

Wood Kitchen Cabinet and Countertop Manufacturing: 2002

Issued December 2004

EC02-311-337110 (RV)

2002 Economic Census

Manufacturing

Industry Series



U S C E N S U S B U R E A U

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U.S. Department of Commerce

Donald L. Evans,

Secretary

Theodore W. Kassinger,

Deputy Secretary

Economics and Statistics Administration

Kathleen B. Cooper,

Under Secretary for
Economic Affairs

U.S. CENSUS BUREAU

Charles Louis Kincannon,

Director



**Economics
and Statistics
Administration**

Kathleen B. Cooper,
Under Secretary
for Economic Affairs



U.S. CENSUS BUREAU
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Chief Operating Officer

Vacant,
Principal Associate
Director for Programs

Frederick T. Knickerbocker,
Associate Director
for Economic Programs

Thomas L. Mesenbourg,
Assistant Director
for Economic Programs

William G. Bostic, Jr.,
Chief, Manufacturing
and Construction Division

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-- Not applicable for this report.

Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

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

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

- Policymaking agencies of the federal government use the data to monitor economic activity and to 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.

INDUSTRY CLASSIFICATIONS

Data from the 2002 Economic Census are published primarily according to the 2002 North American Industry Classification System (NAICS). NAICS was first adopted in the United States, Canada, and Mexico in 1997. The 2002 Economic Census covers 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 Food Services
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), largely covered by the census of governments conducted by the Census Bureau.)

The 20 NAICS sectors are subdivided into 100 subsectors (three-digit codes), 317 industry groups (four-digit codes), and, as implemented in the United States, 1,179 industries (six-digit codes).

RELATIONSHIP TO HISTORICAL INDUSTRY CLASSIFICATIONS

Prior to the 1997 Economic Census, data were published according to the Standard Industrial Classification (SIC) system. 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 1997 Economic Census *Bridge Between NAICS and SIC* demonstrates the relationships between NAICS and SIC industries. Where changes are significant, it may not be possible to construct time series that include data for points both before and after 1997.

Most industry classifications remained unchanged between 1997 and 2002, but NAICS 2002 includes substantial revisions within the construction and wholesale trade sectors, and a number of revisions for the retail trade and information sectors. These changes are noted in industry definitions and will be demonstrated in the *Bridge Between NAICS 2002 and NAICS 1997*.

For 2002, data for enterprise support establishments (those functioning primarily to support the activities of their company's operating establishments, such as a warehouse or a research and development laboratory) are included in the industry that reflects their activities (such as warehousing). For 1997, such establishments were termed auxiliaries and were excluded from industry totals.

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. (For selected industries, only payroll, employment, and classification are collected for individual establishments, while other data are collected on a consolidated basis.)

GEOGRAPHIC AREA CODING

Accurate and complete information on the physical location of each establishment is required to tabulate the census data for states, metropolitan and micropolitan statistical areas, counties, and corporate municipalities (places) including cities, towns, townships, villages, and boroughs. Respondents were required to report their physical location (street address, municipality, county, and state) if it differed from their mailing address. For establishments not surveyed by mail (and those single-establishment companies that did not provide acceptable information on physical location), location information from administrative sources is used as a basis for coding.

AVAILABILITY OF ADDITIONAL DATA

All results of the 2002 Economic Census are available on the Census Bureau Internet site (www.census.gov) and on digital versatile discs (DVD-ROMs) for sale by the Census Bureau. The American FactFinder system at the Internet site allows selective retrieval and downloading of the data. For more information, including a description of reports being issued, see the Internet site, write to the U.S. Census Bureau, Washington, DC 20233-6100, or call Customer Services at 301-763-4100.

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 service trades in 1933. Censuses of construction, manufacturing, and the other business 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 and 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 report forms.

The range of industries covered in the economic census expanded between 1967 and 2002. 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. New for 2002 is coverage of four industries classified in the agriculture, forestry, and fishing sector under the SIC system: landscape architectural services, landscaping services, veterinary services, and pet care services.

Printed statistical reports from the 1992 and earlier censuses provide historical figures for the study of long-term time series and are available in some large libraries. Reports for 1997 were published primarily on the Internet and copies of 1992 reports are also available there. CD-ROMs issued from the 1987, 1992, and 1997 Economic Censuses contain databases that include all or 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 the 2002 Economic Census and related surveys is published in the *Guide to the 2002 Economic Census* at www.census.gov/econ/census02/guide. More information on the methodology, procedures, and history of the census will be published in the *History of the 2002 Economic Census* at www.census.gov/econ/www/history.html.

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Manufacturing

SCOPE

The Manufacturing sector (sector 31-33) comprises establishments engaged in the mechanical, physical, or chemical transformation of materials, substances, or components into new products. The assembling of component parts of manufactured products is considered manufacturing, except in cases where the activity is appropriately classified in Sector 23, Construction.

Establishments in the manufacturing sector are often described as plants, factories, or mills and characteristically use power-driven machines and materials-handling equipment. However, establishments that transform materials or substances into new products by hand or in the worker's home and those engaged in selling to the general public products made on the same premises from which they are sold, such as bakeries, candy stores, and custom tailors, may also be included in this sector. Manufacturing establishments may process materials or may contract with other establishments to process their materials for them. Both types of establishments are included in manufacturing.

The materials, substances, or components transformed by manufacturing establishments are raw materials that are products of agriculture, forestry, fishing, mining, or quarrying, as well as products of other manufacturing establishments. The materials used may be purchased directly from producers, obtained through customary trade channels, or secured without recourse to the market by transferring the product from one establishment to another, under the same ownership. The new product of a manufacturing establishment may be finished in the sense that it is ready for utilization or consumption, or it may be semifinished to become an input for an establishment engaged in further manufacturing. For example, the product of the alumina refinery is the input used in the primary production of aluminum; primary aluminum is the input to an aluminum wire drawing plant; and aluminum wire is the input for a fabricated wire product manufacturing establishment.

The subsectors in the manufacturing sector generally reflect distinct production processes related to material inputs, production equipment, and employee skills. In the machinery area, where assembling is a key activity, parts and accessories for manufactured products are classified in the industry of the finished manufactured item when they are made for separate sale. For example, a replacement refrigerator door would be classified with refrigerators and an attachment for a piece of metal working machinery would be classified with metal working machinery. However, components, input from other manufacturing establishments, are classified based on the production function of the component manufacturer. For example, electronic components are classified in Subsector 334, Computer and Electronic Product Manufacturing; and stampings are classified in Subsector 332, Fabricated Metal Product Manufacturing.

Manufacturing establishments often perform one or more activities that are classified outside the manufacturing sector of NAICS. For instance, almost all manufacturing has some captive research and development or administrative operations, such as accounting, payroll, or management. These captive services are treated the same as captive manufacturing activities. When the services are provided by separate establishments, they are classified to the NAICS sector where such services are primary, not in manufacturing.

The boundaries of manufacturing and the other sectors of the classification system can be somewhat blurry. The establishments in the manufacturing sector are engaged in the transformation of materials into new products. Their output is a new product. However, the definition of what constitutes a new product can be somewhat subjective. As clarification, the following activities are

considered manufacturing in NAICS: milk bottling and pasteurizing; water bottling and processing; fresh fish packaging (oyster shucking, fish filleting); apparel jobbing (assigning of materials to contract factories or shops for fabrication or other contract operations); as well as contracting on materials owned by others; printing and related activities; ready-mixed concrete production; leather converting; grinding of lenses to prescription; wood preserving; electroplating, plating, metal heat treating, and polishing for the trade; lapidary work for the trade; fabricating signs and advertising displays; rebuilding or remanufacturing machinery (i.e., automotive parts); ship repair and renovation; machine shops; and tire retreading.

Exclusions. There are activities that are sometimes considered manufacturing, but for NAICS are classified in another sector. These activities include logging, classified in Sector 11, Agriculture, Forestry, Fishing and Hunting is considered a harvesting operation; the beneficiating of ores and other minerals, classified in Sector 21, Mining, is considered part of the activity of mining; the construction of structures and fabricating operations performed at the site of construction by contractors, is classified in Sector 23, Construction; establishments engaged in breaking of bulk and redistribution in smaller lots, including packaging, repackaging, or bottling products, such as liquors or chemicals; the customized assembly of computers; sorting of scrap; mixing paints to customer order; and cutting metals to customer order, classified in Sector 42, Wholesale Trade or Sector 44-45, Retail Trade, produce a modified version of the same product, not a new product; and publishing and the combined activity of publishing and printing, classified in Sector 51, Information, perform the transformation of information into a product where as the value of the product to the consumer lies in the information content, not in the format in which it is distributed (i.e., the book or software diskette).

The tabulations for this sector do not include central administrative offices, warehouses, or other establishments that serve manufacturing establishments within the same organization. Data for such establishments are classified according to the nature of the service they provide. For example, separate headquarters establishments are reported in NAICS Sector 55, Management of Companies and Enterprises.

The reports described below exclude establishments of firms with no paid employees. These “nonemployers,” typically self-employed individuals or partnerships operating businesses that they have not chosen to incorporate, are reported separately in Nonemployer Statistics. The contribution of nonemployers, relatively small for this sector, may be examined at www.census.gov/nonemployerimpact.

The reports described below cover all manufacturing establishments with one or more paid employees.

Definitions. Industry categories are defined in Appendix B, NAICS Codes, Titles, and Descriptions. Other terms are defined in Appendix A, Explanation of Terms.

REPORTS

The following reports provide statistics on this sector:

Industry Series. There are 473 reports, each covering a single NAICS industry (six-digit code). 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. The industry reports also include data for states with 100 employees or more in the industry. The data in industry reports are preliminary and subject to change in the following reports.

Geographic Area Series. There are 51 separate reports, one for each state and the District of Columbia. Each state report presents similar statistics at the “all manufacturing” level for each state and its metropolitan and micropolitan areas 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.

Subject Series:

x Manufacturing

2002 Economic Census

- **Industry-Product Analysis Summary.** This report presents value of shipments, value of product shipments, percentage of product shipments of the total value of shipments, and percentage of distribution of value of product shipments on the NAICS six-digit industry level and by the six- and seven-digit product code levels. It also includes miscellaneous receipts at the six- and seven-digit product code levels by NAICS six-digit industry levels.
- **General Summary.** This 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.
- **Product Summary.** This report summarizes the products data published in the industry reports. This report also includes a table with data for products that are primary to more than one industry, which are not in the industry reports.
- **Materials Summary.** This report summarizes the materials data published in the industry reports.
- **Concentration Ratio Summary.** This report publishes data on the percentage of value of shipments and value added accounted for by the 4-, 8-, 20-, and 50-largest companies for each manufacturing industry. Also shown in this report are Herfindahl-Herschmann indexes for each industry.
- **Location of Manufacturing Plants Summary.** This report contains 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.

ZIP Code Statistics. This report contains statistics on the number of establishments for the three- and six-digit NAICS industry by employment-size of the establishment by ZIP Code.

Other reports. Data for this sector are also included in reports with multisector coverage, including Nonemployer Statistics, Comparative Statistics, Bridge Between 2002 NAICS and 1997 NAICS, Business Expenses, and the Survey of Business Owners reports.

GEOGRAPHIC AREAS COVERED

The level of geographic detail varies by report. Maps are available at www.census.gov/econ2002maps. Notes specific to areas in the state are included in Appendix D, Geographic Notes.

1. The United States as a whole.
2. States and the District of Columbia.
3. Metropolitan and micropolitan statistical areas with 250 employees or more. A core based statistical areas (CBSA) contains a core area with a substantial population nucleus, together with adjacent communities having a high degree of social and economic integration with that core. CBSAs are differentiated into metropolitan and micropolitan statistical areas based on size criteria. Both metropolitan and micropolitan areas are defined in terms of entire counties, and are listed in Appendix E, Metropolitan and Micropolitan Statistical Areas.
 - a. Metropolitan Statistical Areas (metro areas). Metro areas have at least one urbanized area of 50,000 or more population, plus adjacent territory that has a high degree of social and economic integration with the core as measured by commuting ties.
 - b. Micropolitan Statistical Areas (micro areas). Micro areas have at least one urban cluster of at least 10,000 but less than 50,000 population, plus adjacent territory that has a high degree of social and economic integration with the core as measured by commuting ties.
 - c. Metropolitan Divisions (metro divisions). If specified criteria are met, a metro area containing a single core with a population of 2.5 million or more may be subdivided to form smaller groupings of counties referred to as Metropolitan Divisions.

-
- d. Combined Statistical Areas (combined areas). If specified criteria are met, adjacent metro and micro areas, in various combinations, may become the components of a new set of areas called Combined Statistical Areas. The areas that combine retain their own designations as metro or micro areas within the larger combined area.
4. Counties and county equivalents defined as of January 1, 2002, with 500 employees or more. Counties are the primary divisions of states, except in Louisiana where they are called parishes and in Alaska where they are called boroughs, census areas, and city and boroughs. Maryland, Missouri, Nevada, and Virginia have one place or more that is independent of any county organization and constitutes primary divisions of their states. These places are treated as counties and as places.
 5. Economic places with 500 employees or more.
 - a. Municipalities of 2,500 inhabitants or more defined as of January 1, 2002. These are areas of significant population incorporated as cities, boroughs, villages, or towns according to the 2000 Census of Population. For the economic census, boroughs and census areas in Alaska and boroughs in New York are not included in this category.
 - b. Consolidated cities defined as of January 1, 2002. Consolidated cities are consolidated governments that consist of separately incorporated municipalities.
 - c. Townships in Michigan, New Jersey, and Pennsylvania, and towns in New York, Wisconsin, and the six New England states with 10,000 inhabitants or more (according to the 2000 Census of Population).
 - d. Balance of county. Areas outside the entities listed above, including incorporated municipalities with populations of fewer than 2,500, town and townships not qualifying as noted above, and the remainders of counties outside places are categorized as "Balance of county."

DOLLAR VALUES

All dollar values presented are expressed in current dollars; i.e., 2002 data are expressed in 2002 dollars, and 1997 data, in 1997 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.

COMPARABILITY OF THE 1997 AND 2002 ECONOMIC CENSUSES

Both the 2002 Economic Census and the 1997 Economic Census present data based on the North American Industry Classification System (NAICS). While there were revisions to selected industries for 2002, this sector is not affected by those revisions.

For 2002, there have been several additional data tables added, which did not exist in 1997. These tables for 2002 include products primary to more than one industry, industry-product analysis, e-commerce value of shipments, and leased and nonleased detail employment statistics by subsectors.

RELIABILITY OF DATA

All data compiled for this sector are subject to nonsampling errors. Nonsampling errors can be attributed to many sources: inability to identify all cases in the actual universe; definition and classification difficulties; differences in the interpretation of questions; errors in recording or coding the data obtained; and other errors of collection, response, coverage, processing, and estimation for missing or misreported data. Selected data in tables titled "Detailed Statistics" are based on the Annual Survey of Manufactures and are subject to sampling errors as well as nonsampling errors.

No direct measurement of these effects has been obtained except for estimation for missing or misreported data, as by the percentages shown in the tables. Precautionary steps were taken in all phases of the collection, processing, and tabulation of the data in an effort to minimize the effects of nonsampling errors. More information on the reliability of the data is included in Appendix C, Methodology.

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 in a specific industry or geographic area is not considered a disclosure; therefore, this information may be released even though other information is withheld. Techniques employed to limit disclosure are discussed at www.census.gov/epcd/ec02/disclosure.htm.

The disclosure analysis for "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. Nonetheless, the suppressed data are included in higher-level totals. A separate disclosure analysis is performed for capital expenditures, which 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 55,000 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 the Current Industrial Reports (CIR) program. The CIR program publishes selected detailed product statistics for selected manufacturing industries at the U.S. level annually and, in some cases, monthly and/or quarterly. 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.

In addition, the County Business Patterns program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county, and Statistics of U.S. Businesses provides annual statistics classified by the employment size of the enterprise, further classified by industry for the United States, and by broader categories for states and metropolitan areas.

CONTACTS FOR DATA USERS

Questions about these data may be directed to the U.S. Census Bureau, Manufacturing & Construction Division, Information Services Center, 301-763-4673 or ask.census.gov.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used with these 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
S	Withheld because estimates did not meet publication standards
X	Not applicable
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
nsk	Not specified by kind
-	Represents zero (page image/print only)
(CC)	Consolidated city
(IC)	Independent city

Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year ¹	Com- panies ²	All estab- lish- ments ³	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)	
			Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)					
337110, Wood kitchen cabinet and countertop manufacturing	2002..	9 457	9 557	126 208	3 619 573	100 210	195 053	2 514 465	8 497 149	5 602 302	14 102 324	442 961
	2001..	N	N	115 803	3 169 476	91 669	180 805	2 189 787	7 329 290	5 038 276	12 329 237	333 068
	2000..	N	N	115 348	3 045 303	91 241	175 723	2 114 976	6 897 116	4 864 290	11 689 980	358 100
	1999..	N	N	106 635	2 774 165	84 781	170 686	1 924 415	6 211 651	4 470 428	10 664 732	368 339
	1998..	N	N	104 932	2 486 496	85 416	164 716	1 772 843	5 536 730	4 278 294	9 805 394	243 012
	1997..	7 872	7 960	99 266	2 320 124	79 704	151 337	1 643 229	5 155 365	3 874 217	9 029 834	248 242

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
337110, Wood kitchen cabinet and countertop manufacturing												
United States.....	2	9 557	1 071	126 208	3 619 573	100 210	195 053	2 514 465	8 497 149	5 602 302	14 102 324	'442 961
Alabama.....	1	242	20	3 858	102 245	3 089	5 725	69 243	236 771	165 443	405 497	'17 244
Alaska.....	3	26	-	105	2 881	79	151	1 906	6 507	5 882	12 379	'302
Arizona.....	1	163	27	2 591	75 762	1 980	3 889	49 126	201 148	147 059	347 046	'25 129
Arkansas.....	3	104	7	709	16 144	586	1 008	10 459	33 004	21 039	53 923	'1 530
California.....	4	1 159	142	14 032	414 170	10 519	20 369	273 818	891 178	505 614	1 391 556	'34 461
Colorado.....	2	169	21	1 611	46 902	1 197	2 335	29 952	90 712	55 507	145 770	'3 388
Connecticut.....	1	134	15	1 401	42 724	1 090	2 176	29 890	103 510	54 462	154 539	'11 605
Delaware.....	3	17	1	130	3 729	107	235	2 650	6 939	4 638	11 585	'532
Florida.....	3	719	60	5 573	154 651	4 240	8 116	100 333	303 177	210 370	517 287	'11 577
Georgia.....	2	357	39	3 689	100 559	2 970	5 350	68 884	257 550	206 399	464 279	'8 459
Hawaii.....	3	22	3	179	5 564	133	264	3 648	12 193	7 352	19 546	'698
Illinois.....	2	346	42	4 703	145 396	3 667	7 474	98 798	313 669	194 748	507 704	'9 931
Indiana.....	-	208	47	6 547	193 368	5 470	10 598	148 419	617 799	360 728	978 173	'25 547
Iowa.....	-	98	9	3 158	88 149	2 751	5 607	72 534	201 571	140 280	338 448	'8 865
Kansas.....	2	99	20	3 314	87 193	2 771	5 320	63 381	211 526	117 395	327 383	'10 385
Kentucky.....	3	106	12	1 408	35 001	1 120	2 153	25 200	58 523	54 835	113 989	'2 760
Maine.....	6	45	1	178	4 577	131	245	3 074	8 316	5 626	13 944	'257
Maryland.....	5	131	10	912	25 649	679	1 293	17 019	47 458	29 644	77 110	'1 754
Massachusetts.....	4	153	12	1 129	37 514	802	1 547	22 673	66 015	40 561	107 836	'2 790
Michigan.....	1	209	16	2 426	72 874	1 946	3 743	52 272	197 799	158 826	357 044	'6 151
Minnesota.....	1	327	33	4 255	124 996	3 355	6 037	86 539	301 079	161 252	463 777	'9 941
Mississippi.....	6	71	6	593	15 408	485	877	10 484	28 840	26 754	55 564	'936
Missouri.....	2	235	28	2 657	75 512	2 073	3 844	51 115	137 454	77 021	213 476	'10 569
Nebraska.....	-	54	10	673	19 504	554	1 101	13 551	54 752	32 614	86 220	'3 470
New Hampshire.....	1	43	5	400	13 975	281	513	8 172	25 859	11 481	37 442	'931
New Jersey.....	5	231	19	2 003	64 368	1 535	2 994	43 316	109 675	79 538	191 670	'5 315
New Mexico.....	3	59	4	362	8 349	280	441	5 469	16 206	9 350	25 678	'934
New York.....	3	456	36	3 402	99 469	2 520	4 732	63 560	208 490	124 683	331 904	'6 776
North Carolina.....	6	325	27	3 833	101 096	3 138	6 144	72 156	215 682	200 164	416 953	'17 417
North Dakota.....	1	35	4	273	7 275	185	333	4 126	25 890	7 900	33 814	'1 144
Ohio.....	-	335	27	8 160	249 564	6 807	14 714	188 045	884 020	624 513	1 520 039	'24 739
Oregon.....	1	204	26	2 506	71 699	1 926	3 902	48 958	179 585	117 011	296 720	'18 523
Pennsylvania.....	1	373	70	8 748	263 575	7 107	13 449	192 331	639 577	375 580	1 016 020	'24 092
Rhode Island.....	3	19	2	159	4 989	129	277	3 638	8 722	8 922	17 434	'215
South Carolina.....	4	151	7	855	22 208	692	1 282	15 569	39 080	28 082	69 790	'2 187
South Dakota.....	3	36	8	1 066	27 933	880	1 671	19 386	55 191	37 936	92 830	'4 627
Tennessee.....	2	222	19	2 043	52 375	1 675	3 203	37 259	102 259	79 223	181 152	'3 660
Texas.....	1	495	81	10 644	286 746	8 796	18 062	199 167	567 868	444 761	1 006 844	'58 150
Utah.....	3	170	29	2 342	63 591	1 779	3 316	40 952	112 441	70 183	183 312	'6 784
Vermont.....	4	22	1	115	3 703	86	176	2 439	7 549	4 167	11 712	'411
Virginia.....	1	259	20	2 895	84 983	2 372	4 674	61 725	276 401	214 267	490 318	'4 944
Washington.....	1	247	29	3 605	103 172	2 814	5 423	68 385	183 307	106 212	288 230	'6 676
Wisconsin.....	1	253	35	3 326	98 576	2 508	4 829	64 713	193 858	114 995	311 192	'18 370
Wyoming.....	2	21	1	120	2 551	98	181	1 857	6 884	3 097	10 088	'958

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 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.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
337110, Wood kitchen cabinet and countertop manufacturing	
Companies ¹	number.. 9 457
All establishments ²	number.. 9 557
Establishments with 1 to 19 employees	number.. 8 486
Establishments with 20 to 99 employees	number.. 895
Establishments with 100 employees or more	number.. 176
All employees ³	number.. 126 208
Total compensation	\$1,000.. 4 313 570
Annual payroll	\$1,000.. 3 619 573
Total fringe benefits	\$1,000.. 693 997
Production workers, average for year	number.. 100 210
Production workers on March 12	number.. 98 543
Production workers on May 12	number.. 99 830
Production workers on August 12	number.. 101 347
Production workers on November 12	number.. 100 950
Production worker hours .....	..1,000.. 195 053
Production worker wages	\$1,000.. 2 514 465
Total cost of materials	\$1,000.. 5 602 302
Materials, parts, containers, packaging, etc., used	\$1,000.. 5 131 320
Resales	\$1,000.. 292 114
Purchased fuels	\$1,000.. 32 929
Purchased electricity	\$1,000.. 89 382
Contract work	\$1,000.. 56 557
Quantity of electricity purchased for heat and power	1,000 kWh.. 1 398 113
Quantity of electricity generated less sold for heat and power	1,000 kWh.. 2 707
Total value of shipments	\$1,000.. 14 102 324
Primary products value of shipments	\$1,000.. 13 045 882
Secondary products value of shipments	\$1,000.. 591 933
Total miscellaneous receipts	\$1,000.. 464 509
Value of resales	\$1,000.. 361 669
Contract receipts	\$1,000.. 61 682
Other miscellaneous receipts	\$1,000.. 41 158
Primary products specialization ratio	percent.. 96
Value of primary products shipments made in all industries	\$1,000.. 13 394 286
Value of primary products shipments made in this industry	\$1,000.. 13 045 882
Value of primary products shipments made in other industries	\$1,000.. 348 404
Coverage ratio	percent.. 97
Value added	\$1,000.. 8 497 149
Total inventories, beginning of year	\$1,000.. 931 907
Finished goods inventories	\$1,000.. 217 296
Work-in-process inventories	\$1,000.. 253 888
Materials and supplies inventories	\$1,000.. 460 817
Total inventories, end of year	\$1,000.. 964 777
Finished goods inventories	\$1,000.. 211 889
Work-in-process inventories	\$1,000.. 256 422
Materials and supplies inventories	\$1,000.. 496 555
Gross value of depreciable assets (acquisition costs) at beginning of year	\$1,000.. '3 096 217
Total capital expenditures (new and used)	\$1,000.. '442 961
Buildings and other structures (new and used)	\$1,000.. '106 164
Machinery and equipment (new and used)	\$1,000.. '336 797
Automobiles, trucks, etc., for highway use	\$1,000.. '30 055
Computers and peripheral data processing equipment	\$1,000.. '32 184
All other expenditures for machinery and equipment	\$1,000.. '274 558
Total retirements	\$1,000.. '172 794
Gross value of depreciable assets at end of year	\$1,000.. '3 366 384
Depreciation charges during year	\$1,000.. '221 506
Total rental payments	\$1,000.. 233 480
Buildings and other structures	\$1,000.. 142 655
Machinery and equipment	\$1,000.. 90 825
Total other expenses ⁴	\$1,000.. 2 580 919
Response coverage ratio ⁵	percent.. 77
Repair and maintenance services of buildings and/or machinery ⁴	\$1,000.. 345 034
Communications services ⁴	\$1,000.. 143 500
Legal services ⁴	\$1,000.. 10 431
Accounting, auditing, and bookkeeping services ⁴	\$1,000.. 27 678
Advertising and promotional services ⁴	\$1,000.. 267 430
Expensed computer hardware and supplies and purchased computer services ⁴	\$1,000.. 224 920
Refuse removal (including hazardous waste) services ⁴	\$1,000.. 91 925
Management consulting and administrative services ⁴	\$1,000.. 14 653
Taxes and license fees ⁴	\$1,000.. 52 643
All other expenses ⁴	\$1,000.. 1 402 705

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.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Based on 2002 Annual Survey of Manufactures (ASM) sample data.

⁵A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class	E ¹	All establishments ²	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
337110, Wood kitchen cabinet and countertop manufacturing											
All establishments	2	9 557	126 208	3 619 573	100 210	195 053	2 514 465	8 497 149	5 602 302	14 102 324	'442 961
Establishments with—											
1 to 4 employees	9	5 726	11 183	309 146	8 800	16 085	204 593	537 438	359 617	898 028	'15 273
5 to 9 employees	4	1 504	10 225	285 246	7 808	14 614	193 708	561 108	373 276	936 607	'26 784
10 to 19 employees	2	1 256	17 077	461 047	12 990	23 207	311 521	869 064	566 956	1 433 245	'46 602
20 to 49 employees	2	706	20 862	592 726	15 830	30 011	390 368	1 157 695	691 790	1 849 153	'45 642
50 to 99 employees	2	189	12 920	396 112	9 885	19 743	252 625	856 317	533 476	1 396 023	'55 700
100 to 249 employees	2	110	16 723	490 325	13 190	26 794	329 962	1 157 886	734 137	1 886 620	'77 764
250 to 499 employees	1	46	16 348	451 384	13 800	27 828	340 390	1 467 974	1 118 805	2 575 203	'107 567
500 to 999 employees	—	12	7 641	223 583	6 671	12 913	181 638	819 119	451 659	1 269 274	'27 788
1,000 to 2,499 employees	—	7	j	D	D	D	D	D	D	D	D
2,500 employees or more	—	1	h	D	D	D	D	D	D	D	D
Administrative records ⁴	9	5 808	14 301	399 972	11 380	21 414	267 120	694 001	470 111	1 161 818	'18 496

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 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.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All establishments ¹	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				
337110	Wood kitchen cabinet and countertop manufacturing	9 557	126 208	3 619 573	100 210	195 053	2 514 465	8 497 149	5 602 302	14 102 324	'442 961
3371101	Wood stock line kitchen cabinets and related cabinetwork for permanent installation	273	31 012	897 270	25 990	54 729	671 957	2 993 467	2 108 934	5 111 798	'163 888
3371104	Other wood custom kitchen cabinets and related cabinetwork for permanent installation, excluding kitchen cabinets and related cabinetwork sold directly to the customer at retail	432	16 126	483 659	12 544	23 645	329 603	1 027 681	577 728	1 595 671	'49 364
3371107	Bathroom vanities and related cabinetwork for permanent installation, excluding wood custom bathroom vanities and related cabinetwork sold directly to the customer at retail	38	3 161	84 530	2 530	4 568	65 216	263 807	193 326	456 058	'23 534
337110B	Wood and plastics laminated wood kitchen cabinet tops	243	6 184	187 564	4 479	8 374	117 529	392 111	293 076	689 198	'26 044
337110F	Wood and plastics laminated wood bathroom vanity tops	21	831	22 636	662	1 242	15 415	37 317	72 948	113 986	'1 809
337110H	Wood custom kitchen cabinets, bathroom vanities, and related cabinetwork for permanent installation sold directly to the customer at retail	1 322	33 447	938 260	26 185	49 033	639 532	1 986 317	1 139 960	3 130 174	'121 067

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6a. Products Statistics: 2002 and 1997

[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. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
337110	Wood kitchen cabinet and countertop manufacturing	2002.. N 1997.. N	X X	X X	13 394 286 8 497 433
337110H	Wood custom kitchen cabinets, bathroom vanities, and related cabinetwork for permanent installation sold directly to the customer at retail	2002.. N 1997.. N	X X	X X	2 956 010 393 565
337110H1	Wood custom kitchen cabinets, bathroom vanities, and related cabinetwork for permanent installation sold directly to the customer at retail	2002.. N 1997.. N	X X	X X	2 956 010 393 565
337110H100	Wood custom kitchen cabinets, bathroom vanities, and related cabinetwork for permanent installation sold directly to the customer at retail	2002.. 1 484 1997.. 669	X X	X X	2 956 010 393 565
337110I	Wood stock line kitchen cabinets and related cabinetwork for permanent installation	2002.. N 1997.. N	X X	X X	4 496 335 3 186 858
337110I1	Wood stock line kitchen cabinets and related cabinetwork for permanent installation	2002.. N 1997.. N	X X	X X	4 409 699 3 054 164
337110I121	Plastics laminated wood stock line kitchen cabinets and related cabinetwork for permanent installation	2002.. 217 1997.. 92	X X	X X	482 672 352 709
337110I131	Other wood stock line kitchen cabinets and related cabinetwork for permanent installation	2002.. 1,000 cabinets 1997.. N	X X	929 707.4 N	3 927 027 N
337110IY	Wood stock line kitchen cabinets and related cabinetwork for permanent installation, nsk	2002.. N 1997.. N	X X	X X	86 636 132 694
337110IYVW	Wood stock line kitchen cabinets and related cabinetwork for permanent installation, nsk	2002.. N 1997.. N	X X	X X	86 636 132 694
337110J	Other wood custom kitchen cabinets and related cabinetwork for permanent installation, excluding kitchen cabinets and related cabinetwork sold directly to the customer at retail	2002.. N 1997.. N	X X	X X	1 422 946 1 822 292
337110J1	Other wood custom kitchen cabinets and related cabinetwork for permanent installation, excluding kitchen cabinets and related cabinetwork sold directly to the customer at retail	2002.. N 1997.. N	X X	X X	1 343 308 1 633 749
337110J121	Other plastics laminated wood custom kitchen cabinets and related cabinetwork for permanent installation, excluding kitchen cabinets and related cabinetwork sold directly to the customer at retail	2002.. 299 1997.. 384	X X	X X	351 413 247 160
337110J111	All other wood custom kitchen cabinets and related cabinetwork for permanent installation, excluding wood custom kitchen cabinets and related cabinetwork sold directly to the customer at retail	2002.. 335 1997.. 1 039	X X	X X	991 895 1 386 589
337110JY	Other wood custom kitchen cabinets and related cabinetwork for permanent installation, excluding kitchen cabinets and related cabinetwork sold directly to the customer at retail, nsk	2002.. N 1997.. N	X X	X X	79 638 188 543
337110JYVW	Other wood custom kitchen cabinets and related cabinetwork for permanent installation, excluding kitchen cabinets and related cabinetwork sold directly to the customer at retail, nsk	2002.. N 1997.. N	X X	X X	79 638 188 543
337110K	Bathroom vanities and related cabinetwork for permanent installation, excluding wood custom bathroom vanities and related cabinetwork sold directly to the customer at retail	2002.. N 1997.. N	X X	X X	955 220 884 669
337110K1	Bathroom vanities and related cabinetwork for permanent installation, excluding wood custom bathroom vanities and related cabinetwork sold directly to the customer at retail	2002.. N 1997.. N	X X	X X	835 772 797 242
337110K111	Wood stock line bathroom vanities and related cabinetwork for permanent installation	2002.. 56 1997.. 118	X X	S P6 883.2	726 160 545 375
337110K121	All other wood custom bathroom vanities and related cabinetwork for permanent installation, excluding wood custom bathroom vanities and related cabinetwork sold directly to the customer at retail	2002.. 147 1997.. 461	X X	X X	109 612 251 867
337110KY	Bathroom vanities and related cabinetwork for permanent installation, excluding wood custom bathroom vanities and related cabinetwork sold directly to the customer at retail, nsk	2002.. N 1997.. N	X X	X X	119 448 87 427
337110KYVW	Bathroom vanities and related cabinetwork for permanent installation, excluding wood custom bathroom vanities and related cabinetwork sold directly to the customer at retail, nsk	2002.. N 1997.. N	X X	X X	119 448 87 427
337110L	Wood and plastics laminated wood kitchen cabinet tops	2002.. N 1997.. N	X X	X X	694 628 N
337110L1	Wood and plastics laminated wood kitchen cabinet tops	2002.. N 1997.. N	X X	X X	609 592 N
337110L131	Wood and plastics laminated wood stock line kitchen cabinet tops	2002.. 171 1997.. N	X X	X X	310 533 N
337110L141	Wood and plastics laminated wood custom kitchen cabinet tops	2002.. 364 1997.. N	X X	X X	299 059 N

See footnotes at end of table.

Table 6a. Products Statistics: 2002 and 1997—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. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
337110	Wood kitchen cabinet and countertop manufacturing—Con.				
337110B	Wood and plastics laminated wood kitchen cabinet tops—Con.				
337110BY	Wood and plastics laminated wood kitchen cabinet tops, nsk	2002.. N	X	X	85 036
		1997.. N	X	X	N
337110BYWV	Wood and plastics laminated wood kitchen cabinet tops, nsk	2002.. N	X	X	85 036
		1997.. N	X	X	N
337110F	Wood and plastics laminated wood bathroom vanity tops	2002.. N	X	X	166 888
		1997.. N	X	X	N
337110F1	Wood and plastics laminated wood bathroom vanity tops	2002.. N	X	X	105 754
		1997.. N	X	X	N
337110F131	Wood and plastics laminated wood stock line bathroom vanity tops	2002.. 56	X	X	51 733
		1997.. N	X	X	N
337110F141	Wood and plastics laminated wood custom bathroom vanity tops	2002.. 91	X	X	54 021
		1997.. N	X	X	N
337110FY	Wood and plastics laminated wood bathroom vanity tops, nsk	2002.. N	X	X	61 134
		1997.. N	X	X	N
337110FYWV	Wood and plastics laminated wood bathroom vanity tops, nsk	2002.. N	X	X	61 134
		1997.. N	X	X	N
337110W	Wood kitchen cabinet and countertop manufacturing, nsk, total	2002.. N	X	X	2 702 259
		1997.. N	X	X	1 433 089
337110WY	Wood kitchen cabinet and countertop manufacturing, nsk, total	2002.. N	X	X	2 702 259
		1997.. N	X	X	1 433 089
337110WYWW	Wood kitchen cabinet and countertop manufacturing, nsk, for nonadministrative-record establishments	2002.. N	X	X	1 579 886
		1997.. N	X	X	808 686
337110WYWY	Wood kitchen cabinet and countertop manufacturing, nsk, for administrative-record establishments	2002.. N	X	X	1 122 373
		1997.. N	X	X	624 403

Note 1: For some establishments, data have been estimated from central unit values that 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.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6b. Product Class Shipments for Selected States: 2002 and 1997

[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 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)	
3371101	Wood stock line kitchen cabinets and related cabinetwork for permanent installation		
	United States	2002.. 4 496 335 1997.. 3 186 858	
	Alabama	2002.. 108 022 1997.. 112 658	
	Arizona	2002.. 197 010 1997.. 90 302	
	Arkansas	2002.. 10 489 1997.. 13 132	
	California	2002.. 233 574 1997.. 86 167	
	Colorado	2002.. 42 180 1997.. 20 141	
	Connecticut	2002.. 28 044 1997.. 23 831	
	Florida	2002.. 96 598 1997.. 43 958	
	Indiana	2002.. 563 647 1997.. 373 499	
	Kansas	2002.. 123 245 1997.. 80 797	
	Minnesota	2002.. 3 935 1997.. 147 580	
	New Jersey	2002.. 4 376 1997.. 13 141	
	New York	2002.. 29 238 1997.. 17 504	
	North Carolina	2002.. 125 445 1997.. 61 535	
	Oregon	2002.. 160 445 1997.. 53 794	
	Pennsylvania	2002.. 285 811 1997.. 247 484	
	Tennessee	2002.. 44 755 1997.. 50 939	
	Texas	2002.. 298 151 1997.. 334 966	
	Utah	2002.. 50 264 1997.. 45 509	
	Virginia	2002.. 272 058 1997.. 269 188	
	Washington	2002.. 13 973 1997.. 64 632	
	Wisconsin	2002.. 17 818 1997.. 21 148	
	3371104	Other wood custom kitchen cabinets and related cabinetwork for permanent installation, excluding kitchen cabinets and related cabinetwork sold directly to the customer at retail	
		United States	2002.. 1 422 946 1997.. 1 822 292
		Alabama	2002.. 16 128 1997.. 26 726
		Arizona	2002.. 14 867 1997.. 21 512
		California	2002.. 134 485 1997.. 162 439
		Colorado	2002.. 14 999 1997.. 14 911
		Connecticut	2002.. 19 880 1997.. 27 466
		Florida	2002.. 39 184 1997.. 54 091
		Georgia	2002.. 29 315 1997.. 47 104
		Illinois	2002.. 38 215 1997.. 57 543
Indiana		2002.. 90 006 1997.. 99 699	
Iowa		2002.. 98 638 1997.. 131 255	
Kansas		2002.. 29 285 1997.. 42 157	
Kentucky		2002.. 2 943 1997.. 24 540	
Maryland		2002.. 3 811 1997.. 8 982	
Massachusetts		2002.. 7 449 1997.. 22 519	
Michigan		2002.. 18 502 1997.. 17 021	
Minnesota		2002.. 74 082 1997.. 131 291	
Missouri		2002.. 36 894 1997.. 43 077	
Nebraska		2002.. 4 590 1997.. 8 140	
New Hampshire		2002.. 3 368 1997.. 3 164	
New Jersey		2002.. 23 552 1997.. 35 347	
New York		2002.. 22 275 1997.. 39 952	
North Carolina		2002.. 17 102 1997.. 36 747	
North Dakota		2002.. 2 569 1997.. 5 098	
Ohio		2002.. 105 231 1997.. 89 384	
Oregon		2002.. 13 357 1997.. 38 728	
Pennsylvania		2002.. 272 334	

See footnotes at end of table.

Table 6b. Product Class Shipments for Selected States: 2002 and 1997—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 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)	
3371104	Other wood custom kitchen cabinets and related cabinetwork for permanent installation, excluding kitchen cabinets and related cabinetwork sold directly to the customer at retail—Con.		
	United States—Con.		
	Tennessee	1997.. 224 719 2002.. 11 408	
	Texas	1997.. 31 017 2002.. 48 955	
	Utah	1997.. 95 332 2002.. 18 696	
	Virginia	1997.. 30 062 2002.. 54 874	
	Washington	1997.. 21 010 2002.. 46 038	
	Wisconsin	1997.. 64 018 2002.. 47 357 1997.. 72 942	
	3371107	Bathroom vanities and related cabinetwork for permanent installation, excluding wood custom bathroom vanities and related cabinetwork sold directly to the customer at retail	
		United States	2002.. 955 220 1997.. 884 669
		California	2002.. 171 463 1997.. 115 287
		Colorado	2002.. 2 118 1997.. 9 729
		Connecticut	2002.. 3 727 1997.. 5 337
		Florida	2002.. 14 982 1997.. 12 766
Illinois		2002.. 43 935 1997.. 45 145	
Minnesota		2002.. 6 417 1997.. 31 841	
Missouri		2002.. 14 737 1997.. 17 756	
New York		2002.. 6 727 1997.. 9 140	
North Carolina		2002.. 30 193 1997.. 40 191	
Oregon		2002.. 16 084 1997.. 10 915	
Pennsylvania		2002.. 121 254 1997.. 59 326	
Tennessee		2002.. 15 281 1997.. 11 455	
Texas		2002.. 104 183 1997.. 100 798	
Virginia		2002.. 36 170 1997.. 16 166	
Washington		2002.. 11 016 1997.. 16 463	
Wisconsin		2002.. 2 663 1997.. 14 702	
337110B		Wood and plastics laminated wood kitchen cabinet tops	
		United States	2002.. 694 628 1997.. N
		Alabama	2002.. 11 833 1997.. N
		Arizona	2002.. 10 593 1997.. N
	California	2002.. 46 539 1997.. N	
	Colorado	2002.. 14 567 1997.. N	
	Connecticut	2002.. 2 793 1997.. N	
	Florida	2002.. 31 600 1997.. N	
	Georgia	2002.. 31 052 1997.. N	
	Illinois	2002.. 29 111 1997.. N	
	Indiana	2002.. 85 066 1997.. N	
	Iowa	2002.. 27 808 1997.. N	
	Kansas	2002.. 9 544 1997.. N	
	Kentucky	2002.. 9 856 1997.. N	
	Maryland	2002.. 5 941 1997.. N	
	Massachusetts	2002.. 15 359 1997.. N	
	Michigan	2002.. 13 823 1997.. N	
	Minnesota	2002.. 6 695 1997.. N	
	Missouri	2002.. 19 355 1997.. N	
	Nebraska	2002.. 4 302 1997.. N	
	New Jersey	2002.. 23 486 1997.. N	
	New Mexico	2002.. 2 351 1997.. N	
	New York	2002.. 31 442 1997.. N	
	North Carolina	2002.. 4 378	

See footnotes at end of table.

Table 6b. **Product Class Shipments for Selected States: 2002 and 1997—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 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
337110B	Wood and plastics laminated wood kitchen cabinet tops—Con.	
	United States—Con.	
		1997.. N
	Ohio	2002.. 21 587
		1997.. N
	Oregon	2002.. 15 065
		1997.. N
	Pennsylvania	2002.. 37 578
		1997.. N
	South Carolina	2002.. 3 339
		1997.. N
	South Dakota	2002.. 3 686
		1997.. N
	Tennessee	2002.. 2 442
	1997.. N	
Texas	2002.. 38 137	
	1997.. N	
Utah	2002.. 5 146	
	1997.. N	
Virginia	2002.. 14 097	
	1997.. N	
Washington	2002.. 3 994	
	1997.. N	
Wisconsin	2002.. 42 114	
	1997.. N	
337110F	Wood and plastics laminated wood bathroom vanity tops	
	United States.....	2002.. 166 888
		1997.. N
	California	2002.. 13 388
		1997.. N
	Colorado	2002.. 3 393
		1997.. N
	Florida	2002.. 14 347
		1997.. N
	Illinois	2002.. 10 760
		1997.. N
	Indiana	2002.. 4 528
		1997.. N
	Massachusetts	2002.. 3 362
		1997.. N
	Minnesota	2002.. 2 943
		1997.. N
	Missouri	2002.. 3 151
		1997.. N
New Jersey	2002.. 10 759	
	1997.. N	
New York	2002.. 3 590	
	1997.. N	
Ohio	2002.. 2 875	
	1997.. N	
Pennsylvania.....	2002.. 4 056	
	1997.. N	
Texas	2002.. 5 468	
	1997.. N	
Wisconsin	2002.. 7 008	
	1997.. N	
337110H	Wood custom kitchen cabinets, bathroom vanities, and related cabinetwork for permanent installation sold directly to the customer at retail	
	United States.....	2002.. 2 956 010
		1997.. 393 565
	Alabama	2002.. 244 402
		1997.. 11 626
	Arizona	2002.. 38 847
		1997.. 18 341
	Arkansas	2002.. 21 262
		1997.. 7 780
	California	2002.. 300 124
		1997.. 33 395
	Colorado	2002.. 18 674
		1997.. 16 129
	Connecticut	2002.. 48 374
		1997.. 7 300
	Florida	2002.. 93 474
		1997.. 31 555
	Georgia	2002.. 53 478
		1997.. 23 941
	Hawaii.....	2002.. 7 531
		1997.. N
	Illinois	2002.. 81 231
		1997.. 11 142
	Indiana	2002.. 79 141
		1997.. 8 623
	Kansas	2002.. 124 141
		1997.. 3 354
Kentucky	2002.. 58 068	
	1997.. 11 136	
Maryland	2002.. 7 582	
	1997.. 2 841	
Massachusetts	2002.. 35 590	
	1997.. 3 281	
Michigan.....	2002.. 46 570	
	1997.. 6 669	
Minnesota	2002.. 290 570	
	1997.. 10 994	
Mississippi	2002.. 5 206	
	1997.. 4 986	
Missouri	2002.. 69 676	
	1997.. 13 003	

See footnotes at end of table.

Table 6b. Product Class Shipments for Selected States: 2002 and 1997—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 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
337110H	Wood custom kitchen cabinets, bathroom vanities, and related cabinetwork for permanent installation sold directly to the customer at retail—Con.	
	United States—Con.	
	Nebraska 2002..	16 805
	..... 1997..	2 248
	New Hampshire 2002..	16 318
	..... 1997..	N
	New Jersey 2002..	27 992
	..... 1997..	4 789
	New Mexico 2002..	8 384
	..... 1997..	2 294
	New York 2002..	72 440
	..... 1997..	20 189
	North Carolina 2002..	78 948
	..... 1997..	11 856
	North Dakota 2002..	6 362
	..... 1997..	N
	Ohio 2002..	46 240
	..... 1997..	10 618
	Oklahoma 2002..	6 981
	..... 1997..	3 831
	Oregon 2002..	56 991
	..... 1997..	14 631
	Pennsylvania 2002..	103 871
	..... 1997..	8 100
	South Carolina 2002..	9 921
	..... 1997..	7 296
	South Dakota 2002..	14 862
	..... 1997..	2 759
	Tennessee 2002..	29 345
	..... 1997..	10 394
	Texas 2002..	285 428
	..... 1997..	17 700
	Utah 2002..	62 386
	..... 1997..	2 785
	Vermont 2002..	2 713
	..... 1997..	N
	Virginia 2002..	35 828
	..... 1997..	7 277
	Washington 2002..	141 564
	..... 1997..	11 041
	Wisconsin 2002..	88 493
	..... 1997..	8 168
	Wyoming 2002..	2 033
	..... 1997..	N

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
337110	Wood kitchen cabinet and countertop manufacturing		
0090001	Total materials	X	5 131 320
	.....2002..	X	3 536 671
	.....1997..	X	223 324
32191203	Hardwood cut stock and dimension (excluding furniture frames)	X	308 585
	.....2002..	X	85 170
	.....1997..	X	N
32121104	Hardwood veneer	X	235 043
	.....2002..	X	N
	.....1997..	X	18 371
32121100	Hardwood plywood	X	N
	.....2002..	X	293 223
	.....1997..	X	N
32121200	Softwood plywood	X	30 385
	.....2002..	X	32 074
	.....1997..	X	90 109
32121902	Particleboard (reconstituted wood)	X	N
	.....2002..	X	110 321
	.....1997..	X	82 734
32121909	Hardboard	X	760 842
	.....2002..	X	386 383
	.....1997..	X	29 026
32121906	Medium density fiberboard (MDF)	X	23 635
	.....2002..	X	33 928
	.....1997..	X	38 075
32221001	Paperboard containers, boxes, and corrugated paperboard	X	113 125
	.....2002..	X	N
	.....1997..	X	147 565
32100025	Hardwood lumber, rough and dressed	X	N
	.....2002..	X	8 031
	.....1997..	X	N
32100031	Softwood lumber, rough and dressed	X	N
	.....2002..	X	N
	.....1997..	X	N
32552001	Adhesives and sealants	X	235 305
	.....2002..	X	204 408
	.....1997..	X	238 960
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	X	N
	.....2002..	X	1 035 199
	.....1997..	X	1 187 194
32613001	Plastics laminated sheets	X	1 443 393
	.....2002..	X	1 273 583
	.....1997..	X	
32619909	Plastics furniture parts and components	X	
	.....2002..	X	
	.....1997..	X	
33251001	Furniture and builders' hardware (including cabinet hardware, casters, glides, handles, hinges, locks, etc.)	X	
	.....2002..	X	
	.....1997..	X	
33721500	Wood furniture frames	X	
	.....2002..	X	
	.....1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	
	.....2002..	X	
	.....1997..	X	
00971000	Materials, ingredients, containers, and supplies, nsk	X	
	.....2002..	X	
	.....1997..	X	

Note 1: For some establishments, data have been estimated from central unit values that 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.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Appendix A.

Explanation of Terms

BEGINNING- AND END-OF-YEAR INVENTORIES

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

Inventory data by stage of fabrication

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

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

COST OF MATERIALS

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

Included in this item are:

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 that 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 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.

SELECTED PURCHASED SERVICES

Annual Survey of Manufactures (ASM) establishments were requested to provide information on the cost of selected purchased services for the repair and maintenance services of buildings and/or machinery; communication services; legal services; accounting, auditing, and bookkeeping services; advertising and promotional services; expensed computer hardware and supplies and purchased computer services; refuse removal services; management consulting and administrative services; taxes and license fees; and all other expenses not previously stated. Each of these items reflects the costs paid directly by the establishment and excludes salaries paid to employees of the establishment for these services. These expenses are normally considered as nonproduction related costs purchased from other companies.

Included in the cost of selected purchased services for the repair and maintenance services of buildings and/or 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. Excluded from this item are extensive repairs or reconstruction that was capitalized, which is considered capital expenditures; costs incurred directly by the establishment in using its own work force to perform repairs and maintenance work; and repairs and maintenance provided by the building or machinery owner as part of the rental contract.

Included in the cost of selected purchased services for communication is the actual expense incurred or payable during the year for any type of communication. Such types of communication include telephone, data transmission, telegraph, Internet, connectivity, FAX, telex, photo transmission, paging, cellular telephone, on-line access and related services, etc.

Included in the cost of selected purchased services for legal services are payments made to other companies for these services that were paid directly by the establishment. Excluded are the salaries paid to employees of the establishment for these services.

Included in the cost of selected accounting, auditing, and bookkeeping services are payments made to other companies for these services that were paid directly by the establishment. Excluded are the salaries paid to employees of this establishment for these services.

Included in the cost of selected advertising and promotional services are payments made to other companies for these services that were paid directly by the establishment. These include payments for printing, media coverage, and other services and materials. Excluded are the salaries paid to employees of this establishment for these services.

Included in the cost of selected expensed computer hardware and supplies and purchased computer services are actual expenses incurred or payable during the year for this item. Purchases for computer hardware and supplies, computer services (software, data transmission, processing services, Web design, etc.) are all included. Excluded are services provided by other establishments of the same company (such as a separate central data processing unit).

Included in the cost of selected purchased refuse removal services are payments made to other companies for these services that were paid directly by the establishment, including costs for hazardous waste removal or treatment. Excluded are all costs included in rental payments or as capital expenditures and the salaries paid to employees of the establishment for these services.

Included in the cost of selected purchased management consulting and administrative services are payments made to other companies for these services that were paid directly by the establishment. Excluded are the salaries paid to employees of this establishment for these services.

Included in the cost of selected purchased taxes and license fees are payments made to other companies for these services that were paid directly by the establishment, excluding income, sales, payroll, and excise taxes. Excluded are also the salaries paid to employees of this establishment for these services.

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 nonreporters).

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.

NUMBER OF 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 that included the 12th of the months specified on the report form. Included are employees on paid sick leave, paid holidays, and paid vacations; not included are proprietors and partners of unincorporated businesses.

These individuals comprise of all full-time and part-time employees who are on the payrolls of establishments who worked or received pay for any part of the pay period including the 12th of March, May, August, and November.

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

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

All Other Employees

The “other employees” 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.

TOTAL FRINGE BENEFITS

This item is the employer’s costs for social security tax, unemployment tax, workmen’s compensation insurance, state disability insurance pension plans, stock purchase plans, union-negotiated benefits, life insurance premiums, and insurance premiums on hospital and medical plans for employees.

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 company-operated cafeterias, in-plant medical services, free parking lots, discounts on employee purchases, and uniforms and work clothing for employees.

GROSS VALUE OF DEPRECIABLE ASSETS (ACQUISITION COSTS) 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 (BOY) and end of year (EOY). 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.

ESTABLISHMENT

An establishment is a single physical location where business is conducted or where services or industrial operations are performed. Data in this sector includes those establishments where manufacturing is performed. A separate report was required for each manufacturing establishment (plant) with one employee or more that were in operation at any time during the year.

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.

Company

A company or ("enterprise") is comprised of all the establishments that operate under the ownership or control of a single organization. A company may be a business, service, or membership organization; consist of one or several establishments; and operate at one or several locations. It includes all subsidiary organizations, all establishments that are majority-owned by the company or any subsidiary, and all the establishments that can be directed or managed by the company or any subsidiary.

A company may have one or many establishments. Examples include product and service sales offices (retail and wholesale), industrial production plants, processing or assembly operations, mines or well sites, and support operations (such as an administrative office, warehouse, customer service center, or regional headquarters). Each establishment should receive, complete, and return a separate census form.

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.

PAYROLL

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

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

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

PRODUCT CODES AND CLASSES OF PRODUCTS

NAICS United States industries are identified by a six-digit code. The longer code accommodates the large number of sectors and allows more flexibility in designing subsectors. Each product or service is assigned a ten-digit code. The product coding structure represents an extension by the Census Bureau of the six-digit industry classifications of the manufacturing and mining sectors. The classification system operates so that the industrial coverage is progressively narrower with the successive addition of digits.

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

In the manufacturing sector for 2002, 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). Product classes and products of the manufacturing industries have been assigned codes based on the industry from which they originate. There are 1,450 product classes (seven-digit codes), 5,674 census products, and an additional 3,746 ten-digit product 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.

PRODUCTION-WORKER HOURS

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

QUANTITY OF ELECTRICITY PURCHASED 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 company-owned 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.

CAPITAL EXPENDITURES FOR NEW AND USED PLANT AND EQUIPMENT

Represents the total new and used capital expenditures reported by establishments in operation and any known plants under construction.

These data include expenditures for:

1. Permanent additions and major alterations to manufacturing and mining establishments.
2. New and used machinery and equipment used for replacement and additions to plant capacity, if they are of the type for which depreciation, depletion, or (for mining establishments) Office of Minerals Exploration accounts are ordinarily maintained. In addition, for mining establishments, these data include expenditures made during the year for development and exploration of mineral properties. For manufacturing establishments, these data are broken down into three types.
 - a. Automobiles, trucks, etc. for highway use. These include vehicles acquired under a lease-purchase agreement and excludes vehicles leased or normally designed to transport materials, property, or equipment on mining, construction, petroleum development, and similar projects. These vehicles are of such size or weight as to be normally restricted by state laws or regulations from operating on public highways. It also excludes purchases of vehicles that are purchased by a company for highway use.
 - b. Computers and peripheral data processing equipment. This item include all purchases of computers and related equipment.
 - c. All other expenditures for machinery and equipment excluding automobiles and computer equipment.

Capital expenditures include work done by contract, as well as by the establishment's own workforce.

These data exclude expenditures for land and mineral rights and cost of maintenance and repairs charged as current operating expenses.

VALUE ADDED

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

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

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

VALUE OF SHIPMENTS

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

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

In addition to the value for NAICS defined products, aggregates of the following categories of miscellaneous receipts are reported as part of a total establishment’s value of product shipments: Reported contract work — receipts for work or services that a plant performed for others on their materials. Value of resales — sales of products brought and sold without further manufacture, processing, or assembly. 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: Primary products value of shipments. Secondary product value of shipments. 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 that 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 ratio

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 ratio have been developed to measure the relationship of primary product shipments to the data on shipments for the industry shown in Tables 1 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

337110 WOOD KITCHEN CABINET AND COUNTERTOP MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing wood or plastics laminated on wood kitchen cabinets, bathroom vanities, and countertops (except freestanding). The cabinets and counters may be made on a stock or custom basis.

Appendix C.

Methodology

SOURCES OF THE DATA

The manufacturing sector includes approximately 350,000 establishments. This number includes those industries in the North American Industry Classification System (NAICS) definition of manufacturing. The amount of information requested from manufacturing establishments was 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).

Establishments in the 2002 Economic Census are divided into those sent report forms and those not sent report forms. The coverage of and the method of obtaining census information from each are described below:

1. Establishments sent a report form:

- 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-10000) 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 473 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 certain cases, the quantity of the product shipped during the survey year. Space also was provided for the respondent to describe products not specifically identified on the form.

The report form also contained a materials-consumed inquiry, which varied from form to form depending on the industries being canvassed. The respondents were asked to review a list of materials generally used in their production processes. From this list, each establishment was requested to identify those materials consumed during the survey year, the cost of each, and, in certain cases, the quantity consumed. Once again, space was provided

for the respondent to describe significant materials not listed on the form.

A wide variety of special inquiries were 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 “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 “not specified by kind” (nsk) categories.

2. Establishments not sent a report form:

- a. 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 the Census Bureau’s ability to assign the correct six-digit NAICS industry classification to the establishment. For each six-digit NAICS 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 that 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 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 NAICS group classification codes available in the files. For 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.

- b. All nonemployers, i.e., all firms subject to federal income tax, with no paid employees, during 2002 are excluded as in previous censuses. Data for nonemployers are not included in this report, but are released in the annual *Nonemployer Statistics* series.

The report forms used to collect information for establishments in this sector are available at help.econ.census.gov/econhelp/resources/.

A more detailed examination of census methodology is presented in the *History of the Economic Census* at www.census.gov/econ/www/history.html.

INDUSTRY CLASSIFICATION OF ESTABLISHMENTS

The classifications for all establishments covered in the 2002 Economic Census — Manufacturing are classified in 1 of 473 industries in accordance with the industry definitions in the *North American Industry Classification System (NAICS), United States, 2002* manual. There were no changes between the 2002 edition and the 1997 edition affecting this sector. When applicable, Appendix F of this report shows the product class and product comparability between the two systems for data in this report.

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

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 2002, 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). Product classes and products of the manufacturing industries have been assigned codes based on the industry from which they originate. There are 1,450 product classes (seven-digit codes), 5,674 census products, and an additional 3,746 ten-digit product codes. The ten-digit products are considered the primary products of the industry with the same first six digits.

For the 2002 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 2002, 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 that 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 2002 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 2002, 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 2002 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 ASM sample is drawn for the second survey year after a census. The most recent sample was drawn for the 1999 survey year based on the 1997 Economic Census — Manufacturing. This sample will be in place through the 2003 ASM.

In 1997, there were approximately 370,000 individual manufacturing establishments. For sample efficiency and cost considerations, the establishments in the 1997 manufacturing population were partitioned into two components for developing estimates within the ASM. The details of each are described below:

1. 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 200,000 of the 370,000 establishments in the 1997 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 1999 survey, a new sample of approximately 58,000 individual establishments was selected from the mail stratum assembled from the 1997 census. Supplemental samples representing both 1998 and 1999 births (newly active establishments that were not included in the 1997 census) were also selected. Establishments selected for the sample are mailed an ASM survey questionnaire for each year through 2003.

The 1999-2003 ASM sample design is similar to the one used since 1984. Companies in the 1997 Economic Census — Manufacturing 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 1999-2003 sample, there are approximately 500 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. Across these 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 1997 Economic Census — Manufacturing.

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 1997 industry classification and its 1997 product class data. For each product class (1,755) and six-digit industry (473), 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 the Census Bureau's 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) that permits us to prevent small establishments from being selected in consecutive samples without introducing a bias into the survey estimates.

2. Nonmail stratum. The initial nonmail component of the survey was comprised of approximately 170,000 small, single-establishment companies that were tabulated as administrative records in the 1997 Economic Census — Manufacturing. 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.

RELIABILITY OF DATA

All data compiled in the economic census are subject to nonsampling errors. Nonsampling errors can be attributed to many sources during the development or execution of the census. The following are two ways that further explain this method: 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 1997 (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 1998-2002 ASM estimates, the 1997 Economic Census — Manufacturing values serve as the base year. For the 2003 ASM, the base will be updated to be the 2002 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 contained approximately 170,000 individual establishments in 1999, 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. ASM Data Qualifications. 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, complete-coverage 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.

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 2002 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.

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 in a specific industry or geographic area is not considered a disclosure; therefore, this information may be released even though other information is withheld. Techniques employed to limit disclosure are discussed at www.census.gov/epcd/ec02/disclosure.htm.

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. Nonetheless, the suppressed data are included in higher-level totals. A separate disclosure analysis is performed for capital expenditures, which can be suppressed even though value of shipments data are published.

Appendix D. Geographic Notes

Not applicable for this report.

Appendix E. Metropolitan Areas and Micropolitan Statistical Areas

Not applicable for this report.

2002 published	2002 collected	1997 published	2002 published	2002 collected	1997 published	2002 published	2002 collected	1997 published
337211A.....	337211A.....	337211A	3372155183 pt.....	337110F113.....	337110E111 pt	337215W pt.....	337122W pt.....	337122W pt
337211A115 pt.....	337211A115 pt.....	337211A111	3372155183 pt.....	3372154182 pt.....	3372154171 pt	337215W pt.....	337124W pt.....	337124W pt
337211A115 pt.....	337211A115 pt.....	337211A121 pt	3372155183 pt.....	3372154182 pt.....	3372154181 pt	337215W pt.....	337215W pt.....	337215W pt
337211A135 pt.....	337211A135 pt.....	337211A121 pt	3372155YVW pt.....	337110FYVW pt.....	337110EYVW pt	337215WYVW pt.....	321912WYVW pt.....	321912WYVW pt
337211A141.....	337211A141.....	337211A131	3372155YVW pt.....	3372154YVW pt.....	3372154YVW pt	337215WYVW pt.....	326199WYVW pt.....	326199WYVW pt
337211AYVW.....	337211AYVW.....	337211A141	3372157.....	3372157.....	3372157.....	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
337211W.....	337211W.....	337211W	337215711.....	337215711.....	337215711.....	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
337211WYVW.....	337211WYVW.....	337211WYVW	337215712.....	337215712.....	337215712.....	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
337211WYVY.....	337211WYVY.....	337211WYVY	337215713.....	337215713.....	337215713.....	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372120 pt.....	337110F pt.....	337110E pt	3372157YVW.....	3372157YVW.....	3372157YVW.....	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372120 pt.....	337110W pt.....	337110W pt	337215A.....	337215A.....	337215A.....	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372120 pt.....	3372120 pt.....	3372120 pt	337215A111.....	337215A111.....	337215A111.....	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372120111 pt.....	337110F123.....	337110E121 pt	337215A211.....	337215A211.....	337215A211.....	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372120111 pt.....	337110FYVW pt.....	337110EYVW pt	337215A221.....	337215A221.....	337215A221.....	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372120111 pt.....	337212011.....	3372120100 pt	337215A231.....	337215A231.....	337215A231.....	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372120YVW pt.....	337110WYVW pt.....	337110WYVW pt	337215A231.....	337215A231.....	337215A231.....	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372120YVW pt.....	3372120YVW pt.....	3372120YVW pt	337215AYVW.....	337215AYVW.....	337215AYVW.....	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372120YVY pt.....	3372120YVY pt.....	3372120YVY pt	337215E.....	337215E.....	337215E.....	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372141.....	3372141.....	3372141	337215E111.....	337215E111.....	337215E111.....	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372141115 pt.....	3372141115 pt.....	3372141111	337215E121.....	337215E121.....	337215E121.....	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372141115 pt.....	3372141115 pt.....	3372141121	337215E131.....	337215E131.....	337215E131.....	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372141211.....	3372141211.....	3372141211	337215E141.....	337215E141.....	337215E141.....	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372141231.....	3372141231.....	3372141231	337215E161.....	337215E161.....	337215E161 pt	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372141251 pt.....	3372141251 pt.....	3372141221	337215E171.....	337215E171.....	337215E151 pt	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372141251 pt.....	3372141251 pt.....	3372141241	337215EYVW.....	337215EYVW.....	337215EYVW.....	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372141YVW.....	3372141YVW.....	3372141YVW	337215G.....	337215G pt.....	337215H pt	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372144.....	3372144.....	3372144	337215G111.....	337215G111.....	337215H111.....	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372144111.....	3372144111.....	3372144111	337215G211.....	337215G211.....	337215H211.....	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372144121.....	3372144121.....	3372144121	337215G311.....	337215G311.....	337215H311.....	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372144YVW.....	3372144YVW.....	3372144YVW	337215G321.....	337215G321.....	337215H321.....	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372147.....	3372147.....	3372147	337215G333.....	337215G333.....	337215H331 pt	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372147111.....	3372147111.....	3372147111	337215GYVW.....	337215GYVW pt.....	337215HYVW pt	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372147121.....	3372147121.....	3372147121	337215J pt.....	3371227 pt.....	3371227 pt	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372147311.....	3372147311.....	3372147311	337215J1.....	337215J1.....	337215K.....	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372147311 pt.....	3372147311 pt.....	3372147311	337215J111.....	337215J111.....	337215K111.....	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372147422 pt.....	3372147422 pt.....	3372147411	337215J131 pt.....	3371227441.....	3371227491 pt	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372147422 pt.....	3372147422 pt.....	3372147411	337215J131 pt.....	337215J121 pt.....	337215K121.....	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372147431.....	3372147431.....	3372147431	337215J131 pt.....	337215J121 pt.....	337215K121.....	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372147441.....	3372147441.....	3372147441	337215JYVW pt.....	3371227YVW pt.....	3371227YVW pt	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372147451.....	3372147451.....	3372147451	337215JYVW pt.....	337215JYVW.....	337215KYVW pt	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372147YVW.....	3372147YVW.....	3372147YVW	337215L pt.....	3219125 pt.....	3219125 pt	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
337214A.....	337214A.....	337214A	337215L pt.....	3219127 pt.....	3219127 pt	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
337214A225 pt.....	337214A225 pt.....	337214A211 pt	337215L pt.....	3261997 pt.....	3261997 pt	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
337214A225 pt.....	337214A225 pt.....	337214A221	337215L pt.....	3325101 pt.....	3325101 pt	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
337214A231.....	337214A231.....	337214A231	337215L pt.....	3371248 pt.....	3371247 pt	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
337214A315 pt.....	337214A315 pt.....	337214A111	337215L pt.....	337215G pt.....	337215H pt	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
337214A315 pt.....	337214A315 pt.....	337214A211 pt	337215L121.....	337215G121.....	337215H121.....	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
337214AYVW.....	337214AYVW.....	337214AYVW	337215L131.....	3219125333.....	3219125333.....	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
337214W.....	337214W.....	337214W	337215L141.....	3219127134.....	3219127131 pt	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
337214WYVW.....	337214WYVW.....	337214WYVW	337215L151.....	3261997115.....	3261997111 pt	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
337214WYVY.....	337214WYVY.....	337214WYVY	337215L161 pt.....	3325101101.....	3325101101.....	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372151.....	3372151.....	3372151	337215L161 pt.....	3371248251.....	3371247291 pt	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372151111.....	3372151111.....	3372151111	337215L171 pt.....	337215G341.....	337215H341.....	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372151121.....	3372151121.....	3372151121	337215L171 pt.....	337215G351 pt.....	337215H351.....	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372151131.....	3372151131.....	3372151131	337215LYVW pt.....	337215G351 pt.....	337215HYVW pt	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372151YVW.....	3372151YVW.....	3372151YVW	337215LYVW pt.....	3261997YVW pt.....	3261997YVW pt	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372155 pt.....	337110F pt.....	337110E pt	337215LYVW pt.....	3325101YVW pt.....	3325101YVW pt	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372155 pt.....	3372154 pt.....	3372154 pt	337215LYVW pt.....	3371248YVW pt.....	3371247YVW pt	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372155111.....	3372154111.....	3372154111	337215LYVW pt.....	337215GYVW pt.....	337215HYVW pt	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372155121.....	3372154121.....	3372154121	337215W pt.....	321912W pt.....	321912W pt	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372155131.....	3372154131.....	3372154131	337215W pt.....	326199W pt.....	326199W pt	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372155141.....	3372154141.....	3372154141	337215W pt.....	332510W pt.....	332510W pt	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372155151.....	3372154151.....	3372154151	337215W pt.....	337110W pt.....	337110W pt	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372155164 pt.....	3372154164 pt.....	3372154161	337215W pt.....	337110W pt.....	337110W pt	337215WYVW pt.....	337215WYVW pt.....	337215WYVW pt
3372155164 pt.....	3372154164 pt.....	3372154171 pt						

