Nonupholstered Wood Household Furniture Manufacturing

1997

Issued October 1999

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1997 Economic Census

Manufacturing Industry Series



Helping You Make Informed Decisions

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



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-- Not applicable for this report.

Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

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

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

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

ALL-NEW INDUSTRY CLASSIFICATIONS

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

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

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

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

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

RELATIONSHIP TO SIC

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

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

GEOGRAPHIC AREA CODING

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

1997 ECONOMIC CENSUS

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

BASIS OF REPORTING

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

DOLLAR VALUES

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

All dollar values are shown in thousands of dollars.

AVAILABILITY OF ADDITIONAL DATA

Reports in Print and Electronic Media

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

Special Tabulations

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

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

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

HISTORICAL INFORMATION

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

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

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

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

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

SOURCES FOR MORE INFORMATION

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

ABBREVIATIONS AND SYMBOLS

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

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

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

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Manufacturing

SCOPE

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

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

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

GENERAL

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

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

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

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

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

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

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

GEOGRAPHIC AREAS COVERED

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

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

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

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

The state reports include data for places with 500 employees or more. Places are typically cities, towns, and villages. They may be incorporated municipalities, semiindependent municipalities, special economic urban areas (SEUAs), or other place equivalents.

The state reports also include data for consolidated cities with 500 employees or more. Consolidated cities are made up of separately incorporated municipalities.

COMPARABILITY OF THE 1992 AND 1997 CENSUSES

The adoption of the North American Industry Classification System (NAICS) has had a major impact on the comparability of data between the 1992 and 1997 censuses. Approximately half of the industries in the manufacturing sector of NAICS do not have comparable industries in the Standard Industrial Classification (SIC) system that was used in the past. If industries are not comparable between the two censuses, historic data are not shown. When applicable, Appendix G shows the product class and product comparability between the two systems.

While most of the change affecting the manufacturing sector was change within the sector, some industries left manufacturing and others came into manufacturing. Prominent among those leaving manufacturing are logging and portions of publishing. Prominent among the industries coming into the manufacturing sector are bakeries, candy stores where candy is made on the premises, custom tailors, makers of custom draperies, and tire retreading. Data for the industries coming into manufacturing as well as those leaving manufacturing are included in the manufacturing industry report series for 1997. However, the state and summary reports only include data for industries in the NAICS definition of manufacturing. Another change resulting from the conversion to NAICS is that data for central administrative offices (CAOs) associated with manufacturing are not included along side the manufacturing data. This change affects data in the state reports and the general summary.

DISCLOSURE

In accordance with Federal law governing census reports (Title 13 of the United States Code), no data are published that would disclose the operations of an individual establishment or company. However, the number of establishments classified in a specific industry or geography is not considered a disclosure, and may be released even when other information is withheld.

The disclosure analysis for the industry statistics files is based on the total value of shipments. When the total value of shipments cannot be shown without disclosing information for individual companies, the complete line is suppressed except for capital expenditures. However, the suppressed data are included in higher-level totals. A separate disclosure analysis is performed for capital expenditures that can be suppressed even though value of shipments data are published.

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

The Census Bureau conducts the Annual Survey of Manufactures (ASM) in each of the 4 years between the economic censuses. The ASM is a probability-based sample of approximately 58,000 establishments and collects many of the same industry statistics (including employment, payroll, value of shipments, etc.) as the economic census. However, there are selected statistics not included in the ASM. Among these are the number of companies and establishments, detailed product and materials data, and substate geographic data.

In addition to the ASM, the Census Bureau conducts a Current Industrial Reports (CIR) program. The CIR publishes detailed product statistics for selected manufacturing industries at the U.S. level annually and, in some cases, monthly and/or quarterly. For the 1997 Economic Census – Manufacturing, the annual CIR data are included in the Product Summary report.

The Census Bureau also conducts the monthly Manufacturers' Shipments, Inventories, and Orders (M3) program, which publishes detailed statistics for manufacturing industries at the U.S. level.

Table 1. Industry Statistics on NAICS Basis With Distribution Among 1987 SIC-Based Industries: 1997

NAICS			All	All emp	oloyees	Pr	oduction worke	ers				Total capital
or SIC code	Industry	Com- panies ¹	estab- lish- ments ²	Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)	Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	expendi- tures (\$1,000)
251100 Wood h	olstered wood hold furniture mfg household furniture ure stores (pt)	3 678 N	3 849 3 034 815	127 665 122 786 4 879	2 677 569 2 582 089 95 480	110 577 106 456 4 121	213 380 206 128 7 252	2 031 748 1 959 274 72 474	5 874 671 5 706 397 168 274	5 377 590 5 222 443 155 147	11 252 749 10 929 348 323 401	297 511 289 929 7 582

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

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

Table 2. Industry Statistics for Selected States: 1997

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

			All	All emp	oloyees	Pr	oduction work	ers				
Industry and geographic area	E1	Total	With 20 em- ploy- ees or more	Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)	Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
337122, NONUPHOLSTERED WOOD HOUSEHOLD FURNITURE MFG												
United States	1	3 849	743	127 665	2 677 569	110 577	213 380	2 031 748	5 874 671	5 377 590	11 252 749	297 511
Alabama	-	82	26	3 573	59 608	3 133	6 112	45 067	124 540	140 961	274 427	5 857
Arizona	1	87	14	2 835	50 725	2 499	5 011	42 700	100 803	99 530	198 021	6 659
Arkansas	-	32	10	2 610	46 227	2 278	3 631	35 209	73 690	107 365	180 914	3 313
California	2	511	133	13 716	250 728	11 897	21 303	183 761	499 037	549 379	1 057 302	25 492
Colorado	-	67	6	1 156	21 601	1 083	2 203	19 058	34 254	47 098	78 728	1 776
Connecticut	4	44	3	268	7 308	232	444	5 401	13 038	13 317	26 189	552
Florida	3	265	16	2 345	44 242	2 082	3 522	34 560	97 562	75 092	174 182	3 897
Georgia	1	97	17	1 892	34 977	1 656	3 080	26 348	89 760	106 614	196 087	3 598
Idaho	5	37	4	266	4 548	244	389	3 762	8 822	7 255	16 185	413
Illinois	3	127	23	1 853	40 963	1 487	2 673	29 016	82 026	108 681	190 139	3 075
Indiana	1	81	28	3 510	84 585	3 063	6 336	63 737	185 789	145 415	326 725	5 763
Iowa .	4	30	4	261	3 554	217	346	2 726	5 486	5 668	11 102	225
Kentucky .	-	42	8	921	18 885	792	1 661	14 874	38 697	33 193	70 532	1 445
Louisiana	5	25	2	150	2 229	135	217	1 709	3 966	3 625	7 590	261
Maryland .	2	54	5	462	11 840	372	688	8 250	18 785	12 721	31 350	1 176
Massachusetts	1	84	16	1 384	34 466	1 083	2 091	23 691	69 255	67 650	136 538	2 298
Michigan	1	101	23	2 184	54 273	1 770	3 355	38 664	118 345	113 378	231 346	5 369
Mississippi	3	41	13	2 728	41 725	2 181	4 281	29 015	131 078	143 223	274 028	6 658
Missouri	2	64	9	2 260	60 099	1 900	3 886	48 200	172 720	190 410	365 179	6 466
New Jersey	4	92	11	775	18 842	658	1 130	14 300	34 276	35 695	70 001	1 876
New Mexico	5	42	-	231	3 964	199	341	2 968	6 705	6 089	12 766	357
New York	1	245	39	6 406	161 333	5 210	9 582	106 892	397 014	269 865	659 909	43 075
North Carolina	-	237	102	31 997	687 307	28 283	56 178	567 238	1 547 045	1 160 653	2 725 312	51 487
North Dakota	1	6	1	233	4 820	219	440	4 216	8 874	8 247	17 554	615
Ohio	-	141	13	4 020	117 587	3 344	6 627	60 017	360 562	344 275	702 805	26 669
Oklahoma	3	27	5	234	4 366	202	360	3 405	8 102	5 654	13 738	344
Oregon	1	72	14	1 311	27 388	1 097	2 242	19 517	57 118	63 733	120 485	3 108
Pennsylvania	3	158	25	2 914	63 070	2 486	4 646	46 667	129 478	105 338	233 784	6 136
Rhode Island	2	11	2	127	2 642	107	229	1 809	4 406	3 107	7 518	242
South Carolina	-	35	8	2 049	35 514	1 898	3 216	30 280	82 626	81 680	167 075	3 199
Tennessee	1	98	33	5 159	100 078	4 484	8 471	79 164	182 879	190 842	374 534	7 236
Texas	3	172	13	1 741	30 817	1 473	2 444	22 093	64 322	43 168	107 134	2 313
Utah	4	48	4	566	11 500	496	948	8 787	23 053	26 742	48 510	907
Virginia	-	107	37	14 668	289 978	13 295	26 819	238 750	640 746	537 193	1 172 448	37 949
Washington	3	72	8	587	11 406	526	876	8 793	21 552	21 422	42 932	1 414
West Virginia	1	16	3	318	5 743	266	460	4 179	11 746	12 144	23 929	771
Wisconsin	-	109	25	5 106	125 184	4 126	9 292	74 456	254 379	342 385	583 070	8 836

* 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
337122, NONUPHOLSTERED WOOD HOUSEHOLD FURNITURE MFG		337122, NONUPHOLSTERED WOOD HOUSEHOLD FURNITURE MFG-Con.	
Companies ¹ number.	3 678	Value added \$1,000	5 874 671
All establishments	3 849 3 106 486 257	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	2 123 203 1 041 535 408 962 672 706
All employees number. Total compensation ² \$1,000. Annual payroll \$1,000. Total fringe benefits \$1,000.	127 665 3 257 948 2 677 569 580 379	Total inventories, end of year \$1,000 Finished goods inventories, end of year \$1,000 Work-in-process inventories, end of year \$1,000 Materials and supplies inventories, end of year \$1,000	2 149 734 1 027 458 422 551 699 725
Production workers, average for year	110 577 111 451	Gross book value of total assets at beginning of year\$1,000 Total capital expenditures (new and used)\$1,000 Capital expenditures for buildings and other structures	3 537 846 297 511
Production workers on May 12	110 572 109 769	(new and used)\$1,000	69 717
Production workers on November 12 number Production-worker hours	110 516 213 380	and used)\$1,000 Total retirements ² \$1,000	227 794 53 044
Production-worker wages	2 031 748	Gross book value of total assets at end of year\$1,000.	3 782 313
Total cost of materials \$1,000	5 377 590	Total depreciation during year ² \$1,000	263 347
Cost of materials, parts, containers, etc., consumed	4 634 910 529 214 27 653 139 007	Buildings and other structures rental payments ²	99 827 58 519 41 308
Cost of contract work	46 806 2 514 468	structures ³ \$1,000	18 957 79
Quantity of electricity purchased for heat and power	2 514 408 D	Cost of purchased services for the repair of machinery and equipment ³	70 971
Total value of shipments\$1,000	11 252 749	Response coverage ratio ⁴ percent.	70 971
Primary products value of shipments \$1,000	9 834 182		15 134
Secondary products value of shipments\$1,000 Total miscellaneous receipts\$1,000	666 223 752 344	Response coverage ratio ⁴ percent Cost of purchased legal services ³ \$1,000	79 8 987
Value of resales \$1,000	674 795	Response coverage ratio ⁴ percent.	79
Contract receipts\$1,000 Other miscellaneous receipts\$1,000	20 459 57 090	Cost of purchased accounting and bookkeeping services ³	7 871
	57 090	Cost of purchased advertising services ³	79 58 195
Primary products specialization ratio percent Value of primary products shipments made in all industries \$1,000	93 10 246 583	Response coverage ratio ⁴ percent Cost of purchased software and other data processing	79
Value of primary products shipments made in this industry \$1,000 Value of primary products shipments made in other	9 834 182		29 386 79
industries \$1,000	412 401	Cost of purchased refuse removal (including hazardous waste)	
Coverage ratio percent.	95	services ³ \$1,000 Response coverage ratio ⁴ percent	14 682 79

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control. ²These items are collected in the ASM and estimated for the remaining establishments; therefore, the levels of estimation are higher than for other items in the table. ³Based on ASM sample data. ⁴A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those ASM establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

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

Table 4. Industry Statistics by Employment Size: 1997

			All shments	All emp	oloyees	Pr	oduction work	ers				
Employment size class	E1	Total	With 20 em- ploy- ees or more	Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)	Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
337122, NONUPHOLSTERED WOOD HOUSEHOLD FURNITURE MFG												
All establishments	1	3 849	743	127 665	2 677 569	110 577	213 380	2 031 748	5 874 671	5 377 590	11 252 749	297 511
Establishments with 1 to 4 employees Establishments with 5 to 9	8	2 007	-	3 724	67 811	3 566	5 496	54 366	116 445	113 641	230 337	7 668
employees Establishments with 10 to 19	7	639	-	4 199	75 441	3 518	5 814	58 840	140 827	135 672	277 682	7 096
employees Establishments with 20 to 49	3	460	-	6 215	118 986	5 187	8 894	88 894	219 617	211 295	430 245	11 310
employees	2	321	321	10 004	196 384	8 362	15 480	147 109	380 389	350 289	725 083	20 702
Establishments with 50 to 99 employees	2	165	165	11 678	232 236	9 938	18 840	169 123	483 104	468 376	953 747	21 812
Establishments with 100 to 249 employees	1	129	129	20 429	412 991	17 505	34 084	313 373	871 921	905 700	1 800 990	58 614
Establishments with 250 to 499 employees	-	80	80	29 086	592 062	26 235	52 386	487 415	1 486 754	1 175 605	2 651 864	49 473
Establishments with 500 to 999 employees	-	36	36	23 785	504 804	21 017	41 447	402 854	1 002 527	896 911	1 894 081	43 325
Establishments with 1,000 to 2,499 employees	-	11	11	D	D	D	D	D	D	D	D	D
Establishments with 2,500 employees or more	-	1	1	D	D	D	D	D	D	D	D	D
Administrative records ²	9	2 050	_	6 746	106 325	6 044	9 019	85 212	187 154	183 113	370 522	11 149

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

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a 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 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]

[. or mouning													
NAICS industry or		All estab-	All emp	oloyees	Production workers			Value added			Total capital		
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)		
337122	Nonupholstered wood household furniture mfg .	3 849	127 665	2 677 569	110 577	213 380	2 031 748	5 874 671	5 377 590	11 252 749	297 511		
3371221	Wood living room, library, family room, and den furniture,												
3371224	nonupholstered	449	24 537	504 364	21 152	41 003	384 719	1 082 070	999 130	2 076 530	58 268		
	furniture, except kitchen cabinets	166	21 869	498 128	18 430	35 703	357 432	1 060 424	895 550	1 945 336	39 916		
3371227 337122A 337122E	Wood bedroom furniture Infants' and children's wood furniture. Wood outdoor furniture, unpainted wood furniture, and ready-to-	261 28	49 054 3 574	990 003 71 320	43 433 3 069	86 893 6 585	801 076 52 707	2 050 406 191 358	1 942 944 153 532	4 023 835 338 939	84 814 6 205		
	assemble wood furniture	79	10 460	280 333	8 536	16 520	173 191	896 706	821 336	1 712 525	75 151		

Table 6a. Products Statistics: 1997 and 1992

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

,			19	97			19	992	
NAICS		Number of		Product	shipments	Number of		Product	shipments
code	Product	companies with shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)	companies with shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)
337122	Nonupholstered wood household furniture	N	x	x	10 246 583	N	x	x	N
3371221	Wood living room, library, family room, and den furniture, nonupholstered	N	x	х	2 262 477	N	x	x	N
33712211	Wood living room, library, family room, and den tables (all types), except card								
3371221111	and telephone tables	N 154	x x	X P4 271.3	594 212	N 182	x x	X 93 751.9	N 493 672
33712212	Wood living room, library, family room, and den cabinets, desks, credenzas,		x	x			x	x	
3371221211	bookcases, bookshelves, and wall units Wood living room, library, family room, and den cabinets, including record, music, sewing, smoking, etc., except sewing machine, radio, phono, and	N	^	~	875 504	N	^	^	N
3371221221 3371221231	television cabinets	60 93	X X	X 9631.7	203 590 180 136	103 76	X X	X 9528.1	182 078 132 756
3371221241	bookshelves, except wall units Wood living room, library, family room, and den wall units (desk, bookcase,	85	х	Х	99 870	76	х	х	89 152
33712213	and storage type)	129	х	P1 231.9	391 908	146	x	91 154.9	280 741
3371221311	and den chairs, except dining room, Wood living room, library, family room, and den chairs and seating, except	N	х	Х	738 533	N	x	х	Ν
3371221321	dining room	60	x	P1 790.4	122 204	60	x	S	67 455
3371221391	and den rockers	32	х	P617.7	64 163	38	x	9784.5	70 338
3371221395	benches, stools, etc. Custom-made wood household furniture, except cabinets, nonupholstered	46 221	x x	x	63 005 489 161	57 N	x x	x x	51 284 N
3371221Y	Wood living room library family room								
3371221YWV	and den furniture, nsk Other nonupholstered wood living room furniture, nsk	N N	x x	x x	54 228 54 228	N N	x x	x x	N
3371224	Wood dining room and kitchen furniture, except kitchen cabinets	N	х	х	1 568 290	N	x	х	1 603 463
33712241	Wood dining room tables, 30 x 40 in. or greater	N	x	х	463 340	N	x	х	N
3371224111	Wood dining room tables, 30 x 40 in. or greater	157	x	91 323.4	463 340	148	x	۹1 621.0	379 651
33712242 3371224211	Wood dining room chairs	N 150	x x	X 94 869.9	545 377 545 377	N 167	x	X 968.8 q7	N 581 365
33712243	Wood dining room buffets, servers, china and corner cabinets, and other nonupholstered kitchen and dining room	N	~	~	400 007		v	v	N
3371224311 3371224321	seating	80	X X	X P470.3	466 337 197 402	N 70	X X	X 9359.6	142 901
3371224391	cabinets	92	х	P447.1	206 195	74	х	S	309 415
3371224395	room and kitchen seating Other nonupholstered wood dining room and kitchen furniture, including	24	х	х	20 050	24	x	х	19 770
3371224Y	junior dining furniture sets	21	х	Х	42 690	26	х	х	83 832
33712241 3371224YWV	Wood dining room and kitchen furniture, except kitchen cabinets, nsk. Wood dining room and kitchen furniture, except kitchen cabinets,	N	х	х	93 236	N	х	х	Ν
0074007	nsk	N	X X	X X	93 236	N	x x	X X	86 529 2 489 221
3371227 33712271	Wood bedroom furniture Wood bedroom furniture, including beds,	N	^	^	3 328 691	N	^	^	2 409 221
3371227111	headboards, bunk beds, cribs, cradles, etc	N	х	Х	955 290	N	x	х	Ν
3371227121	beds1,000 units	120	х	91 075.5	355 972	90	х	S	217 666
3371227131	beds, including padded1,000 units Wood bunk beds, excluding mattresses	122	х	P3 971.7	504 468	91	х	P2 461.9	299 161
3371227141	and detachable springs	33 16	X X	₽357.6 S	56 710 38 140	36 31	X X	₽529.5 S	50 604 97 351
33712272	Wood bedroom dressers, vanities, and dressing tables	N	x	х	680 518	N	x	х	N
3371227211	Wood bedroom dressers, vanities, and dressing tables	159	x	₽3 159.2	680 518	127	x	P2 272.0	487 217
33712273 3371227311	Wood bedroom chests of drawers	N 165	X X	X P3 250.4	597 148 597 148	N 132	X X	X 2 376.5	N 391 076

See footnotes at end of table.

MANUFACTURING-INDUSTRY SERIES

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

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

			19	97			19	992	
NAICS		Number of companies	L	Product	shipments	Number of companies		Product	shipments
product code	Product	with shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)	with shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)
337122	Nonupholstered wood household furniture—Con.								
3371227	Wood bedroom furniture-Con.								
33712274	Wood bedroom wardrobes, chifforobes, armoires, wardrobe-type cabinets, cedar								
3371227411	chests, and night tables and stands Wood bedroom wardrobes, chifforobes, armoires, and wardrobe-type	N	х	х	960 707	N	х	х	Ν
3371227421 3371227431	cabinets	108 14	X X	₽801.8 341.8	256 466 50 626	75 11	x	398.4 188.0	137 251 29 190
3371227491	stands	124	х	92 763.0	370 478	105	x	P2 174.2	250 180
	furniture, including commodes, bed rails, chairs, valet stands, etc	59	х	Х	283 137	61	х	х	286 925
3371227Y 3371227YWV	Wood bedroom furniture, nsk Wood bedroom furniture, nsk	N N	x x	X X	135 028 135 028	N N	x	x x	N 242 600
337122A	Infants' and children's wood furniture	N	х	х	313 892	N	x	х	316 182
337122A1 337122A111	Infants' and children's wood furniture Infants' and children's wood cribs,	N	х	х	310 748	N	х	х	Ν
337122A121	including springs sold as part of the crib	13	х	S	111 976	17	x	S	111 780
337122A131	(chairs, nursery seats, high chairs, etc.) Other infants' and children's wood	8	x	х	12 557	10	x	х	11 709
	bedroom furniture, including youth beds	23	x	х	152 490	32	x	х	123 864
337122A141	Other infants' and children's nonupholstered wood furniture	24	х	Х	33 725	17	х	Х	59 253
337122AY	Infants' and children's wood furniture, nsk	N	х	х	3 144	N	x	х	N
337122AYWV	Infants' and children's wood furniture, nsk	N	×	x	3 144	N	x	x	9 576
337122E	Wood outdoor furniture, unpainted wood furniture, and ready-to-assemble wood furniture	N	x	х	1 670 372	N	x	x	1 089 750
337122E1	Wood outdoor furniture, unpainted wood furniture, and ready-to-assemble wood								
337122E111	furniture	N	Х	Х	1 654 207	N	x	х	N
337122E121	outdoor furniture Unpainted wood furniture, assembled (furniture-in-the-white), including bookcases, chairs, tables, desks,	38	х	Х	59 625	44	X	х	57 053
337122E131	vanities, etc. Ready-to-assemble wood household seating, unpainted or finished, sold in	19	х	х	77 253	30	х	х	74 786
337122E141	kits	8	х	S	43 969	6	x	^q 769.4	22 313
337122E151	kits Ready-to-assemble wood bedroom	11	х	х	141 548	11	x	Х	124 490
	furniture, unpainted or finished, sold in kits	12	х	Х	82 836	19	x	х	64 806
337122E161	Ready-to-assemble wood home entertainment centers, unpainted or finished, sold in kits	18	x	S	469 380	17	x	92 161.0	106 487
337122E171	Ready-to-assemble wood shelving, unpainted or finished, sold in kits	9	x	x	57 024	N	x	×2 101.0	100 407 N
337122E181	Ready-to-assemble wood home-office computer furniture, unpainted or								
337122E191	finished, sold in kits	14	Х	х	578 672	N	X	х	Ν
007/0051/	kits	19	х	Х	143 900	N	x	х	Ν
337122EY	Wood outdoor furniture, unpainted wood furniture, and ready-to-assemble wood furniture, nsk	N	x	х	16 165	N	x	х	N
337122EYWV	Wood outdoor furniture, unpainted wood furniture, and ready-to-assemble wood furniture, nsk.	N	x	x	16 165	N	x	X	35 356
337122W	Nonupholstered wood household furniture,					N	x	×	
337122WY	nsk, total	N	Х	х	1 102 861				N
337122WYWW	nsk, total Nonupholstered wood household furniture manufacturing, nsk, for nonadministrative-record	N	х	Х	1 102 861	N	X	х	Ν
337122WYWY	establishments Nonupholstered wood household furniture manufacturing, nsk, for	N	х	х	746 903	N	x	х	Ν
	administrative-record establishments	N	Х	Х	355 958	N	Х	Х	N

See footnotes at end of table.

MANUFACTURING-INDUSTRY SERIES

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

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

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

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

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

NAICS product class	Product class and geographic area	Value of product shipments (\$1,000)				
code		1997	1992			
3371221	WOOD LIVING ROOM, LIBRARY, FAMILY ROOM, AND DEN FURNITURE, NONUPHOLSTERED					
	United States	2 262 477	Ν			
	Alabama Arizona California Colorado Connecticut	34 025 48 643 282 077 13 335 5 065	N N N N N			
	Florida Georgia Idaho Illinois Indiana	12 297 36 351 3 009 18 774 94 845	N N N N N N			
	Kansas Kentucky Maine. Maryland Massachusetts	2 816 45 779 9 190 5 342 21 962	N N N N			
	Michigan Minnesota Mississippi Missouri New Hampshire	35 071 3 322 122 544 11 462 17 733	N N N N N N			
	New Jersey. New Mexico New York North Carolina Oklahoma	13 941 2 560 71 132 527 461 4 137	N N N N N			
	Oregon . Pennsylvania . South Carolina . Tennessee . Texas.	8 992 56 540 4 856 89 667 32 591	N N N N N			
	Vermont Virginia Washington Wisconsin	23 425 227 794 5 262 117 514	N N N N			
3371224	WOOD DINING ROOM AND KITCHEN FURNITURE, EXCEPT KITCHEN CABINETS					
	United States	1 568 290	1 603 463			
	Alabama Arizona Arkansas California Colorado	34 355 2 252 9 568 162 073 6 894	73 516 N 11 316 118 293 N			
	Florida Georgia Illinois Indiana Kansas	3 152 51 888 85 755 35 274 7 428	N 50 639 57 318 72 347 N			
	Kentucky Maine Massachusetts Michigan Missouri.	3 332 4 080 55 943 28 279 3 135	N 42 254 25 131 N			
	New Jersey New York . North Carolina . Ohio . Pennsylvania .	9 112 69 395 614 297 26 113 45 942	N 50 889 574 613 14 359 53 204			
	Tennessee . Texas. Vermont Virginia Washington	18 050 2 342 24 922 145 334 4 546	29 122 11 258 N 227 433 N			

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		duct shipments ,000)
code		1997	1992
3371227	WOOD BEDROOM FURNITURE		
	United States	3 328 691	2 489 221
	Alabama Arizona Arkansas California Connecticut	133 305 114 583 42 256 292 441 3 423	102 287 54 596 23 729 217 184 8 867
	Florida Illinois Indiana Kentucky. Maine	81 830 4 523 100 842 8 590 11 612	82 270 7 371 61 078 17 757 N
	Massachusetts Michigan Mississippi Missouri New Jersey.	14 797 29 550 73 930 15 212 2 567	11 893 27 994 60 140 13 081 8 784
	New York North Carolina Ohio Oklahoma Oregon	49 403 1 135 913 6 339 3 472 17 969	47 805 782 908 15 598 N 10 496
	Pennsylvania South Carolina Tennessee Texas	49 012 128 082 196 462 9 737 60 833	57 574 95 218 188 540 10 913 36 037
	Virginia Washington Wisconsin	451 604 17 071 149 288	364 184 8 708 N
337122A	INFANTS' AND CHILDREN'S WOOD FURNITURE		
	United States	313 892	316 182
	California. Pennsylvania Virginia Wisconsin	4 427 3 893 29 756 60 693	5 159 3 792 N 88 146
337122E	WOOD OUTDOOR FURNITURE, UNPAINTED WOOD FURNITURE, AND READY-TO- ASSEMBLE WOOD FURNITURE		
	United States	1 670 372	1 089 750
	Alabama California Maine Massachusetts North Carolina	8 039 62 802 9 349 4 603 5 193	4 696 34 133 4 830 6 923 7 231
	Ohio . Pennsylvania . Virginia .	546 509 16 650 169 423	N 15 583 96 019

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

Table 7. Materials Consumed by Kind: 1997 and 1992

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

NAICS		19	97	19	992
material code	Material consumed	Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
337122	NONUPHOLSTERED WOOD HOUSEHOLD FURNITURE MFG				
32100025 32100031 32191203 32121201 32121101	Hardwood lumber, rough and dressed Softwood lumber, rough and dressed Hardwood cut stock and dimension, excluding furniture frames Softwood plywood	X X X X X	696 381 179 397 287 869 38 876 133 728	X X X X X X	
32121105 32121903 32121907 32121909 33721500	Hardwood veneer . Particleboard (wood) . Medium density fiberboard (MDF) . Hardboard . Furniture frames, wood .	Х	143 456 341 775 136 458 37 568 239 502	X X X X X X	
32551003 32552001 32521105 32610017	Paints, varnishes, lacquers, stains, shellacs, japans, enamels, and allied products . Adhesives and sealants . Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. Plastics parts, components, sheets, and other shapes (excluding plastics	x x x	150 015 31 201 12 253	x x x	N N N
32721101	resins)	X X	44 735 61 568	X X	N N

See footnotes at end of table.

MANUFACTURING-INDUSTRY SERIES

Table 7. Materials Consumed by Kind: 1997 and 1992-Con.

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

NAICS		19	97	1992	
material code	Material consumed	Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
337122	NONUPHOLSTERED WOOD HOUSEHOLD FURNITURE MFG Con.				
32721503 31320027 33251001	Mirrors, framed and unframed Fabrics, all types . Furniture and builders' hardware, including cabinet hardware, casters, glides, handles, hinges, locks, etc.	X X X	58 076 80 043 333 550	X X X	N N
32221001 00970099 00971000	Paperboard containers, boxes, and corrugated paperboard	V	245 305 639 744 743 410	X X X	N N N

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

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

Appendix A. Explanation of Terms

BEGINNING- AND END-OF-YEAR INVENTORIES

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

Inventory Data by Stage of Fabrication

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

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

COST OF MATERIALS

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

Included in this item are:

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

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

Specific Materials Consumed

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

Duplication in Cost of Materials and Value of Shipment

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

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

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

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

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

COST OF PURCHASED SERVICES

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

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

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

Included in the cost of purchased software and other data processing services are all purchases by the establishment from other companies. Excluded are services provided by other establishments of the same company (such as by a separate data processing unit). Included in the cost of purchased refuse removal services are all costs of refuse removal services paid by the establishment, including costs for hazardous waste removal or treatment. Excluded are all costs included in rental payments or as capital expenditures.

Response Coverage Ratio

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

DEPRECIATION CHARGES FOR FIXED ASSETS

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

EMPLOYEES

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

Production Workers

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

All Other Employees

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

FRINGE BENEFITS

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

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

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

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

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

NUMBER OF ESTABLISHMENTS AND COMPANIES

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

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

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

PAYROLL

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

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

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

PRODUCT CODES AND CLASSES OF PRODUCTS

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

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

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

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

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

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

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

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

PRIMARY PRODUCT CLASS CODE

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

PRODUCTION-WORKER HOURS

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

QUANTITY OF ELECTRIC ENERGY CONSUMED FOR HEAT AND POWER

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

RENTAL PAYMENTS

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

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

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

RETIREMENTS OF DEPRECIABLE ASSETS

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

TOTAL CAPITAL EXPENDITURES (NEW AND USED)

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

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

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

VALUE ADDED

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

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

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

VALUE OF SHIPMENTS

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

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

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

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

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

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

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

Duplication in Cost of Materials and Value of Shipment

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

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

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

Specialization and Coverage Ratios

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

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

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

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

Appendix B. NAICS Codes, Titles, and Descriptions

337122 NONUPHOLSTERED WOOD HOUSEHOLD FURNITURE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing nonupholstered wood household-type furniture and freestanding cabinets (except television, radio, and sewing machine cabinets). The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

The data published with NAICS code 337122 include the following SIC industries:

2511 Wood household furniture 5712 Furniture stores (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 337122 include establishments primarily engaged in manufacturing wood box spring frames. The NAICS definitions will be fully implemented with the 2002 Economic Census.

Appendix C. Coverage and Methodology

MAIL/NONMAIL UNIVERSE

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

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

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

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

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

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

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

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

2. Establishments sent a report form.

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

a. ASM sample establishments.

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

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

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

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

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

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

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

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

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

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

INDUSTRY CLASSIFICATION OF ESTABLISHMENTS

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

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

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

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

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

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

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

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

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

ESTABLISHMENT BASIS OF REPORTING

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

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

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

DESCRIPTION OF THE ASM SURVEY SAMPLE

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

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

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

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

QUALIFICATIONS OF THE ASM DATA

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

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

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

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

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

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

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

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

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

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

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

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

DATA FROM THE CURRENT INDUSTRIAL REPORTS (CIR)

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

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

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

DUPLICATION IN COST OF MATERIALS AND VALUE OF SHIPMENTS

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

VALUE OF INDUSTRY SHIPMENTS COMPARED WITH VALUE OF PRODUCT SHIPMENTS

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

Appendix D. Geographic Notes

Not applicable for this report.

Appendix E. Metropolitan Areas

Not applicable for this report.

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

Not applicable for this report.

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

1997 published	1997 collected	1992 published	1997 published	1997 collected	1992 published	1997 published	1997 collected	1992 published
3371101 3371101111 3371101121 3371101YWV	2434111 2434113 2434100	2434111 2434113 2434100	3371227411 3371227421 3371227431 3371227491 3371227YWV	2511541 2511561 2511598	2511598	3371277 3371277111 3371277121 3371277131 3371277131	2599231 2599233 2599236	25992 2599231 2599233 2599236 2599247
3371104 3371104111 3371104121 3371104YWV	2434212 2434214 2434200	2434212 2434214 2434200	337122A 337122A111 337122A121 337122A121	25116 2511611 2511621 2511631	25116 2511611 2511621	3371277191 3371277YWV 337127A pt	2599248 2599200 25994	2599248 2599200 25994
3371107121 3371107YWV	2434316 2434318 2434300	2434316 2434318 2434300	337122E 337122E111	2511698 2511600 25117 2511725	2511698 2511600 25117 2511725	337127A pt 337127A211 337127A221 337127A221 337127A231 337127A241	2599451 3952411 3952412 3952413	3952413 pt 3952413 pt 3952413 pt
337110A 337110A111 337110A121 337110AYWV 337110E	2541211 2541212 2541200 pt	2541200 pt 2541200 pt 2541200 pt	337122E121 337122E131 337122E141 337122E151 337122E151	2511763 2511765 2511767 2511775	2511763 2511765 2511767	337127A291 337127AYWV pt 337127AYWV pt 337127AYWV pt	2599400 3952400 pt	2599497 2599400 3952400 pt 25310 pt
337110E111 337110E121	2541213 2541214 2541200 pt	2541200 pt 2541200 pt 2541200 pt	337122E171 337122E181 337122E191 337122E191	2511777 2511781 2511783 2511700	2511779 pt 2511779 pt 2511779 pt 2511770	337127W pt 337127W pt 337127W pt 337127W pt 337127WYWW pt	39520 pt	25990 pt 39520 pt 39990 pt
337110H100 337110W pt	5712141 24340 25410 pt	5712000 pt 24340	337122W pt 337122WYWW pt	2511000 5712000 pt	57120 pt 2511000 5712000 pt	337127WYWW pt 337127WYWW pt 337127WYWW pt 337127WYWW pt	2599000 pt 3952000 pt 3999000 pt 2531002 pt	2531000 pt 2599000 pt 3952000 pt 3999000 pt 2531002 pt
337110WYWW pt 337110WYWW pt 337110WYWW pt 337110WYWY pt	57120 pt 2434000 2541000 pt 5712000 pt 2434002	2434000 2541000 pt 5712000 pt 2434002	337122WYWY pt 3371241 3371241111 3371241111 3371241121	5712002 pt 25145 2514512 2514513	5712000 pt 25145 2514512 2514513	337127WYWY pt 337127WYWY pt 337127WYWY pt 337127WYWY pt 3371290 3371290111	3952002 pt 3999002 pt 25170	2599002 pt 3952002 pt 3999002 pt 25170 2517015
337110WYWY pt	2541002 pt 5712002 pt 25120 pt 57121 pt	5712000 pt 25120 pt	3371241131 3371241141 3371241141 3371241151 3371241151 3371241161 3371241161	2514517 2514521 2514527 2514597	2514517 2514521 2514527 2514597	3371290211 3371290221 3371290YWW 3371290YWY	2517018 2517021 2517000 2517002	2517018 2517021 2517000 2517002
3371211111 3371211211 3371211211 3371211311 3371211411 3371211511	2512012 2512041 2512045 2512054	2512012 2512041 2512045 2512054	3371241YWV 3371244 3371244111 3371244211	25146 2514612 2514614	25146 2514612 2514614	3372111 3372111111 3372111111 3372111121 3372111131 3372111131	2521211 2521213 2521214 2521217	2521000 pt 2521000 pt 2521000 pt
3371211521 3371211531 pt 3371211531 pt 3371211531 pt	2512035 2512098 5712121	2512035 2512098 5712000 pt 2512000 pt	3371244221 3371244231 3371244241 3371244YWV 3371244YWV	2514624 2514698 2514600	2514624 2514698	3372111151 3372111161 3372111161 3372111YWV	2521221 2521200 25213	2521000 pt 2521000 pt 25210 pt
3371214 3371214100	25155 2515500 25120 pt	25155 2515500	3371247111 3371247121 3371247211 3371247211 3371247221 3371247231	2514733 2514737 2514775 2514782	2514733 2514737 2514775 2514782	3372114111 3372114121 3372114YWV 3372117 3372117	2521313 2521300 25214	2521000 pt 25210 pt
337121W pt 337121WYWW pt 337121WYWW pt	25150 pt 57120 pt 2512000 pt 2515000 pt	57120 pt 2512000 pt 2515000 pt	3371247241 3371247291 pt 3371247291 pt 3371247291 pt 3371247YWV	2514788 2514789 pt 2514789 pt 2514700	2514788 2514771 2514798	3372117211 3372117311 3372117311 3372117321 3372117331 3372117341	2521413 2521415 2521417 2521417	2521000 pt 2521000 pt 2521000 pt 2521000 pt 2521000 pt 2521000 pt
337121WYWW pt 337121WYWY pt 337121WYWY pt 337121WYWY pt	5712000 pt 2512002 2515002 pt 5712002 pt	5712000 pt 2512002 2515002 pt 5712000 pt	337124W 337124WYWW 337124WYWY 3371250	2514000 2514002 25190	2514002 25190	3372117351 3372117361 3372117YWV 337211A	2521427 2521429 2521400 25217	2521000 pt 2521000 pt 2521000 pt 25210 pt
3371221 pt 3371221111 3371221211 3371221221	2511241 2511219 2511251	57120 pt 2511241 2511219 2511251	3371250111 3371250211 3371250221 3371250311 pt 3371250311 pt 3371250321	2519033 2519035 2519015 pt	2519033 2519035 2519023 2519025	337211A111 337211A121 337211A121 337211A131 337211A141	2521711 2521713 2521715	2521000 pt 2521000 pt 2521000 pt
3371221231 3371221241 3371221311 3371221321 3371221321	2511233 2511235	2511281 2511233 2511235	3371250YWW	2519000 2519002 25311 pt 2531131	2519000 2519002 25311 pt 2531131	337211W 337211WYWW 337211WYWY 3372120 pt	2521002	2521002
	5712111 2511200 5712100 pt	5712000 pt 2511200 5712000 pt	3371271121 3371271211 3371271221 3371271221	2531136 2531137 2531192 2531100 pt	2531136 2531137 2531198 pt 2531100 pt	3372120 pt 3372120 pt 3372120100 pt	25417 pt 2541700 pt	25413 pt 2541111 pt
3371224211 3371224311 3371224321 3371224321	25113	2511331 2511351 2511371 2511391	3371274 pt 3371274 pt 3371274111 3371274121 3371274131 3371274141 3371274151	39999 pt 2531271 2531234 2531239 2531241	39999 pt 2531271 2531234 2531239 2531241	3372120100 pt 3372120100 pt 3372120100 pt 3372120100 pt 3372120100 pt 3372120100 pt 3372120100 pt 3372120100 pt	2541700 pt 2541700 pt 2541700 pt 2541700 pt 2541700 pt 2541700 pt	2541121 pt 2541131 pt 2541200 pt 2541332 2541333 2541334 2541338 pt 2541339 pt
3371227 3371227111 3371227121 3371227121 3371227131 3371227141	25115 2511511 2511513 2511515 2511517	25115 2511511 2511513 2511515 2511515 2511517	3371274161 3371274171 3371274175 3371274181 3371274181 3371274191 3371274195 3371274195	2531255 2531257 3999912 2531259 2531261 2531261 2531297	2531255 2531257 3999911 pt 2531259 2531261 2531297	3372120100 pt 3372120100 pt 3372120100 pt 3372120100 pt 3372120100 pt 3372120YWW pt 3372120YWW pt	2541700 pt 2541700 pt 2541700 pt 2541700 pt 2541000 pt	2541341 pt 2541361 pt 2541381 pt 2541397 pt 2541000 pt
	2511521 2511535		3371274YWV pt		2531200 pt 3999900 pt	3372120YWW pt	2541700 pt 2541600 pt	2541100 pt 2541300 pt

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1997 published	1997 collected	1992 published	1997 published	1997 collected	1992 published	1997 published	1997 collected	1992 published
3372120YWY	2541002 pt	2541002 pt 25221	3372154161 3372154171	2541629	2541361 pt 2541381 pt	337215W pt 337215WYWW pt	34990 pt 2426000 pt	2426000 pt
3372141111 3372141121	2522111 2522113	2522100 pt 2522100 pt	3372154181 3372154YWV			337215WYWW pt 337215WYWW pt 337215WYWW pt	2541000 pt 2542000 3499000 pt	2542000
3372141211 3372141221 3372141231	2522117	2522100 pt 2522100 pt 2522100 pt	3372157 3372157111 3372157121	25421 2542113 2542117	25421 2542113 2542117	337215WYWY pt 337215WYWY pt 337215WYWY pt	2426002 pt 2541002 pt 2542002	
	2522121		3372157131		2542117 2542119 2542100	337215WYWY pt 3379101	2542002 3499002 pt 25151	3499002 pt
3372144 3372144111	2522511	25225 2522500 pt	337215A 337215A111	25422	25422 2542233	3379101	25151 2515100 25152	2515100
3372144121 3372144YWV		2522500 pt 2522500 pt	337215A211 337215A221	2542237 2542241	2542237 2542241	3379104111 3379104121	2515211 2515215	2515211 2515215
3372147 3372147111 3372147211	25226 2522615 2522617	25226 2522600 pt 2522600 pt	337215A231 337215AYWV	2542251 2542200	2542251 2542200	3379104131 3379104141 3379104YWV	2515247 2515265 2515200	2515265
3372147311 3372147411	2522619 2522611	2522600 pt 2522600 pt	337215E 337215E111 337215E121	25423 2542341 2542343	25423 2542341 2542343	3379107 3379107111	25153 2515315	25153
3372147421 3372147431 3372147441	2522625 2522627	2522600 pt 2522600 pt 2522600 pt	337215E131 337215E141	2542345 2542347	2542345 2542347	3379107121 3379107131 3379107YWV	2515317 2515319	2515317 2515319
3372147451 3372147YWV		2522600 pt 2522600 pt	337215E151 337215EYWV	2542349 2542300	2542349 2542300	337910A 337910A	25156 25156 2515613	25156
337214A 337214A111 337214A211	2522711	25227 2522700 pt 2522700 pt	337215H pt		25424	337910A111 337910A121 337910AYWV		2515619
337214A221 337214A231	2522715 2522719	2522700 pt 2522700 pt	337215H pt 337215H111 pt 337215H111 pt	34998 pt 2542461 pt 2542461 pt	34998 pt 2542463 2542467 pt	337910W 337910WYWW	25150 pt 2515000 pt	2515000 pt
337214AYWV 337214W	25220	2522700 pt 25220	337215H211 pt	2542464 pt 2542464 pt	2542465	337910WYWY 3379201	2515002 pt 25913	25913
337214WYWW 337214WYWY		2522000 2522002	337215H321 337215H331	2542471 2542499	2542471 2542499	3379201111 3379201121 3379201131	2591311 2591313 2591315	2591311 2591313 2591315
3372151 3372151111 3372151121	2541413	25411 pt 2541111 pt 2541121 pt	337215H341 337215H351 337215HYWV pt	3499896 3499897 2542400	3499899 pt 3499899 pt 2542400	3379201YWV	2591300 25914	2591300
3372151131 3372151YWV	2541419	2541121 pt 2541131 pt 2541100 pt	337215HYWV pt	3499800 pt	3499800 pt	3379204111 3379204211 3379204311	2591452 2591458 2591471	2591458
3372154 3372154111 pt	25416 2541611 pt	25413 pt 2541335	337215K 337215K111 337215K121	2426611 2426613	24266 2426611 2426613	3379204311 3379204YWV 3379207	2591471 2591400 25915	2591400
3372154111 pt 3372154121 pt	2541611 pt	2541338 pt 2541336 2541338 pt	337215KYWV		2426600 24260 pt	3379207111	2591511 2591517	2591511 2591517
3372154131 pt 3372154131 pt	2541615 pt 2541615 pt	2541337 2541338 pt	337215W pt	·	24200 pt 25410 pt	3379207YWV 337920W	2591500 25910	25910
	2541621 2541623		337215W pt	25420	25420	337920WYWW 337920WYWY	2591000 2591002	

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