All Other Industrial Machinery Manufacturing

1997

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EC97M-3332H

1997 Economic Census Manufacturing **Industry Series**



Helping You Make Informed Decisions

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All Other Industrial Machinery Manufacturing

EC97M-3332H

1997 Economic Census

Manufacturing **Industry Series**





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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	ployees	Pr	oduction work	ers				Total capital
or SIC code	Industry	Com- panies ¹	estab- lish- ments ²	Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)	Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	expendi- tures (\$1,000)
333298	All other industrial machinery											
	mfg	1 632	1 678	52 883	2 027 817	30 732	61 737	940 861	4 524 038	4 160 892	8 716 993	314 130
355930	Special industry machinery,	١.,	4 0-0								_	_
363910	n.e.c. (pt)	l N	1 672	D	ט	ט	D	ט	וט	וט	ט	ט
363910	Household appliances, n.e.c. (pt)	N	6	D	D	D	D	D	D	D	D	D

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]

Course that are dissiposites of with less t		· ·	All							,,	,,	
		establis	shments	All emp	oloyees	Pr	oduction work	ers				
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)
333298, ALL OTHER INDUSTRIAL MACHINERY MFG												
United States	2	1 678	590	52 883	2 027 817	30 732	61 737	940 861	4 524 038	4 160 892	8 716 993	314 130
Alabama Arizona Arkansas California Colorado	5	18 19 7 186 26	9 5 3 72 6	1 308 398 140 6 211 387	38 698 11 911 5 462 232 792 11 995	806 234 92 3 735 206	1 419 417 159 7 779 323	18 575 5 923 2 815 105 171 4 969	85 271 26 800 7 987 554 734 29 279	58 076 19 666 7 383 462 603 23 038	144 333 44 797 15 791 997 416 52 603	5 248 1 390 376 35 145 1 571
Connecticut Florida Georgia Illinois Indiana	2 4	42 44 36 89 51	15 16 14 34 16	1 604 1 187 1 326 3 534 1 335	72 351 38 327 46 164 142 974 49 828	744 745 795 2 186 861	1 573 1 599 1 550 4 146 1 660	25 652 20 213 21 147 70 215 28 413	198 350 90 588 88 609 391 291 87 604	154 047 79 258 82 251 353 109 108 201	356 629 172 142 172 508 751 965 201 426	5 035 16 190 6 428 23 090 8 401
Kansas Kentucky Louisiana Maine Massachusetts	- 5 -	8 14 11 7 54	6 5 4 2 17	859 282 316 118 2 119	31 370 10 547 13 231 4 724 99 917	572 160 205 60 921	1 003 322 368 122 1 985	17 676 4 895 6 749 1 765 36 312	72 519 23 328 24 491 9 052 226 970	97 271 25 287 20 897 5 619 150 837	172 506 48 028 45 781 15 225 379 812	4 511 499 1 214 80 36 331
Michigan Minnesota Missouri Nebraska New Hampshire	3 1 2	149 46 28 6 5	44 9 11 2 3	4 142 848 680 123 200	203 356 27 642 19 912 3 751 6 799	2 252 543 450 55 84	4 694 1 029 850 107 182	91 472 13 684 9 030 1 469 2 417	367 363 62 770 47 939 5 722 17 286	521 169 43 325 38 796 6 072 12 167	936 582 103 174 87 621 11 429 29 390	22 922 4 158 1 775 260 364
New Jersey New York North Carolina Ohio Oklahoma	1 2 2	75 89 51 121 24	29 28 22 50 13	1 847 2 087 1 265 4 610 1 219	76 132 83 240 46 021 173 459 41 598	1 095 1 159 792 2 894 842	2 212 2 299 1 586 6 387 1 564	36 389 34 486 22 827 90 901 24 032	147 124 172 040 104 062 351 324 122 278	122 677 185 722 86 717 305 043 120 452	269 334 355 832 186 097 653 748 244 122	8 849 7 807 6 543 17 125 3 545
Oregon	1 2 6	28 86 16 16 28	7 34 4 4 12	752 3 120 204 396 793	34 523 121 137 7 272 15 648 25 817	339 1 705 92 140 479	648 3 401 160 283 792	13 062 55 739 2 859 4 632 10 828	93 393 246 678 11 769 38 155 55 101	68 653 221 846 14 199 36 441 49 952	158 777 472 556 25 647 72 798 104 923	4 218 18 680 795 2 747 2 851
Texas Virginia Washington		114 24 27	39 13 4	3 529 886 811	114 538 33 961 35 154	2 246 564 459	4 697 1 144 831	58 202 17 311 16 778	264 072 107 175 52 599	245 597 110 119 65 687	498 811 219 459 120 383	18 901 4 632 3 045

^{*} 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
333298, ALL OTHER INDUSTRIAL MACHINERY MFG		333298, ALL OTHER INDUSTRIAL MACHINERY MFG — Con.	
Companies ¹ number	1 632	Value added	4 524 038
All establishments	1 678 1 088 466 124	Total inventories, beginning of year \$1,000. Finished goods inventories, beginning of year \$1,000. Work-in-process inventories, beginning of year \$1,000. Materials and supplies inventories, beginning of year \$1,000.	1 688 139 456 464 629 936 601 739
All employees number. Total compensation ² \$1,000. Annual payroll. \$1,000. Total fringe benefits \$1,000.	52 883 2 486 420 2 027 817 458 603		1 680 695 496 742 557 595 626 358
Production workers, average for year	30 732 30 546 30 792	Capital experiorules for buildings and other structures	2 052 626 314 130
Production workers on Nay 12	30 731 30 859	(new and used) \$1,000 Capital expenditures for machinery and equipment (new and used) \$1,000	61 337 252 793
Production-worker hours	61 737 940 861	Total retirements ² \$1,000. Gross book value of total assets at end of year \$1,000.	94 159 2 272 597
•		Total depreciation during year ² \$1,000	160 693
Total cost of materials	4 160 892 3 185 208 592 555 16 289 46 873 319 967	Buildings and other structures rental payments ²	109 174 55 979 53 195
Quantity of electricity purchased for heat and power	740 481 S		14 891 76
Total value of shipments\$1,000	8 716 993	equipment ³ \$1,000 Response coverage ratio ⁴ percent	23 186 76
Primary products value of shipments\$1,000	7 226 118	Cost of purchased communications services ³ \$1,000	22 535
Secondary products value of shipments\$1,000 Total miscellaneous receipts\$1,000	445 916 1 044 959		76 16 273
Value of resales\$1,000.	855 579	Response coverage ratio ⁴ percent	76
Contract receipts\$1,000.	95 857		12 133
Other miscellaneous receipts\$1,000	93 523	Response coverage ratio ⁴ percent Cost of purchased advertising services ³ \$1,000	76 31 220
Primary products specialization ratio	94 7 724 165	Response coverage ratio ⁴ percent	76
Value of primary products shipments made in this industry \$1,000 Value of primary products shipments made in other	7 226 118	services ³	12 373 76
industries\$1,000	498 047		E 250
Coverage ratio percent	93	services ³ \$1,000	5 350 76

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	All em	ployees	Pi	roduction work	ers				
Employment size class	E¹	Total	With 20 em- ploy- ees or more	Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)	Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
333298, ALL OTHER INDUSTRIAL MACHINERY MFG												
All establishments	2	1 678	590	52 883	2 027 817	30 732	61 737	940 861	4 524 038	4 160 892	8 716 993	314 130
Establishments with 1 to 4 employees	8	547	-	1 117	33 627	723	1 034	15 525	78 816	71 706	152 112	5 626
employees		266	_	1 758	56 843	982	1 511	25 043	124 065	100 990	224 928	7 385
employees		275	_	3 751	131 315	2 372	4 194	64 920	271 937	221 566	494 680	14 153
Establishments with 20 to 49 employees	2	323	323	10 091	370 974	6 072	12 016	175 519	763 807	638 750	1 399 643	56 427
Establishments with 50 to 99 employees	1	143	143	9 940	375 268	5 682	11 013	168 625	806 079	736 633	1 531 106	41 738
Establishments with 100 to 249 employees	2	95	95	13 758	569 573	7 540	16 142	248 997	1 254 911	1 244 617	2 516 740	75 684
Establishments with 250 to 499 employees	2	21	21	7 254	294 925	4 501	9 299	149 252	631 437	723 721	1 381 285	47 869
employees	1	7	7	D	D	D	D	D	D	D	D	D
Establishments with 1,000 to 2,499 employees	-	1	1	D	D	D	D	D	D	D	D	D
or more	-	-	_	-	-	-	-	-	-	-	_	_
Administrative records ²	9	623	-	2 183	59 964	1 288	1 712	27 204	132 022	117 170	249 827	9 771

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; 70 to 79 percent; 8–80 to 89 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)
333298	All other industrial machinery mfg	1 678	52 883	2 027 817	30 732	61 737	940 861	4 524 038	4 160 892	8 716 993	314 130
3332981	Chemical manufacturing machinery,										
3332983	equipment, and parts	98	7 211	270 169	3 644	7 200	119 123	676 565	492 501	1 175 591	39 045
	excluding patterns and molds	59	2 846	112 125	1 624	3 363	49 768	220 700	206 594	426 400	10 869
3332985	Printed circuit board manufacturing	96	7 407	253 864	4 655	10 041	117 013	577 483	509 860	1 075 053	56 588
3332987	machinery, except testing Special industry machinery and	96	7 407	253 664	4 655	10 041	117 013	5// 463	509 860	1 0/5 053	20 200
	equipment, nec	477	27 128	1 123 137	15 968	33 064	528 604	2 472 243	2 440 393	4 947 051	165 161

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]

	For explanation of terms, see appendixes]									
			19	97			Number of Product shipme			
NAICS		Number of companies		Product	shipments	Number of companies		Product	shipments	
product code	Product	with	Quantity of			with	Quantity of			
		of \$100,000	production for all		Value	of \$100,000	production for all		Value	
		or more	purposes	Quantity	(\$1,000)	or more	purposes	Quantity	(\$1,000)	
333298	All other industrial machinery and equipment	N	х	х	7 724 165	N	х	х	N	
3332981	Chemical manufacturing machinery, equipment, and parts	N	Х	х	1 117 017	N	х	х	818 758	
33329811	Chemical manufacturing mixing, kneading, crushing, grinding, sifting, homogenizing (except dairy),									
3332981121	emulsifying, or stirring machines Chemical manufacturing mixing, kneading, crushing, grinding, sifting,	N	Х	Х	156 479	N	x	Х	N	
	homogenizing (except dairy), emulsifying, or stirring machines	44	X	Х	156 479	41	x	Х	161 320	
33329812	Other chemical manufacturing machines and equipment	N	X	х	816 574	N	x	Х	N	
3332981201	rectifying, or fractionating machinery	12	X	Х	78 382	14	x	Х	37 800	
3332981206	and equipment	13	X	X	99 142	19	x	X	65 241	
3332981211 3332981216	Chemical manufacturing dryers Chemical manufacturing gas or air	24	x	x	82 280	24	â	x	64 036	
3332981226	liquefying machinery Other chemical manufacturing	5	Χ	Х	95 507	7	X	X	77 961	
	machines and equipment	47	Х	Х	461 263	51	X	X	214 143	
33329813	Parts for chemical manufacturing machinery and equipment	N	x	Х	122 447	N	x	х	N	
3332981331	Parts for chemical manufacturing distilling, rectifying, fractionating, heat exchange, dryers, gas or air liquefying									
3332981336	machinery and equipment	14 35	X X	X X	34 413 88 034	22 28	x x	X X	103 790 50 181	
00000041/	machinery and equipment	35	^	^	00 034	20	^	^	50 161	
3332981Y	Chemical manufacturing machinery, equipment, and parts, nsk.	N	Х	X	21 517	N	х	X	N	
3332981YWV	Chemical manufacturing machinery, equipment, and parts, nsk	N	X	X	21 517	N	х	Х	44 286	
3332983	Foundry machinery and equipment, excluding patterns and molds	N	х	х	353 683	N	х	X	319 026	
33329831	Foundry machinery and equipment, including converters, excluding patterns		Х	V	205 206	, .	x	х	N.	
3332983101	and molds	N		Х	265 286	N			N	
3332983106	machines Foundry molding and core-making	16	X	X	23 754	12	X	X	22 604	
3332983111	machines Foundry casting machines, except die casting machines, patterns, and	11	Х	Х	31 493	N	X	Х	N	
3332983116	moldsFoundry blast cleaning machines	10	X	X	20 144	5	X	Х	13 956	
3332983121	(hydraulic, pneumatic, and airless)	13	Х	Х	61 646	14	X	Х	70 402	
	equipment, including converters, excluding patterns and molds	31	X	Х	128 249	N	×	Х	N	
33329832	Parts for foundry machinery and equipment.	N	X	х	80 750	N	x	X	N	
3332983226	Parts for foundry blast cleaning machines		х	X	9 337	N	x	х	N	
3332983231	Other parts for foundry machinery and equipment	31	Х	х	71 413	N	х	Х	N	
3332983Y	Foundry machinery and equipment,			V						
3332983YWV	excluding patterns and molds, nsk. Foundry machinery and equipment, excluding patterns and molds, nsk.	N N	×	X X	7 647 7 647	N N	X X	X X	N 22 004	
3332985	Printed circuit board manufacturing machinery, except testing	N	Х	Х	986 927	N	x	X	575 522	
33329851	Through-hole printed circuit board									
3332985106	manufacturing machinery, except testing Through-hole printed circuit board	N	Х	х	250 236	N	x	X	N	
	manufacturing machinery, except testing	34	х	Х	250 236	35	x	Х	203 281	
33329852	Other printed circuit board manufacturing machinery and equipment, and parts,									
3332985201	accessories, and attachments, except testing	N	Х	Х	616 835	N	x	Х	N	
	manufacturing machinery, except testing	55	x	Х	360 263	32	x	Х	176 862	
3332985211	Other printed circuit board manufacturing machinery and equipment, except testing	43	х	х	256 572	43	x	х	116 834	

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]

introductory text	t. For explanation of terms, see appendixes]		19	97			19	192	
		Number of			shipments	Number of			shipments
NAICS 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)
333298	All other industrial machinery and equipment—Con.								
3332985	Printed circuit board manufacturing machinery, except testing—Con.								
33329853	Parts, attachments, and accessories for printed circuit board manufacturing machinery and equipment, except								
3332985316	testing. Parts, attachments, and accessories for printed circuit board manufacturing machinery and equipment, except testing.	N 28	X X	x x	85 631 85 631	N 25	x x	x x	46 505
3332985Y	Printed circuit board manufacturing								
3332985YWV	machinery, except testing, nsk	N N	X X	X X	34 225 34 225	N N	X X	X X	N 32 040
3332987	Special industry machinery and equipment, nec @	N	x	х	4 350 135	N	x	х	N
33329871	Other special industry machines, including petroleum refining, ammunition, grinding or polishing machines for glass working, and other								
3332987101	machines, nec Petroleum refining, distilling, or fractionating machinery and	N	X	Х	1 056 696	N	X	Х	N
3332987106	equipmentPetroleum refining heat exchange	13	X	X	207 505 D	N	X	X X	N
3332987111 3332987121	units Other petroleum refining machinery Ammunition and explosive loading	2	X X	X	D	N N	X	Х	N
3332987131	machinery, except parts	3 10	X X	X X	6 480 37 710	9	x x	X X	19 461 39 200
3332987141	Sawing machines for working stone, ceramics, or like materials (including								
3332987146	glass)	7	X	X	14 678	5	Х	х	8 685
3332987151	glass working	4	X	Х	D	3	X	Х	1 821
3332987156	materiāls (except glass)	8 6	X X	X X	16 358 42 840	10	x x	X X	15 666 59 701
3332987161	machines Other special industry machines for working stone, ceramics, or like materials (except glass)		x	X	11 899	17	x	X	33 744
3332987171	Clay products forming equipment (brick, tile, ceramic), except parts	5	Х	х	12 500	13	x	х	30 730
3332987181	Concrete block forming equipment, except parts	3	X	X	12 300 D	5	x	x	32 031
3332987186	Other concrete products forming equipment, except parts	11	х	х	44 525	10	х	x	18 479
3332987196 33329871B6	Cement making machinery, except parts Cotton ginning machinery, except	5	х	Х	48 931	5	х	х	D
	parts	8	Х	X	63 890	7	X	х	66 373
33329871C6	Fuel fired kilns for cement, wood, and chemical processing and parts thereof.	7	x	Х	61 460	12	x	х	35 616
33329871G6	Distilling or rectifying equipment for desalinization Heat exchange units for desalinization		х	X	D	N N	х	x	N
33329871H1 33329871H6	Filtering or purifying machinery and		X		D	N	X	X	N
33329871J1	apparatus for desalinization	2	X	X	103 469 D	N N	XX	X	N N
33329871K1	Footware manufacturing or repairing machinery, and parts thereof (except shoe sole stitching machines)	8	х	х	15 405	N	х	x	N
33329871K6	Industrial sewing machine heads (including shoe sole stitching machine heads)	12	x	x	45 003	N	x	x	N
33329871M1 33329871M6	Automatic industrial sewing machinery	13	Х	Х	58 995	N	X	Х	N
33329871N1	machinery. Industrial sewing machine furniture and other parts and attachments		X X	X X	15 004 53 452	N N	X X	X X	N N
33329871N6	Machines for insulating electrical wire for cable and parts thereof		x	X	D	5	x	х	20 720
33329871P1	Electric battery manufacturing		X	X	43 541	12	X	×	20 736 23 945
33329871R1	machinery, except parts. Household sewing machines (including heads for sale with cabinets or cases, and heads for sale separately)	_	×	X	D	N	x	X	N
33329871R6	Parts for household sewing machines	4	Х	Х	19 105	l N	x l	Х	N

See footnotes at end of table.

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		Product	shipments	Number of		Product	shipments
product	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)
333298	All other industrial machinery and equipment—Con.								
3332987	Special industry machinery and equipment, nec @ —Con.								
33329872	Parts for special industry machinery and equipment	N	Y	Y	374 101	N	x	х	N
3332987216 3332987226	Parts for petroleum refining machinery Parts for ammunition and explosive	4	X X	X X	D D	11	Х	Х	99 703
3332987236	loading machinery	6	X X	X X	13 326	9	×	X X	D 10 014
3332987266	machinery	6	^	^	13 320	9	^	^	10 014
3332987276	glass) Parts for clay products forming equipment (brick, tile, ceramic)	10	X X	X X	11 809 17 794	15 5	×	X	21 261 15 789
3332987291	Parts for concrete products forming	4	^	^	17 794		^	^	15 769
33329872A1 33329872B1	equipment. Parts for cement making machinery Parts for glassmaking machinery and	7 5	X	X X	58 186 9 176	8 4	X X	X	53 589 D
33329872C1 33329872D6	equipment. Parts for cotton ginning machinery Parts for electroplating equipment	19 8 8	X X X	X X X	137 688 18 992 8 368	14 6 6	X X X	X X X	83 089 24 540 7 834
33329872F6	Parts for metal finishing equipment	12	X	X	7 551	14	х	х	12 645
33329872J6 33329872P6	Parts of desalinization equipment Parts for electric battery making machines	8	X	X	8 033	N 6	X X	X X	N 8 152
33329873	Metal finishing, degreasing, and metal								
2222007204	plating equipment, except rolling mill equipment, and parts	N	Х	Х	294 706	N	х	Х	N
33329873D1 33329873E1	Electroplating equipment (except rolling mill lines and parts)	13	X	Х	56 997	20	Х	Х	45 952
33329873E6	except parts	6	X	Х	5 155	7	Х	Х	9 776
33329873F1	electroplating and parts	9	X	Х	10 877	14	Х	Х	21 033
2222007204	electroplating, rolling mill equipment, and parts	20	Х	х	117 620	31	x	х	114 353
33329873G1	Metal degreasing machines and parts thereof.	17	Х	Х	104 057	16	x	x	33 496
33329874	Glassmaking machinery and equipment, including machines for hot working glass								
33329874A6	or glassware, except parts Glassmaking machinery and equipment, including machines for hot	N	Х	Х	205 818	N	Х	Х	N
	working glass or glassware, except parts	15	X	Х	205 818	20	x	х	191 058
33329875	Special industry machinery and parts,	N.	~	~	2 040 224	N.	v	_	N
33329875R1	nec. Special industry machinery and parts, nec.	314	X X	X X	2 049 321 2 049 321	N N	X X	X X	N
3332987Y	Special industry machinery and								
3332987YWV	equipment, nec, nsk Special industry machinery and equipment, nec, nsk	N N	X X	X X	369 493 369 493	N N	×	X X	N N
333298W	All other industrial machinery manufacturing, nec, nsk, total	N	X	×	916 403	N	x	×	N N
333298WY	All other industrial machinery								
333298WYWW	manufacturing, nec, nsk, tótal	N	Х	Х	916 403	N	Х	Х	N
333298WYWY	nonadministrative-record establishments All other industrial machinery	N	X	Х	691 085	N	×	х	N
	manufacturing, nec, nsk, for administrative-record establishments	N	х	Х	225 318	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.

[#] 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

[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 (\$1,000	
code		1997	1992
3332981	CHEMICAL MANUFACTURING MACHINERY, EQUIPMENT, AND PARTS		
	United States	1 117 017	818 758
	CaliforniaFlorida	27 953 20 285	53 835 17 029
	Georgia Illinois	13 095 78 048	17 023 N 42 230
	Louisiana	14 538	42 230 N
	MassachusettsMichigan	69 447 164 151	27 83 ⁴ N
	Minnesota	13 854 21 139	N
	New Jersey	32 287	46 62° 33 49°
	Ohio	113 068 53 835	101 177
	Oklahoma	120 123	40 078 138 558
	Texas:	45 538	19 36
332983	FOUNDRY MACHINERY AND EQUIPMENT, EXCLUDING PATTERNS AND MOLDS		
	United States	353 683	319 026
	California.	4 713 55 426	N 51 497
	Indiana	14 115 56 219	53 639
	Missouri.	37 396	27 723
	New Jersey	2 650	N
	Ohio	11 555 40 670	N 27 538
	Pennsylvania	6 286 19 232	13 101 13 609
3332985	PRINTED CIRCUIT BOARD MANUFACTURING MACHINERY, EXCEPT TESTING		
	United States	986 927	575 522
	California	305 824	181 833
	Florida	37 463 8 951	20 103 N
	Missouri	5 667 31 481	N 14 504
	New Jersey		
	New York	33 320 27 881	10 483
	TexasVirginia	124 826 2 455	Ņ
	Wisconsin	17 389	N
3332987	SPECIAL INDUSTRY MACHINERY AND EQUIPMENT, NEC @		
	United States	4 350 135	N
	Arizona	18 643 441 058	N N
	Colorado	13 389 292 015	N N
	Florida	76 926	N
	Georgia	111 939 395 226	N N
	Indianalowa	149 802 57 431	N N
	Kentucky	21 393	N
	Louisiana	27 617 39 576	N N
	Massachusetts . Michigan .	124 944 538 545	Ņ
	Minnesota	77 597	Ň
	Missouri. New Jersey.	39 948 132 916	N N
	New York North Carolina	179 841 179 684	Ň
	Ohio	307 963	N
	Oklahoma	162 607	Ŋ
	Oregon Pennsylvania	24 448 169 521	N
	Rhode Island	11 410 54 891	Ŋ
	Tennessee	56 650	Ņ
	Texas	202 469 88 658	N N
	Washington	50 374 6 496	N N
	Wisconsin	100 699	N

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

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

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

Table 7. Materials Consumed by Kind: 1997 and 1992

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

NAICS		19	97	199	92
material code	Material consumed	Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
333298	ALL OTHER INDUSTRIAL MACHINERY MFG				
001900B1 33399601	Electrical transmission, distribution, and control equipment	X	114 250	x	N
33391101 33291207 33399501	pneumatic). Other pumps and pump parts, except fluid power (complete assemblies). Fluid power valves (hydraulic and pneumatic). Fluid power cylinders and rotary actuators (hydraulic and pneumatic).	X X X	40 715 26 602 21 642 23 430	X X X	2 2 2 2
33291203 33399901 00190089 33272203	Fluid power hose or tube fittings and assemblies (hydraulic and pneumatic) Fluid power filters (hydraulic and pneumatic) Other fluid power products (hydraulic and pneumatic) Metal bolts, nuts, screws, washers, rivets, and other screw machine	X X X	13 092 7 500 6 762	X X X	N N N
332000A1	products Metal tanks, heat exchangers, steam condensers, and other boiler products, fabricated steel plate, and weldments	X X	45 797 52 616	X X	N N
33291901 33200051 33210001 33151001 33152005	Metal pipe, valves, and pipe fittings (except forgings) Other fabricated metal products (except fluid power products and forgings) Forgings Iron and steel castings (rough and semifinished) Aluminum and aluminum-base alloy castings (rough and semifinished)	X X X X	44 645 179 875 7 750 58 387 18 740	X X X X X	N N N N N
33152003 33120007	Other nonferrous castings (rough and semifinished)	Х	4 685	x	N
33120017 33120019	metal products) Steel sheet and strip, including tin plate Steel structural shapes and sheet piling (except castings, forgings, and	X	115 568 145 827	XX	N N
33120091	fabricated metal products) All other steel shapes and forms (except castings, forgings, and fabricated metal products).	X X	28 619 53 827	X X	N N
33131501	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing	X	18 970	×	N
33100055 33100077	All other aluminum and aluminum-base alloy shapes and forms (except castings, forgings, and fabricated metal products) Other nonferrous shapes and forms (except castings, forgings, and	Х	12 017	×	N
33531217 33531221	fabricated metal products) Other fractional horsepower electric motors (under 1 hp) Integral horsepower electric motors and generators (1 hp or more)	X X X	15 504 19 067 34 936	X X X	N N N
33299101 33361200 33391200 32212031 33120033	Ball and roller bearings (mounted or unmounted) Mechanical speed changers, gears, and industrial high-speed drives Air and gas compressors except refrigeration compressors Filter paper All other steel shapes and forms (except castings, forgings, and fabricated metal products)	X X X X	26 217 30 154 4 542 10 676 1 086	X X X X	N N N N
33100039	Aluminum and aluminum-base alloy shapes and forms (except castings, forgings, and fabricated metal products)	Х	10 879	X	N
32220017 33593101 32610013	Paper and paperboard containers, including shipping sacks and other paper packaging supplies. Current-carrying wiring devices. Plastics products consumed in the form of sheets, rods, tubes, film, and	X	13 183 1 832	X	N N
32521105	other shapes	X	2 551	x	N
00970099 00971000	etc. All other materials and components, parts, containers, and supplies. Materials, ingredients, containers, and supplies, n.s.k.	X X X	3 485 1 089 264 880 516	X X X	N 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.

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.

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Duplication in Cost of Materials and Value of Shipment

The aggregate of the cost of materials and value of shipments figures for industry groups and for all manufacturing industries includes large amounts of duplication since the products of some industries are used as materials by others. This duplication results, in part, from the addition of related industries representing successive stages in the production of a finished manufactured product. Examples are the addition of flour mills to bakeries in the food group and the addition of pulp mills to paper mills in the paper and allied products group of industries. Estimates of the overall extent of this duplication indicate that the value of manufactured products exclusive of such duplication (the value of finished manufactures) tends to approximate two-thirds of the total value of products reported in the annual survey.

Duplication of products within individual industries is significant within a number of industry groups, e.g., machinery and transportation industries. These industries frequently include complete machinery and their parts. In this case, the parts made for original equipment are materials consumed for assembly plants in the same industry.

Even when no significant amount of duplication is involved, value of shipments figures are deficient as measures of the relative economic importance of individual manufacturing industries or geographic areas because of the wide variation in ratio of materials, labor, and other processing costs of value of shipments, both among industries and within the same industry.

Before 1962, cost of materials and value of shipments were not published for some industries which included considerable duplication. Since then, these data have been published for all industries at the U.S. level and beginning in 1964, for all geographic levels.

Specialization and Coverage Ratios

These items are not collected on the report forms but are derived from the data shown in Table 3. An establishment is classified in a particular industry if its shipments of primary products of that industry exceed in value its shipments of the products of any other single industry.

An establishment's shipments include those products assigned to an industry (primary products), those considered primary to other industries (secondary products), and receipts for miscellaneous activities (merchandising, contract work, resales, etc.). Specialization and coverage ratios have been developed to measure the relationship of primary product shipments to the data on shipments for the industry shown in Tables 1a through 5 and data on product shipments shown in Tables 6a and 6b.

Specialization ratio represents the ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for the establishments classified in the industry.

Coverage ratio represents the ratio of primary products shipped by the establishments classified in the industry to the total shipments of such products that are shipped by all manufacturing establishments wherever classified.

Appendix B. NAICS Codes, Titles, and Descriptions

333298 ALL OTHER INDUSTRIAL MACHINERY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing industrial machinery (except agricultural and farm-type, construction and mining machinery, sawmill and woodworking machinery, plastics and rubber making machinery, paper and paperboard

making machinery, textile machinery, printing machinery and equipment, food manufacturing-type machinery, and semiconductor making machinery).

The data published with NAICS code 333298 include the following SIC industries:

3559 Special industry machinery, n.e.c. (pt) 3639 Household appliances, n.e.c. (pt)

Appendix C. Coverage and Methodology

MAIL/NONMAIL UNIVERSE

The manufacturing universe includes about 400,000 establishments. This number includes those industries in the North American Industry Classification System (NAICS) definition of manufacturing, but not those industries leaving the manufacturing sector in the classification change. The amounts of information requested from manufacturing establishments were dependent upon a number of factors. The more important considerations were the size of the company and whether it was included in the annual survey of manufactures (ASM). The methods of obtaining information for the various subsets of the universe to arrive at the aggregate figures shown in the publication are described below:

 Small single-establishment companies not sent a report form.

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

Estimates of data for these small establishments were developed using industry averages in conjunction with the administrative information. The value of shipments and cost of materials were not distributed among specific products and materials for these

establishments but were included in the product and material "not specified by kind" (nsk) categories.

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

Sometimes the administrative-record cases had only two- or three-digit SIC group classification codes available in the files. For the 1997 Economic Census – Manufacturing, these establishments were sent a separate classification form, which requested information on the products and services of the establishment. This form was used to code many of these establishments to the appropriate six-digit NAICS level. Establishments that did not return the classification form were coded later to those six-digit NAICS industries identified as "All other" industries within the given subsector.

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

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

2. Establishments sent a report form.

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

a. ASM sample establishments.

This group accounts for approximately 15 percent of all manufacturing establishments. The ASM panel covers all the units of large manufacturing establishments as well as a sample of the medium and smaller establishments. The probability of selection was proportionate to size. For more information, see the Description of the ASM Survey Sample.

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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.

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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.

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

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

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

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

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

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

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

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

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

DESCRIPTION OF THE ASM ESTIMATING PROCEDURE

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

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

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

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

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

QUALIFICATIONS OF THE ASM DATA

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

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

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

In conjunction with its associated estimate, the relative standard error may be used to define confidence intervals (ranges that would include the comparable, 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
@3332987	For additional detail, see Current Industrial Report MA335F, Major Household Appliances.

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	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	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 3332103251	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	3553341 3553343	3553338 pt 3553338 pt
333111G000 pt	3523E89	3523E00 pt	3331319	3532923	35329 3532931 pt	3332103291 3332103396 3332103YWV	3553349 3553387 3553300	3553338 pt 3553387 3553300
333111J 333111J000	3523F	3523F00	3331319106 3331319111 3331319216	3532925 3532927 3532929	3532935 3532942 3532931 pt	3332105 3332105101	35534 3553411	35534 3553411
333111W	35230 pt 3523000 pt 3523002 pt	3523000 pt	3331319321 3331319426 3331319531	3532961 3532963 3532965	3532972 pt 3532972 pt 3532972 pt	3332105211 3332105221 3332105231	3553412 3553415 3553417	3553412 3553413 pt 3553413 pt
3331121 3331121000 pt	35241 pt	35241 pt	3331319636 3331319744 3331319YWV	3532967 3532969	3532972 pt 3532972 pt	3332105241 3332105251 3332105YWV	3553419 3553421 3553400	3553413 pt 3553413 pt 3553400
3331121000 pt	3524109	3524100 pt	333131W	35320	3532900 35320	333210W	35530 3553000	35530 3553000
3331123 3331123000	35244 3524400	3524400	333131WYWW		3532000 3532002	333210WYWY 3332201	3553002 35593	3553000 3553002 35593
3331127 3331127000	35246 3524600	35246 3524600	3331321	35337	35337 3533711 3533712	3332201106 3332201111	3559303 3559305 3559307	3559303 3559305
333112W	35240 pt	3524000 pt	3331321101 pt 3331321106 3331321111	3533710 pt	3533714 3533715 3533716	3332201116 3332201121 3332201201	3559309 3559301	3559307 3559309 3559301
333112WTWT	3524002 pt	·	3331321116 3331321122	3533717 3533721	3533717 3533721	3332201226 3332201231 3332201236	3559311 3559313 3559315	3559311 3559313 3559315
3331201 pt	35315 pt	3531B	3331321126 3331321131 3331321136 pt	3533722	3533722 3533723 3533728	3332201341 3332201346	3559317 3559319	3559317 3559319
	35314		3331321136 pt 3331321146	3533730 pt	3533732 3533745	3332201351 3332201356	3559321 3559323	3559321 3559323
•	35311 35312		3331321151 3331321156	3533747	3533747 3533748	3332201361 3332201366 3332201371	3559324 3559326 3559328	3559325 pt 3559325 pt 3559325 pt
•	35316 pt		3331321166 pt 3331321166 pt	3533759 pt	3533744 3533759	3332201476 3332201481	3559342 3559344	3559341 pt 3559341 pt
3331201 pt	·	•	3331321271 3331321YWV	3533761 3533700	3533761 3533700	3332201486 3332201YWV	3559346 3559300	3559341 pt 3559300
3331201 pt	3531G	3531G pt	3331323 3331323101	35338 3533831	35338 3533831	3332203	35594	35594
3331201 pt	35317	3531N pt	3331323106 3331323111	3533851 3533855	3533851 3533855	3332203101 3332203106 3332203111	3559401 3559403 3559405	3559401 3559403 3559405
3331201 pt			3331323122 3331323226	3533898 3533899	3533898 3533899	3332203116 3332203121	3559407 3559416	3559407 3559416
3331201110 3331201220	3531200	3531F00	3331323YWV	3533800	3533800	3332203226 3332203YWV	3559425 3559400	3559425 3559400
3331201330 3331201440	3531400	3531C00	3331325101	35339	35339 3533912	333220W	35590 pt	35590 pt
3331201550 pt 3331201550 pt	3531500 pt	3531A00 3531B00	3331325106 3331325111	3533913 3533914	3533913 3533914	333220WYWW	3559000 pt 3559002 pt	3559000 pt 3559002 pt
3331201660 pt 3331201660 pt	3531600 pt	3531G00 pt 3531P20	3331325116 3331325121	3533919 3533921	3533919 3533921	3332911	35543	35543
3331201770 3331201YWV pt	3531700 pt	3531N00 pt 3531G00 pt	3331325126 3331325133	3533953 3533955	3533953 3533955	3332911101 3332911106	3554317 3554319	3554301 pt 3554301 pt
3331201YWV pt 3331201YWV pt	3531700 pt	3531N00 pt 3531P00 pt	3331325136 3331325141	3533957 3533961	3533957 3533961	3332911111 3332911116	3554302	3554302 3554303
3331208	35318	3531P pt	3331325146 3331325151	3533965 3533971	3533965 3533971	3332911121 3332911126	3554304	3554304 3554305
3331208110 3331208115	3531807 3531823	3531P70 3531P85	3331325151 3331325199	3533998 3533982	3533971 3533998 3533982	3332911131 3332911236	3554309 3554327	3554309 3554311 pt
3331208126 3331208127	3531826 3531827	3531P06 3531P07	3331325YWV	3533900	3533902	3332911241 3332911346	3554329 3554312	3554311 pt 3554312
3331208135 3331208144	3531835 3531843	3531P11 3531P25	3331327 3331327101	3533A 3533A10	3533A 3533A10	3332911351	3554313	3554313
3331208148 3331208152	3531847 3531845	3531P22 3531P24	3331327101 3331327210 3331327YWV	3533A78 3533A00	3533A78 3533A00	3332911361 3332911456	3554315 3554314	3554315 3554314
3331208156 3331208199 pt	3531849 3531899 pt	3531P27 3531P74	3331329	3533B	3533A00 3533B	3332911566 3332911571	3554321 3554322	3554321 3554322
3331208199 pt 3331208199 pt	3531899 pt	3531P77 3531P82	3331329101 3331329106	3533B21	3533B21 3533B32	3332911576 3332911581	3554323 3554324	3554323 3554324
3331208199 pt 3331208YWV	3531899 pt	3531P97 3531P00 pt	3331329106 3331329111 3331329YWV	3533B32	3533B34 3533B00	3332911586 3332911591	3554325 3554337	3554325 3554326 pt
JJJ 1200 I VV V	3031000	303 IF 00 Pt	1 000 1023 1 VV V	JJJJD00	5555000	1 0002311031	0004001	0004020 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 3559667 3559669	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	3555893	3555891 3555893 3555899	3332981211	3559105 3559107 3559111	3559105 3559107 3559111
3332921 pt	35521	35521 36992 pt	3332939YWV pt 3332939YWV pt	3555800	3555800	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	35561	3332983121 3332983226 3332983231	3559213 3559216 3559218	3559215 pt 3559219 pt 3559219 pt
3332921136 3332921241	3552171	3552171	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	3556304	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 3332923791	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	3552289	3552279 3552200 35520	3332945208 3332945371 3332945376 3332945381	3556340 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	33329871M6 pt 33329871N1 pt 33329871N1 pt	3559892 pt 3559893 pt 3559893 pt	3559889 pt 3559884 pt 3559890
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3332931 3332931101 3332931111	35551	35551 3555101 3555103	333294WYWY 3332950 pt	3556002	3556002 35590 pt	33329871R6 3332987216 3332987226	3639523 3559803 3559807	3639520 pt 3559803 3559807
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