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1997 Economic Census *Manufacturing* Industry Series



Helping You Make Informed Decisions

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



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-- Not applicable for this report.

Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

The economic census is the major source of facts about the structure and functioning of the Nation's economy. It provides essential information for government, business, industry, and the general public. Title 13 of the United States Code (Sections 131, 191, and 224) directs the Census Bureau to take the economic census every 5 years, covering years ending in 2 and 7.

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

- Policymaking agencies of the Federal Government use the data to monitor economic activity and assess the effectiveness of policies.
- State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.
- Trade associations study trends in their own and competing industries, which allows them to keep their members informed of market changes.
- Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

ALL-NEW INDUSTRY CLASSIFICATIONS

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

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

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

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

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

RELATIONSHIP TO SIC

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

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

GEOGRAPHIC AREA CODING

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

1997 ECONOMIC CENSUS

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

BASIS OF REPORTING

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

DOLLAR VALUES

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

All dollar values are shown in thousands of dollars.

AVAILABILITY OF ADDITIONAL DATA

Reports in Print and Electronic Media

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

Special Tabulations

Special tabulations of data collected in the 1997 Economic Census may be obtained, depending on availability of time and personnel, in electronic or tabular form. The data will be summaries subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) that govern the regular publications.

Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact specifications on the type and format of the data to be provided, should be directed to the Chief of the division named below, U.S. Census Bureau, Washington, DC 20233-8300. To discuss a special tabulation before submitting specifications, call the appropriate division:

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

HISTORICAL INFORMATION

The economic census has been taken as an integrated program at 5-year intervals since 1967 and before that for 1954, 1958, and 1963. Prior to that time, individual components of the economic census were taken separately at varying intervals.

The economic census traces its beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for the 1840 Decennial Census and subsequent censuses to include mining and some commercial activities. The 1905 Manufactures Census was the first time a census was taken apart from the regular decennial population census. Censuses covering retail and wholesale trade and construction industries were added in 1930, as were some covering service trades in 1933. Censuses of construction, manufacturing, and the other business service censuses were suspended during World War II.

The 1954 Economic Census was the first census to be fully integrated: providing comparable census data across economic sectors, using consistent time periods, concepts, definitions, classifications, and reporting units. It was the first census to be taken by mail, using lists of firms provided by the administrative records of other Federal agencies. Since 1963, administrative records also have been used to provide basic statistics for very small firms, reducing or eliminating the need to send them census questionnaires.

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

Printed statistical reports from the 1992 and earlier censuses provide historical figures for the study of longterm time series and are available in some large libraries. All of the census reports printed since 1967 are still available for sale on microfiche from the Census Bureau. CD-ROMs issued from the 1987 and 1992 Economic Censuses contain databases including nearly all data published in print, plus additional statistics, such as ZIP Code statistics, published only on CD-ROM.

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the *Guide to the 1997 Economic Census and Related Statistics* at www.census.gov/econguide. More information on the methodology, procedures, and history of the censuses will be published in the *History of the 1997 Economic Census* at www.census.gov/econ/www/history.html.

ABBREVIATIONS AND SYMBOLS

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

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

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

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Manufacturing

SCOPE

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

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

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

GENERAL

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

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

State reports, which include the District of Columbia, present similar statistics at the "all manufacturing" level for each state and its metropolitan areas (MAs) with 250 employees or more, and for counties, consolidated cities, and places with 500 employees or more. The state reports also include six-digit NAICS level data for industries with 100 employees or more in the state.

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

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

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

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

GEOGRAPHIC AREAS COVERED

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

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

Data are available for the metropolitan areas (MAs) with 250 employees or more. The term MA is a general term used to encompass all of the specifically defined metropolitan areas. A consolidated metropolitan statistical area (CMSA) is made up of two or more contiguous primary metropolitan statistical areas (PMSAs) with a combined population of at least 1 million. A PMSA is a subdivision of a CMSA that demonstrates very strong internal economic and social links separate from the ties to other portions of the CMSA. A metropolitan statistical area (MSA) is an integrated economic and social unit with a population of at least 50,000. An MA is made up of one or more counties meeting standards of metropolitan character. In New England, cities and towns, rather than counties, are the component geographic units. Determination of the MAs was made by the Office of Management and Budget (OMB) as of June 30, 1997. The population estimates were from the 1990 Census of Population or a subsequent special census. When applicable, the make-up of an MA is included in Appendix E. Changes to geographical boundaries are noted in Appendix D.

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

The state reports include data for places with 500 employees or more. Places are typically cities, towns, and villages. They may be incorporated municipalities, 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			All	All emp	oloyees	Pr	oduction work	ers				Total capital
or SIC code	Industry	Com- panies ¹	estab- lish- ments ²	Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)	Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	expendi- tures (\$1,000)
511120 272100	Periodical publishers Periodicals		6 298 6 298	137 550 137 550	5 993 142 5 993 142	25 447 25 447	51 191 51 191	836 249 836 249	22 099 084 22 099 084	7 844 805 7 844 805	29 884 807 29 884 807	472 080 472 080

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

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control. ²Includes establishments with payroll at any time during the year.

Table 2. Industry Statistics for Selected States: 1997

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

			All shments	All em	ployees	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)
511120, PERIODICAL PUBLISHERS												
United States	2	6 298	1 159	137 550	5 993 142	25 447	51 191	836 249	22 099 084	7 844 805	29 884 807	472 080
Alabama	1	71	15	1 503	53 292	258	470	7 802	271 527	86 425	358 433	3 134
Arizona .	4	125	12	1 155	37 723	416	804	11 875	98 592	46 372	145 614	2 440
California .	2	831	166	15 689	663 485	3 155	6 381	101 815	2 524 721	933 360	3 455 058	58 704
Colorado	2	139	22	1 984	75 114	419	781	11 609	243 180	73 649	313 997	6 373
Connecticut	3	136	35	3 690	179 277	641	1 280	21 725	562 848	201 908	763 049	22 287
District of Columbia Florida . Georgia . Hawaii * Illinois	1 3 1 1	91 416 167 35 298	26 49 28 6 8	4 876 4 925 3 904 349 7 942	252 296 166 217 122 204 11 077 331 418	603 1 268 889 165 1 346	1 394 2 350 1 990 291 2 716	23 280 34 986 32 217 4 374 54 492	856 258 526 154 390 348 26 715 1 124 623	307 940 232 593 163 003 14 869 399 480	1 161 400 757 938 551 520 41 576 1 524 795	16 701 11 976 6 575 862 19 901
Indiana	5	83	16	1 039	27 250	272	457	6 846	72 076	33 678	105 692	1 462
	2	50	7	444	12 943	137	224	3 152	32 457	14 987	47 497	1 625
	4	55	2	295	7 979	148	268	3 962	19 590	8 169	27 754	397
	2	37	4	268	9 215	59	91	1 195	26 983	10 713	37 572	746
	2	147	23	2 908	114 542	614	2 153	20 472	258 708	114 769	372 744	5 236
Massachusetts	3	261	46	5 066	243 086	864	1 826	29 271	712 928	215 581	927 251	16 842
Michigan	2	148	22	2 325	94 394	556	1 010	15 028	236 720	99 949	336 576	8 035
Minnesota	4	132	24	1 950	67 138	444	807	12 471	299 136	103 383	402 956	7 437
Nebraska	-	25	4	1 250	49 168	141	295	3 929	158 371	56 758	215 129	1 796
Nevada	5	47	2	329	9 040	138	238	3 359	22 667	10 626	33 311	371
New Hampshire	- 1 1 2	38 263 47 709 119	6 57 2 214 15	423 5 821 294 35 051 1 774	25 430 278 727 13 547 1 952 007 55 074	103 1 037 112 3 838 408	183 2 095 200 7 957 734	7 489 33 860 3 253 153 830 10 464	70 616 876 093 41 571 8 354 376 239 095	19 848 293 183 12 375 2 903 736 81 637	89 887 1 166 705 54 506 11 237 876 320 457	875 19 176 469 151 159 4 265
Ohio	1	140	34	3 443	131 203	585	1 124	16 672	466 395	109 361	575 682	10 202
	8	46	4	488	14 814	108	184	2 379	95 934	24 575	120 885	1 902
	4	85	13	936	24 771	245	440	6 256	65 809	37 878	103 035	2 685
	6	203	47	6 877	248 036	900	1 697	34 220	1 112 278	346 435	1 460 636	29 510
	2	18	6	287	7 483	61	118	1 843	23 130	7 872	30 757	224
South Carolina	5	51	2	263	7 325	114	212	3 411	20 055	8 919	29 001	464
Tennessee	1	105	15	2 930	113 724	574	1 011	13 373	269 511	52 578	310 303	8 535
Texas	4	306	36	4 029	133 319	1 329	2 808	47 105	442 953	162 815	603 786	7 840
Utah	7	38	3	339	9 607	176	342	5 191	27 354	11 487	38 784	469
Vermont	5	34	5	349	10 430	116	233	3 134	32 288	11 949	44 311	546
Virginia	3	188	39	2 674	103 533	644	1 286	21 539	280 616	111 550	392 318	9 710
Washington	2	123	15	1 220	35 855	373	684	11 234	92 188	33 390	125 593	2 866
Wisconsin	-	111	23	2 258	69 556	529	1 018	15 514	310 053	88 254	398 582	8 646

* 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
511120, PERIODICAL PUBLISHERS		511120, PERIODICAL PUBLISHERS—Con.	
Companies ¹ number	5 791	Value added \$1,000	22 099 084
All establishments number. Establishments with 1 to 19 employees number. Establishments with 20 to 99 employees number. Establishments with 00 employees or more number.	6 298 5 139 903 256	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.	1 350 331 552 841 198 196 599 294
All employees number. Total compensation ² \$1,000. Annual payroll \$1,000. Total finge benefits \$1,000.	137 550 7 095 677 5 993 142 1 102 535	Total inventories, end of year \$1,000. Finished goods inventories, end of year \$1,000. Work-in-process inventories, end of year \$1,000. Materials and supplies inventories, end of year \$1,000.	1 352 199 600 676 209 443 542 080
Production workers, average for year	25 447 25 603 25 915	Gross book value of total assets at beginning of year\$1,000 Total capital expenditures (new and used)\$1,000 Capital expenditures for buildings and other structures	3 644 495 472 080
Production workers on August 12number Production workers on November 12number	25 913 26 204 25 830	(new and used)\$1,000 Capital expenditures for machinery and equipment (new	88 162
Production-worker hours	25 830 51 191 836 249	and used)	383 918 200 542 3 916 033
Total cost of materials \$1.000	7 844 805	Total depreciation during year ² \$1,000	339 332
Cost of materials, parts, containers, etc., consumed	3 276 819 158 010 14 759 48 685	Buildings and other structures rental payments ² \$1,000 Machinery and equipment rental payments ² \$1,000	544 794 461 301 83 493
Cost of contract work\$1,000	4 346 532	structures ³ \$1.000	13 772
Quantity of electricity purchased for heat and power	573 349	Response coverage ratio ⁴ percent Cost of purchased services for the repair of machinery and	59
Total value of shipments	29 884 807	equipment ³ \$1,000 Response coverage ratio ⁴ percent	22 301 59
Primary products value of shipments\$1,000 Secondary products value of shipments\$1,000	27 623 719 1 097 502	Cost of purchased communications services ³	106 439 59
Total miscellaneous receipts		Cost of purchased legal services ³ \$1,000	44 124 59
Contract receipts \$1,000	5 871	Cost of purchased accounting and bookkeeping services ³	25 484
Other miscellaneous receipts \$1,000	970 703	Cost of purchased advertising services ³ \$1.000	59 238 429
Primary products specialization ratio percent Value of primary products shipments made in all industries \$1,000		Cost of purchased software and other data processing	59
Value of primary products shipments made in this industry \$1,000 Value of primary products shipments made in other	27 623 719	Response coverage ratio ⁴ percent.	31 000 59
industries \$1,000	1 182 347	Cost of purchased refuse removal (including hazardous waste) services ³ \$1,000	1 971
Coverage ratio percent	95	Response coverage ratio ⁴ percent	59

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.

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

Table 4. Industry Statistics by Employment Size: 1997

				All em	oloyees	Pr	oduction work	ers				
		establis	shments		,							
Employment size class	E ¹	Total	With 20 em- ploy- ees or more	Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)	Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
511120, PERIODICAL PUBLISHERS												
All establishments	2	6 298	1 159	137 550	5 993 142	25 447	51 191	836 249	22 099 084	7 844 805	29 884 807	472 080
Establishments with 1 to 4												
employees Establishments with 5 to 9	7	3 286	-	6 443	221 059	4 377	7 491	128 734	739 298	327 969	1 065 739	16 258
employees	4	1 050	-	6 912	205 558	3 546	6 952	110 020	651 093	295 530	947 172	11 866
Establishments with 10 to 19 employees	3	803	_	10 845	391 774	5 346	10 357	165 118	1 143 455	508 852	1 649 630	25 719
Establishments with 20 to 49	2	639	639	19 562	784 714	5 804	11 142	182 138	2 609 305	1 043 148	3 651 301	62 791
employees Establishments with 50 to 99												
employees Establishments with 100 to 249	2	264	264	18 093	731 772	1 776	3 505	49 220	2 394 704	867 066	3 252 421	61 871
employees Establishments with 250 to 499	2	161	161	24 704	1 139 396	1 866	4 089	68 442	4 698 448	1 578 003	6 277 475	91 454
employees	2	63	63	21 218	1 030 658	1 612	4 815	82 048	3 678 940	1 308 176	4 985 334	87 973
Establishments with 500 to 999 employees	2	25	25	17 373	863 120	726	2 123	42 868	3 606 230	1 011 214	4 605 777	66 889
Establishments with 1,000 to 2,499 employees	_	6	6	D	D	р	р	D	р	р	D	р
Establishments with 2,500 employees				-	5	_	2	2		5	-	
or more	-	1	1	D	D	D	D	D	D	D	D	D
Administrative records ²	8	3 314	-	10 402	227 590	5 214	9 131	132 659	763 037	358 044	1 121 093	17 626

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

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more. ²Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

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

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

NAICS		All	All em	ployees	Pr	oduction work	ers	Value added			Total capital
industry or product class code	Industry or primary product class	estab- lish- ments	Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)	by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	expendi- tures (\$1,000)
511120	Periodical publishers	6 298	137 550	5 993 142	25 447	51 191	836 249	22 099 084	7 844 805	29 884 807	472 080
5111201	Farm periodical publishing (receipts from subscriptions, sales, and										
5111203	advertising) Specialized business and professional periodical publishing	64	1 036	36 809	368	725	11 056	95 227	35 265	129 108	1 784
5111205	(receipts from subscriptions and single copy sales) Specialized business and	308	20 830	921 494	2 317	4 703	81 525	3 211 077	1 314 071	4 508 536	82 523
5111207	professional periodical publishing (receipts from advertising) General and consumer periodical	701	34 834	1 640 526	4 709	9 366	149 184	5 574 967	1 410 426	6 968 839	140 145
5111209	publishing (receipts from subscriptions) General and consumer periodical	162	8 845	400 297	1 449	3 121	55 361	2 055 066	678 420	2 723 538	36 641
511120A	publishing (receipts from single copy sales) General and consumer periodical	90	4 387	201 581	605	1 206	18 783	866 681	580 689	1 445 275	12 218
511120C	publishing (receipts from advertising) Other periodical publishing, except	502	26 220	1 302 199	3 429	6 700	111 742	6 101 452	2 008 911	8 105 450	91 667
	shopping news, catalogs, or directories, nec	201	9 206	315 326	1 973	3 658	48 302	918 174	359 154	1 267 894	36 539

Table 6a. Products Statistics: 1997 and 1992

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

			19	997			19	992	
NAICS		Number of companies		Product	shipments	Number of companies		Product	shipments
product code	Product	companies with shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)	companies with shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)
511120	Periodicals	N	х	х	28 806 066	N	x	х	20 941 733
5111201	Farm periodical publishing (receipts from subscriptions, sales, and advertising)	N	х	х	133 707	N	x	х	224 378
51112011	Farm periodicals (receipts from subscriptions, sales, and advertising)	N	x	х	132 800	N	x	х	N
5111201111	Farm periodicals (receipts from subscriptions and single copy sales)	34	x	x	40 319	38	x	x	78 554
5111201116	Farm periodicals (receipts from advertising)	56	х	х	92 481	57	x	х	145 281
5111201Y	Farm periodicals (receipts from subscriptions, sales, and advertising),								
5111201YWV	nsk Farm periodicals (receipts from subscriptions, sales, and advertising), nsk	N N	x x	x x	907 907	N	x x	x x	N
5111203	Specialized business and professional periodical publishing (receipts from subscriptions and single copy sales)	N	x	x	4 559 576	N	x	x	2 352 033
51112031	Specialized business and professional periodicals (receipts from subscriptions								
5111203111	and single copy sales). Manufacturing (excluding electronics) business publications (baid circulation,	N	Х	х	4 451 894	N	×	х	N
5111203116	single copy and subscription receipts) Wholesale and retail trade (including merchandising) business publications (paid circulation, single copy and	13	Х	Х	D	16	х	х	31 037
5111203121	subscription receipts) Medical and health care business publications (paid circulation, single	29	Х	х	D	30	×	х	59 583
5111203126	copy and subscription receipts) Electronics-data management business publications (paid circulation, single	45	Х	Х	295 260	52	x	х	247 413
5111203131	copy and subscription receipts) Service (excluding data management) business publications (paid circulation,	24	x	x	83 756	23	X	x	66 761
5111203136	single copy and subscription receipts) Other business publications, nec (paid	20	Х	х	69 037	29	х	х	416 365
5111203141	circulation, single copy and subscription receipts) Manufacturing (excluding electronics) business publications (controlled	195	х	х	2 986 273	198	х	х	894 153
5111203146	circulation, single copy and subscription receipts) Wholesale and retail trade (including merchandising) business publications (controlled circulation, single copy and	15	х	х	16 359	12	x	х	28 281
5111203151	subscription receipts)	12	Х	Х	15 902	10	х	х	6 073
5111203156	single copy and subscription receipts) Electronics-data management business publications (controlled circulation, single copy and subscription receipts)	27 11	x x	x x	34 932 13 004	23	x x	x x	40 629 5 473
5111203161	Service (excluding data management) business publications (controlled circulation, single copy and		X	X	10 004		X	~	0 410
5111203166	subscription receipts) Other business publications, nec (controlled circulation, single copy and	6	Х	х	8 724	7	х	х	7 088
5111203171	subscription receipts) Scholarly journals (subscriptions and	53	X	X	157 434	48	x	x	54 048
5111203176	Single copy sales) Other professional journals (subscriptions and single copy sales)	72 67	x x	x x	354 999 203 802	67 57	x x	x x	185 810 158 623
5111203Y	Specialized business and professional beriodicals (receipts from subscriptions		~					~	
5111203YWV	and single copy sales), nsk Specialized business and professional periodicals (receipts from subscriptions and single copy sales),	N	Х	Х	107 682	N	x	х	Ν
5111205	nsk Specialized business and professional periodical publishing (receipts from	N	x	X	107 682	N	x	x	150 696
51112051	advertising)	N	Х	х	5 293 623	N	x	х	3 723 044
5111205111	periodicals (receipts from advertising) Manufacturing (excluding electronics) business publications (paid circulation,	N	Х	х	5 041 196	N	Х	х	Ν
5111205116	advertising receipts) Wholesale and retail trade (including merchandising) business publications	11	х	х	D	13	х	х	16 905
5111205121	(paid circulation, advertising receipts) Medical and health care business publications (paid circulation,	48	х	х	D	40	х	х	159 519
5111205126	advertising receipts) Electronics-data management business publications (paid circulation,	37	X	X	123 095	41	X	x	104 714
	advertising receipts)	19	Х	Х	112 382	20	x	x	187 825

See footnotes at end of table.

Table 6a. Products Statistics: 1997 and 1992-Con.

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

			19	97			19	92	
NAICS		Number of companies		Product	shipments	Number of companies		Product	shipments
product code	Product	with shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)	with shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)
511120	Periodicals-Con.								
5111205	Specialized business and professional periodical publishing (receipts from advertising) – Con.								
51112051	Specialized business and professional periodicals (receipts from advertising) – Con.								
5111205131	Service (excluding data management) business publications (paid circulation,								
5111205136	advertising receipts) Other business publications, nec (paid	23	X	X	79 658	28	X	X	64 800
5111205141	circulation, advertising receipts) Manufacturing (excluding electronics)	170	х	х	1 097 590	179	X	х	771 966
5111205146	business publications (controlled circulation, advertising receipts) Wholesale and retail trade (including merchandising) business publications	43	х	х	264 728	36	x	х	126 045
5111205151	(controlled circulation, advertising receipts) Medical and health care business publications (controlled circulation,	58	x	х	254 986	66	х	х	200 699
	advertising receipts)	65	х	х	330 787	58	х	х	267 964
5111205156	Electronics-data management business publications (controlled circulation, advertising receipts) Service (excluding data management)	27	x	x	224 963	27	x	x	72 731
5111205166	business publications (controlled circulation, advertising receipts) 	36	x	x	288 753	36	x	x	119 603
E44400E474	(controlled circulation, advertising receipts)	209	х	х	1 295 980	165	х	х	864 548
5111205171 5111205176	Scholarly journals (advertising receipts) Other professional journals (advertising	26	х	х	93 206	20	х	х	57 346
0111200110	receipts)	54	х	х	158 723	52	х	Х	64 648
5111205Y	Specialized business and professional periodicals (receipts from advertising), nsk	N	x	x	252 427	N	x	x	N
5111205YWV	Specialized business and professional periodicals (receipts from advertising), nsk.	N	х	х	252 427	N	x	х	643 731
5111207	General and consumer periodical publishing (receipts from subscriptions)	N	x	x	3 520 429	N	x	x	3 572 860
51112071	Women's, home, and fashion periodicals, including domestic science, child care, housekeeping, health, gardening, etc.								
5111207116	(receipts from subscriptions) Women's, home, and fashion periodicals, including domestic science, child care, housekeeping, health, gardening, etc. (receipts from	N	x	x	822 732	N	x	x	N
51112072	subscriptions)	38	х	х	822 732	35	X	х	620 547
5111207221	regional, metropolitan, and city periodicals (receipts from subscriptions) General news periodicals, including weeklies and biweeklies with news of	N	х	х	405 536	N	x	х	Ν
5111207226	interest to the general public (receipts from subscriptions) Business news periodicals, concerning business and industry, directed to a	21	x	х	207 819	18	x	x	414 576
5111207231	broader readership than those in business for a living (receipts from subscriptions)	17	x	x	161 531	17	x	x	166 229
	magazines (receipts from subscriptions)	34	х	х	36 186	31	x	х	73 100
51112073	Special interest periodicals, including hobby, sports, entertainment, art, photography, science, automotive,								
5111207336	aviation, etc. (receipts from subscriptions)	N 234	x x	x	1 276 124	N 222	x x	x	N 1 189 269
51112074	subscriptions) General interest periodicals, including general articles, pictures, fiction, literature, geography, travel, history,	234	^	~	1 2/0 124			^	1 109 209
5111207441	humor, etc. (receipts from subscriptions). General interest periodicals, including general articles, pictures, fiction, literature, geography. travel, history.	N	x	x	959 087	N	x	x	N
	humor, etc. (receipts from subscriptions)	54	х	х	959 087	56	x	x	977 726

See footnotes at end of table.

Table 6a. Products Statistics: 1997 and 1992-Con.

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

			19	997			19	992	
NAICS		Number of		Product	shipments	Number of		Product	shipments
product code	Product	companies with shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)	companies with shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)
511120	Periodicals-Con.								
5111207	General and consumer periodical publishing (receipts from subscriptions) – Con.								
5111207Y	General and consumer periodicals (receipts from subscriptions), nsk	N	х	х	56 950	N	x	х	N
5111207YWV	General and consumer periodicals (receipts from subscriptions), nsk	N	x	x	56 950	N	x	x	131 413
5111209	General and consumer periodical publishing (receipts from single copy sales)	N	x	x	2 143 455	N	x	x	1 895 977
51112091	Comics (receipts from subscriptions and								
5111209111	single copy sales) Comics (receipts from subscriptions and single copy sales)	N 14	x x	x x	293 211 293 211	N 14	x x	x x	N 246 787
51112092 5111209216	Women's, home, and fashion periodicals, including domestic science, child care, housekeeping, health, gardening, etc. (receipts from single copy sales) Women's, home, and fashion periodicals, including domestic	N	х	х	525 709	N	x	x	N
	science, child care, housekeeping, health, gardening, etc. (receipts from single copy sales)	28	х	х	525 709	32	x	x	382 919
51112093	General news, business news, and regional, metropolitan, and city periodicals (receipts from single copy sales)	N	х	х	69 812	N	x	x	N
5111209321	General news periodicals, including weeklies and biweeklies with news of interest to the general public (receipts								
5111209326	from single copy sales) Business news periodicals, concerning business and industry, directed to a broader readership than those in business for a living (receipts from	11	Х	х	57 393	14	x	х	122 477
5111209331	single copy sales) Regional, metropolitan, and city magazines (receipts from single copy	4	x	Х	3 010	5	X	x	18 624
51112094	sales). Special interest periodicals, including hobby, sports, entertainment, art, photography, science, automotive,	18	Х	х	9 409	14	X	x	6 846
5111209436	aviation, etc. (receipts from single copy sales). Special interest periodicals, including hobby, sports, entertainment, art, photography, science, automotive, aviation, etc. (receipts from single copy sales).	N 167	x x	x	1 001 959	N 159	x x	x	N 688 525
51112095	General interest periodicals, including general articles, pictures, fiction, literature, geography, travel, history, humor, etc. (receipts from single copy								
5111209541	General interest periodicals, including general articles, pictures, fiction, literature, geography, travel, history, humor, etc. (receipts from single copy	N	х	х	135 501	N	x	x	N
	sales)	38	Х	Х	135 501	36	х	х	316 417
5111209Y 5111209YWV	General and consumer periodicals (receipts from single copy sales), nsk General and consumer periodicals	N	х	х	117 263	N	х	х	Ν
	(receipts from single copy sales), nsk	N	х	х	117 263	N	х	х	113 382
511120A	General and consumer periodical publishing (receipts from advertising)	N	х	х	6 481 749	N	х	х	5 136 572
511120A1 511120A111	Comics (receipts from advertising) Comics (receipts from advertising)	N 5	X X	X X	7 607 7 607	N 6	XX	X X	N 7 567
511120A2	Women's, home, and fashion periodicals, including domestic science, child care, housekeeping, health, gardening, etc.								
511120A216	(receipts from advertising). Women's, home, and fashion periodicals, including domestic science, child care, housekeeping, health, gardening, etc. (receipts from	N 61	×	×	2 168 820 2 168 820	N 48	x x	x	N
511120A3	advertising) General news, business news, and	01	~		2 100 020	40	^	^	1 472 363
511120A321	regional, metropolitan, and city periodicals (receipts from advertising) General news periodicals, including weeklies and biweeklies with news of interest to the general public (receipts	N	Х	х	1 232 882	N	x	x	Ν
511120A326	from advertising) Business news periodicals, concerning business and industry, directed to a broader readership than those in	53	x	Х	471 107	55	x	х	626 551
	business for a living (receipts from advertising)	23	х	х	432 844	23	x	х	408 225

See footnotes at end of table.

Table 6a. Products Statistics: 1997 and 1992-Con.

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

			19	997			19	992	
NAICS		Number of		Product	shipments	Number of		Product	shipments
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)
511120	Periodicals-Con.								
511120A	General and consumer periodical publishing (receipts from advertising)—Con.								
511120A3	General news, business news, and regional, metropolitan, and city periodicals (receipts from advertising) –								
511120A331	Con. Regional, metropolitan, and city magazines (receipts from advertising)	95	х	x	328 931	74	x	х	126 202
511120A4	Special interest periodicals, including hobby, sports, entertainment, art, photography, science, automotive,								
511120A436	aviation, etc. (receipts from advertising) Special interest periodicals, including hobby, sports, entertainment, art, photography, science, automotive, aviation, etc. (receipts from	N	х	X	2 169 320	N	x	х	N
	advertising)	293	х	х	2 169 320	268	х	х	1 511 287
511120A5	General interest periodicals, including general articles, pictures, fiction, literature, geography, travel, history,		×	×	014 045		v	X	N
511120A541	humor, etč. (receipts from advertising) General interest periodicals, including general articles, pictures, fiction, literature, geography, travel, history,	N	х	X	811 845	N	x	х	N
	humor, etc. (receipts from advertising)	80	х	х	811 845	70	х	х	732 187
511120AY	General and consumer periodicals (receipts from advertising), nsk	N	х	x	91 275	N	x	x	N
511120AYWV	General and consumer periodicals (receipts from advertising), nsk	N	x	x	91 275	N	x	x	252 190
511120C	Other periodical publishing, except shopping news, catalogs, or directories, nec	N	х	x	1 090 096	N	x	х	697 582
511120C1	Other periodicals, except shopping news, catalogs, or directories, nec	N	х	x	1 084 562	N	х	х	Ν
511120C111	Religious periodicals, including religion, theology, church bulletins, local church papers, etc. (receipts from	60	v	~	454 447	50	v	~	242 470
511120C116	subscriptions and single copy sales) Religious periodicals, including religion, theology, church bulletins, local church papers, etc. (receipts from	69	х	X	454 447	53	x	х	242 179
511120C121	advertising). Magazine and comic supplements for Sunday newspapers (receipts from	41	х	X	79 825	32	х	х	51 063
511120C191	advertising and copy sales) Other periodicals, nec, except shopping news, catalogs, and directories	4	х	х	D	4	х	х	1 591
511120C193	(receipts from subscriptions) Other periodicals, nec, except shopping news, catalogs, and directories	40	Х	х	D	47	х	х	169 848
511120C196	(receipts from single copy sales) Other periodicals, nec, except shopping news, catalogs, and directories	13	x	x	28 839	18	X	X	37 047
	(receipts from advertising)	92	х	X	162 071	64	х	х	108 343
511120CY 511120CYWV	Other periodicals, except shopping news, catalogs, or directories, nec, nsk Other periodicals, except shopping news, catalogs, or directories, nec,	N	х	x	5 534	N	x	х	Ν
	nsk	N	х	x	5 534	N	x	x	87 511
511120W	Periodical publishers, nsk, total	N	x	x	5 583 431	N	x	X	3 339 287
511120WY 511120WYWW	Periodical publishers, nsk, total Periodical publishers, nsk, for nonadministrative-record establishments.	N N	x	x	5 583 431 4 612 576	N N	x	x x	N 2 907 281
511120WYWY	Periodical publishers, nsk, for administrative-record establishments	N N	x	x	970 855	N	×	x	432 006

Additional information is available for this item; see Appendix F. @ Additional data are available for these codes at the aggregate U.S. level in the Current Industrial Report (CIR) series; see Appendix F for the CIR survey number and title. \$ This product is primary to more than one industry; see Appendix F for a listing of the related product codes.

Note: For some establishments, data have been estimated from central unit values which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: ^p 10 to 19 percent estimated; ^q 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

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

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

	Product class and geographic area	Value of product shipmen (\$1,000)	15
oduct class code		1997	1992
11201	FARM PERIODICAL PUBLISHING (RECEIPTS FROM SUBSCRIPTIONS, SALES, AND ADVERTISING)		
	United States	133 707	224 37
	California	8 310	2 90
	Illinois Missouri	6 288 14 650	5 71
	New York Texas.	15 621 3 398	12 79 2 95
	Wisconsin	2 851	33 44
11203	SPECIALIZED BUSINESS AND PROFESSIONAL PERIODICAL PUBLISHING (RECEIPTS FROM SUBSCRIPTIONS AND SINGLE COPY SALES)		
	United States	4 559 576	2 352 03
	California	512 892	168 21
	Colorado	18 443 138 144	11 91 45 77
	District of Columb	225 065 90 044	218 34 9 15
		75 667	65 98
	Georgia Illinois	96 454	227 09
	Indiana Iowa	9 929 2 706	7 47
	Kansas	13 197	6 31
	Maryland	174 076	60 23
	Massachusetts	178 705 36 205	83 08 30 71
	Minnesota	18 788 12 116	33 80
	New Jersey New York	125 562 2 206 918	132 35 829 21
	Ohio Oregon	16 768 5 169	30 65 2 41
	Pennsylvania	278 541	153 25
	Tennessee	5 290	7 64
	Texas Utah	31 528 2 596	52 76
	Vermont	7 597	6 75
	Virginia	59 980 11 064	43 37 4 87
44005		15 117	7 094
11205	SPECIALIZED BUSINESS AND PROFESSIONAL PERIODICAL PUBLISHING (RECEIPTS FROM ADVERTISING)		
11205	SPECIALIZED BUSINESS AND PROFESSIONAL PERIODICAL PUBLISHING (RECEIPTS FROM ADVERTISING) United States	5 293 623	3 723 04
11205	SPECIALIZED BUSINESS AND PROFESSIONAL PERIODICAL PUBLISHING (RECEIPTS FROM ADVERTISING) United States	5 293 623 31 880	3 723 04 5 31
11205	SPECIALIZED BUSINESS AND PROFESSIONAL PERIODICAL PUBLISHING (RECEIPTS FROM ADVERTISING) United States	5 293 623 31 880 34 597 540 041	3 723 04 5 31 11 62 312 61
11205	SPECIALIZED BUSINESS AND PROFESSIONAL PERIODICAL PUBLISHING (RECEIPTS FROM ADVERTISING) United States	5 293 623 31 880 34 597	7 09 3 723 04 5 31 11 62 312 61 33 35 104 10
11205	SPECIALIZED BUSINESS AND PROFESSIONAL PERIODICAL PUBLISHING (RECEIPTS FROM ADVERTISING) United States	5 293 623 31 880 34 597 540 041 39 674 71 307	3 723 04 5 31 11 62 312 61 33 35 104 10
11205	SPECIALIZED BUSINESS AND PROFESSIONAL PERIODICAL PUBLISHING (RECEIPTS FROM ADVERTISING) United States Alabama Arizona California Colorado Connecticut District of Columb	5 293 623 31 880 34 597 540 041 39 674 71 307 231 614 29 379	3 723 04 5 31 11 62 312 61 33 35 104 10 69 29 54 99
11205	SPECIALIZED BUSINESS AND PROFESSIONAL PERIODICAL PUBLISHING (RECEIPTS FROM ADVERTISING) United States Alabama Arizona California Colorado Connecticut District of Columb Florida Georgia Hawaii	5 293 623 31 880 34 597 540 041 39 674 71 307 231 614 29 379 136 347 10 916	3 723 04 5 31 1 62 312 61 33 35 104 10 69 29 54 99 42 90
11205	SPECIALIZED BUSINESS AND PROFESSIONAL PERIODICAL PUBLISHING (RECEIPTS FROM ADVERTISING) United States Alabama Arizona California Colorado Connecticut District of Columb	5 293 623 31 880 34 597 540 041 39 674 71 307 231 614 29 379 136 347	3 723 04 5 31 1 62 312 61 33 35 104 10 69 29 54 99 42 90
11205	SPECIALIZED BUSINESS AND PROFESSIONAL PERIODICAL PUBLISHING (RECEIPTS FROM ADVERTISING) United States Alabama Arizona California Colorado Connecticut District of Columb Florida Georgia Hawaii Illinois	5 293 623 31 880 34 597 540 041 39 674 71 307 231 614 29 379 136 347 10 916 528 919 16 166	3 723 04 5 31 11 62 312 61 33 35 104 10 69 29 54 99 42 90 343 35 22 55
11205	SPECIALIZED BUSINESS AND PROFESSIONAL PERIODICAL PUBLISHING (RECEIPTS FROM ADVERTISING) United States Alabama Arizona California Colorado Connecticut District of Columb Florida Georgia Hawaii Illinois	5 293 623 31 880 34 597 540 041 39 674 71 307 231 614 29 379 136 347 10 916 528 919 16 166 14 142 39 300	3 723 04 5 31 11 62 312 61 33 35 104 10 69 25 54 95 42 90 343 35 22 55 52 02
11205	SPECIALIZED BUSINESS AND PROFESSIONAL PERIODICAL PUBLISHING (RECEIPTS FROM ADVERTISING) United States Alabama Arizona California Colorado Connecticut District of Columb Fiorida Georgia Hawaii Illinois Indiana Iowa Kansas	5 293 623 31 880 34 597 540 041 39 674 71 307 231 614 29 379 136 347 10 916 528 919 16 166 14 142 39 300 11 255	3 723 04 5 31 11 62 312 61 33 35 104 10 69 29 54 99 42 90 343 35 22 55 52 02
11205	SPECIALIZED BUSINESS AND PROFESSIONAL PERIODICAL PUBLISHING (RECEIPTS FROM ADVERTISING) United States Alabama Arizona California Colorado Connecticut District of Columb Florida Georgia Hawaii Illinois	5 293 623 31 880 34 597 540 041 39 674 71 307 231 614 29 379 136 347 10 916 528 919 16 166 14 142 39 300 11 255 3 445	3 723 04 5 31 11 62 312 61 33 35 104 10 69 29 42 90 343 35 24 90 343 35 22 55 52 02
11205	SPECIALIZED BUSINESS AND PROFESSIONAL PERIODICAL PUBLISHING (RECEIPTS FROM ADVERTISING) United States Alabama Arizona California Colorado Connecticut District of Columb Florida Georgia Hawaii Illinois Indiana Iowa Kansas Kentucky Louisiana	5 293 623 31 880 34 597 540 041 39 674 71 307 231 614 29 379 136 347 10 916 528 919 16 166 14 142 39 300 11 255 3 445 13 750 53 910	3 723 04 5 31 11 62 312 61 33 35 104 10 69 22 54 99 42 90 343 35 22 55 52 02 9 13 25 00
11205	SPECIALIZED BUSINESS AND PROFESSIONAL PERIODICAL PUBLISHING (RECEIPTS FROM ADVERTISING) United States Alabama Arizona California Colorado Connecticut District of Columb Florida Georgia Hawaii Illinois Indiana Iowa Kansas Kentucky Louisiana Maine Maryland Massachusetts	5 293 623 31 880 34 597 540 041 39 674 71 307 231 614 29 379 136 347 10 916 528 919 16 166 14 142 39 300 11 255 3 445 13 750 53 910 337 232	3 723 04 5 31 11 62 312 61 33 36 104 10 69 25 54 96 42 90 343 35 22 55 52 02 9 13 25 00 9 13 25 00
11205	SPECIALIZED BUSINESS AND PROFESSIONAL PERIODICAL PUBLISHING (RECEIPTS FROM ADVERTISING) United States Alabama Arizona California Colorado Connecticut District of Columb Florida Georgia Hawaii Illinois Indiana Iowa Kansas Kentucky Louisiana	5 293 623 31 880 34 597 540 041 39 674 71 307 231 614 29 379 136 347 10 916 528 919 16 166 14 142 39 300 11 255 3 445 13 750 53 910	3 723 04 5 31 11 62 312 61 33 35 104 10 69 29 54 99 42 90 343 35 22 55 52 02 52 02 9 13 25 00 159 95 77 18
11205	SPECIALIZED BUSINESS AND PROFESSIONAL PERIODICAL PUBLISHING (RECEIPTS FROM ADVERTISING) United States Alabama Arizona California Colorado Connecticut District of Columb Florida Georgia Hawaii Illinois Indiana Iowa Kansas Kentucky Louisiana Maine Maryland Massachusetts Michigan Mississippi	5 293 623 31 880 34 597 540 041 39 674 71 307 231 614 29 379 136 347 10 916 528 919 16 166 14 142 39 300 11 255 3 445 13 750 53 910 337 232 99 496 159 733 3 552	3 723 04 5 311 1 1 62 312 61 33 35 104 10 69 29 54 99 42 90 343 35 22 55 52 02 9 13 25 00 159 95 777 18 93 49
11205	SPECIALIZED BUSINESS AND PROFESSIONAL PERIODICAL PUBLISHING (RECEIPTS FROM ADVERTISING) United States Alabama Arizona California Colorado Connecticut District of Columb Florida Georgía Hawaii Illinois Indiana Iowa Kansas Kentucky Louisiana Maine Mainea Michigan Minnesota Mississippi Mississippi Mississippi Mississippi Mississippi	$\begin{array}{c} 5 \ 293 \ 623 \\ 31 \ 880 \\ 34 \ 597 \\ 540 \ 041 \\ 39 \ 674 \\ 71 \ 307 \\ 71 \ 307 \\ 231 \ 614 \\ 29 \ 379 \\ 136 \ 347 \\ 10 \ 916 \\ 528 \ 919 \\ 16 \ 166 \\ 14 \ 142 \\ 39 \ 300 \\ 11 \ 255 \\ 3 \ 445 \\ 13 \ 750 \\ 53 \ 910 \\ 337 \ 232 \\ 99 \ 496 \\ 159 \ 733 \\ 3 \ 552 \\ 19 \ 823 \\ 3 \ 463 \\ \end{array}$	3 723 04 5 31 1 1 62 312 61 33 35 104 10 69 29 54 99 42 90 343 35 22 55 52 02 52 02 159 95 777 18 93 49 93 49
11205	SPECIALIZED BUSINESS AND PROFESSIONAL PERIODICAL PUBLISHING (RECEIPTS FROM ADVERTISING) United States Alabama Arizona California Colorado Colorado Connecticut District of Columb Florida Georgia Hawaii Illinois Indiana Iowa Kansas Kentucky Louisiana Maine Maryland Minesotta Mississippi Mississippi Missopi Missopi New Hampshire	5 293 623 31 880 34 597 540 041 39 674 71 307 231 614 29 379 136 347 10 916 528 919 16 166 14 142 39 300 11 255 3 445 13 750 53 910 337 232 99 496 159 733 3 552 19 823 3 463 32 270	3 723 04 5 31 11 62 312 61 33 35 104 10 69 29 54 99 42 90 42 90 42 20 343 35 22 55 52 02 52 02 9 13 25 00 159 95 777 18 93 49 9 34 9 53 56
11205	SPECIALIZED BUSINESS AND PROFESSIONAL PERIODICAL PUBLISHING (RECEIPTS FROM ADVERTISING) United States Alabama Arizona California Colorado Connecticut District of Columb Florida Georgia Hawaii Illinois Indiana Iowa Kansas Kantucky Louisiana Maine Minesota Mississippi Missouri New Hampshire New Jersey	$\begin{array}{c} 5 \ 293 \ 623 \\ 31 \ 880 \\ 34 \ 597 \\ 540 \ 041 \\ 39 \ 674 \\ 71 \ 307 \\ 231 \ 614 \\ 29 \ 379 \\ 136 \ 347 \\ 10 \ 916 \\ 528 \ 919 \\ 16 \ 166 \\ 528 \ 919 \\ 16 \ 166 \\ 14 \ 142 \\ 39 \ 300 \\ 11 \ 255 \\ 3 \ 445 \\ 13 \ 750 \\ 53 \ 910 \\ 337 \ 232 \\ 99 \ 496 \\ 159 \ 733 \\ 3552 \\ 19 \ 823 \\ 3 \ 463 \\ 32 \ 270 \\ 571 \ 431 \\ \end{array}$	3 723 04 5 31 1 62 312 61 33 35 104 10 69 29 54 99 42 90 343 35 22 55 152 02 159 95 77 18 93 49 29 63 25 00 159 95 77 18 93 49 1 29 63 35 00 159 95 77 18 73 56 357 03
11205	SPECIALIZED BUSINESS AND PROFESSIONAL PERIODICAL PUBLISHING (RECEIPTS FROM ADVERTISING) United States Alabama Arizona California Colorado Connecticut District of Columb Florida Georgia Hawaii Illinois Indiana Iowa Kansas Kanteky Louisiana Misseouta Mississippi Missouria New Hampshire New Mexico New Mexico New Mexico	$\begin{array}{c} 5 \ 293 \ 623 \\ 31 \ 880 \\ 34 \ 597 \\ 540 \ 041 \\ 39 \ 674 \\ 71 \ 307 \\ 71 \ 307 \\ 231 \ 614 \\ 29 \ 379 \\ 136 \ 347 \\ 10 \ 916 \\ 528 \ 919 \\ 16 \ 166 \\ 14 \ 142 \\ 39 \ 300 \\ 11 \ 255 \\ 3 \ 445 \\ 13 \ 750 \\ 53 \ 910 \\ 337 \ 232 \\ 99 \ 496 \\ 159 \ 733 \\ 3 \ 552 \\ 19 \ 823 \\ 3 \ 463 \\ 32 \ 270 \\ 571 \ 431 \\ 5 \ 402 \\ 1 \ 39 \ 415 \\ \end{array}$	3 723 04 5 311 11 62 312 61 33 35 104 10 69 29 54 99 42 90 343 35 22 55 52 02 53 56 357 71 8 93 49 9 13 25 00 159 95 777 18 93 49 9 13 25 00 159 55 777 18
11205	SPECIALIZED BUSINESS AND PROFESSIONAL PERIODICAL PUBLISHING (RECEIPTS FROM ADVERTISING) United States Alabama Arizona California Colorado Connecticut District of Columb Florida Georgia Hawaii Illinois Indiana Iowa Kansas Kentucky Louisiana Massachusetts Michigan Minesota Mississispi Mississippi Missori New Hampshire New Mexico New Mexico	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3 723 04 5 311 11 62 312 61 33 35 104 10 69 29 54 99 42 90 42 90 42 90 42 00 55 2 02 52 02 52 02 52 02 53 56 357 03 1 233 44 1 3 67
11205	SPECIALIZED BUSINESS AND PROFESSIONAL PERIODICAL PUBLISHING (RECEIPTS FROM ADVERTISING) United States Alabama Arizona California Colorado Connecticut District of Columb Florida Georgia Hawaii Illinois Indiana Iowa Kansas Kanteky Louisiana Misseouta Mississippi Missouria New Hampshire New Mexico New Mexico New Mexico	$\begin{array}{c} 5 \ 293 \ 623 \\ 31 \ 880 \\ 34 \ 597 \\ 540 \ 041 \\ 39 \ 674 \\ 71 \ 307 \\ 71 \ 307 \\ 231 \ 614 \\ 29 \ 379 \\ 136 \ 347 \\ 10 \ 916 \\ 528 \ 919 \\ 16 \ 166 \\ 14 \ 142 \\ 39 \ 300 \\ 11 \ 255 \\ 3 \ 445 \\ 13 \ 750 \\ 53 \ 910 \\ 337 \ 232 \\ 99 \ 496 \\ 159 \ 733 \\ 3 \ 552 \\ 19 \ 823 \\ 3 \ 463 \\ 32 \ 270 \\ 571 \ 431 \\ 5 \ 402 \\ 1 \ 39 \ 415 \\ \end{array}$	3 723 04 5 31 1 1 62 312 61 33 35 104 10 69 29 54 99 42 90 343 35 22 55 20 52 02 9 13 25 00 159 95 777 18 93 49 29 63 357 03 1 233 44 1 3 67 206 60
11205	SPECIALIZED BUSINESS AND PROFESSIONAL PERIODICAL PUBLISHING (RECEIPTS FROM ADVERTISING) United States Alabama Arizona California Colorado Connecticut District of Columb Florida Georgia Hawaii Illinois Indiana Iowa Kansas Kentucky. Louisiana Maine Maryland Missouri Nimesota New Hampshire New Mexico New York North Carolina Ohio. Oregon Pennsylvania	$\begin{array}{c} 5 \ 293 \ 623 \\ 31 \ 880 \\ 34 \ 597 \\ 540 \ 041 \\ 39 \ 674 \\ 71 \ 307 \\ 231 \ 614 \\ 29 \ 379 \\ 136 \ 347 \\ 10 \ 916 \\ 528 \ 919 \\ 16 \ 166 \\ 528 \ 919 \\ 16 \ 166 \\ 14 \ 142 \\ 39 \ 300 \\ 11 \ 255 \\ 3 \ 445 \\ 13 \ 750 \\ 53 \ 910 \\ 337 \ 232 \\ 99 \ 496 \\ 159 \ 733 \\ 322 \ 270 \\ 571 \ 431 \\ 5 \ 402 \\ 1398 \ 415 \\ \mathbf{39 \ 2270} \\ 571 \ 431 \\ \mathbf{59 \ 056} \\ \mathbf{185 \ 461} \\ \mathbf{7 \ 098} \\ \mathbf{235 \ 019} \end{array}$	3 723 04 5 31 1 1 62 312 61 33 35 104 10 69 29 54 99 42 90 343 35 22 55 52 02 52 02 9 13 25 00 159 95 77 18 93 49 9 13 25 00 159 95 77 7 18 93 49 1 233 44 1 3 67 206 00 21 87 122 56
11205	SPECIALIZED BUSINESS AND PROFESSIONAL PERIODICAL PUBLISHING (RECEIPTS FROM ADVERTISING) United States Alabama Arizona California Colorado Connecticut District of Columb Florida Georgia Hawaii Illinois Indiana Iowa Kanasa Kentucky Louisiana Masachusetts Minnesota Mississippi Mississippi Missouri New Ada New Hampshire New Margey. New Margey. New Karoo New York North Carolina Ohio Oregon Pennsylvania South Carolina	$\begin{array}{c} 5 \ 293 \ 623 \\ 31 \ 880 \\ 34 \ 597 \\ 540 \ 041 \\ 39 \ 674 \\ 71 \ 307 \\ 71 \ 307 \\ 231 \ 614 \\ 29 \ 379 \\ 136 \ 347 \\ 10 \ 916 \\ 528 \ 919 \\ 16 \ 166 \\ 14 \ 142 \\ 39 \ 300 \\ 11 \ 255 \\ 3 \ 445 \\ 13 \ 750 \\ 53 \ 910 \\ 337 \ 232 \\ 99 \ 496 \\ 159 \ 733 \\ 3 \ 552 \\ 19 \ 823 \\ 3 \ 463 \\ 32270 \\ 571 \ 431 \\ 5 \ 402 \\ 1 \ 359 \ 415 \\ 69 \ 056 \\ 185 \ 461 \\ 7 \ 098 \\ 235 \ 019 \\ 4 \ 153 \\ \end{array}$	3 723 04 5 31 11 62 312 61 33 35 104 10 69 29 54 99 42 90 42 90 25 00 159 95 77 18 9 13 25 00 159 95 77 18 9 3 49 12 50 15 3 56 357 03 1 233 44 13 67 206 00 21 87 122 56
11205	SPECIALIZED BUSINESS AND PROFESSIONAL PERIODICAL PUBLISHING (RECEIPTS FROM ADVERTISING) United States Alabama Arizona California. Colorado Connecticut District of Columb Florida Georgia Hawaii Illinois Indiana Iowa Kansas Kentucky. Louisiana Mississippi Mississippi Missourin New Hampshire New Mexico New Mexico New Mexico Oregon Pennsylvania South Carolina Tennessee Tennessee	$\begin{array}{c} 5 \ 293 \ 623 \\ 31 \ 880 \\ 34 \ 597 \\ 540 \ 041 \\ 39 \ 674 \\ 71 \ 307 \\ 71 \ 307 \\ 231 \ 614 \\ 29 \ 379 \\ 136 \ 347 \\ 10 \ 916 \\ 528 \ 919 \\ 16 \ 166 \\ 14 \ 142 \\ 39 \ 300 \\ 11 \ 255 \\ 3 \ 445 \\ 13 \ 750 \\ 53 \ 910 \\ 337 \ 232 \\ 99 \ 496 \\ 159 \ 733 \\ 3 \ 552 \\ 19 \ 823 \\ 3 \ 463 \\ 32270 \\ 571 \ 431 \\ 5 \ 402 \\ 1 \ 359 \ 415 \\ 69 \ 056 \\ 185 \ 461 \\ 7 \ 098 \\ 235 \ 019 \\ 4 \ 153 \\ 17 \ 197 \\ 75 \ 604 \\ \end{array}$	3 723 04 5 311 11 62 312 61 33 35 104 10 69 29 54 99 42 90 42 90 48 83
11205	SPECIALIZED BUSINESS AND PROFESSIONAL PERIODICAL PUBLISHING (RECEIPTS FROM ADVERTISING) United States Alabama Arizona California. Colorado Connecticut District of Columb Florida Georgia Hawaii Illinois Indiana Iowa Kansas Kentucky. Louisiana Mississippi Mississippi Missouri. New Hampshire New Mexico New Mexico New Mexico New Mexico New Vork. North Carolina Origon Pennsylvania South Carolina Origon Pennsylvania North Carolina Origon Pennsylvania North Carolina Ohio Origon	$\begin{array}{c} 5 \ 293 \ 623 \\ 31 \ 880 \\ 34 \ 597 \\ 540 \ 041 \\ 39 \ 674 \\ 71 \ 307 \\ 231 \ 614 \\ 29 \ 379 \\ 136 \ 347 \\ 10 \ 916 \\ 528 \ 919 \\ 16 \ 166 \\ 14 \ 142 \\ 39 \ 300 \\ 11 \ 255 \\ 3 \ 445 \\ 13 \ 750 \\ 53 \ 910 \\ 337 \ 232 \\ 99 \ 496 \\ 159 \ 733 \\ 3552 \\ 19 \ 823 \\ 3 \ 463 \\ 3751 \\ 359 \ 415 \\ 69 \ 056 \\ 185 \ 461 \\ 7 \ 098 \\ 235 \ 019 \\ 4 \ 153 \\ 17 \ 197 \\ 75 \ 604 \\ 3 \ 342 \end{array}$	3 723 04 5 31 11 62 312 61 33 35 104 10 69 29 54 99 42 90 42 90 42 90 42 90 42 00 10 10 10 10 10 10 10 10 10
11205	SPECIALIZED BUSINESS AND PROFESSIONAL PERIODICAL PUBLISHING (RECEIPTS FROM ADVERTISING) United States Alabama Arizona California. Colorado Connecticut District of Columb Florida Georgia Hawaii Illinois Indiana Iowa Kansas Kentucky. Louisiana Mississippi Mississippi Missourin New Hampshire New Mexico New Mexico New Mexico Oregon Pennsylvania South Carolina Tennessee Tennessee	$\begin{array}{c} 5 \ 293 \ 623 \\ 31 \ 880 \\ 34 \ 597 \\ 540 \ 041 \\ 39 \ 674 \\ 71 \ 307 \\ 71 \ 307 \\ 231 \ 614 \\ 29 \ 379 \\ 136 \ 347 \\ 10 \ 916 \\ 528 \ 919 \\ 16 \ 166 \\ 14 \ 142 \\ 39 \ 300 \\ 11 \ 255 \\ 3 \ 445 \\ 13 \ 750 \\ 53 \ 910 \\ 337 \ 232 \\ 99 \ 496 \\ 159 \ 733 \\ 3 \ 552 \\ 19 \ 823 \\ 3 \ 463 \\ 32270 \\ 571 \ 431 \\ 5 \ 402 \\ 1 \ 359 \ 415 \\ 69 \ 056 \\ 185 \ 461 \\ 7 \ 098 \\ 235 \ 019 \\ 4 \ 153 \\ 17 \ 197 \\ 75 \ 604 \\ \end{array}$	3 723 04 5 311 11 62 312 61 33 35 104 10 69 29 54 99 42 90 1 343 35 22 55 52 02 9 13 25 00 159 95 777 18 93 49 9 49 49 1 29 63 357 03 1 233 44 1 3 67 206 07 206 07 21 25 6 1 2 23 6 1 2 25 6 1 2 22 56 1 2 23 56 1 2 23 56 1 2 23 56 1 2 23 56 1 2 2 2 2 56 1 2 2 2 56 1 2 2 2 56 1 2 3 57 1 3 5 1 3 5 1 5

See footnotes at end of table.

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

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

NAICS product class	Product class and geographic area	Value of product shipments (\$1,000)		
code		1997	199	
111207	GENERAL AND CONSUMER PERIODICAL PUBLISHING (RECEIPTS FROM SUBSCRIPTIONS)			
	United States	3 520 429	3 572 8	
	Arizona	2 162		
	California Colorado	206 687 17 458	195 3 9 9	
	Connecticut	70 735	45 4	
	Florida	72 408	32 7	
	Georgia	12 113 125 888	7 4 168 5	
	Indiana Kansas	2 942 12 780	5 4	
	Maryland	21 816	5 0	
	Massachusetts	10 551	34 3	
	Michigan	6 782 19 417	10 3	
	Missouri. New Jersey.	10 406 28 452	13 0	
	New York	1 557 121 32 266	1 874 3 22 6	
	Ohio Tennessee	20 824 13 420	16 7	
	Texas	29 888	37 3	
	Virginia	39 083	19 8	
111209	GENERAL AND CONSUMER PERIODICAL PUBLISHING (RECEIPTS FROM SINGLE COPY SALES)			
	United States	2 143 455	1 895 9	
	Arizona California	5 932 319 506	3 3 204 2	
	Colorado	7 137	4 1	
	Connecticut District of Columb	65 670 15 876	22 0 8 5	
	Florida	97 674	61 7	
	Georgia Illinois	4 471 80 231	80 9	
	Maine	2 095		
	Maryland	5 167	4 6	
	Massachusetts	5 914 8 289	10 1 4 5	
	Missouri	5 747	6 4	
	New Mexico New York	2 528 1 013 697	1 056 7	
	North Carolina	8 447	33	
	Ohio Oregon	8 913 14 886	2 7	
	Pennsylvania	203 743	<u> </u>	
	Tennessee	6 456	6 0	
	Texas Virginia	18 312 19 685	17 6	
	Washington Wisconsin	4 568 14 418	55 153	
11120A	GENERAL AND CONSUMER PERIODICAL PUBLISHING (RECEIPTS FROM		10 0	
	ADVERTISING)	6 481 749	5 136 5	
	United States		5 150 5	
	Alabama Arizona	134 844 26 055	8 7	
	California Colorado	693 222 27 379	492 0 14 8	
	Connecticut	199 859	108 5	
	District of Columb	161 730		
	Florida	163 029 179 377	64 7 48 6	
	Hawăii	19 302 248 547	15 8 145 5	
	Indiana Kansas	17 341 6 688	3 5 4 1	
	Louisiana Maine	7 679 4 505		
	Maryland	41 357	13 1	
	Massachusetts	72 605	42 2	
	Michigan	27 123 33 806	19 9 16 9	
	Missouri. New Hampshire	32 344 7 268	16 8 12 4	
	New Jersey.	57 104	39 6	
	New York	3 110 175	3 209 1	
	North Carolina Ohio	29 407 115 212	32 1 25 2	
	Oklahoma	12 766	2 8	
	Oregon	13 507	9 0	
	Oregon Pennsylvania South Carolina	13 507 369 030 9 432 50 463	9029	

See footnotes at end of table.

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

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

NAICS product class	Product class and geographic area	Value of product shipments (\$1,000)		
code		1997	1992	
511120A	GENERAL AND CONSUMER PERIODICAL PUBLISHING (RECEIPTS FROM ADVERTISING)—Con.			
	Utah	2 236 33 924 17 096 22 797	N 13 890 6 793 38 679	
511120C	OTHER PERIODICAL PUBLISHING, EXCEPT SHOPPING NEWS, CATALOGS, OR DIRECTORIES, NEC			
	United States	1 090 096	697 582	
	Arizona California Connecticut Florida Georgia	3 153 73 977 58 209 65 683 5 519	N 80 233 N 26 284 N	
	Illinois Maryland Massachusetts Michigan Minnesota	46 563 21 381 33 824 9 736 15 777	64 587 38 016 24 693 7 257 16 041	
	Missouri. New Jersey. New York North Carolina Ohio.	63 077 8 057 268 841 16 434 82 973	40 483 13 567 70 928 N 71 518	
	Oregon Pennsylvania Texas Virginia Washington Wisconsin	7 709 4 095 25 380 6 974 12 989 8 920	2 219 7 525 14 298 4 526 N 5 688	

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	1992	
material code	Material consumed	Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
511120	PERIODICAL PUBLISHERS				
32212203 32200015 32212019 32591003 00970099 00971000	Newsprint	X X X X X X	103 565 973 832 125 159 130 733 238 138 1 705 392	× × × × ×	66 344 986 094 185 154 220 783 159 641 881 557

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-ofyear and end-of-year inventories at cost or market. Effective with the 1982 Economic Census, this change to a uniform instruction for reporting inventories was introduced for all sector reports. Prior to 1982, respondents were permitted to value inventories using any generally accepted accounting method (FIFO, LIFO, market, to name a few). Beginning in 1982, LIFO users were asked to first report inventory values prior to the LIFO adjustment and then to report the LIFO reserve and the LIFO value after adjustment for the reserve.

Inventory Data by Stage of Fabrication

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

When using inventory data by stage of fabrication for "all industries" and at the three-digit subsector level, it should be noted that an item treated as a finished product by an establishment in one industry may be reported as a raw material by an establishment in a different industry. For example, the finished-product inventories of a steel mill would be reported as raw materials by a stamping plant. Such differences are present in the inventory figures by stage of fabrication shown for all publication levels.

COST OF MATERIALS

This term refers to direct charges actually paid or payable for items consumed or put into production during the year, including freight charges and other direct charges incurred by the establishment in acquiring these materials. It includes the cost of materials or fuel consumed, whether purchased by the individual establishment from other companies, transferred to it from other establishments of the same company, or withdrawn from inventory during the year.

Included in this item are:

- 1. Cost of parts, components, containers, etc.—Includes all raw materials, semifinished goods, parts, containers, scrap, and supplies put into production or used as operating supplies and for repair and maintenance during the year.
- 2. Cost of products bought and sold in the same condition.

- 3. Cost of fuels consumed for heat and power—Includes the cost of materials or fuel consumed, whether purchased by the individual establishment from other companies, transferred to it from other establishments of the same company, or withdrawn from inventory during the year.
- 4. Cost of purchased electricity—The cost of purchased electric energy represents the amount actually used during the year for heat and power. In addition, information was collected on the quantity of electric energy generated by the establishment and the quantity of electric energy sold or transferred to other plants of the same company.
- 5. Cost of contract work—This term applies to work done by others on materials furnished by the manufacturing establishment. The actual cost of the material is to be reported on the cost of materials, parts, and containers line of this item. The term "Contract Work" refers to the fee a company pays to another company to perform a service.

Specific Materials Consumed

In addition to the total cost of materials, which every establishment was required to report, information also was collected for most manufacturing industries on the consumption of major materials used in manufacturing. The inquiries were restricted to those materials which were important parts of the cost of production in a particular industry and for which cost information was available from manufacturers' records. If less than \$25,000 of a listed material was consumed by an establishment, the cost data could be reported in the "Cost of all other materials...," Census material code 00970099. Also, the cost of materials for small establishments for which administrative records or short forms were used was imputed into the "Materials not specified by kind," Census materials code 00971000.

Duplication in Cost of Materials and Value of Shipment

The aggregate of the cost of materials and value of shipments figures for industry groups and for all manufacturing industries includes large amounts of duplication since the products of some industries are used as materials by others. This duplication results, in part, from the addition of related industries representing successive

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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 linesupervisor 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 sixdigit 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

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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
	NAICO COUE	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 repro- ducing
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 sixdigit 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 beginningand end-of-year inventories.

For those industries where value of production is collected instead of value of shipments, value added is adjusted only for the change in work-in-process inventories between the beginning and end of year. For those industries where value of work done is collected, the value added does not include an adjustment for the change in finished goods or work-in-process inventories.

"Value added" avoids the duplication in the figure for value of shipments that results from the use of products of some establishments as materials by others. Value added is considered to be the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

VALUE OF SHIPMENTS

This item covers the received or receivable net selling values, f.o.b. plant (exclusive of freight and taxes), of all products shipped, both primary and secondary, as well as all miscellaneous receipts, such as receipts for contract work performed for others, installation and repair, sales of scrap, and sales of products bought and sold without further processing. Included are all items made by or for the establishments from material owned by it, whether sold, transferred to other plants of the same company, or shipped on consignment. The net selling value of products made in one plant on a contract basis from materials owned by another was reported by the plant providing the materials.

In the case of multiunit companies, the manufacturer was requested to report the value of products transferred to other establishments of the same company at full economic or commercial value, including not only the direct cost of production but also a reasonable proportion of "all other costs" (including company overhead) and profit.

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

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

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

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

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

Duplication in Cost of Materials and Value of Shipment

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

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

Even when no significant amount of duplication is involved, value of shipments figures are deficient as measures of the relative economic importance of individual manufacturing industries or geographic areas because of the wide variation in ratio of materials, labor, and other processing costs of value of shipments, both among industries and within the same industry. Before 1962, cost of materials and value of shipments were not published for some industries which included considerable duplication. Since then, these data have been published for all industries at the U.S. level and beginning in 1964, for all geographic levels.

Specialization and Coverage Ratios

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

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

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

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

Appendix B. NAICS Codes, Titles, and Descriptions

511120 PERIODICAL PUBLISHERS

This U.S. industry comprises establishments known as magazine or periodical publishers. These establishments carry out the operations necessary for producing and distributing magazines and other periodicals, such as gathering, writing, and editing articles, and selling and preparing advertisements. These establishments may publish magazines and other periodicals in print or electronic form.

The data published with NAICS code 511120 include the following SIC industry:

2721 Periodicals

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 511120 do not include establishments primarily engaged in publishing shopping news. The NAICS definitions will be fully implemented with the 2002 Economic Census.

Appendix C. Coverage and Methodology

MAIL/NONMAIL UNIVERSE

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

1. Small single-establishment companies not sent a report form.

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

Estimates of data for these small establishments were developed using industry averages in conjunction with the administrative information. The value of shipments and cost of materials were not distributed among specific products and materials for these establishments but were included in the product and material "not specified by kind" (nsk) categories.

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

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

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

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

2. Establishments sent a report form.

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

a. ASM sample establishments.

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

In an economic census year, the ASM report form (MA-1000) replaces the first page of the regular census form for those establishments included in the ASM. In addition to information on employment, payroll, and other items normally requested on the regular census form, establishments in the ASM sample were requested to supply additional information on gross book value of assets and capital expenditures. ASM establishments were also requested to provide information on retirements, depreciation, rental payments, and supplemental labor costs. For establishments not included in the ASM, these additional items were estimated using relationships observed in the ASM establishment data. The census statistics for these variables are a sum of the ASM establishment data and the estimated data for non-ASM establishments. ASM establishments were also requested to provide information for selected purchased services. The census statistics for the purchased service items were derived solely from the ASM establishments. See Appendix A, Explanation of Terms for an explanation of these items. The census part of the report form is 1 of 220 versions containing product, material, and special inquiries. The diversity of manufacturing activities necessitated the use of this many forms to canvass the 480 manufacturing industries. Each form was developed for a group of related industries.

Appearing on each form was a list of products primary to the group of related industries as well as secondary products and miscellaneous services that establishments classified in these industries were likely to perform. Respondents were requested to identify the products, the value of each product, and, in many cases, the quantity of the product shipped during the survey year. Space also was provided for the respondent to describe products not specifically identified on the form.

The report form also contained a materialsconsumed 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 supplybased or production-oriented concepts in defining industries. The resulting group of establishments must be significant in terms of number, value added by manufacture, value of shipments, and number of employees.

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

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

In ASM years, establishments included in the ASM sample with certainty weights are reclassified by industry only if the change in the primary activity from the prior year is significant or if the change has occurred for 2 successive years. This procedure prevents reclassification when there are minor shifts in product mix.

In ASM years, establishments included in the ASM sample with noncertainty weight are not shifted from one industry classification to another. They are retained in the industry where they were classified in the base census year. However, in the following census year, these ASM plants are allowed to shift from one industry to another.

The results of these rules covering the switching of plants from one industry classification to another are that some industries comprise different mixes of establishments in different survey years. Hence, comparisons between prior-year and current-year published totals, particularly at the six-digit NAICS level, should be viewed with caution. This is particularly true for the comparison between the data shown for a census year versus the data shown for the previous ASM year.

As previously noted, the small establishments that may have been misclassified by industry are usually administrative-record cases whose industry codes were assigned on the basis of incomplete descriptions of the general activity of the establishment. Such possible misclassifications have no significant effect on the statistics other than on the number of companies and establishments. Establishments frequently make products classified both in their industry (primary products) and other industries (secondary products). Industry statistics (employment, payroll, value added by manufacture, value of shipments, etc.) reflect the activities of the establishments which may make both primary and secondary products. Product statistics, however, represent the output of all establishments without regard for the classification of the producing establishment. For this reason, when relating the industry statistics, especially the value of shipments, to the product statistics, the composition of the industry's output should be considered.

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

ESTABLISHMENT BASIS OF REPORTING

The economic census – manufacturing is conducted on an establishment basis. A company operating at more than one location is required to file a separate report for each location or establishment. The ASM also is conducted on an establishment basis, but separate reports are filed for just those establishments selected in the sample. Companies engaged in distinctly different lines of activity at one location are requested to submit separate reports if the plant records permit such a separation and if the activities are substantial in size.

In 1997, as in earlier years, a minimum size limit was set for inclusion of establishments in the census. All establishments employing one person or more at any time during the census year are included. The same size limitation has applied since 1947 in censuses and annual surveys of manufactures. In the 1939 and earlier censuses, establishments with less than \$5,000 value of products were excluded. The change in the minimum size limit in 1947 does not appreciably affect the historical comparability of the census figures except for data on number of establishments for a few industries.

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

DESCRIPTION OF THE ASM SURVEY SAMPLE

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

MANUFACTURING

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

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

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

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

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

Smaller establishments in the remaining portion of the mail stratum were sampled with probabilities ranging from .02 to 1.00. The initial probabilities of selection assigned to these establishments were proportionate to a measure-of-size determined for each establishment. The measure-of-size was a function of the establishment's 1992 industry classification, its 1992 product class data, and the historical variability of the year-to-year estimates of the product class estimates. For each product class (1,755) and four-digit industry (459), a desired reliability constraint was specified. Using a technique developed by Dr. James R. Chromy of the Research Triangle Institute, the initial establishment probabilities were optimized such that the expected sample satisfied all industry and product class reliability constraints while the sample size was minimized. This technique reduces the likelihood of selecting nonrepresentative samples for individual product classes or industries.

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

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

DESCRIPTION OF THE ASM ESTIMATING PROCEDURE

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

Due to the positive year-to-year correlation, estimates derived using this methodology are generally more reliable than comparable estimates developed from the current sample data alone. Estimates for the capital expenditures variables are not generated using the difference estimator because the year-to-year correlations are considerably weaker. The standard linear estimator is used for these variables.

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

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

QUALIFICATIONS OF THE ASM DATA

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

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

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

In conjunction with its associated estimate, the relative standard error may be used to define confidence intervals (ranges that would include the comparable, 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 broaderbased annual survey of manufactures and the economic

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

DUPLICATION IN COST OF MATERIALS AND VALUE OF SHIPMENTS

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

VALUE OF INDUSTRY SHIPMENTS COMPARED WITH VALUE OF PRODUCT SHIPMENTS

The 1997 Economic Census – Manufacturing shows value of shipments data for industries and products. In the industry statistics tables and files, these data represent the total value of shipments of all establishments classified in a particular industry. The data include the shipments of the products classified in the industry (primary to the industry), products classified in other industries (secondary to the industry), and miscellaneous receipts (repair work, sale of scrap, research and development, installation receipts, and resales). Value of product shipments shown in the products statistics tables and files represent the total value of all products shipped that are classified as primary to an industry regardless of the classification of the producing establishment.

Appendix D. Geographic Notes

Not applicable for this report.

Appendix E. Metropolitan Areas

Not applicable for this report.

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

Not applicable for this report.

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

1997 published	1997 collected	1992 published	1997 published	1997 collected	1992 published	1997 published	1997 collected	1992 published
5111101 5111101111	27111 2711101	27111 2711101	511120A 511120A111	2721C 2721C10	2721C 2721C10	511130N pt	2731J pt	27311 pt
5111101216 5111101321	2711111	2711111	511120A216	2721C20 2721C50	2721C20	511130N pt	2731J pt	27313 pt
5111101426 5111101531	2711132	2711132	511120A326 511120A331	2721C60	2721C60	511130N pt	2731J pt	27314 pt
5111101636 5111101YWV	2711152	2711152	511120A436	2721C80 2721C90	2721C80	511130N pt	2731J pt	2731B pt
5111103			511120AYWV	2721C00	2721C00	511130N pt	2731J pt	2731C pt
5111103111 5111103216	2711201	2711201	511120C 511120C111	2721D 2721D10	2721D 2721D10	511130N pt	2731J pt	2731D pt
5111103321	2711222 2711232	2711222	511120C116 511120C121	2721D15 2721D24	2721D15 2721D24	511130N pt	2731J pt	2731E pt
5111103531 5111103636	2711242	2711242	511120C191 511120C193	2721D31 2721D33	2721D31 2721D33	511130N pt 511130N111	2731J pt 2731J22	2731100 pt
5111103YWV	2711200	2711200	511120C196 511120CYWV	2721D35 2721D00	2721D35 2721D00	511130N116 511130N121	2731J26	2731100 pt
5111105	27113	27113 2711362	511120W	27210	27210	511130N126 511130N131	2731J32	2731300 pt
5111105116	2711362 2711398 2711300	2711302 2711398	511120WYWW 511120WYWY	2721000 2721002	2721000 2721002	511130N136 511130N141	2731J34 2731J36	2731300 pt
			5111301	27311	27311 pt	511130N146 511130N151 pt	2731J38 2731J42 pt	2731B00 pt
5111107	2711462	2711462	5111301216	2731111 2731112	2731112	511130N151 pt 511130N151 pt	2731J42 pt 2731J42 pt	•
5111107116 5111107YWV	2711498 2711400	2711498 2711400	5111301426	2731113 2731114	2731114	511130N156	2731J44	2731E00 pt
511110W	27110	27110	5111301636	2731115 2731116	2731116	511130N191 511130NYWV pt 511130NYWV pt	2731J00 pt	0701100 -
511110WYWW 511110WYWY	2711000 2711002	2711000 2711002	5111301741 5111301846 5111301951	2731121 2731123	2731123	511130NYWV pt	2731J00 pt 2731J00 pt	2731400 pt 2731B00 pt
5111201	27211	27211	5111301A56	2731125 2731131 2731100	2731131	511130NYWV pt	2731J00 pt 2731J00 pt	2731C00 pt 2731D00 pt
5111201111	2721112	2721112	5111303		•	511130NYWV pt 511130NYWV pt 511130NYWV pt 511130NYWV pt 511130NYWV pt 511130NYWV pt 511130NYWV pt	2731J00 pt 2731J00 pt	2731E00 pt 2731F00 pt
5111201YWV	2721114 2721100	2721100	5111303111	2731315 2731317	2731315			
5111203 5111203111		27213 2721324	5111303321	2731325 2731327	2731325	511130WYWW 511130WYWY	27310 pt 2731000 pt 2731002 pt	2731000 pt 2731002 pt
5111203116 5111203121	2721325	2721325	5111303531 5111303636	2731335	2731335	5111401	27416	27416
5111203126 5111203131	2721328	2721328	5111303791	2731345 2731347	2731345	5111401111 5111401116	2741612 2741614 2741600	2741600 pt 2741600 pt
5111203136 5111203141	2721332	2721332 2721334	5111303YWV	2731300	2731300 pt			
5111203146 5111203151	2721335	2721335 2721337	5111305 5111305111 pt	27314 2731412 pt	27314 pt 2731411	5111403 5111403111	2741713	2741713
5111203156	2721338	2721338	5111305111 pt 5111305111 pt	2731412 pt 2731412 pt	2731413 2731423	5111403116 5111403YWV	2741716 2741700	2741716 2741700
5111203161	2721340 2721342	2721340	5111305126	2731426 2731428	2731426 2731428	5111405	27418 pt	27418 pt
5111203171	2721344 2721346	2721344		2731400	•	5111405100 pt	2741800 pt	2741800 pt 2741815
5111203YWV	2721300	2721300	5111307 5111307100	2731A 2731A00	2731A 2731A00		2741B pt	
5111205 5111205111	27214 2721424	27214 2721424	5111309	2731B 2731B00	2731B pt 2731B00 pt	5111409 pt 5111409121	73311 7331100 pt	73310 pt 7331000 pt
5111205116 5111205121	2721425	2721425 2721427	5111309100 pt	2731B16 pt 2731B16 pt	2731B15	5111409191 5111409YWV pt	2741B52 2741B00 pt 7331100 pt	2741B00 pt 2741B00 pt
5111205126	2721428 2721430	2721428		2731C				
5111205136	2721432 2721434	2721432 2721434	511130A100 pt	2731C00 2731C74 pt	2731C00 pt		27410 pt	
5111205146 5111205151	2721437	2721437	511130A100 pt	2731C74 pt	2731C75	511140W pt 511140WYWW pt	73310 2741000 pt	73310 pt 2741000 pt
5111205156	2721438	2721438	511130C	2731D	2731D pt	511140WYWW pt	7331000 2741002 pt	7331000 pt 2741002 pt
5111205161	2721440 2721442	2721440 2721442	511130C216	2731D47 2731D51	2731D47		7331002	
5111205171	2721444 2721446	2721444	511130C426	2731D53 2731D00	2731D53		27710 pt	
5111205YWV	2721400	2721400		2731E		5111910111	27711	2771113
	2721A		511130E111	2731E21 2731E41	2731E21	5111910321 pt	2771115 2771123 pt	2771122
5111207221	2721A20 2721A50	2721A50	511130E121	2731E57 2731E00	2731E57	5111910426	2771123 pt 2771126	2771126
5111207231	2721A60 2721A70 2721A80	2721A70		2731E00		5111910536	2771127 2771129 2771134 pt	2771129
5111207441	2721A80 2721A90 2721A00	2721A90	511130G111	2731F13 2731F15	2731F13	5111910641 pt	2771134 pt 2771134 pt 2771000 pt	2771135 2771000 pt
			511130G191 pt	2731F18 pt	2731F17	5111910YWW pt	2771000 pt 2771100 2771002 pt	2771100
5111209 5111209111	2721B10	2721B10	511130GYWV	2731F18 pt 2731F00 pt	2731F00 pt		27419	
5111209321	2721B20 2721B50	2721B50	511130J	2731G pt 2731G00 pt		5111991100	27419	2741900
5111209331	2721B60 2721B70 2721B80	2721B70	511130J100 pt	2731G59	2731G59	5111993	2741A 2741A00	2741A 2741A00
5111209541	2721B90 2721B90 2721B00	2721B90	511130L 511130L100	2731H 2731H00	2731H 2731H00		27418 pt	

1997 published	1997 collected	1992 published	1997 published	1997 collected	1992 published	1997 published	1997 collected	1992 published
	2741B13 2741B15 2741B17 2741B17	2741B13 2741B15 2741B17 2741B18	5111995346 5111995352 5111995356 5111995361 5111995366 5111995369 5111995391	2741B25 2741B27 2741B29 2741B29	2741B25 2741B27 2741B29 2741813	5111995YWV pt 5111995YWV pt 511199W 511199W 511199WYWW 511199WYWY	2741B00 pt 27410 pt 2741000 pt	2741800 pt 27410 pt 2741000 pt

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