | N N | N N |
| 33361811 | Diesel and semidiesel engines. | x | 590 295 | Ň | N |
| 33361805 33632200 | Gasoline and other carburetor engines | X | 91 187 | N | N |
| 33531201 | starters, etc. Electric motors and generators | X | 164 887 82 558 | N N | N N |
| 33299105 33299103 | Ball bearings (mounted or unmounted) Roller bearings (mounted or unmounted) | X X | 76 395 62 793 | N N | N N |
| 33361200 | Mechanical speed changers, gears, and industrial high-speed drives | X | 331 118 | N N | N |
| 32621001 | Tires and inner tubes | X | 508 418 | N | N |
| 32622001 32610011 | Rubber and plastics hose and belting | X X | 114 305 132 573 | N N | N N |
| 32551003 | Paints, varnishes, lacquers, stains, shellacs, japans, enamels, and allied products | X | 137 476 | N | N |
| 33311100 | Cabs purchased for installation on farm machinery | X | 24 217 | Ŋ | N |
| 00970099 00971000 | All other materials and components, parts, containers, and supplies | X X | 839 882 680 847 | X X | N 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.

[#] 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.

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

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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

333111 FARM MACHINERY AND EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing agricultural and farm machinery and equipment, and other turf and grounds care equipment, including planting, harvesting, and grass mowing equipment (except lawn and garden-type).

The data published with NAICS code 333111 include the following SIC industry:

3523 Farm machinery and equipment (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 333111 do not include establishments primarily engaged in manufacturing cotton ginning machinery. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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

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

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

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

QUALIFICATIONS OF THE ASM DATA

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

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

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

In conjunction with its associated estimate, the relative standard error may be used to define confidence intervals (ranges that would include the comparable, 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.

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Appendix D. Geographic Notes

Not applicable for this report.

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Appendix E. Metropolitan Areas

Not applicable for this report.

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

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

| NAICS product code | Footnote | |
|--------------------|---|------------|
| @3331111 | For additional detail, see Current Industrial Report MA333A, Farm Machinery and Lawn and Garden | Equipment. |
| @3331113 | For additional detail, see Current Industrial Report MA333A, Farm Machinery and Lawn and Garden | Equipment. |
| @3331117 | For additional detail, see Current Industrial Report MA333A, Farm Machinery and Lawn and Garden | Equipment. |
| 23331119 | For additional detail, see Current Industrial Report MA333A, Farm Machinery and Lawn and Garden | Equipment. |
| ©333111A | For additional detail, see Current Industrial Report MA333A, Farm Machinery and Lawn and Garden | Equipment. |
| 9333111C | For additional detail, see Current Industrial Report MA333A, Farm Machinery and Lawn and Garden | Equipment. |
| 2333111E | For additional detail, see Current Industrial Report MA333A, Farm Machinery and Lawn and Garden | Equipment. |
| 2333111G | For additional detail, see Current Industrial Report MA333A, Farm Machinery and Lawn and Garden | Equipment. |
| 2333111J | For additional detail, see Current Industrial Report MA333A, Farm Machinery and Lawn and Garden | Equipment. |

Part 2. Materials Consumed by Kind (Table 7)

Not applicable.

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

| 1997 published | 1997 collected | 1992 published | 1997 published | 1997 collected | 1992 published | 1997 published | 1997 collected | 1992 published |
|--|--------------------------------------|----------------------------------|--|--------------------------------------|--|--|--|--|
| 3331111 3331111000 | 35231 3523100 | 35231 3523100 | 3331209 3331209111 3331209245 | 35319 | 3531M pt 3531M03 3531M01 | 333132W | 35330 3533000 3533002 | 35330 3533000 3533002 |
| 3331113 3331113000 | 35232 pt 3523200 pt | 35232 pt 3523200 pt | 3331209352 3331209353 3331209366 pt | 3531920 3531930 3531960 pt | 3531M05 3531M07 pt 3531M07 pt | 3332103 3332103101 | 35533 3553311 | 35533 3553311 |
| 3331117 3331117000 | 35233 3523300 | 35233 3523300 | 3331209366 pt 3331209377 | 3531960 pt | 3531M21 pt 3531M08 pt | 3332103106 3332103111 3332103116 | 3553313 3553314 3553316 | 3553313 3553315 pt 3553315 pt |
| 3331119 3331119000 | 35235 3523500 | 35235 3523500 | 3331209388 3331209YWV | 3531980 3531900 | 3531M21 pt 3531M00 pt | 3332103121 | 3553317 3553318 | 3553315 pt 3553315 pt |
| 333111A 333111A000 | 35236 3523600 | 35236 3523600 | 333120W | 35310 pt 3531000 pt 3531002 pt | 35310 pt 3531000 pt 3531002 pt | 3332103231 3332103236 3332103241 | 3553319 3553321 3553323 | 3553319 3553321 3553323 |
| 333111C 333111C110 | 35239 3523926 | 35239 3523926 | 3331311 3331311000 | 35325 3532500 | 35325 3532500 | 3332103246 | 3553325 3553327 | 3553325 3553327 |
| 333111C220 pt | 3523931 3523953 3523900 | 3523931 3523953 3523900 | 3331313 3331313100 | | 35326 3532600 | 3332103256 3332103261 3332103266 | 3553329 3553333 3553334 | 3553329 3553333 3553334 |
| 333111E 333111E000 | 3523C | 3523C 3523C00 | 3331315 3331315000 | | 35327 3532700 | 3332103271 3332103276 3332103279 | 3553335 3553337 3553339 | 3553335 3553337 3553338 pt |
| 333111G 333111G000 pt | 3523E pt 3523E00 pt | 3523E pt 3523E00 pt | 3331317 3331317000 | 35328 3532800 | 35328 3532800 | 3332103283 3332103287 3332103291 | 3553341 3553343 3553349 | 3553338 pt 3553338 pt 3553338 pt |
| 333111G000 pt | 3523E89 | 3523E00 pt | 3331319 3331319101 3331319106 | 3532923 | 35329 3532931 pt 3532935 | 3332103291 3332103396 3332103YWV | 3553387 3553300 | 3553387 3553300 |
| 333111J000 | 3523F00 | 3523F00 | 3331319111 3331319216 | 3532927 3532929 | 3532942 3532931 pt | 3332105 3332105101 3332105211 | 35534 3553411 3553412 | 35534 3553411 3553412 |
| 333111WYWW 333111WYWY | 3523000 pt 3523002 pt | 3523000 pt | 3331319321 3331319426 3331319531 | 3532961 3532963 3532965 | 3532972 pt 3532972 pt 3532972 pt | 3332105221 3332105231 | 3553415 3553417 | 3553413 pt 3553413 pt |
| 3331121 3331121000 pt 3331121000 pt | 35241 pt 3524100 pt 3524109 | 3524100 pt | 3331319636 3331319744 3331319YWV | 3532967 3532969 3532900 | 3532972 pt 3532972 pt 3532900 | 3332105241 3332105251 3332105YWV | 3553419 3553421 3553400 | 3553413 pt 3553413 pt 3553400 |
| 3331123 3331123000 | 35244 3524400 | 35244 | 333131W | 35320 | 35320 3532000 3532002 | 333210W | 35530 3553000 3553002 | 35530 3553000 3553002 |
| 3331127 3331127000 | 35246 | 35246 | 3331321 3331321101 pt | 35337 3533710 pt | 35337 3533711 | 3332201 3332201106 3332201111 | 35593 3559303 3559305 | 35593 3559303 3559305 |
| 333112W | 35240 pt 3524000 pt 3524002 pt | 35240 pt 3524000 pt | 3331321101 pt 3331321101 pt 3331321106 3331321111 | 3533710 pt | 3533712 3533714 3533715 3533716 | 3332201116 3332201121 3332201201 3332201226 | 3559307 3559309 3559301 3559311 | 3559307 3559309 3559301 3559311 |
| 3331201 pt | 35315 pt | 3531A | 3331321116 3331321122 3331321126 | 3533717 | 3533717 3533721 3533722 | 3332201231 3332201236 3332201341 | 3559313 3559315 | 3559313 3559315 |
| • | 35315 pt | | 3331321131 3331321136 pt | 3533723 3533730 pt | 3533723 3533728 | 3332201346 | 3559317 3559319 | 3559317 3559319 |
| | 35314 35311 | | 3331321136 pt 3331321146 | 3533745 | 3533732 3533745 | 3332201351 3332201356 3332201361 | 3559321 3559323 3559324 | 3559321 3559323 3559325 pt |
| • | 35312 | | 3331321151 3331321156 | 3533748 | 3533747 3533748 | 3332201366 3332201371 | 3559326 3559328 | 3559325 pt 3559325 pt |
| 3331201 pt | 35316 pt | 3531G pt | 3331321166 pt 3331321166 pt | 3533759 pt | 3533744 3533759 | 3332201476 3332201481 | 3559342 3559344 | 3559341 pt 3559341 pt |
| 3331201 pt | 35313 | 3531G pt | 3331321271 3331321YWV | 3533761 3533700 | 3533761 3533700 | 3332201486 3332201YWV | 3559346 3559300 | 3559341 pt 3559300 |
| 3331201 pt | 3531G | 3531G pt | 3331323 3331323101 | 35338 | 35338 3533831 | 3332203 3332203101 | 35594 | 35594 3559401 |
| 3331201 pt | 35317 | 3531N pt | 3331323106 | 3533851 | 3533851 3533855 | 3332203106 3332203111 | 3559403 3559405 | 3559403 3559405 |
| 3331201 pt 3331201110 | 3531100 | 3531E00 | 3331323122 3331323226 3331323YWV | 3533898 3533899 3533800 | 3533898 3533899 3533800 | 3332203116 3332203121 | 3559407 3559416 | 3559407 3559416 |
| 3331201220 3331201330 | 3531200 3531300 | 3531F00 3531G00 pt | | 35339 | 35339 | 3332203226 3332203YWV | 3559425 3559400 | 3559425 3559400 |
| 3331201440 3331201550 pt | 3531400 3531500 pt | 3531C00 3531A00 | 3331325101 3331325106 | 3533912 | 3533912 3533913 | 333220W | 35590 pt 3559000 pt | 35590 pt 3559000 pt |
| 3331201550 pt 3331201660 pt | 3531500 pt | 3531B00 3531G00 pt | 3331325111 3331325116 | 3533914 | 3533914 3533919 | 333220WYWY | 3559002 pt | 3559002 pt |
| 3331201660 pt 3331201770 | 3531600 pt | 3531P20 3531N00 pt | 3331325121 3331325126 | 3533921 3533953 | 3533921 3533953 | 3332911 3332911101 | 35543 3554317 | 35543 3554301 pt |
| 3331201YWV pt 3331201YWV pt | 3531G00 3531700 pt | 3531G00 pt 3531N00 pt | 3331325133 3331325136 | 3533955 3533957 | 3533955 3533957 | 3332911106 3332911111 | 3554319 3554302 | 3554301 pt 3554302 |
| 3331201YWV pt | 3531600 pt | 3531P00 pt | 3331325141 3331325146 | 3533961 3533965 | 3533961 3533965 | 3332911116 3332911121 | 3554303 3554304 | 3554303 3554304 |
| 3331208 3331208110 | 35318 | 3531P pt 3531P70 | 3331325151 3331325199 | 3533971 3533998 | 3533971 3533998 | 3332911126 3332911131 | 3554305 3554309 | 3554305 3554309 |
| 3331208115 3331208126 | 3531823 3531826 | 3531P85 3531P06 | 3331325256 3331325YWV | 3533982 3533900 | 3533982 3533900 | 3332911236 3332911241 | 3554327 3554329 | 3554311 pt 3554311 pt |
| 3331208127 3331208135 | 3531827 3531835 | 3531P07 3531P11 | 3331327 | 3533A | 3533A | 3332911346 | 3554312 | 3554312 |
| 3331208144 3331208148 | 3531843 3531847 | 3531P25 3531P22 | 3331327101 3331327210 | 3533A78 | 3533A10 3533A78 | 3332911351 3332911361 | 3554313 3554315 | 3554313 3554315 |
| 3331208152 3331208156 | 3531845 3531849 | 3531P24 3531P27 | 3331327YWV | 3533A00 | 3533A00 | 3332911456 3332911566 | 3554314 3554321 | 3554314 3554321 |
| 3331208199 pt 3331208199 pt | 3531899 pt 3531899 pt | 3531P74 3531P77 3531P82 | 3331329 3331329101 | 3533B | 3533B 3533B21 3533B32 | 3332911571 3332911576 | 3554322 3554323 | 3554322 3554323 3554324 |
| 3331208199 pt 3331208199 pt 3331208YWV | 3531899 pt | 3531P82 3531P97 3531P00 pt | 3331329106 3331329111 3331329YWV | 3533B32 | 3533B32 3533B34 3533B00 | 3332911581 3332911586 3332911591 | 3554324 3554325 3554337 | 3554324 3554325 3554326 pt |
| 00012001 VV V | 5551000 | 555 11 00 pt | ۷ ۷۷ ۱ ۵ ۵ ۵ ۵ ۵ ۵ ۵ ۵ ۵ ۵ ۵ ۵ ۵ ۵ ۵ ۵ | OOOODOO | 5555 D 00 | | 0007001 | 0007020 pt |

| 1997 published | 1997 collected | 1992 published | 1997 published | 1997 collected | 1992 published | 1997 published | 1997 collected | 1992 published |
|--|-------------------------------|---|--|--|--|--|--|--|
| 3332911596 3332911YWV | 3554339 3554300 | 3554326 pt 3554300 | 3332939 pt 3332939101 3332939111 | 3555801 | 36992 pt 3555801 3555811 pt | 33329505A1 33329505A6 33329505B1 | 3559665 | 3559651 pt 3559651 pt 3559651 pt |
| 3332913 | 35544 3554401 3554402 | 35544 3554401 3554402 | 3332939121 pt 3332939121 pt 3332939131 | 3555819 pt | 3555803 3555811 pt 3699200 pt | 33329505B6 | 3559671 3559000 pt 3559600 | 3559651 pt 3559000 pt 3559600 |
| 3332913321 3332913431 3332913541 | 3554403 3554404 3554405 | 3554403 3554404 3554405 | 3332939132 3332939141 3332939251 | 3555871 3555879 | 3555869 pt 3555869 pt 3555883 | 3332950YWY | 3559002 pt | 3559002 pt 35591 |
| 3332913YWV | 3554400 35540 | 3554400 35540 | 3332939361 3332939471 | 3555885 | 3555885 3555887 | 3332981121 3332981201 3332981206 | 3559109 3559101 3559103 | 3559109 3559101 3559103 |
| 333291WYWW | 3554000 3554002 | 3554002 | 3332939581 3332939686 3332939791 | 3555891 | 3555891 3555893 3555899 | 3332981211 | 3559105 3559107 3559111 | 3559105 3559107 3559111 |
| 3332921 pt | 35521 | 35521 36992 pt | 3332939YWV pt 3332939YWV pt | 3555800 | 3555800 3699200 pt | 3332981331 3332981336 3332981YWV | 3559113 3559115 3559100 | 3559113 3559115 3559100 |
| 3332921101 3332921103 3332921106 pt 3332921106 pt | 3552159 pt | 3552115 3552125 3552136 3552138 | 333293W pt | 36990 pt | 35550 36990 pt | 3332983 3332983101 3332983106 pt | 35592 3559201 3559203 pt | 35592 3559201 3559204 |
| 3332921106 pt 3332921106 pt 3332921111 | 3552159 pt | 3552139 3552157 pt | 333293WYWW pt 333293WYWW pt 333293WYWY pt | 3699000 pt | 3555000 3699000 pt 3555002 | 3332983106 pt 3332983111 3332983116 | 3559203 pt 3559211 3559207 | 3559215 pt 3559211 3559207 |
| 3332921116 3332921121 3332921131 | 3552153 | 3552153 | 333293WYWY pt | 35561 | 3699002 pt 35561 | 3332983121 | 3559213 3559216 3559218 | 3559215 pt 3559219 pt 3559219 pt |
| 3332921136 3332921241 | 3552171 3552173 | 3552171 3552181 pt | 3332941101 3332941102 3332941103 3332941131 | 3556107 3556111 | 3556118 pt 3556118 pt 3556118 pt 3556118 pt | 3332983YWV 3332985 3332985106 | 3559200 | 3559200 35595 3559503 |
| 3332921246 3332921351 3332921356 | 3552177 3552178 | 3552182 pt 3552182 pt | 3332941141 pt 3332941141 pt 3332941141 pt | 3556117 pt | 3556105 3556106 3556109 | 3332985201 3332985211 3332985316 | 3559503 | 3559503 3559501 3559505 3559509 |
| 3332921461 3332921462 3332921476 | 3552183 3552187 | 3552183 3552187 | 3332941141 pt 3332941171 3332941YWV | 3556117 pt | 3556118 pt 3556121 3556100 | 3332985YWV 3332987 pt | 3559500 35598 | 3559500 35598 |
| 3332921566 3332921571 3332921681 | 3552184 | 3552186 pt | 3332943 3332943111 | 35562 3556211 | 35562 3556211 | 3332987 pt 3332987101 | 36395 pt | 36395 pt 3559801 pt 3559801 pt |
| 3332921686 3332921691 3332921YWV pt | 3552193 3552199 3552100 | 3552198 pt 3552198 pt | 3332943221 3332943331 3332943441 | 3556231 3556241 | 3556221 3556231 3556241 | 3332987106 3332987111 3332987121 3332987131 | 3559804 | 3559801 pt 3559805 3559809 |
| 3332921YWV pt | 3699200 pt | 3699200 pt 35522 | 3332943551 3332943661 3332943671 3332943681 | 3556265 3556273 | 3556251 3556265 3556273 3556289 pt | 3332987141 3332987146 3332987151 | 3559813 3559815 3559817 | 3559813 3559815 3559817 |
| 3332923101 3332923106 3332923111 | 3552205 3552207 3552209 | 3552211 pt 3552211 pt 3552211 pt | 3332943691 3332943YWV | 3556291 | 3556289 pt 3556200 | 3332987156 3332987161 | 3559819 3559822 | 3559819 3559822 |
| 3332923216 3332923321 3332923331 3332923336 | 3552222 | 3552231 pt 3552231 pt | 3332945 3332945101 3332945111 | 3556327 | 35563 3556304 3556312 | 3332987171 3332987181 3332987186 3332987196 | 3559827 | 3559827 3559831 3559835 3559839 |
| 3332923341 3332923346 3332923451 | 3552228 3552229 3552235 | 3552231 pt 3552231 pt | 3332945116 3332945121 3332945131 | 3556313 3556315 | 3556319 pt 3556319 pt 3556319 pt | 33329871B6 33329871C6 33329871G6 | 3559853 | 3559853 3559858 3559878 pt |
| 3332923456 3332923561 | 3552239 3552281 | 3552243 pt 3552245 pt | 3332945135 3332945141 3332945151 3332945161 | 3556331 3556333 | 3556319 pt 3556319 pt 3556319 pt 3556319 pt | 33329871H1 33329871H6 33329871J1 | 3559877 3559879 3559881 | 3559878 pt 3559878 pt 3559878 pt |
| 3332923566 3332923671 3332923681 | 3552287 3552283 3552285 | 3552274 pt 3552274 pt | 3332945206 | 3556305 | 3556305 | 33329871K1 33329871K6 pt 33329871K6 pt | 3559885 3559886 pt 3559886 pt | 3559884 pt 3559884 pt 3559888 |
| 3332923791 3332923YWV 333292W pt | 3552289 | 3552279 3552200 35520 | 3332945208 3332945371 3332945376 3332945381 | 3556341 | 3556311 3556321 pt 3556321 pt 3556321 pt | 33329871M1 pt 33329871M1 pt 33329871M6 pt | 3559887 pt 3559887 pt 3559892 pt | 3559884 pt 3559889 pt 3559884 pt |
| 333292W pt | 36990 pt | 36990 pt 3552000 | 3332945386 3332945391 3332945YWV | 3556345 3556347 | 3556321 pt 3556321 pt 3556300 | 33329871M6 pt 33329871N1 pt 33329871N1 pt | 3559892 pt 3559893 pt 3559893 pt | 3559889 pt 3559884 pt 3559890 |
| 333292WYWW pt 333292WYWY pt 333292WYWY pt | 3699000 pt | 3699000 pt | 333294W | 35560 3556000 | 35560 3556000 | 33329871N6 33329871P1 33329871R1 | 3559891 | 3559891 3559896 3639510 pt |
| 3332931 3332931101 3332931111 | 35551 | 35551 3555101 3555103 | 333294WYWY 3332950 pt | 3556002 | 3556002 35590 pt | 33329871R6 3332987216 3332987226 | 3639523 3559803 3559807 | 3639520 pt 3559803 3559807 |
| 3332931221 3332931331 3332931351 | 3555132 3555133 3555136 | 3555132 3555133 3555136 | 3332950 pt 3332950106 3332950211 | 3559615 | 35596 3559615 3559617 | 3332987236 3332987266 3332987276 | 3559811 3559825 3559829 | 3559811 3559825 3559829 |
| 3332931441 3332931YWV | 3555135 3555100 | 3555135 3555100 | 3332950326 3332950401 pt 3332950401 pt | 3559623 | 3559623 3559601 3559603 | 3332987291 33329872A1 33329872B1 | 3559836 | 3559836 3559841 3559845 |
| 3332933 pt | 35552 | 35552 36992 pt | 3332950401 pt 3332950401 pt | 3559602 pt 3559602 pt | 3559605 3559607 3559609 | 33329872C1 33329872D6 33329872F6 | 3559855 3559863 3559871 | 3559855 3559863 3559871 |
| 3332933101 3332933111 3332933221 3332933231 | 3555203 | 3555205 3555209 pt | 3332950401 pt 3332950401 pt | 3559602 pt | 3559611 3559613 | 33329872J6 33329872P6 33329873D1 | 3559883 3559897 3559861 | 3559878 pt 3559897 3559861 |
| 3332933241 3332933251 3332933261 | 3555215 3699243 3555219 | 3555209 pt 3699200 pt | 3332950416 3332950421 3332950431 | 3559619 3559621 3559625 | 3559619 3559621 3559625 | 33329873E1 | 3559865 3559867 3559869 | 3559865 3559867 3559869 |
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| 1997 published | 1997 collected | 1992 published | 1997 published | 1997 collected | 1992 published | 1997 published | 1997 collected | 1992 published |
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| 1997 published | 1997 collected | 1992 published | 1997 published | 1997 collected | 1992 published | 1997 published | 1997 collected | 1992 published |
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| 1997 published | 1997 collected | 1992 published | 1997 published | 1997 collected | 1992 published | 1997 published | 1997 collected | 1992 published |
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