

# Computers and Peripheral Equipment: 2006

Issued July 2007

## *Summary*

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### **Current Industrial Reports**

Current data are released electronically on Internet for all individual surveys as they become available. Use: <http://www.census.gov/mcd/>. Individual reports can be accessed by choosing "Current Industrial Reports (CIR)," clicking on "CIRs by Subsector;" then choose the survey of interest. Follow the menu to view the PDF file or to download the worksheet file (XLS format) to your personal computer.

These data are also available on Internet through the U.S. Department of Commerce and STAT-USA by subscription. The Internet address is: [www.stat-usa.gov/](http://www.stat-usa.gov/). Follow the prompts to register. Also, you may call 202-482-1986 or 1-800-STAT-USA, for further information.

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 Jennifer Lee, 301-763-9057.

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 Computers and Peripheral Equipment by Product Class  
[Millions of dollars]

Product class	Product description	2006	2005
334111	Electronic computers.....	37,657.4	38,385.5
3341111	Host computers, multiusers (mainframes, super computers, medium scale systems, UNIX servers, PC servers).....	(D)	11,758.5
3341117	Single user computers, microprocessor-based, capable of supporting attached peripherals (personal computers, workstations, portable computers).....	(D)	25,906.2
334111D	Other computers (array, analog, hybrid, and special-use computers).....	(D)	720.7
3341121	Computer storage devices (except parts, attachments, and accessories).....	6,956.2	6,099.8
3341124	Parts, attachments, and accessories for computer storage devices.....	1,928.6	1,440.7
3341131	Computer terminals (except point-of-sale and funds-transfer devices, parts, attachments, and accessories).....	267.5	244.8
3341134	Parts, attachments, and accessories for computer terminals (except point-of-sale and funds-transfer devices).....	(D)	(D)
3341191	All other miscellaneous computer peripheral (input/output) equipment (except parts, attachments, and accessories).....	4,516.9	4,425.3
3341194	Parts, subassemblies, and accessories for computer peripheral equipment.....	2,719.5	2,743.3
3341197	Point-of-sale terminals and funds-transfer devices.....	621.2	496.9
334119D	Parts and attachments for point-of-sale terminals and funds-transfer devices.....	34.6	(D)
3346130	Magnetic and optical recording media.....	1,363.8	1,302.8

D Withheld to avoid disclosing data for individual companies.

Table 2. Quantity and Value of Shipments of Computers and Peripheral Equipment: 2006  
 [Quantity in number of units. Value in thousands of dollars]

Product code	Product description	No. of cos.	Total		Fourth quarter		Third quarter		Second quarter		First quarter									
			Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value								
3341111	Electronic computers.....	93	26,925,715	37,657,396	r/	5,272,744	8,366,037	7,475,254	r/	10,699,087	6,742,748	r/	9,333,850	7,434,969	r/	9,258,422				
33411111	Host computers, multiusers (mainframes, super computers, medium scale systems, UNIX servers, PC servers).....	39	(D)	(D)	a/	319,046	2,706,112	(D)	(D)	a/r/	333,234	r/	2,458,342	(D)	(D)					
3341111101	Large-scale systems, including mainframes and super computers.....	14	112,449	3,247,211	c/	30,618	906,112	c/	27,541	r/	780,677	c/	26,386	r/	822,800	c/	27,904	r/	737,622	
3341111104	Midrange servers (all sizes).....	9	68,195	1,222,010	b/	24,086	474,333	r/	15,495	r/	259,943	a/	15,086	r/	263,917		13,528	r/	223,817	
3341111108	Blade servers.....	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
3341111112	Personal computer servers.....	17	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
3341111117	Other host computers.....	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
3341117	Single user computers, microprocessor-based, capable of supporting attached peripherals (personal computers, workstations, portable computers).....	54	(D)	(D)	(D)	4,918,986	5,597,774	(D)	(D)	(D)	6,382,213	(D)	6,810,969	(D)	(D)	(D)	(D)	(D)	(D)	
3341117107	Personal computers.....	23	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
3341117109	Workstations.....	27	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
3341117127	Mobile computers (include notebooks, subnotebooks, laptops, and tablet PCs).....	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
3341117129	Smart handheld devices.....	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
3341117130	All other single-user computers.....	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
334111D	Other computers (array, analog, hybrid, and special-use computers).....	26	(D)	(D)	a/r/	34,712	b/r/	62,151	(D)	(D)	b/	27,301	a/r/	64,539	(D)	(D)	(D)	(D)	(D)	
3341121	Computer storage devices (except parts, attachments, and accessories).....	38	(X)	6,956,193	(X)	(X)	1,945,349	(X)	r/	1,711,534	(X)	r/	1,658,627	(X)	(X)	1,640,683				
3341121109	Disk subsystems and disk arrays for multiuser computer systems.....	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)				
3341121112	Disk drives (all sizes).....	13	(X)	(D)	(X)	a/	22,365	(X)	(X)	41,532	(X)	(X)	21,516	(X)	(X)	(D)				
3341121123	Storage Area Networks (SANs).....	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)				
3341121138	Tape drives (all sizes).....	9	(X)	284,627	(X)	(X)	82,869	(X)	(X)	74,887	(X)	(X)	72,367	(X)	(X)	54,504				
3341121141	USB Flash memory (thumb drives).....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)				
3341121145	Other computer storage devices.....	14	1,134,387	3,795,259	a/	298,925	a/	1,051,013	a/	287,169	a/	922,275	b/r/	268,518	r/	904,283	b/r/	279,775	r/	917,688
3341124	Parts, attachments, and accessories for computer storage devices.....	13	(X)	1,928,630	(X)	(X)	507,849	(X)	r/	429,413	(X)	r/	491,991	(X)	r/	499,377				
3341131	Computer terminals (except point-of-sale and funds-transfer devices, parts, attachments, and accessories).....	16	(X)	267,533	(X)	(X)	66,233	(X)	a/	62,657	(X)	a/	75,412	(X)	a/	63,231				
3341134	Parts, attachments, and accessories for computer terminals (except point-of-sale and funds-transfer devices).....	4	(X)	(D)	(X)	(D)	(D)	(X)	(D)	(D)	(X)	(D)	(D)	(X)	(D)					
3341191	All other miscellaneous computer peripheral (input/output) equipment (except parts, attachments, and accessories).....	115	(X)	4,516,882	(X)	a/	1,175,810	(X)	a/	1,112,927	(X)	r/	1,121,184	(X)	a/	1,106,961				
3341191110	Input devices, all types.....	23	(X)	427,040	(X)	(X)	98,422	(X)	(X)	108,776	(X)	(X)	106,317	(X)	(X)	113,525				
3341191115	Optical scanning devices: bar codes.....	12	1,728,916	480,962	c/	538,856	b/	125,157	c/	440,300	b/	122,917	391,892	114,969	c/	357,868	b/	117,919		
3341191117	Optical scanning devices: OCR equipment.....	5	(D)	567,519	(D)	(D)	139,226	(D)	(D)	143,068	(D)	(D)	143,266	(D)	r/	141,959				
3341191124	Optical scanning devices: scanners.....	16	(X)	209,575	(X)	b/	66,811	(X)	b/	54,122	(X)	a/	51,886	(X)	b/r/	36,756				
3341191127	Magnetic strip and ink recognition equipment.....	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)					
3341191132	Impact printers: line type and serial type.....	13	(D)	135,741	a/	27,892	33,418	a/	23,522	27,212	(D)	r/	36,888	(D)	r/	38,223				
3341191135	Nonimpact printers: laser.....	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	233,075	a/r/	99,557	r/	354,850	a/r/	121,190			
3341191138	Nonimpact printers: multifunction.....	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)					
3341191140	Nonimpact printers: other.....	21	(X)	1,041,455	(X)	(X)	286,677	(X)	(X)	247,429	(X)	(X)	257,839	(X)	(X)	249,510				
3341191145	Plotters.....	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)					
3341191147	Monitors: flat bed panel (excluding terminals).....	15	107,830	87,942	b/	23,575	b/	19,558	c/r/	24,749	c/	17,949	a/r/	29,559	b/	22,823	c/r/	29,947	c/	27,612
3341191152	Monitors: other than flat panel.....	6	(X)	9,184	(X)	a/	956	(X)	a/	1,270	(X)	a/	1,815	(X)	c/	5,143				
3341191154	Mobile and wireless projectors.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)					
3341191156	All other peripheral equipment.....	26	(X)	325,323	(X)	a/	87,710	(X)	a/	82,467	(X)	r/	86,712	(X)	a/r/	68,434				
3341191157	Accessories for computer peripherals.....	17	(X)	242,673	(X)	(X)	67,541	(X)	(X)	67,180	(X)	r/	64,061	(X)	r/	43,891				
3341194	Parts, subassemblies, and accessories for computer peripheral equipment.....	30	(X)	2,719,498	(X)	r/	779,415	(X)	r/	709,775	(X)	(X)	688,237	(X)	r/	542,071				
3341197	Point-of-sale terminals and funds-transfer devices.....	14	378,280	621,245	a/	91,507	258,541	84,352	156,162	97,679	110,437	104,742	96,105							
334119D	Parts and attachments for point-of-sale terminals and funds-transfer devices.....	5	(X)	34,608	(X)	(X)	8,132	(X)	(X)	7,764	(X)	(X)	8,983	(X)	r/	9,729				
3346130	Magnetic and optical recording media.....	21	(X)	1,363,751	(X)	a/	342,044	(X)	(X)	321,439	(X)	b/	338,377	(X)	c/	361,891				
3346130215	Rigid disks: all sizes.....	4	(X)	(D)	(X)	(D)	(D)	c/	(X)	(D)	(X)	(D)	(D)	(X)	(D)					
3346130614	Flexible disks.....	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)					
3346130615	Optical disks.....	9	582,947,000	320,530	c/	179,241,000	b/	85,642	b/	157,102,000	b/	70,664	a/	162,572,000	a/	87,232	b/	84,032,000	b/	76,992
3346130501	Bulk magnetic tape.....	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)					
3346130423	Packaged magnetic tape (all types).....	7	(X)	679,666	(X)	(X)	167,828	(X)	(X)	158,670	(X)	c/	159,666	(X)	c/	193,502				
3346130617	Other magnetic recording media, including parts.....	6	(X)	(D)	(X)	(D)	(D)	(X)	(D)	(D)	(X)	(D)	(D)	(X)	(D)					

- Represents zero. D Withheld to avoid disclosing data for individual companies. r/Revised by 5 percent or more from previously published data. X Not applicable.

Note: Percent of estimation of each item is indicated as follows: a/10 to 25 percent of this item has been estimated. b/26 to 50 percent of this item has been estimated. c/Over 50 percent of this item has been estimated.

Table 3. Shipments, Exports, and Imports of Computers and Peripheral Equipment: 2006  
 [Quantity in number of units. Value in thousands of dollars]

Product code	Product description	Manufacturers' shipments (f.o.b. plant)		Exports of domestic merchandise 1/		Imports for consumption 2/ 3/	
		Quantity	Value	Quantity	Value	Quantity	Value
3341111101, 104, 108, 112, 117, 3341117107, 109, 127, 129, 130, 334111D	Computers, digital, analog, hybrid, and other.....	26,925,715	37,657,396	4,769,966	7,622,221	44,287,641	33,235,608
3341121109, 112, 123, 138, 141, 145, 3341124	Computer storage devices and parts and subassemblies.....	(X)	8,884,823	5,194,304	2,392,910	204,671,282	11,601,250
3341131	Computer terminals (except point-of-sale and funds-transfer devices.....)	(X)	267,533	88,079	68,870	4,160,740	717,659
3341191110	Input devices, all types.....	(X)	427,040	2,162,889	438,377	45,585,217	455,653
3341191115, 117, 124, 127	Optical scanning devices and magnetic strip and ink recognition equipment.....	(X)	(D)	396,335	261,236	5,246,583	695,025
3341191135	Nonimpact laser printers.....	(D)	(D)	252,466	253,845	11,470,181	3,448,992
3341191132, 138, 140	Computer printers, n.e.c. ....	(X)	(D)	1,533,788	721,950	(X)	4,172,737
3341191145	Plotters.....	(D)	(D)	(X)	15,092	102,450	19,120
3341197	Point-of-sale terminals and fund-transfer devices.....	378,280	621,245	95,995	256,213	3,096,442	888,054
3346130215, 614, 615	Rigid, flexible, and optical disks.....	(X)	(D)	117,527,816	491,828	248,285,197	48,859
3346130423, 501	Bulk and packaged magnetic tape.....	(X)	(D)	(X)	248,855	(X)	1,050,260
3346130617	Other magnetic recording media, including parts.....	(X)	(D)	(X)	368,507	(X)	3,755,273

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

1/Source: Census Bureau report EM 545, U.S. Exports.

2/Source: Census Bureau report IM 145, U.S. Imports for Consumption.

3/Value represents the c.i.f. (cost, insurance, and freight) value at first port of entry in the United States plus import duties.

Note: For comparison of North American Industry Classification System (NAICS)-based product codes with Schedule B export codes and HTSUSA import codes, see Table 4.

Table 4. Comparison of North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes and HTSUSA Import Codes: 2006

Product code	Product description	Export code 1/	Import code 2/
3341111101, 104, 108, 112, 117, 3341117107, 109, 127, 129, 130, 334111D	Computers, digital, analog, hybrid, and other.....	8471.10.0000	8471.10.0000
		8471.30.0000	8471.30.0000
		8471.41.0035	8471.41.0035
		8471.41.0065	8471.41.0065
		8471.41.0095	8471.41.0095
		8471.49.1035	8471.49.1035
		8471.49.1065	8471.49.1065
		8471.49.1095	8471.49.1095
		8471.50.0035	8471.50.0035
		8471.50.0065	8471.50.0065
		8471.50.0085	8471.50.0085
3341121109, 112, 123, 138, 141, 145, 3341124	Computer storage devices and parts and subassemblies.....	8471.49.5010	8471.49.5010
		8471.49.5020	8471.49.5020
		8471.49.5040	8471.49.5040
		8471.49.5060	8471.49.5060
		8471.49.5080	8471.49.5080
		8471.70.1000	8471.70.1000
		8471.70.2000	8471.70.2000
		8471.70.3000	8471.70.3000
		8471.70.4035	8471.70.4035
		8471.70.4065	8471.70.4065
		8471.70.4095	8471.70.4095
		8471.70.5035	8471.70.5035
		8471.70.5065	8471.70.5065
		8471.70.5095	8471.70.5095
8471.70.6000	8471.70.6000		
8471.70.9000	8471.70.9000		
3341131	Computer terminals (except point-of-sale and funds-transfer devices.....)	8471.49.2400	8471.49.2400
		8471.60.3000	8471.60.3000
3341191110	Input devices, all types.....	8471.49.2100	8471.49.2100
		8471.60.2000	8471.60.2000
		9017.20.8040	9017.20.8040
3341191115, 117, 124, 127	Optical scanning devices and magnetic strip and ink recognition equipment.....	8471.49.4200	8471.49.4200
		8471.60.8000	8471.60.8000
3341191135	Nonimpact laser printers.....	8471.49.3100	8471.49.3100
		8471.49.3200	8471.49.3200
		8471.60.5100	8471.60.5100
		8471.60.5200	8471.60.5200
		8471.60.6100	8471.60.6100
8471.60.6200	8471.60.6200		
3341191132, 138, 140	Computer printers, n.e.c. ....	8471.49.3300	8471.49.3300
		8471.49.3400	8471.49.3400
		8471.49.3500	8471.49.3500
		8471.49.3600	8471.49.3600
		8471.49.3730	8471.49.3730
		8471.49.3760	8471.49.3760
		8471.49.3790	8471.49.3790
		8471.60.5300	8471.60.5300
		8471.60.5400	8471.60.5400
		8471.60.5500	8471.60.5500
		8471.60.5600	8471.60.5600
		8471.60.5730	8471.60.5730
		8471.60.5760	8471.60.5760
8471.60.5790	8471.60.5790		
8471.60.6300	8471.60.6300		

Table 4. Comparison of North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes and HTSUSA Import Codes: 2006

Product code	Product description	Export code 1/	Import code 2/
3341191132, 138, 140	Computer printers, n.e.c. (continued).....	8471.60.6400	8471.60.6400
		8471.60.6500	8471.60.6500
		8471.60.6600	8471.60.6600
		8471.60.6730	8471.60.6730
		8471.60.6760	8471.60.6760
		8471.60.6790	8471.60.6790
3341191145	Plotters.....	9017.10.0000	9017.10.4000 9017.20.7000
3341197	Point-of-sale terminals and fund-transfer devices.....	8470.50.0020	8470.50.0020
		8472.90.1000	8472.90.1000
3346130215, 614, 615	Rigid, flexible, and optical disks.....	8523.20.0000	8523.20.0000
3346130423, 501	Bulk and packaged magnetic tape.....	8523.11.0000	8523.11.0000
		8523.12.0010	8523.12.0010
		8523.12.0020	8523.12.0020
		8523.12.0040	8523.12.0040
		8523.12.0060	8523.12.0060
		8523.13.0020	8523.13.0020
		8523.13.0040	8523.13.0040
		8523.13.0060	8523.13.0060
		8523.13.0080	8523.13.0080
3346130617	Other magnetic recording media, including parts.....	8522.10.0000	8522.10.0000
		8522.90.0010	8522.90.7540
		8522.90.0090	8522.90.7580
		8523.90.0000	8523.90.0000

N.e.c. Not elsewhere classified.

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 Computers and Office and Accounting Machines, MA334R, have been collected by the Census Bureau since 1953. Beginning in 2005 data for the MA334R will be collected under the title Computers and Peripheral Equipment. Historical data may be obtained from Current Industrial Reports (called Facts for Industry before 1959) available at your local Federal Depository Library.