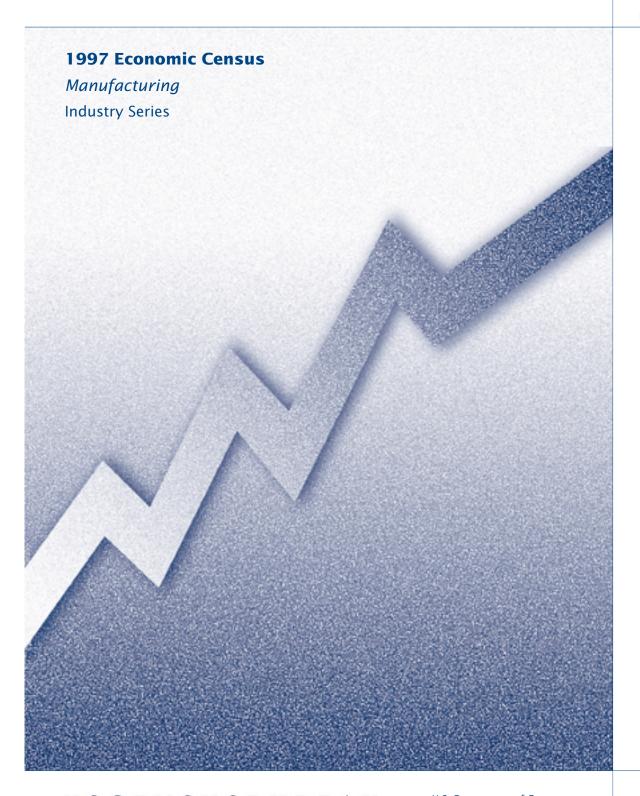
### Motor Vehicle Body Manufacturing

1997

ssued August 1999

EC97M-3362A



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### Motor Vehicle Body Manufacturing

EC97M-3362A

#### **1997 Economic Census**

Manufacturing **Industry Series** 





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#### Introduction to the Economic Census

#### PURPOSES AND USES OF THE ECONOMIC CENSUS

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

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

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

#### ALL-NEW INDUSTRY CLASSIFICATIONS

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

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

52 Finance and Insurance 53

Real Estate and Rental and Leasing 54 Professional, Scientific, and Technical Services

55 Management of Companies and Enterprises 56 Administrative and Support and Waste

Management and Remediation Services

61 **Educational Services** 

Health Care and Social Assistance 62

Arts. Entertainment, and Recreation 71

72 Accommodation and Foodservices

Other Services (except Public Administration)

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

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

#### RELATIONSHIP TO SIC

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

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

#### **GEOGRAPHIC AREA CODING**

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

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

#### **BASIS OF REPORTING**

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

#### **DOLLAR VALUES**

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

All dollar values are shown in thousands of dollars.

#### **AVAILABILITY OF ADDITIONAL DATA**

#### **Reports in Print and Electronic Media**

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

#### **Special Tabulations**

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

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

Manufacturing and Construction Division Service Sector Statistics Division

301-457-4673 301-457-2668

#### HISTORICAL INFORMATION

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

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

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

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

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

#### SOURCES FOR MORE INFORMATION

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

#### ABBREVIATIONS AND SYMBOLS

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

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

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

1997 ECONOMIC CENSUS INTRODUCTION 3 This page is intentionally blank.

### Manufacturing

#### **SCOPE**

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

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

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

NAICS			All employees		Production workers						Total capital	
or SIC code	Industry	Com- panies <sup>1</sup>	estab- lish- ments <sup>2</sup>	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)
<b>336211</b> 371140	Motor vehicle body mfg Motor vehicles & car bodies	749	808	42 674	1 227 480	32 517	65 252	837 327	2 962 835	5 968 543	8 934 842	229 111
371300	(pt)	N N	78 707	521 40 952	13 442 1 173 480	432 31 318	590 63 168	10 663 806 227	32 157 2 813 310	60 735 5 768 219	93 446 8 575 844	1 707 221 025
371410	Motor vehicle parts & accessories (pt)	N	23	1 201	40 558	767	1 494	20 437	117 368	139 589	265 552	6 379

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

#### Table 2. Industry Statistics for Selected States: 1997

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

tection in the descent of the first state of the fi												
	All establishments All employees Production workers		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)		Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
336211, MOTOR VEHICLE BODY MFG												
United States	1	808	339	42 674	1 227 480	32 517	65 252	837 327	2 962 835	5 968 543	8 934 842	229 111
Alabama California Florida Georgia Indiana	1	19 99 36 25 46	7 41 13 12 29	1 205 3 083 2 885 1 589 4 422	35 977 89 546 74 027 47 270 129 371	933 2 446 2 134 1 327 3 565	1 918 4 684 4 414 2 801 7 555	23 017 60 785 47 527 36 856 100 425	204 589 120 939	143 273 1 949 812 211 752 215 126 384 001	243 866 2 582 319 406 305 335 678 641 996	8 612 40 333 6 458 4 735 11 556
lowa	- 1 2 -	20 16 7 31 18	13 9 3 9 6	1 383 1 396 191 1 464 431	37 860 38 478 7 779 47 823 11 975	1 090 1 103 139 874 310	2 062 2 220 306 1 672 597	29 028 25 633 4 184 25 598 7 606	91 920 14 955 74 468	171 473 157 677 17 636 113 374 33 597	240 971 252 331 32 418 187 211 57 748	4 236 3 100 1 113 6 907 1 200
Mississippi Missouri New York North Carolina Ohio	4 1 - -	12 21 34 40 37	7 9 10 18 22	806 568 818 3 694 2 721	20 358 13 998 21 194 112 579 77 395	644 448 557 2 818 2 142	1 292 843 1 025 5 943 4 066	14 461 9 565 13 617 84 202 54 576	73 872 145 987	61 901 40 973 106 642 506 164 259 017	103 291 66 949 185 904 639 330 406 506	3 055 1 025 2 848 24 098 23 085
Oklahoma Oregon Pennsylvania South Carolina Tennessee Virginia Wisconsin	2 2 2 - -	18 19 63 4 14 12 18	6 4 27 4 4 7	360 534 4 357 207 619 491 2 434	8 338 14 836 118 354 4 891 16 278 12 532 86 705	286 329 3 184 111 470 381 1 871	531 671 6 389 188 925 747 3 833	5 643 7 825 72 282 1 918 9 713 8 163 62 697		33 590 53 270 313 082 28 701 158 231 38 228 240 386	53 346 74 238 556 589 54 900 170 510 59 293 427 950	1 168 1 668 19 014 673 3 540 2 717 6 893

<sup>\*</sup> 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
336211, MOTOR VEHICLE BODY MFG		336211, MOTOR VEHICLE BODY MFG—Con.	
Companies <sup>1</sup> number	749	Value added\$1,000	2 962 835
All establishments number . Establishments with 1 to 19 employees number . Establishments with 20 to 99 employees number . Establishments with 100 employees or more number	808 469 239 100	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	1 088 282 195 426 370 907 521 949
All employees         number           Total compensation <sup>2</sup> \$1,000           Annual payroll         \$1,000           Total fringe benefits         \$1,000	42 674 1 496 066 1 227 480 268 586	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.	1 044 444 215 486 347 383 481 575
Production workers, average for year	32 517 31 824	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	1 223 851 229 111
Production workers on May 12	32 598 33 078	(new and used)\$1,000 Capital expenditures for machinery and equipment (new	63 738
Production workers on November 12	32 568 65 252 837 327	and used) \$1,000. Total retirements <sup>2</sup> \$1,000. Gross book value of total assets at end of year \$1,000.	165 373 227 055 1 225 907
Production-worker wages		Total depreciation during year <sup>2</sup> \$1,000	77 077
Total cost of materials         \$1,000           Cost of materials, parts, containers, etc., consumed         \$1,000           Cost of resales         \$1,000           Cost of fuels         \$1,000           Cost of purchased electricity         \$1,000           Cost of contract work         \$1,000	5 968 543 5 502 957 368 053 16 785 38 130 42 618	Total rental payments <sup>2</sup> \$1,000 Buildings and other structures rental payments <sup>2</sup> \$1,000 Machinery and equipment rental payments <sup>2</sup> \$1,000 Cost of purchased services for the repair of buildings and other structures <sup>3</sup> \$1,000	38 357 20 932 17 425
Quantity of electricity purchased for heat and power1,000 kWh  Quantity of electricity generated less sold for heat and power1,000 kWh	589 225 S	Response coverage ratio <sup>4</sup> percent  Cost of purchased services for the repair of machinery and	81
Total value of shipments\$1,000	8 934 842	equipment <sup>3</sup> \$1,000 Response coverage ratio <sup>4</sup> percent Cost of purchased communications services <sup>3</sup> \$1,000	37 057 81
Primary products value of shipments	568 029 602 225	Response coverage ratio <sup>4</sup> percent. Cost of purchased legal services <sup>3</sup> \$1,000.	10 895 81 11 674
Value of resales         \$1,000           Contract receipts         \$1,000           Other miscellaneous receipts         \$1,000	496 100 10 881 95 244	Response coverage ratio <sup>4</sup> percent.  Cost of purchased accounting and bookkeeping services <sup>3</sup> \$1,000.  Response coverage ratio <sup>4</sup> percent.	81 4 257 81
Primary products specialization ratio percent	93 8 127 331	Cost of purchased advertising services <sup>3</sup> \$1,000 Response coverage ratio <sup>4</sup> percent Cost of purchased software and other data processing	14 280 81
Value of primary products shipments made in this industry \$1,000 . Value of primary products shipments made in other industries \$1,000	7 764 588 362 743	services <sup>3</sup> \$1,000.  Response coverage ratio <sup>4</sup> percent.  Cost of purchased refuse removal (including hazardous waste)	5 244 81
Coverage ratio	95	services <sup>3</sup>	4 749 81

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

<sup>&</sup>lt;sup>1</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

<sup>2</sup>These items are collected in the ASM and estimated for the remaining establishments; therefore, the levels of estimation are higher than for other items in the table.

<sup>3</sup>Based on ASM sample data.

<sup>4</sup>A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those ASM establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

#### Table 4. Industry Statistics by Employment Size: 1997

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

			All shments	All em	ployees	Pr	oduction work	ers				
Employment size class	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)
336211, MOTOR VEHICLE BODY MFG												
All establishments	1	808	339	42 674	1 227 480	32 517	65 252	837 327	2 962 835	5 968 543	8 934 842	229 111
Establishments with 1 to 4 employees	9	196	_	392	9 928	324	541	7 295	21 838	40 249	62 537	2 125
Establishments with 5 to 9 employees	8	128	-	896	22 262	725	1 194	15 961	46 547	81 491	129 263	4 750
employees	4	145	-	2 077	55 441	1 567	2 811	35 625	101 127	166 693	271 696	6 928
employees	2	155	155	4 839	127 900	3 759	7 228	84 926	278 662	391 392	670 784	12 385
employees	1	84	84	5 984	162 229	4 646	9 645	106 572	347 277	591 479	942 371	24 908
employees	1	63	63	9 804	267 844	7 406	15 016	182 286	647 294	884 696	1 536 104	59 654
employees	_	28	28	9 769	319 469	7 226	14 639	210 721	1 040 374	2 787 809	3 825 972	94 458
employees	1	5	5	3 571	100 469	2 786	5 974	74 390	200 276	253 443	460 821	9 514
employees	-	4	4	5 342	161 938	4 078	8 204	119 551	279 440	771 291	1 035 294	14 389
or more	-	-	-	-	_	_	-	_	_	-	-	_
Administrative records <sup>2</sup>	9	311	-	1 680	38 093	1 371	2 081	27 487	78 966	141 573	222 548	8 224

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.

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 estab-	All employees		Production workers			Value added			Total capital
industry or product class code	t industry or primary product class		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)
336211	Motor vehicle body mfg	808	42 674	1 227 480	32 517	65 252	837 327	2 962 835	5 968 543	8 934 842	229 111
3362111	Truck, bus, and other vehicle bodies including passenger car bodies and										
3362113	kit cars for sale separately Complete vehicles produced on	256	24 566	705 032	18 616	38 100	480 652	1 784 844	3 862 027	5 674 811	161 004
	purchased chassis	118	13 422	400 021	10 161	20 508	268 596	941 693	1 722 357	2 637 098	47 320

#### 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]

introductory text.	For explanation of terms, see appendixes]		19	997			19	992	
NAICS		Number of		Product	shipments	Number of		Product	shipments
product	Product	companies with shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)	companies with shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)
336211	MOTOR VEHICLES AND CAR BODIES	N	х	x	8 127 331	N	x	х	N
3362111	Truck, bus, and other vehicle bodies including passenger car bodies and kit cars for sale separately	N	х	x	5 043 843	N	x	Х	N
33621111 3362111101	Bus bodies for sale separately	N 11	X	X	364 036 364 036	N 13	××	X	N 346 340
33621112 3362111204	Truck cabs for sale separately	N 20	X	X	D D	N 21	X	X	N 523 651
33621113	Vans with unit body-cab for sale separately.	N	х	×	D	N	x	X	N
3362111307	Vans with unit body-cab for sale separately.	11	Х	x	D	16	×	X	119 323
33621114 3362111411	Van bodies with separate cab for sale separately	N	Х	х	459 475	N	x	х	N
	bodies with separate cab for sale separately	8	x	х	44 423	7	x	Х	24 891
3362111413 3362111416	Food service van bodies with separate cab for sale separately	10	X	X	35 461	10	x	X	48 475
	sale separately	30	X	X	379 591	28	x	Х	137 577
33621115 3362111519 3362111522	Other truck and vehicle bodies for sale separately, including dumptruck lifting mechanisms and kit cars.  Tank bodies for sale separately Front loading garbage and refuse truck	N 14	X	X	1 690 432 51 235	N 15	X X	X	N 18 113
3362111525	bodies (packer-types) for sale separately Rear loading garbage and refuse truck	8	Х	х	32 194	5	x	Х	N
3362111528	bodies (packer-types) for sale separately. Side loading garbage and refuse truck	9	Х	х	95 527	4	x	Х	46 663
	bodies (packer-types) for sale separately	7	х	х	33 429	4	x	X	27 212
3362111531	Other garbage and refuse truck bodies (packer-types) for sale separately	10	Х	x	28 849	9	x	Х	N
3362111534	Beverage truck bodies for sale separately	4	X	X	D	_6	X	X	39 752
3362111537 3362111541	Dump truck bodies for sale separately Stake and platform truck bodies for sale separately	58 43	X	×	234 331 65 425	52 42	x x	X X	112 192 43 235
3362111543	Utility line service truck bodies for sale separately.	35	X	x	125 700	36	x	X	102 857
3362111546	Other mobile service type truck bodies for sale separately	11	X	×	23 551	15	x	X	18 159
3362111549	Wrecker truck bodies for sale separately	15	х	×	125 954	12	x	Х	70 341
3362111552 3362111555	Passenger car bodies	7 5	X X X	X X X	D 9 299	4 N	X X X	X X X	N N
3362111558 3362111571	Motor vehicle fifth wheels, new Other truck and vehicle bodies, including dumptruck lifting	7			186 396	6			109 212
3362111Y	mechanisms	83	Х	X	517 610	N	X	Х	N
3362111YWV	cars) for sale separately, nsk	N	Х	Х	69 351	N	X	Х	N
3362113	kit cars) for sale separately, nsk	N N	X X	×	69 351 2 520 335	N N	×	X X	N N
33621131	Buses, complete, produced on purchased	"	^	^	2 320 333	'`	^	^	IN .
3362113101	chassis	17	X X	X X	1 022 450 1 022 450	N 13	X X	X X	N 315 019
33621132	Firefighting vehicles, complete, produced on purchased chassis.	, , ,	v		442 458	, .	V	v	N.
3362113219	Firefighting vehicles, complete, produced on purchased chassis.		X	X X	442 458	N 28	X X	X	N 330 954
33621133	Other trucks, produced on purchased chassis	N	х	x	934 076	N	x	X	N
3362113304	Ambulance and rescue vehicles complete, produced on purchased chassis		X	X	404 859	17	x	X	145 416
3362113307	Vans, complete, produced on purchased chassis		X	x	78 890	10	x	X	38 152
3362113311	Tank trucks, complete, produced on purchased chassis		X	X	47 405	11	x	X	50 934
3362113313	Beverage trucks, complete, produced on purchased chassis		Х	х	D	3	х	Х	D
3362113316	Dump trucks, complete, produced on purchased chassis	10	Х	X	12 404	6	x	Х	11 505

See footnotes at end of table.

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

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

			19	997		1992			
NAICS product code				Product	shipments	Number of		Product shipments	
	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)
336211	MOTOR VEHICLES AND CAR BODIES—Con.								
3362113	Complete vehicles produced on purchased chassis—Con.								
33621133	Other trucks, produced on purchased chassis—Con.								
3362113322	Utility line service trucks, complete, produced on purchased chassis	10	x	Х	D	9	х	x	D
3362113325	Other mobile service type trucks, complete, produced on purchased chassis	15	×	X	258 007	14	×	×	73 805
3362113328	Other trucks, complete, produced on purchased chassis, designed primarily for transporting persons or goods,	15	^	^	238 007	14	^	^	73 605
3362113331	nec Other trucks, complete, produced on purchased chassis, not designed	15	x	Х	59 775	N	Х	x	N
	primarily for transporting persons or goods, nec	10	x	Х	51 507	N	х	x	N
3362113Y	Complete vehicles produced on	N	×	X	121 351	l N	x	×	N
3362113YWV	purchased chassis, nsk Complete vehicles produced on purchased chassis, nsk	N N	x	X	121 351	N N	X	X	N
336211W	Motor vehicle body, nsk, total	N	X	Х	563 153	N	Х	X	N
336211WY	Motor vehicle body manufacturing, nsk,	N	, , , , , , , , , , , , , , , , , , ,	v	500 450		v		N.
336211WYWW	total Motor vehicle body manufacturing, nsk, for nonadministrative-record		X	Х	563 153	N	X	X	N
336211WYWY	establishments. Motor vehicle body manufacturing, nsk, for administrative-record	N	X	Х	350 323	N	X	X	N
	establishments	N	X	Х	212 830	N	Х	X	N

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

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

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

NAICS product class	Product class and geographic area		uct shipments 000)
code	• • •	1997	1992
3362111	TRUCK, BUS, AND OTHER VEHICLE BODIES INCLUDING PASSENGER CAR BODIES AND KIT CARS FOR SALE SEPARATELY		
	United States	5 043 843	N
	Alabama Arizona Florida Georgia Illinois	27 903 28 989 62 073	N N N N
	Indiana Iowa Kansas Kentucky Michigan	65 823 73 497 75 672	N N N N
	Minnesota . Mississippi Missouri . New Jersey . New York	65 955 28 370 13 112	N N N N
	North Carolina Ohio Oklahoma Pennsylvania South Dakota	260 219 21 807 375 481	N N N N
	Tennessee Texas. Virginia Washington West Virginia Wisconsin	144 373 33 797 19 162 19 030	N

See footnotes at end of table.

<sup>#</sup> Additional information is available for this item; see Appendix F.

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

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

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

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

NAICS product class	Product class and geographic area	Value of product shipments (\$1,000)				
code		1997	1992			
3362113	COMPLETE VEHICLES PRODUCED ON PURCHASED CHASSIS					
	United States	2 520 335	N			
	California Florida Georgia Indiana Iowa	297 431 224 569 187 610	N N N N N N N N N N N N N N N N N N N			
	Kansas Missouri. New Jersey. New York North Carolina	8 764 32 990 125 998	N N N N N			
	Ohio Oregon Pennsylvania South Dakota Texas Virginia Wisconsin	32 984 88 062 9 115 10 031 7 559	N N N N N N			

#### Table 7. Materials Consumed by Kind: 1997 and 1992

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

NAICS		19	97	19	992
material code	Material consumed	Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
336211	MOTOR VEHICLE BODY MFG				
33600001 33621103 33635003 33600005 33621101	Purchased chassis for vehicles (excluding passenger cars). Truck bodies Transmissions and parts Axles, brakes, drums, rims, wheels, and other metal motor wheel parts Car bodies	X X X X	509 592 57 412 65 657 42 866 14 518	X X X X	333 418 38 829 35 089 42 252 N
33633000 33637000 33251011	Shocks, struts, and other suspension equipment and parts Automotive stampings (including body parts, hubcaps, fenders, etc.) Motor vehicle metal hardware (lock units, door and window handles, hinges,	X	16 046 54 082	X	N N
33272203	etc.), except forgings	Х	106 339	X	N
33200091	products	X	35 583 104 937	X	N N
33210001 00190090 32621003 32610033	Forgings . Fluid power products . Pneumatic tires and inner tubes Pabricated plastics products, including components, housings, accessories,	X X X	13 922 125 009 24 805	X X X	N 72 778 N
32720005	etc. (except gaskets, hose and belting) Glass and glass products including windows and mirrors.	X X	16 730 26 009	X	N N
33636003 32551003	Seats (purchased separately) for automobiles, trucks, and buses	Х	33 732	x	N
33632100	products	X	46 892	х	N
33511003 33120007	and dome fixtures; except auto lamps).  Automotive lamps (bulbs and sealed beams) Steel bars, bar shapes, and plates (except castings, forgings, and fabricated	X X	29 285 4 180	X	N N
00400047	metal products)	X	101 985	X	N N
33120017 33120019	Steel sheet and strip, including tin plate. Steel structural shapes and sheet piling (except castings, forgings, and fabricated metal products)	X X	204 832 47 892	X	29 862
33120091	All other steel shapes and forms (except castings, forgings, and fabricated metal products).	X	33 940	×	30 889
33131501 33131600	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing	x x	129 616 45 908	x x	30 669 82 563 54 257
33100049	Other aluminum and aluminum-base alloy shapes and forms (except	^	43 900	^	34 237
33100077	castings, forgings, and fabricated metal products)  Other nonferrous shapes and forms (except castings, forgings, and	X	D	X	14 500
32100019 00970099 00971000	fabricated metal products) Rough and dressed lumber All other materials and components, parts, containers, and supplies Materials, ingredients, containers, and supplies, n.s.k.	X X X	D 20 005 824 304 2 656 308	X X X	2 828 29 854 N N

<sup>#</sup> 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.

<sup>#</sup> Additional information is available for this item; see Appendix F.

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

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

## Appendix A. Explanation of Terms

#### **BEGINNING- AND END-OF-YEAR INVENTORIES**

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

#### **Inventory Data by Stage of Fabrication**

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

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

#### **COST OF MATERIALS**

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

Included in this item are:

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

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

#### **Specific Materials Consumed**

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

### Duplication in Cost of Materials and Value of Shipment

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

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stages in the production of a finished manufactured product. Examples are the addition of flour mills to bakeries in the food group and the addition of pulp mills to paper mills in the paper and allied products group of industries. Estimates of the overall extent of this duplication indicate that the value of manufactured products exclusive of such duplication (the value of finished manufactures) tends to approximate two-thirds of the total value of products reported in the survey.

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

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

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

#### **COST OF PURCHASED SERVICES**

Annual Survey of Manufactures (ASM) establishments were requested to provide information on the cost of purchased services for the repair of buildings and other structures, the repair of machinery, communication services, legal services, accounting and bookkeeping services, advertising, software and other data processing services, and refuse removal. Each of these items reflects the costs paid directly by the establishment and excludes salaries paid to employees of the establishment for these services.

Included in the cost of purchased services for the repair of buildings and machinery are payments made for all maintenance and repair work on buildings and equipment. Payments made to other establishments of the same company and for repair and maintenance of any leased property also are included. Extensive repairs or reconstruction that was capitalized is considered capital expenditures and is, therefore, excluded from this item. Repair and maintenance costs provided by an owner as part of a rental contract or incurred directly by an establishment in using its own work force also are excluded.

Included in the cost of purchased advertising services are payments for printing, media coverage, and other advertising services and materials.

Included in the cost of purchased software and other data processing services are all purchases by the establishment from other companies. Excluded are services provided by other establishments of the same company (such as by a separate data processing unit).

Included in the cost of purchased refuse removal services are all costs of refuse removal services paid by the establishment, including costs for hazardous waste removal or treatment. Excluded are all costs included in rental payments or as capital expenditures.

#### **Response Coverage Ratio**

A response coverage ratio is a measure of the extent to which respondents report for an item. The estimate is made by calculating the ratio value of the weighted total employment data for all the ASM establishments that report the item to the weighted total employment data for all ASM establishments classified in an industry (reporters and non-reporters).

#### **DEPRECIATION CHARGES FOR FIXED ASSETS**

This item includes depreciation and amortization charged during the year against assets. Depreciation charged against fixed assets acquired since the beginning of the year and against assets sold or retired during the year are components of this category. Respondents were requested to make certain that they did not report accumulated depreciation.

#### **EMPLOYEES**

This item includes all full-time and part-time employees on the payrolls of operating manufacturing establishments during any part of the pay period which included the 12th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded. The "all employees" number is the average number of production workers plus the number of other employees in mid-March. The number of production workers is the average for the payroll periods including the 12th of March, May, August, and November.

#### **Production Workers**

This item includes workers (up through the line-supervisor level) engaged in fabricating, processing, assembling, inspecting, receiving, storing, handling, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial and guard services, product development, auxiliary production for plant's own use (e.g., power plant), recordkeeping, and other services closely associated with these production operations at the establishment covered by the report. Employees above the working-supervisor level are excluded from this item.

#### **All Other Employees**

This item covers nonproduction employees of the manufacturing establishment including those engaged in factory supervision above the line-supervisor level. It

includes sales (including driver-salespersons), sales delivery (highway truck drivers and their helpers), advertising, credit, collection, installation and servicing of own products, clerical and routine office functions, executive, purchasing, financing, legal, personnel (including cafeteria, medical, etc.), professional, and technical employees. Also included are employees on the payroll of the manufacturing establishment engaged in the construction of major additions or alterations utilized as a separate work force.

#### **FRINGE BENEFITS**

Fringe benefits are divided into legally required expenditures and payments for voluntary programs. The legally required portion consists primarily of Federal old age and survivors' insurance, unemployment compensation, and workers' compensation. Payments for voluntary programs include all programs not specifically required by legislation whether they were employer initiated or the result of collective bargaining. They include the employer portion of such plans as insurance premiums, premiums for supplemental accident and sickness insurance, pension plans, supplemental unemployment compensation, welfare plans, stock purchase plans on which the employer payment is not subject to withholding tax, and deferred profit-sharing plans. They exclude such items as companyoperated cafeterias, in-plant medical services, free parking lots, discounts on employee purchases, and uniforms and work clothing for employees.

### GROSS BOOK VALUE OF DEPRECIABLE ASSETS AT BEGINNING OF YEAR (BOY) AND END OF YEAR (EOY)

Total value of depreciable assets is collected on all census forms. It shows the value of depreciable assets for the beginning of year and end of year. The data encompass all fixed depreciable assets on the books of establishments. The values shown (book value) represent the actual cost of assets at the time they were acquired, including all costs incurred in making the assets usable (such as transportation and installation). Included are all buildings, structures, machinery, and equipment (production, office, and transportation equipment) for which depreciation reserves are maintained. Excluded are nondepreciable capital assets including inventories and intangible assets, such as timber and mineral rights.

The definition of fixed depreciable assets is consistent with the definition of capital expenditures. For example, expenditures include actual capital outlays during the year rather than the final value of equipment put in place and buildings completed during the year. Accordingly, the value of assets at the end of the year includes the value of construction in progress.

In addition, respondents were requested to make certain that assets at the beginning of the year plus capital expenditures, less retirements, equaled assets at the end of the year.

#### NUMBER OF ESTABLISHMENTS AND COMPANIES

A separate report was required for each manufacturing establishment (plant) with one employee or more. An establishment is defined as a single physical location where manufacturing is performed. A company, on the other hand, is defined as a business organization consisting of one establishment or more under common ownership or control.

If the company operated at different physical locations, even if the individual locations were producing the same line of goods, a separate report was requested for each location. If the company operated in two or more distinct lines of manufacturing at the same location, a separate report was requested for each activity.

An establishment not in operation for any portion of the year was requested to return the report form with the proper notation in the "Operational Status" section of the form. In addition, the establishment was requested to report data on any employees, capital expenditures, inventories, or shipments from inventories during the year.

#### **PAYROLL**

This item includes the gross earnings of all employees on the payrolls of operating manufacturing establishments paid in the calendar year. Respondents were told they could follow the definition of payrolls used for calculating the Federal withholding tax. It includes all forms of compensation, such as salaries, wages, commissions, dismissal pay, bonuses, vacation and sick leave pay, and compensation in kind, prior to such deductions as employees' social security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of corporations; it excludes payments to proprietors or partners of unincorporated concerns. Also excluded are payments to members of Armed Forces and pensioners carried on the active payrolls of manufacturing establishments.

The census definition of payrolls is identical to that recommended to all Federal statistical agencies by the Office of Management and Budget. It should be noted that this definition does not include employers' social security contributions or other nonpayroll labor costs, such as employees' pension plans, group insurance premiums, and workers' compensation.

The ASM provides estimates of employers' total supplemental labor costs (those required by Federal and state laws and those incurred voluntarily or as part of collective bargaining agreements).

#### PRODUCT CODES AND CLASSES OF PRODUCTS

NAICS United States industries are identified by a six-digit code, in contrast to the four-digit SIC code. The longer code accommodates the large number of sectors and allows more flexibility in designing subsectors. Each

product or service is assigned a ten-digit code. The product coding structure represents an extension by the Census Bureau of the six-digit industry classifications of the manufacturing and mining sectors. The classification system operates so that the industrial coverage is progressively narrower with the successive addition of digits. This is illustrated as follows:

NAICS level	NAICS code	Description
Industry	33461	Manufacturing and reproduction of magnetic and optical media
U.S. industry	334612	Reproduction of software
Product class	3346120	Prerecorded compact disc (except software), tape, and record reproducing
BLS link code	3346120X	_
Product code	3346120XXX	

As in previous censuses, data were collected for most industries on the quantity and value of individual products shipped. In the 1997 census program, information was collected on the output of almost 10,000 individual product items.

In the new system, there are about 1,500 product classes (seven-digit codes), about 6,000 census products (ten-digit codes), and an additional 3,700 CIR products (ten-digit codes). The ten-digit products are considered the primary products of the industry with the same first six digits.

The list of products for which separate information was collected was prepared after consultation with industry and government representatives. Comparability with previous figures was given considerable weight in the selection of product categories so that comparable 1992 information is presented for most products.

Typically, both quantity and value of shipments information were collected. However, if quantity was not significant or could not be reported by manufacturers, only value of shipments was collected.

Shipments include both commercial shipments and transfers of products to other plants of the same company. For industries in which a considerable portion of the total shipments is transferred to other plants of the same company, separate information on interplant transfers also was collected. Moreover, for products that are used to a large degree within the same establishment as materials or components in the fabrication of other products, total production and often consumption of the item within the plant (quantity produced and consumed) was collected. Typically, the information on production also was collected for products for which there are significant differences between total production and shipments in a given year because of wide fluctuations in finished goods inventories. Other measures of output of products with long production cycles were used as appropriate and feasible.

#### PRIMARY PRODUCT CLASS CODE

This file presents selected statistics for establishments according to their degree of specialization in products primary to their industry. This field contains either the six-digit North American Industrial Classification System (NAICS) industry code corresponding to all establishments in the industry, or the seven-digit NAICS product class code for all establishments within the industry that are specialized in a particular product class. Product class specialization is determined by evaluating the ratio of the largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment.

#### PRODUCTION-WORKER HOURS

This item covers hours worked or paid for at the plant, including actual overtime hours (not straight-time equivalent hours). It excludes hours paid for vacations, holidays, or sick leave.

### QUANTITY OF ELECTRIC ENERGY CONSUMED FOR HEAT AND POWER

Data on the cost of purchased electric energy were collected on all census forms. However, data on the quantity of purchased electric energy were collected only on the Annual Survey of Manufactures (ASM) form. In addition, information is collected on the quantity of electric energy generated by the establishment and the quantity of electric energy sold or transferred to other plants of the same company.

#### RENTAL PAYMENTS

Total rental payments are collected on all census forms. However, the breakdown between rental payments for buildings and other structures and rental payments for machinery and equipment is collected only on the ASM forms. This item includes rental payments for the use of all items for which depreciation reserves would be maintained if they were owned by the establishment, e.g., structures and buildings, and production, office, and transportation equipment. Excluded are royalties and other payments for the use of intangibles and depletable assets and land rents where separable.

When an establishment of a multiestablishment company was charged rent by another part of the same company for the use of assets owned by the company, it was instructed to exclude that cost from rental payments. However, the book value (original cost) of these companyowned assets was to be reported as assets of the establishment at the end of the year.

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

#### RETIREMENTS OF DEPRECIABLE ASSETS

Included in this item is the gross value of assets sold, retired, scrapped, destroyed, etc., during the calendar year. When a complete operation or establishment changed ownership, the respondent was instructed to report the value of the assets sold at the original cost as recorded in the books of the seller. The respondent also was requested to report retirements of equipment or structures owned by a parent company that the establishment was using as if it were a tenant.

#### TOTAL CAPITAL EXPENDITURES (NEW AND USED)

For establishments in operation and any known plants under construction, manufacturers were asked to report their new and used expenditures for (1) permanent additions and major alterations to manufacturing establishments and (2) machinery and equipment used for replacement and additions to plant capacity if they were of the type for which depreciation accounts were ordinarily maintained.

Totals for expenditures include the costs of assets leased from nonmanufacturing concerns through capital leases. New facilities owned by the Federal Government but operated under contract by private companies and plant and equipment furnished to the manufacturer by communities and nonprofit organizations are excluded. Also excluded are expenditures for land and cost of maintenance and repairs charged as current operating expenses.

For any equipment or structure transferred for the use of the reporting establishment by the parent company or one of its subsidiaries, the value at which it was transferred to the establishment was to be reported. If an establishment changed ownership during the year, the cost of the fixed assets (building and equipment) was to be reported.

#### **VALUE ADDED**

This measure of manufacturing activity is derived by subtracting the cost of materials, supplies, containers, fuel, purchased electricity, and contract work from the value of shipments (products manufactured plus receipts for services rendered). The result of this calculation is adjusted by the addition of value added by merchandising operations (i.e., the difference between the sales value and the cost of merchandise sold without further manufacture, processing, or assembly) plus the net change in finished goods and work-in-process between the beginning-and end-of-year inventories.

For those industries where value of production is collected instead of value of shipments, value added is adjusted only for the change in work-in-process inventories between the beginning and end of year. For those

industries where value of work done is collected, the value added does not include an adjustment for the change in finished goods or work-in-process inventories.

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

#### **VALUE OF SHIPMENTS**

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

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

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

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

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

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

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

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### Duplication in Cost of Materials and Value of Shipment

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

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

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

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

#### **Specialization and Coverage Ratios**

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

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

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

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

## Appendix B. NAICS Codes, Titles, and Descriptions

#### 336211 MOTOR VEHICLE BODY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing truck and bus bodies and cabs and automobile bodies. The products made may be sold separately or may be assembled on purchased chassis and sold as complete vehicles.

The data published with NAICS code 336211 include the following SIC industries:

3711 Motor vehicles and car bodies (pt)

3713 Truck and bus bodies

3714 Motor vehicle parts and accessories (pt)

## Appendix C. Coverage and Methodology

#### MAIL/NONMAIL UNIVERSE

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

 Small single-establishment companies not sent a report form.

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

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

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

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

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

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

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

2. Establishments sent a report form.

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

a. ASM sample establishments.

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

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

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

The report form also contained a materials-consumed inquiry which varied from form to form depending on the industries being canvassed. The respondents were asked to review a list of materials generally used in their production processes. From this list, each establishment was requested to identify those materials consumed during the survey year, the cost of each, and, in certain cases, the quantity consumed. Once again, space was provided for the respondent to describe significant materials not identified on the form.

A wide variety of special inquiries was included to measure activities peculiar to a given industry, such as operations performed and equipment used.

b. Large and medium establishments (non-ASM).

Approximately 30 percent of all manufacturing establishments were included in this group. A variable cutoff, based on administrative-record payroll data and determined on an industry-by-industry basis, was used to select those establishments that were to receive 1 of the 220 economic census – manufacturing regular forms. The first page, requesting establishment data for items such as employment and payroll, was standard but did not contain the detailed statistics included on the ASM form. The product, material, and special inquiry sections supplied were based on the historical industry classification of the establishment.

c. Small single-establishment companies (non-ASM).

This group includes approximately 15 percent of all manufacturing establishments. For those industries where application of the variable cutoff for administrative-record cases resulted in a large number of small establishments being included in the mail canvass, an abbreviated or short form was used. These establishments received 1 of the 31 versions of the short form, which requested summary product and material data and totals but no details on employment, payroll, cost of materials, inventories, and capital expenditures.

Use of the short form has no adverse effect on published totals for the industry statistics because the same data were collected on the short form as on the long form. However, detailed information on products and materials consumed was not collected on the short form; thus, its use would increase the value of the nsk categories.

### INDUSTRY CLASSIFICATION OF ESTABLISHMENTS

Each of the establishments covered in the 1997 Economic Census – Manufacturing was classified in 1 of 480 industries (473 manufacturing industries and 7 former manufacturing industries) in accordance with the industry definitions in the 1997 NAICS Manual. This is the first edition of the NAICS Manual and it is a major change from the 1987 SIC Manual that was used previously. Appendix A of the 1997 NAICS Manual notes the comparability between the 1987 SIC and 1997 NAICS classification systems. When applicable, Appendix G of this report shows the product class and product comparability between the two systems for data in this report.

In the NAICS system, an industry is generally defined as a group of establishments that have similar production processes. To the extent practical, the system uses supply-based or production-oriented concepts in defining industries. The resulting group of establishments must be significant in terms of number, value added by manufacture, value of shipments, and number of employees.

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

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

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

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

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

As previously noted, the small establishments that may have been misclassified by industry are usually administrative-record cases whose industry codes were assigned on the basis of incomplete descriptions of the general activity of the establishment. Such possible misclassifications have no significant effect on the statistics other than on the number of companies and establishments.

Establishments frequently make products classified both in their industry (primary products) and other industries (secondary products). Industry statistics (employment, payroll, value added by manufacture, value of shipments, etc.) reflect the activities of the establishments which may make both primary and secondary products. Product statistics, however, represent the output of all establishments without regard for the classification of the producing establishment. For this reason, when relating the industry statistics, especially the value of shipments, to the product statistics, the composition of the industry's output should be considered.

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

#### **ESTABLISHMENT BASIS OF REPORTING**

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

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

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

#### **DESCRIPTION OF THE ASM SURVEY SAMPLE**

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

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

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

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

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

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

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

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

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

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

### DESCRIPTION OF THE ASM ESTIMATING PROCEDURE

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

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

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

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

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

#### QUALIFICATIONS OF THE ASM DATA

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

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

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

In conjunction with its associated estimate, the relative standard error may be used to define confidence intervals (ranges that would include the comparable, completecoverage value for specified percentages of all the possible samples).

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

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

From two standard errors below to two standard errors above the derived estimate for about 19 out of 20 of all possible samples.

From three standard errors below to three standard errors above the derived estimate for nearly all samples.

An inference that the comparable, complete-survey result would be within the indicated ranges would be correct in approximately the relative frequencies shown. Those proportions, therefore, may be interpreted as defining the confidence that the estimates from a particular sample would differ from complete-coverage results by as much as one, two, or three standard errors, respectively.

For example, suppose an estimated total is shown at 50,000 with an associated relative standard error of 2 percent, that is, a standard error of 1,000 (2 percent of 50,000). There is approximately 67 percent confidence that the interval 49,000 to 51,000 includes the complete-coverage total, about 95 percent confidence that the interval 48,000 to 52,000 includes the complete-coverage total, and almost certain confidence that the interval 47,000 to 53,000 includes the complete-coverage total.

In addition to the sample errors, the estimates are subject to various response and operational errors: errors of collection, reporting, coding, transcription, imputation for nonresponse, etc. These operational errors also would occur if a complete canvass were to be conducted under the same conditions as the survey. Explicit measures of their effects generally are not available. However, it is believed that most of the important operational errors were detected and corrected during the Census Bureau's review of the data for reasonableness and consistency. The small operational errors usually remain. To some extent, they are compensating in the aggregated totals shown. When important operational errors were detected too late to correct the estimates, the data were suppressed or were specifically qualified in the tables.

As derived, the estimated standard errors included part of the effect of the operational errors. The total errors, which depend upon the joint effect of the sampling and operational errors, are usually of the order of size indicated by the standard error, or moderately higher. However, for particular estimates, the total error may considerably exceed the standard errors shown. Any figures shown in the tables in this publication having an associated standard error exceeding 15 percent may be combined with higher level totals, creating a broader aggregate, which then may be of acceptable reliability.

### DATA FROM THE CURRENT INDUSTRIAL REPORTS (CIR)

The CIR program provides product statistics for selected manufacturing industries at the U.S. level annually and, in some cases, monthly and/or quarterly. When detail product data are collected in the CIR, they are not also collected in the census. However, the annual CIR data are included in the census Product Summary report.

The CIR program uses a unified data collection, processing, and publication system. The Census Bureau updates the survey panels for most reports annually and reconciles the estimates to the results of the broader-based annual survey of manufactures and the economic

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

### **DUPLICATION IN COST OF MATERIALS AND VALUE OF SHIPMENTS**

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

### VALUE OF INDUSTRY SHIPMENTS COMPARED WITH VALUE OF PRODUCT SHIPMENTS

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

C-6 APPENDIX C MANUFACTURING

### Appendix D. Geographic Notes

Not applicable for this report.

1997 ECONOMIC CENSUS APPENDIX D D-1

### Appendix E. Metropolitan Areas

Not applicable for this report.

1997 ECONOMIC CENSUS APPENDIX E E-1

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

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
3361110 pt	37110 pt	37110 pt	336211W pt	37110 pt	37110 pt	3363121	37142 pt	
3361110 pt	37111 pt	37111 pt	336211W pt	37130	37130	3363121101 3363121224	3714201 3714218	3714201 3714218
3361110 pt	37114 pt	37114 pt				3363121351 3363121354	3714231 3714232	
3361110100 pt 3361110100 pt	3711100 pt	3711100 pt 3711111 pt	336211W pt	37140 pt	37140 pt 3711000 pt	3363121457	3714234	3714234
3361110100 pt	3711151	3711151	336211WYWW pt 336211WYWW pt	3713000	3713000	3363121467 3363121504	3714237 3714206	3714237 3714206
3361110100 pt 3361110100 pt	3711403	3711400 pt 3711400 pt	336211WYWY pt	3711002 pt	3711002 pt	3363121507	3714207	3714207
3361110YWW	3711000 pt		336211WYWY pt	3713002	3713002 3714002 pt	3363121511 3363121514	3714208 3714209	3714208 3714209
	37110 pt		,	·	·	3363121517	3714215	3714215
	37114 pt		3362121	37151 3715100		3363121521 3363121527	3714216 3714217	
3361120 pt						3363121531	3714222	3714222
3361120100 pt	3711405	3711400 pt	3362123	37152 3715200	37152 3715200	3363121534 3363121537	3714224 3714225	3714224 3714225
3361120100 pt 3361120100 pt	3711600	3711600	226242W	37150	37150	3363121541 3363121544	3714226 3714227	
3361120YWW	3711000 pt 3711002 pt	3711000 pt	336212W	3715000	3715000	3363121571	3714241	3714241
	37114 pt		336212WYWY	3715002	3715002	3363121574 3363121YWV	3714249	
			3362130	37160	37160	3363123	3714A pt	·
	37115 pt		3362130101 3362130104	3716005	3716001 3716005	3363123101 3363123104	3714A02	3714A02
	3711407	3711400 pt	3362130107 3362130111	3716007 3716021	3716007	3363123107	3714A23	3714A23
3361201100 pt 3361201100 pt			3362130YWW	3716000	3716000	3363123111	3714A25	
3361201100 pt	3711500 pt	3711800	3362130YWY	3716002	3716002	3363123121 3363123YWV	3714A00 pt	3714A00 pt
3361202 pt	37114 pt	37114 pt	3362141	37921	37921	336312W	37140 pt	
3361202 pt	37119		3362141101 3362141104	3792114	3792114	336312WYWW 336312WYWY	3714000 pt 3714002 pt	
3361202100 pt 3361202100 pt	3711400 pt	3711400 pt	3362141207 3362141311	3792116 3792118	3792116 3792118	3363210	36470	36470
3361202100 pt	3711900	3711900	3362141413	3792125	3792125	3363210100 3363210YWW	3647000 pt 3647000 pt	3647000 pt
3361203 3361203101	37113 3711304	37113 3711304	3362141516 3362141YWV	3792128 3792100		3363210YWY	3647002	3647002
3361203104	3711303	3711303	3362143			3363221	36941	
	3711300	3711300	3362143101	3799611	3799601 pt	3363221101 3363221104	3694101 3694102	
336120W	37110 pt	37110 pt 3711000 pt	3362143105 3362143108	3799613 3799615	3799602 pt 3799604 pt	3363221201	3694103 3694104	3694103
336120WYWY	3711002 pt		3362143111 3362143114	3799617 3799619	3799607 pt	3363221204 3363221YWV	3694100	
3362111 pt	37111 pt	37111 pt	3362143117 pt	3799651 pt	3799601 pt	3363223	36942	36942
3362111 pt	37131	37131	3362143117 pt 3362143117 pt			3363223101 3363223104	3694201 3694202	3694202
3362111 pt	37149 pt	37149 pt	3362143117 pt 3362143117 pt		3799607 pt 3799609 pt	3363223201 3363223204	3694203 3694204	3694203 3694204
3362111101 3362111204	3713101 3713102		3362143YWV	3799600	3799600	3363223YWV	3694200	3694200
3362111307	3713112	3713112	3362145	37922	37922	3363225	36943	36943
3362111411 3362111413	3713116	3713116	3362145101 3362145204	3792242 3792244	3792242 3792244	3363225101 3363225104	3694301	3694302
3362111416 3362111519	3713117 3713121	3713117 3713121	3362145207	3792247	3792247	3363225201 3363225YWV	3694303 3694300	
3362111522	3713131	3713131	3362145311 pt 3362145311 pt	3792268 pt	3792263	3363227	36944	36944
3362111525 3362111528	3713132 3713135	3713132 3713135	3362145311 pt 3362145YWV	3792268 pt		3363227100	3694400	
3362111531	3713139	3713139		37920		3363229 3363229101	36947 3694701	36947 3694701
3362111534 3362111537	3713143	3713143 3713153	·			3363229201	3694711	3694711
3362111541	3713155	3713155	336214W pt 336214WYWW pt		37990 pt 3792000	3363229301 3363229304	3694702 3694704	3694702 3694704
3362111543 3362111546	3713162	3713161 3713162	336214WYWW pt 336214WYWY pt	3799000 pt	3799000 pt	3363229307 3363229309	3694705	3694705
3362111549	3713163 3711171	3713163		3792002 3799002 pt	3799002 pt	3363229309 3363229YWV	3694719	3694719 3694700
3362111555	3711181	3711111 pt	3363111	35921	35921	336322A	36949	36949
	3714925		3363111101	3592101	3592101	336322A101 336322A204	3694901 3694907	3694901 3694907
3362111571 pt 3362111571 pt	3713171 3714924	3713171 3714941 pt	3363111103 3363111105	3592102 3592103	3592102 3592103	336322A307 336322A409	3694911	3694911
3362111YWV pt 3362111YWV pt	3711100 pt	3711100 pt	3363111207 3363111YWV	3592105 3592100	3592105 3592100	336322A512	3694912	3694912 3694913
3362111YWV pt	3714900 pt				35922	336322A615 336322AYWV	3694919 3694900	3694919 3694900
3362113 pt	37114 pt	37114 pt	3363113101	3592201	3592201	336322C pt	36799 pt	
3362113 pt	37132	37132	3363113103 3363113205	3592203	3592203	336322C pt	37149 pt	·
3362113101 3362113219	3713201	3713201 3713225	3363113207 3363113209	3592204	3592204 3592205	336322C pt	3714A pt	3714A pt
3362113304	3713211	3713211	3363113211	3592206	3592206	336322C102	3714913	3714913
3362113307 3362113311	3713213 3713215	3713213 3713215	3363113313 3363113YWV	3592209 3592200	3592209 3592200	336322C104 336322C107	3714914 3714915	3714941 pt 3714941 pt
3362113313 3362113316	3713217 3713218	3713217 3713218			35923	336322C111 pt	3714921 pt	3714917
3362113322	3713226	3713226	3363115 3363115101	3592301	3592301	336322C114	3714942	3714904 pt
3362113325 3362113328	3713227 3713241	3713227 3713239 pt	3363115103 3363115YWV	3592302	3592302	336322C117 336322C119	3714944 3679926	3714904 pt 3679920 pt
3362113331 pt	3711411	3711400 pt	336311W		35920	336322C121 336322C122	3714945	3714941 pt
	3711400 pt	3711400 pt	336311WYWW	3592000	3592000	336322C124	3714A05	3714A41 pt
3362113YWV pt	3713200	3713200	336311WYWY	3592002	3592002	336322C127	3714A40	3714A41 pt

1997 published	1997 collected	1992 published	1997 published	1997 collected	1992 published	1997 published	1997 collected	1992 published
	3679900 pt	3679900 pt 3714900 pt 3714A00 pt	3363503YWV 336350W 336350WYWW 336350WYWY	37140 pt 3714000 pt 3714002 pt	37140 pt 3714000 pt 3714002 pt	3364117 3364117101 3364117104 3364117107 3364117111 3364117YWV	3721813 3721815 3721853	3721813 3721815 3721853 3721855
336322W pt 336322W pt 336322WYWW pt		37140 pt	3363601 3363601100 3363602	2396200	23990 pt	336411W	37210	37210 3721000
336322WYWW pt 336322WYWW pt 336322WYWY pt	3694000	3694000 3714000 pt 3679002 pt	3363602100 3363603 3363603101	25312 pt	25312 pt 2531213	3364121 3364121100	3724100	3724100
	3694002	3714002 pt	3363603104 3363603YWV	2531200 pt	2531215 2531200 pt	3364123 3364123000 3364125		3724200
3363301 pt	37149 pt	37149 pt 3714905 3714906 3714907 3714920	336360W pt 336360W pt 336360W pt 336360W yww pt	23990 pt	23990 pt 25310 pt 2396000 pt	3364125101 3364125104 3364125107 3364125111	3724321 3724323 3724331	3724321 3724323 3724331 3724333
3363301511 3363301514 3363301521 3363301524 3363301526	3714908	3714908 3714941 pt 3714941 pt 3714941 pt 3714228	336360WYWW pt 336360WYWW pt 336360WYWY pt 336360WYWY pt 336360WYWY pt	2399000 pt	2399000 pt 2531000 pt 2396002 pt 2399002 pt 2531002 pt	3364127 3364127101 3364127204 3364127307 3364127411	3724402 3724405 3724406	3724401 3724402 3724405 3724406
3363301531 3363301YWV pt 3363301YWV pt	3714911	3714941 pt 3714200 pt 3714900 pt	3363700 3363700100 3363700YWW 3363700YWY	34650	34650 3465000 pt 3465000 pt 3465002	3364127YWV 336412W 336412WYWW 336412WYWY	3724400 37240 3724000	37240 3724000
3363303104 3363303121 3363303YWV	3714A06	3714A06 3714A39 3714A41 pt 3714A00 pt	3363917 3363917010 3363917020 3363917030 3363917YWV	3585705	3585100 pt 3585100 pt 3585100 pt 3585100 pt	3364131	37282	37282 3728210 3728231 3728251 3728261
336330WYWW 336330WYWY 3363401 pt	3714002 pt	3714002 pt 32922	336391B 336391B000 336391W 336391WYWW		35854 pt 3585400 pt 35850 pt 3585000 pt	3364131YWV 3364133 3364133101 33641331WV	37283 3728313	37283 3728313 3728315
3363401 pt	3714801 3714802 3714807 3714809 3714811 3714813 3714817 3714803	37149 pt 3714801 3714802 3714807 3714807 3714809 3714811 3714813 3714817 3714803	336391WYWY 3363991101 3363991104 3363991107 3363991111 3363991113 3363991116 3363991119 3363991119	37144	37144 3714401 3714402 3714404 3714405 3714407 3714408 3714409	3364135. 3364135101 3364135104 3364135207 3364135211 3364135211 3364135416 33641354VVV	37285	37285 3728513 3728515 3728594 3728594 3728598 3728599 3728500
3363401737 3363401741 3363401744 3363401745 3363401747 pt		3714821	3363993 3363993101 3363993104 3363993107 3363993YWV	3714502	3714502	336413W	37611	3728000 pt 3728002 pt 37611
3363401747 pt 3363401747 pt 3363401747 pt 3363401747 pt 33634017WV pt 3363401YWV pt	3292200 pt	3292211 3292215 3292221 3292258 3714827 3292200 pt 3714800	3363995 3363995101 3363995104 3363995107 3363995111 3363995YWV	3714701	3714705 3714707 3714714 3714700	3364147	37616	3761300 37616 3761600 37612
3363403104	3714A09	3714A pt 3714A09 3714A10	3363997 pt 3363997 pt	37142 pt	37142 pt	3364147101 3364147204 3364147YWV	3761201	3761201 3761202 3761200 37614
3363403107 3363403111 3363403114 3363403117 3363403121	3714A33 3714A35 3714A37 3714A44	3714A33 3714A35 3714A37 3714A41 pt	3363997 pt 3363997101 3363997204 3363997307	3714A pt 3714901 3714902 3714903	3714A pt 3714901 3714902 3714903	3364149101 3364149104 3364149YWV	3761401 3761402 3761400 37617	3761400 37617
336340W pt	32920 pt	32920 pt 37140 pt	3363997401 3363997405 3363997409 3363997514	3714236	3714236 3519987 3714909	336414A101 336414A104 336414AYWV	3761703 3761700 37610	3761703 3761700 37610
336340WYWY pt 336340WYWY pt	3714000 pt 3292002 pt 3714002 pt	3714000 pt 3292002 pt 3714002 pt	3363997527 3363997531	3714923 3714931	3714923 3714931	336414WYWW 336414WYWY 3364151 3364151101	3761000	3761002 37645
3363501	37146	37146 3714603 3714605 3714613 3714615	3363997551 3363997554 3363997YWV pt 3363997YWV pt	3714A52	3714A41 pt 3519900 pt 3714200 pt 3714900 pt	3364151204 3364151307 3364151YWV	3764513	3764513 3764515 3764500
3363501313 3363501316 3363501434 3363501519 3363501522	3714623	3714623 3714625 3714641 3714628 3714631	3363997YWV pt 336399W pt	35190 pt	35190 pt 37140 pt	3364153101 3364153104 3364153107 3364153YWV	3764611	3764611 3764613 3764615 3764600
3363501525 3363501528 3363501531 3363501537 3363501541	3714633	3714633 3714635 3714637 3714643 3714649	336399WYWW pt 336399WYWW pt 336399WYWY pt 3364111	3714000 pt 3519002 pt 3714002 pt 37211	3714000 pt 3519002 pt 3714002 pt 37211	3364155 3364155101 3364155104 3364155107 3364155YWV	37647	37647 3764711 3764713 3764715 3764700
3363501YWV 3363503 3363503101 3363503104	3714A pt	3714A04	3364111100 3364113 3364113000	37215 3721500	37215 3721500	3364157 3364157101 3364157104 3364157107 3364157YWV	37648	3764813 3764815
3363503107 3363503111 3363503114	3714A29	3714A29 3714A31 3714A41 pt	3364115 3364115101 3364115104 3364115YWV	3721711 3721751	3721711 3721751	336415W	37640	37640 3764000

3364191413 3769235 3769235 336611516 37731367 37731367 3773137 336611707 375000 p. 373200 3769000 3769000 3769000 3769000 376941 336611512 3731332 3731321 33691116 375114 375113341 336911701 375114	992 publishe
336419101 3768211 3768211 3366115101 3731315 3366127WW 373200 37323 3364191104 3768213 3768213 3768213 3366115101 3731315 3366127WW 373200 pt 3732 3364191311 3768225 3768225 3366125113 3731348 3731349 373149 3	
336419104 3769213 3769213 3366115107 3731335 3731335 3366107 373200 pt. 373200 pt. 37336419127 3769219 3769219 3769219 336611511 3731343 3731343 386107WW 373200 pt. 3732336419131 3769235 3769225 386915116 3731347 373147 3866127WW 373200 pt. 3732336419131 3769225 3769220 336611516 3731347 373147 3366127WW 373200 pt. 373233641917W 3769220 3769220 336611512 373132 373132 3366127WW 373200 pt. 373233641917W 3769220 3769220 336611512 3731332 3731333 386911 pt. 37511 37513 3751336419131 376944 386911512 3731332 3731333 386911 pt. 37511 37513 375133611 3769414 3769414 386911512 pt. 3731361 pt. 3731326 336911 pt. 375148 pt. 3751361101 3769415 3769425 3769425 3869115124 pt. 3731361 pt. 3731326 336911101 pt. 375148 pt. 375136419311 3769435 3769425 3869115124 pt. 3731361 pt. 3731326 3369911101 pt. 375148 pt. 375136419311 3769435 3769425 3869115124 pt. 3731361 pt. 3731326 3369911101 pt. 375148 pt. 375136419311 3769435 3769435 3369115124 pt. 3731361 pt. 3731326 3369911101 pt. 375148 pt. 375136419311 3769435 3769435 3369115124 pt. 3731361 pt. 3731341 3769435 386911101 pt. 375148 pt. 375136419311 3769435 3769435 386911101 pt. 375148 pt. 375136419311 3769435 3769435 386911101 pt. 375148 pt. 37513641931 3769435 3769435 386911101 pt. 375148 pt. 37513641931 3769435 3769435 386911101 pt. 375148 pt. 37513641931 3769435	
3384191107 3769219 3769219 336611511 3731343 3731343 336912WW 3732002 p. 3732333 33691911 3769225 3769	2700
3364191311 3769225 3769225 3366115113 3731348 3731348 336612WWW 3732000 pl 3732 3364191413 3769225 3769236 3366115119 3731367 3731367 336512WWW 3732000 pl 3732 3364191413 3769225 3769200 3769200 3366115119 3731327 3731327 336611111 375111 3751 3364191WW 3769200 3769200 3769200 336611512 pl 3731321 3731327 3369911 pl 375114 pl 3751 3364193101 3769414 3769414 3366115124 pl 3731361 pl 3731326 33699110 pl 375144 pl 3751 3364193101 3769419 3769419 3769419 366115124 pl 3731361 pl 3731326 33699110 pl 375144 pl 3751 3364193107 3769425 3769425 3366115124 pl 3731361 pl 3731326 33699110 pl 375144 pl 3751 3364193107 3769425 3769425 3366115124 pl 3731361 pl 3731326 33699110 pl 375144 pl 3751 33641931WWWW 376900 3769400 33661170 373144 373144 33699110 pl 375144 pl 3751 336419WWWW 376900 376900 336611704 373449 373144 33699110 pl 375144 pl 3751 336419WWWWW 376900 3769000 336611704 373449 373140 33699110 pl 375144 pl 3751 336419WWWW 376900 3769000 336611704 373449 373140 33699110 pl 375144 pl 3751 336510101 374310 pl 374310 pl 3366119 373140 373140 336991110 pl 3751140 33691110 pl 3751140 375140 33691110 pl 3751140 375140 33691110 pl 3751140 375140 375140 33691110 pl 3751140 375140 33691110 pl 375140 pl 375140 33691110 pl 375140 pl 375140 33691110 pl 375140 pl 3	20 pt
3364191W1 376920 376920 376920 336611516 3731357 3731357 3393137 339611W1 375020 4 375020 3769200 3769200 3769200 3769200 3769200 3769200 3769200 3769200 3769200 3769200 3769200 3769200 3769200 3769200 3769200 3769200 376921 3731321 3731321 3731321 3751332 386911	32000 pt
3664191W 3769200 3769200 3366115119 3731321 3731321 336911 p. 37511 37513 3364193 376942 376944 376944 376944 336611514 p. 3731381 pl. 373132 336911 pl. 373132 336911 pl. 375114 pl. 37511 pl. 375132 336911 pl. 373132 336911 pl. 375114 pl. 3751 33641 pl. 3751 pl. 373132 336911 pl. 373132 336911 pl. 373132 336911 pl. 3751	
3364193. 37694 37694 37694 3366115121 3731322 3731332 3369911 pt. 39443 pt. 39443 3364193101 3769414 3769414 3366115124 pt. 3731361 pt. 3731323 3369911 pt. 375146 pt. 37513341311 3769415 3769419 3769419 3769419 3769419 3769419 3769419 3366115124 pt. 3731361 pt. 3731328 3369911 pt. 375146 pt. 3751336419311 3769425 3769419 3769419 3366115124 pt. 3731319 3731328 3369911 pt. 375146 pt. 3751336419311 3769425 3769400 3769400 3769400 3769400 3769400 3769400 3769400 3769400 3769400 3769400 3769400 3769400 376900 3769000 386611701 3731441 3731441 336991101 pt. 3751146 pt. 3751336419WYW 3769000 3769000 336611704 3731449 3731440 336991101 pt. 3751146 pt. 375136419 WYWW 3769000 3769000 336611704 3731440 3369110 pt. 3751446 pt. 375136419 WYWW 3769000 3769000 336611704 3731440 3369110 pt. 3751440 3369110 pt. 3751445 pt. 375136419 WYWW 3769000 3769000 336611704 3731440 3369110 pt. 3751445 pt. 375136419 WYWW 3769000 3769000 336611704 3731400 3731400 33691110 pt. 3751436 pt. 375136110 3751400 3751400 3751400 3751400 3751400 3751400 33691110 pt. 375145 pt. 37513651110 375145 pt. 37513651111 373131 374310 pt. 376141 336611910 3731400 336611111 373110 375110 375110 375110 37513651111 373131 374310 pt. 376140 33661110 3731400 336611110 373140 336611110 37	
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336617110737311193731119 33661271043732704 3732704 32600027007 3730000 pt 3700000 pt 3700000 pt	19925 19900 pt
3366127111 3732708 3732708 336999W 37990 pt 3799	90 pt
336613	9000 pt
3366113100 3731200 3731200 3366127116 3732717 3732717 336999WYWY 3799002 pt 3799	900∠ pt