

# Major Household Appliances: 2006

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## Current Industrial Reports

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**SUMMARY OF FINDINGS.** For the 2006 calendar year, manufacturers' shipments of major household appliances decreased 3 percent, from \$20.2 billion in 2005 to \$19.7 billion in 2006. Value of shipments of household cooking equipment, including parts and accessories, decreased from \$4.9 billion in 2005 to \$4.5 billion in 2006. Shipments of household refrigerators and freezers, including parts and attachments, were virtually unchanged in 2006 at \$6.0 billion. Shipments of household laundry equipment and parts, and shipments for household appliances and parts, not elsewhere classified, showed little change from 2005.

For general CIR information, explanation of general terms and historical note, see the appendix.

Address inquiries concerning these data to Investment Goods Industries Branch, Manufacturing and Construction Division (MCD), Washington, DC 20233-6900, or call LaTanya Steele, 301-763-4799.

For mail or fax copies of this publication, please contact the Information Services Center, MCD, Washington, DC 20233-6900, or call 301-763-4673.

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

*Helping You Make Informed Decisions*

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

Table 1. Value of Shipments of Major Household Appliances by Product Class: 2001 to 2006  
[Millions of dollars]

Product class	Product description	2006	2005	2004	2003	2002	2001
3352211	Electric household ranges, ovens, and surface cooking units, equipment and parts.....	2,425.9	2,576.8	2,284.7	2,176.1	1,823.5	2,004.5
3352213	Gas household ranges, ovens, and surface cooking units, equipment and parts.....	1,251.4	1,391.9	1,119.8	1,017.9	929.4	902.0
3352215	Other household ranges, cooking equipment and outdoor cooking equipment including parts and accessories.....	829.1	964.5	913.6	966.7	1,050.8	1,027.0
3352221	Household refrigerators, including combination refrigerator-freezers.....	5,419.0	5,404.9	5,001.5	4,993.3	5,080.3	5,227.1
3352222	Food freezers, complete units, for freezing and/or storing frozen food (household type).....	(D)	(D)	(D)	(D)	(D)	(D)
3352223	Parts and attachments for household refrigerators and freezers.....	(D)	(D)	(D)	(D)	(D)	(D)
3352240	Household laundry machines and parts.....	5,217.2	5,236.3	5,129.6	4,769.5	4,446.5	4,162.0
3352281	Water heaters, electric.....	651.9	638.4	545.3	569.5	576.0	555.7
3352283	Water heaters, except electric.....	902.8	970.2	884.1	985.6	842.0	799.3
3352285	Household appliances, n.e.c., and parts.....	2,412.9	2,432.6	2,296.8	2,055.9	2,008.9	2,033.1

D Withheld to avoid disclosing data for individual companies. n.e.c. Not elsewhere classified.

Table 2. Quantity and Value of Shipments of Major Household Appliances: 2006 and 2005  
[Quantity in number of units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2006		2005	
			Quantity	Value	Quantity	Value
	Major household appliances.....	NA	(X)	19,675,357	(X)	20,195,095
3352211	Electric ranges, ovens, and surface cooking units, equipment, including parts and accessories.....	15	(X)	2,425,910	(X)	2,576,815
3352211318	Free-standing ranges (all house-hold all types, including apartment-house type.....	9	4,028,856	1,429,331	4,160,543	1,440,677
	Other than free-standing:					
	Built-in ranges:					
	Built-in ovens:					
3352211417	Single oven.....	7	290,855	240,348	377,205	293,907
3352211419	Two ovens.....	6	343,795	238,861	r/ 284,597	r/ 225,528
3352211421	Surface cooking tops.....	6	317,525	113,863	361,072	130,593
3352211525	Microwave ranges and ovens, including combination microwave/electric ranges and built-in ovens that utilize microwave and electric thermal energy in one or more of the oven cavities.....	6	903,391	243,467	(D) r/	268,254
3352211429	Other electric and electronic ranges and ovens not listed above.....	6	71,182	34,484	r/ 104,012	r/ 96,634
3352211290	Parts and accessories for household electric ranges and ovens, such as burners, rotisseries, oven racks and broiler pans, sold separately.....	13	(X)	125,556	(X)	121,222
3352213	Gas household ranges, ovens, and surface cooking units, equipment, including parts and accessories.....	15	(X)	1,251,440	(X)	1,391,890
3352213112	Standard type, free-standing and built-in installation, including apartment ranges.....	9	1,975,909	863,092	2,291,710	950,451
3352213119	Surface cooking tops (one or more burners).....	7	422,038	198,481	473,526	230,538
3352213121	Nonstandard types, including wall hung, slide-in or drop-in.....	6	(D)	(D)	(D)	(D)
3352213123	Other gas household ranges, ovens, hot plates, and surface cooking units not listed above.....	2	(D)	(D)	(D)	(D)
3352213190	Parts and accessories for gas household ranges and ovens, such as burners, rotisseries, oven racks and broiler pans, sold separately.....	11	(X)	106,592	(X)	99,389
3352215	Other household ranges and cooking equipment (except gas and electric) and outdoor cooking equipment, including parts and accessories.....	20	(X)	829,131	(X)	964,483
	Barbecuers, grills, stoves, braziers, etc., for outdoor cooking and other cooking:					
	Portable units:					
3352215111	Gas fuel or both gas and other fuel.....	14	3,288,796	559,637	4,607,650	681,599
3352215113	Solid fuel (charcoal, wood, coal, etc.).....	8	2,519,388	122,298	3,139,928	119,423
3352215117	All other outdoor and other cooking equipment.....	6	30,954	4,949	150,185	21,317
3352215190	Parts and accessories for outdoor and other cooking equipment, sold separately.....	12	(X)	142,247	(X)	142,144
3352221	Household refrigerators, including combination refrigerator-freezers.....	12	11,966,177	5,418,984	10,665,207	5,404,857

Table 2. Quantity and Value of Shipments of Major Household Appliances: 2006 and 2005  
[Quantity in number of units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2006		2005	
			Quantity	Value	Quantity	Value
	Compression type, fitted with separate external doors, including all combinations with two or more external doors:					
3352221113	17.4 cu. ft. and under (under 495 liters).....	4	(D)	(D)	(D)	(D)
3352221119	17.5 to 19.4 cu. ft. (495 liters but under 552 liters).....	4	3,238,895	894,562	3,090,541	1,111,671
3352221121	19.5 to 21.4 cu. ft. (552 liters but under 608 liters).....	6	567,183	465,724	(D)	(D)
3352221123	21.5 to 24.4 cu. ft. (608 liters but under 693 liters).....	6	(D)	(D)	2,050,568	1,285,286
3352221125	24.4 cu. ft. and over (693 liters and over).....	6	(D)	1,378,216	2,634,867	1,863,079
3352221126	All other household refrigerators.....	8	417,541	227,196	563,598	231,971
3352222	Food freezers, complete units, for freezing and/or storing frozen food (household type):					
3352222110	Upright and chest type freezers.....	5	(D)	(D)	(D)	(D)
3352223100	Parts and attachments for household refrigerators and freezers, excluding compressors and condensing units and ice making machines.....	8	(X)	(D)	(X)	(D)
3352240	Household laundry machines (household type defined as having dry linen capacity not exceeding 10 kg (22 lbs.)), including parts and accessories.....	7	(X)	5,217,223	(X)	5,236,295
3352240214	Washing machines, fully automatic (electric), (coin-operated and non-coin operated).....	7	9,993,990	3,238,599	10,296,996	3,245,650
	Dryers, mechanical (incorporating heat):					
3352240317	Gas (non coin-operated).....	5	1,399,938	422,859	1,509,030	432,533
3352240319	Electric (non coin-operated).....	5	(D)	(D)	5,614,983	1,373,512
3352240321	Coin-operated.....	3	112,807	54,184	133,067	64,024
3352240193	Parts, accessories, and attachments for household laundry equipment, sold separately.....	7	(X)	(D)	(X)	120,576
3352281	Water heaters, electric (for permanent installation).....	6	3,971,925	651,943	3,745,090	638,436
	Storage type:					
3352281111	34 gallons and under (under 132 liters).....	4	(D)	(D)	698,956	106,667
3352281113	35 to 44 gallons (132 liters but under 170 liters).....	4	1,236,038	189,486	1,219,534	191,432
3352281115	45 to 54 gallons (170 liters but under 208 liters).....	4	1,308,959	229,300	1,208,218	214,353
3352281117	55 gallons and over (208 liters and over).....	4	373,393	92,918	(D)	(D)
3352281119	Other types, including circulating and portable storage.....	2	(D)	(D)	(D)	(D)
3352283	Water heaters (except electric).....	9	3,682,957	902,813	r/ 3,949,817	970,194
3352283118	Direct fired water heaters, gas or oil.....	8	(D)	869,906	(D)	937,640
3352283115	Indirect water heaters, including storage, cast or coil type (less tank); tanks (with or without generator coils); generator coils with tank collar (sold without tank); and instantaneous.....	5	(D)	32,907	(D)	32,554

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Product code	Product description	No. of cos.	2006		2005	
			Quantity	Value	Quantity	Value
3352285	Other household type appliances and parts, n.e.c. ....	18	(X)	2,412,947	(X)	2,432,580
3352285115	Dishwashing machines.....	5	7,402,333	1,954,403	7,700,768	1,983,576
	Parts for other household appliances, n.e.c.:					
3352285193	For electric water heaters.....	5	(X)	21,551	(X)	23,081
3352285195	For non electric water heaters.....	4	(X)	20,228	(X)	19,156
3352285197	For dishwashing machines.....	6	(X)	(D)	(X)	(D)
3352285199	All other major household appliances and parts, n.e.c. ....	8	(X)	(D)	(X)	(D)

D Withheld to avoid disclosing data for individual companies.  
or more from previously published data.    X Not applicable.    n.e.c. Not elsewhere classified.    r/Revised by 5 percent

Table 3. Shipments, Exports, and Imports of Major Household Appliances: 2006  
[Quantity in number of units. Value in thousands of dollars]

Product code	Product description	Manufacturers' shipments		Exports of domestic merchandise 1/ 2/		Imports for consumption 1/ 3/	
		Quantity	Value	Quantity	Value	Quantity	Value
3352211318, 417, 419, 421	Electric ranges, ovens, surface cooking units; microwave oven combinations.....	4,981,031	2,022,403	445,593	253,150	13,348,329	722,202
3352211525	Microwave ovens.....	903,391	243,467	233,213	26,294	18,199,565	1,134,877
3352211290	Parts and accessories for electric ranges and ovens.....	(X)	125,556	(X)	137,785	(X)	213,442
3352213112, 119, 121, 123	Gas ranges, ovens, and surface cooking units.....	2,786,248	1,144,848	106,045	58,474	6,290,773	1,312,463
3352213190	Parts and accessories for gas ranges and ovens and other cooking equipment.....	(X)	106,592	(X)	20,957	(X)	176,364
	Other household ranges and cooking equipment, including barbecuers, grills, stoves, braziers, etc., (except gas and electric) for outdoor cooking and other cooking:						
3352215111	Gas fuel or both gas and other fuel.....	3,288,796	559,637	537,695	94,892	537,695	94,892
3352215113	Solid fuel (charcoal, wood, coal, etc.).....	2,519,388	122,298	482,833	33,992	6,553,937	66,845
3352215117	All other outdoor cooking and other cooking equipment.....	30,954	4,949	50,538	8,925	2,583,041	92,094
3352221113, 119, 121, 123, 125	Compression type refrigerators, fitted with separate external doors, including all combinations with two or more external doors.....	11,548,636	5,191,788	995,210	517,819	4,389,853	2,366,978
3352221126	All other household refrigerators.....	417,541	227,196	99,010	48,862	3,772,202	415,744
3352222110	Upright and chest type freezers.....	(D)	(D)	470,337	137,871	1,009,167	156,833
3352240214	Washing machines, fully automatic (electric), (coin-operated and noncoin-operated).....	9,993,990	3,238,599	1,227,546	330,697	2,018,192	958,825
3352240317, 319	Gas and electric dryers (noncoin-operated).....	(D)	(D)	572,628	121,882	1,517,949	295,560
3352240321	Dryers (coin-operated).....	112,807	54,184	23,045	8,274	7,276	1,908
3352285115	Other household type appliances, n.e.c.: Dishwashing machines, household.....	7,402,333	1,954,403	533,754	155,247	409,471	162,986
3352285197, 199	All other major household appliances and parts for other major household appliances (value only).....	(X)	416,765	(X)	5,842	(X)	96,444

D Withheld to avoid disclosing data for individual companies. n.e.c. Not elsewhere classified. X Not applicable.

1/For comparison of North American Industry Classification Systems-based codes with Schedule B export codes and HTSUSA import codes, see Table 4.

2/Source: Bureau of the Census report EM 545, U.S. Exports.

3/Source: Bureau of the Census report IM 145, U.S. Imports for Consumption.

Table 4. Comparison of Standard Industrial Classification-Based Product Codes with Schedule B Export Codes and HTUSA Import Codes: 2006

Product code	Product description	Export code 1/	Import code 2/
3352211318, 417, 419, 421	Electric ranges, ovens, and surface cooking units; microwave oven combinations.....	8516.60.4000	8516.60.4060 8516.60.4070 8516.60.4080
3352211525	Microwave ovens.....	8516.50.0000	8516.50.0030 8516.50.0060 8516.50.0090
3352211290	Parts and accessories for electric ranges and ovens.....	8516.90.1700 8516.90.2700 8516.90.9500	8516.90.3500 8516.90.4500 8516.90.5000 8516.90.5500 8516.90.6500 8516.90.7500 8516.90.8000
3352213112, 119, 121, 123	Gas ranges, ovens, and surface cooking units.....	7321.11.5000	7321.11.3000 7321.11.6000
3352213190	Parts and accessories for gas ranges and ovens and ovens and other cooking equipment.....	7321.90.6050	7321.90.1000 7321.90.2000 7321.90.4000 7321.90.5000 7321.90.6030
3352215111	Gas fuel or both gas and other fuel.....	7321.11.1000	7321.11.1000
3352215113	Solid fuel (charcoal, wood, coal, etc.).....	7321.13.0050	7321.13.0020 7321.13.0040
3352215117	All other outdoor cooking and other cooking equipment.....	7321.13.0070	7321.12.0000 7321.13.0060 7321.13.0080
3352221113 119, 121, 123, 125	Compression type refrigerators, fitted with separate external doors, including all combinations with two or more external doors.....	8418.10.0010 8418.10.0020 8418.10.0030 8418.10.0040 8418.10.0090	8418.10.0010 8418.10.0020 8418.10.0030 8418.10.0040 8418.10.0090
3352221126	All other household refrigerators.....	8418.21.0010 8418.21.0020 8418.21.0030 8418.21.0090	8418.21.0010 8418.21.0020 8418.21.0030 8418.21.0090
3352222110	Upright and chest type freezers.....	8418.30.0000 8418.40.0000	8418.30.0000 8418.40.0000

Table 4. Comparison of Standard Industrial Classification-Based Product Codes with Schedule B Export Codes and HTUSA Import Codes: 2006

Product code	Product description	Export code 1/	Import code 2/
3352240214	Washing machines, fully automatic, (electric), (coin operated and non-coin-operated).....	8450.11.0010 8450.11.0090 8450.12.0000 8450.19.0000	8450.11.0010 8450.11.0040 8450.11.0080 8450.12.0000 8450.19.0000
3352240317, 319	Dryers (non coin-operated) and other drying equipment.....	8451.21.0090	8451.21.0090
3352240321	Dryers (coin-operated).....	8451.21.0010	8451.21.0010
3352285115	Dishwashing machines, household.....	8422.11.0000	8422.11.0000
3352285197	Parts for dishwashing machines (value only).....	8422.90.0540 8509.90.3000	8422.90.0200 8422.90.0400 8422.90.0640
3352285199	All other major household appliances and parts for other major household appliances (value only).....	8509.30.0000	8509.30.0000

1/Source: 2006 edition, Harmonized System-Based Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States.

2/Source: Harmonized Tariff Schedule of the United States, Annotated (2006).



# Appendix.

## General CIR Survey Information, Explanation of General Terms and Historical Note

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### GENERAL

The CIR program has been providing monthly, quarterly, and annual measures of industrial activity for many years. Since 1904, with its cotton and fats and oils surveys, the CIR program has formed an essential part of an integrated statistical system involving the quinquennial economic census, manufacturing sector, and the annual survey of manufactures. The CIR surveys, however, provide current statistics at a more detailed product level than either of the other two statistical programs.

The primary objective of the CIR program is to produce timely, accurate data on production and shipments of selected products. The data are used to satisfy economic policy needs and for market analysis, forecasting, and decision making in the private sector. The product-level data generated by these surveys are used extensively by individual firms, trade associations, and market analysts in planning or recommending marketing and legislative strategies, particularly if their industry is significantly affected by foreign trade. Although production and shipments information are the two most common data items collected, the CIR program collects other measures also such as inventories, orders, and consumption. These surveys measure manufacturing activity in important commodity areas such as textiles and apparel, chemicals, primary metals, computer and electronic components, industrial equipment, aerospace equipment, and consumer goods.

The CIR program uses a unified data collection, processing, and publication system. The U.S. Census Bureau updates the survey panels for most reports annually and reconciles the estimates to the results of the broader-based annual survey of manufactures and the economic census, manufacturing sector. The manufacturing sector provides a complete list of all producers of the products covered by the CIR program and serves as the primary source for CIR sampling. Where a small number of producers exist, CIR surveys cover all known producers of a product. However, when the number of producers is too large, cutoff and random sampling techniques are used. Surveys are continually reviewed and modified to provide the most up-to-date information on products produced. The CIR program includes a group of mandatory and voluntary surveys. Typically the monthly and quarterly surveys are conducted on a voluntary basis. Those companies that choose not to respond to the voluntary surveys are required to submit a mandatory annual counterpart corresponding to the more frequent survey.

### NORTH AMERICAN INDUSTRY CLASSIFICATION SYSTEM (NAICS), 1997

The adoption of the North American Industry Classification System (NAICS) in the 1997 Economic Census has had a major impact on the comparability of current and historic data. Approximately half of the industries in the manufacturing sector of NAICS do not have comparable industries in the Standard Industrial Classification (SIC) system that was used in the past.

While most of the change affecting the manufacturing sector was change within the sector, some industries left manufacturing and others came into manufacturing. Prominent among those that left manufacturing are logging and portions of publishing. Prominent among the industries that came into the manufacturing sector are bakeries, candy stores where candy is made on the premises, custom tailors, makers of custom draperies, and tire retreading. The net effect of the classification changes are such that if the 1997 value of shipments data for all manufacturers were tabulated on an SIC basis, it would be approximately 3 percent higher.

Listed below are the NAICS sectors:

- 21 Mining
- 22 Utilities
- 23 Construction
- 31-33 Manufacturing
- 42 Wholesale Trade
- 44-45 Retail Trade
- 48-49 Transportation and Warehousing
- 51 Information
- 52 Finance and Insurance
- 53 Real Estate and Rental and Leasing
- 54 Professional, Scientific, and Technical Services
- 55 Management of Companies and Enterprises
- 56 Administrative and Support and Waste Management and Remediation Services
- 61 Educational Services
- 62 Health Care and Social Assistance
- 71 Arts, Entertainment, and Recreation
- 72 Accommodation and Foodservices
- 81 Other Services (except Public Administration)

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

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

## FUNDING

The Census Bureau funds most of the surveys. However, a number of surveys are paid for either fully or partially by other Federal Government agencies or private trade associations. A few surveys are mandated, but all are authorized by Title 13 of the United States Code.

## RELIABILITY OF DATA

Survey error may result from several sources including the inability to obtain information about all cases in the survey, response errors, definitional difficulties, differences in the interpretation of questions, mistakes in recording or coding the reported data, and other errors of collection, response, coverage, and estimation. These nonsampling errors also occur in complete censuses. Although no direct measurement of the biases due to these nonsampling errors has been obtained, precautionary steps were taken in all phases of the collection, processing, and tabulation of the data in an effort to minimize their influence.

A major source of bias in the published estimates is the imputing of data for nonrespondents, for late reporters, and for data that fail logic edits. Missing figures are imputed based on period-to-period movements shown by reporting firms. A figure is considered to be an impute if the value was not directly reported on the questionnaire, directly derived from other reported items, directly available from supplemental sources, or obtained from the respondent during the analytical review phase. Imputation generally is limited to a maximum of 10 percent for any one data cell. Figures with imputation rates greater than 10 percent are suppressed or footnoted. The imputation rate is not an explicit indicator of the potential error in published figures due to nonresponse, because the actual yearly movements for nonrespondents may or may not closely agree with the imputed movements. The range of difference between the actual and imputed figures is assumed to be small. The degree of uncertainty regarding the accuracy of the published data increases as the percentage of imputation increases. Figures with imputation rates above 10 percent should be used with caution.

## DATA REVISIONS

Statistics for previous years may be revised as the result of corrected figures from respondents, late reports for which imputations were originally made, or other corrections. Data that have been revised by more than 5 percent from previously published data are indicated by footnotes.

## DISCLOSURE

The Census Bureau collects the CIR data under the authority of Title 13, United States Code, which specifies that the information can only be used for statistical purposes and cannot be published or released in any manner that would identify a person, household, or establishment. "D" indicates that data in the cell have been suppressed to avoid disclosure of information pertaining to individual companies.

## EXPLANATION OF GENERAL TERMS

**Capacity.** The maximum quantity of a product that can be produced in a plant in 1 day if operating for 24 hours. Includes the capacity of idle plants until the plant is reported to be destroyed, dismantled, or abandoned.

**Consumption.** Materials used in producing or processing a product or otherwise removing the product from the inventory.

**Exports.** Includes all types of products shipped to foreign countries, or to agents or exporters for reshipment to foreign countries.

**Gross shipments.** The quantity or value of physical shipments from domestic establishments of all products sold, transferred to other establishments of the same company, or shipped on consignment, whether for domestic or export sale or use. Shipments of products purchased for resale are omitted. Shipments of products made under toll arrangements are included.

**Interplant transfers.** Shipments to other domestic plants within a company for further assembly, fabrication, or manufacture.

**Inventories.** The quantity or value of finished goods, work in progress, and materials on hand.

**Machinery in place.** The number of machines of a particular type in place as of a particular date whether the machinery was used for production, prototype, or sampling, or was idle. Machinery in place includes all machinery set up in operating positions.

**Net receipts.** Derived by subtracting the materials held at the end of the previous month from the sum of materials used during the current month.

**Production.** The total volume of products produced, including: products sold; products transferred or added to inventory after adjustments for breakage, shrinkage, and obsolescence, plus any other inventory adjustment; and products that undergo further manufacture at the same establishment.

**Quantities produced and consumed.** Quantities of each type of product produced by a company for internal consumption within that same company.

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**Quantity and value of new orders.** The sales value of orders received during the current reporting period for products and services to be delivered immediately or at some future date. Also represents the net sales value of contract change documents that increase or decrease the sales value of the orders to which they are related, when the parties concerned are in substantial agreement as to the amount involved. Included as orders are only those that are supported by binding legal documents such as signed contracts or letter contracts.

**Quantity and value of shipments.** The figures on quantity and value of shipments represent physical shipments of all products sold, transferred to other establishments of the same company, or shipped on consignment, whether for domestic or export sale. The value represents the net sales price, f.o.b. plant, to the customer or branch to which the products are shipped,

net of discounts, allowances, freight charges, and returns. Shipments to a company's own branches are assigned the same value as comparable appropriate allocation of company overhead and profit. Products bought and resold without further manufacture are excluded.

**Stocks.** Total quantity of ending finished inventory.

**Unfilled orders (backlog).** Calculated by adding net new orders and subtracting net sales from the backlog at the end of the preceding year.

#### **HISTORICAL NOTE**

Data on major household appliances have been collected by the Census Bureau since 1968. Historical data may be obtained from Current Industrial Reports available at your local Federal Depository Library.