

Computers and Office and Accounting Machines: 2004

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SUMMARY OF FINDINGS. In 2004, manufacturers' shipments of computers were valued at \$39.5

billion, a 3.3-percent increase from the 2003 total of \$38.3 billion. Units of computers increased from 23.0 million in 2003 to 24.5 million in 2004. Personal computers were valued at \$15.3 billion 2004, compared to 14.7 billion in 2003. Workstations were valued at \$1.9 billion in 2004, compared to \$2.0 billion in 2003. Notebooks were valued at \$8.6 billion in 2004. Printed circuit assemblies (loaded computer processor boards subassemblies and modules) were valued at \$19.8 billion, compared to \$19.7 billion in 2003. Computer storage devices were valued at \$5.1 billion in 2004, virtually unchanged from 2003. Magnetic and optical recording media were valued at \$1.9 billion in 2004, compared to \$2.3 billion in 2003.

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 Keith McKenzie, 301-763-4777.

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

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Table 1. Value of Shipments of Computers and Office and Accounting Machines by Product Class: 1999 to 2004
[Millions of dollars]

Product code	Product description	2004	2003	2002	2001	2000	1999
334111	Electronic computer manufacturing 1/.....	39,540.3	38,270.6	40,448.3	48,541.3	62,856.9	64,696.1
33411111	Host computers (multiusers).....	12,786.4	12,236.6	13,053.2	16,469.3	22,877.4	21,089.4
33411171	Single user computers.....	26,163.9	25,163.8	26,586.0	31,492.2	38,981.3	42,765.3
334111D121	Other computers, including array, analog, hybrid, or special computers not listed above.....	590.0	870.2	809.1	581.4	998.2	841.4
334418B	Printed circuit assemblies (loaded boards, subassemblies, and modules 2/.....	19,838.3	19,714.6	23,170.8	31,214.0	37,272.5	30,090.9
3341121	Computer storage devices and equipment.....	5,065.4	5,101.0	5,026.9	7,318.7	8,995.4	9,826.5
3341124101	Parts for computer storage devices and subassemblies.....	990.7	1,129.5	1,578.0	1,699.1	1,691.9	2,253.5
3341131	Computer terminals.....	298.6	258.0	266.1	360.9	415.1	541.1
3341134101	Parts for computer terminals.....	1.7	1.3	(D)	(D)	(D)	(D)
3341191	Computer peripheral equipment, n.e.c.	9,373.4	9,482.6	10,460.4	10,636.7	12,434.4	12,889.4
3341194101	Parts for input/output equipment.....	2,593.4	1,848.9	1,905.3	2,359.9	2,766.3	2,387.5
	Calculating and accounting machines	734.7	923.4	844.6	1,190.8	1,210.4	1,195.6
3333136	Parts for calculating, coin, or currency handling, and accounting machines.....	20.4	26.0	60.6	94.8	105.7	(D)
333313A	Mailing, letter handling, and addressing machines.....	1,010.7	r/ 980.8	1,942.8	1,308.2	1,375.7	1,158.1
333313E	Check handling, electric stapling and dictating machines, typewriters, and all other office machines, n.e.c.	634.4	490.1	536.7	780.0	806.6	826.1
333313J100	Parts for office machines, n.e.c.	132.2	189.8	142.2	323.8	239.5	463.2
334613	Magnetic and optical recording media.....	1,882.4	2,270.8	2,207.3	2,227.6	3,205.5	3,906.8

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

1/Detail may not sum to total due to rounding.

2/Data are collected on two Current Industrial Report forms, MA334R, "Computer and Office and Accounting Machines," and MA334Q, "Semiconductors, Printed Circuit Boards, and Other Electronic Components."

Table 2. Quantity and Value of Shipments of Computers and Office and Accounting Machines: 2004 and 2003
 [Quantity in number of units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2004		2003	
			Quantity	Value	Quantity	Value
334111	Electronic computer manufacturing.....	109	24,492,043	39,540,254	23,028,986	38,270,621
	Host computers (multiusers):					
3341111101	Large-scale systems, including mainframes and super computers.....	13	93,842	2,463,319	175,030	r/ 3,184,379
3341111103	Medium-scale systems and unix servers 1/.....	17	(D)	(D)	(D)	(D)
3341111105	Personal computer servers 1/.....	21	(D)	(D)	(D)	(D)
3341111106	Other host computers 1/.....	7	(D)	(D)	(D)	(D)
3341111109	Server appliance 1/.....	7	1,298,757	10,323,037	1,141,797	9,052,264
	Single user computers:					
3341117107	Personal computers.....	29	15,789,994	15,272,316	14,949,810	14,708,984
3341117109	Workstations.....	33	1,027,086	1,911,834	1,168,079	r/ 1,990,875
3341117111	Laptops (AC/DC)	8	41,565	a/ 71,742	8,665	c/ 24,998
3341117112	Tablet computer	-	-	-	-	-
3341117113	Notebooks, subnotebooks (battery operated).....	12	5,640,873	8,603,653	5,107,146	8,161,176
3341117115	Personal digital assistants 2/.....	5	(D)	(D)	(D)	(D)
3341117117	Other portable computers 2/.....	4	(D)	(D)	(D)	(D)
3341117119	Other single user computers 2/.....	4	416,287	304,396	314,706	277,770
3341117125	Home internet appliance.....	-	-	-	-	-
334111D121	Other computers, including array, analog, hybrid or special-purpose computers not included above.....	26	183,639	589,957	163,753	870,175
334418B	Printed circuit assemblies (loaded boards, subassemblies, and modules) 3/.....	615	(X)	19,838,256	(X)	19,714,661
	Loaded computer processor boards and board subassemblies:					
334418B105	Computer and peripheral printed board assemblies.....	217	(X)	8,354,607	(X)	7,859,142
334418B110	Communications printed board assemblies.....	196	(X)	4,337,689	(X)	4,921,208
334418B115	Industrial process control board assemblies	204	(X)	1,181,657	(X)	920,379
334418B120	Instrumentation printed board assemblies (except industrial).....	171	(X)	1,277,635	(X)	1,266,868
334418B125	Search and detection printed board assemblies.....	62	(X)	(D)	(X)	(D)
334418B130	Consumer electronics printed board assemblies.....	111	(X)	568,348	(X)	789,968
334418B132	Plotter controllers	2	(X)	(D)	(X)	(D)
334418B135	Other electronics, printed board assemblies, including office equipment and point of sales.....	280	(X)	3,934,280	(X)	3,783,930
3341121	Computer storage devices and equipment.....	51	(X)	5,065,406	(X)	5,100,980
	Rigid magnetic disk drives:					
3341121102	Rigid magnetic drives.....	14	b/ 11,293	c/ 14,772	b/ 10,793	c/ 16,363
3341121109	Disk subsystems and disk arrays for multiuser computer systems.....	20	95,911	1,387,536	r/ 78,633	1,349,638
3341121111	Flexible magnetic disk drives.....	4	(D)	(D)	(D)	(D)
	Optical disk drives, including CD-ROM and magneto-optical equipment:					
	CD-ROM:					
3341121113	"Juke-box" capable of handling multiple disks.....	4	(D)	(D)	626	a/ 3,553
3341121115	Single-disk equipment.....	5	(D)	(D)	(D)	(D)
3341121116	DVD	4	(D)	(D)	(D)	(D)
3341121120	Other optical disk drives	2	(D)	(D)	(D)	(D)
3341121121	Optical subsystems for multiusers computer systems.....	4	(D)	(D)	(D)	(D)
3341121123	Storage Area Networks (SANs).....	1	(D)	(D)	(NA)	(NA)
3341121124	Auxiliary storage, not disk or tape-based, for multiuser computer systems.....	7	138,825	643,210	45,531	587,848
3341121127	Other direct access storage equipment.....	11	(D)	(D)	(D)	(D)
	Serial-access storage equipment (e.g., tape drives):					
3341121129	1/2-inch tape drives 4/.....	6	(D)	(D)	39,800	290,268
3341121131	1/4-inch tape drives 4/.....	3	(D)	(D)	(D)	(D)
3341121133	Helical scan tape drives 4/.....	4	(D)	(D)	(D)	(D)
3341121135	Cassette tape drives 4/.....	3	50,658	278,219	90,370	358,043
3341121137	Other serial access storage equipment.....	5	(D)	(D)	(D)	(D)
3341124101	Computer storage parts and subassemblies.....	16	(X)	990,674	(X)	1,129,462

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 [Quantity in number of units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2004				2003			
			Quantity		Value	Quantity		Value		
3341131	Computer terminals.....	25	(X)		298,566	(X)		257,981		
3341131101	Remote batch terminals.....	5	c/	2,483	a/	19,785	c/	23,341		
3341131103	Teleprinters.....	2		(D)		(D)		(D)		
	Display terminals, including graphics type whether or not incorporating a printing mechanism:									
3341131105	X-terminals.....	1		(D)		(D)		(D)		
	Other than X-terminals:									
3341131107	13-inch or less display	6		(D)		(D)		(D)		
3341131109	More than 13-inch but less than 19-inch display.....	12	b/	86,115	b/	108,841	b/	89,902		
3341131111	19-inch or more display	4		(D)		(D)		(D)		
3341134101	Computer terminal parts and subassemblies.....	6		(X)		1,732		(X)		
3341191	Computer peripheral equipment, n.e.c.	185		(X)		9,373,404		(X)		
	Keying equipment:									
3341191100	Digital cameras.....	-		-		-		-		
3341191101	Keyboards	19		195,491		33,953		1,099,802		
3341191103	Other keying equipment	4		(D)		(D)		(D)		
3341191105	Mouse devices	9		(D)		(D)		(D)		
3341191107	Digitizers and light pen tablets	5		516,698		49,272	r/	432,765		
3341191109	Other manual input devices (joysticks, trackballs, touchscreens, etc.).....	14		1,899,303	b/	345,557	a/	1,881,246		
3341191111	Computer output to microfilm (COM) equipment.....	2		(D)		(D)		(D)		
3341191113	Media copying and/or conversion equipment.....	5		(D)		(D)	c/	7,135		
	Optical scanning devices:									
3341191115	Bar code devices.....	18		1,190,744		407,523	b/	915,285		
3341191117	OCR equipment.....	8		121,051		216,149	r/	47,987		
	Other than bar code or OCR devices:									
3341191119	Flat bed scanners	4	c/	15,818	a/	75,319		(D)		
3341191121	Hand-held scanners	3		(D)		(D)		(D)		
3341191122	Photo scanners.....	1		(D)		(D)		(D)		
3341191123	Other.....	11	b/	23,387	b/	105,442	c/ r/	24,546		
3341191125	Voice recognition equipment.....	7		(D)		(D)		(D)		
3341191127	Magnetic strip and ink recognition equipment.....	9	c/	(D)		(D)	b/	100,553		
3341191129	Other document entry equipment.....	2		(D)		(D)		(D)		
	Computer printers:									
	Impact printers:									
3341191131	Line type (typically with a Centronics interface with output measured in line per minute).....	9		101,061		90,439	r/	104,332		
3341191133	Serial type (typically with a serial and/or parallel interface with output measured in characters per second).....	13	a/	139,840	a/	59,821		128,272		
	Nonimpact printers:									
3341191135	Laser.....	20		2,694,358	a/	1,293,135		2,040,269		
3341191137	Inkjet.....	8		(D)		(D)		(D)		
3341191139	Other (thermal, ion deposition, etc.).....	18	a/	471,067	a/	606,873	r/	382,677		
3341191141	Peripheral sharing devices.....	7	a/	11,661	a/	5,920		18,510		
3341191145	Plotters, including electrostatic.....	7	b/	3,901	b/	37,668	b/ r/	2,313		
	Monitors, excluding terminals:									
3341191147	Flat panel displays.....	9		498,050	a/	220,131		248,723		
	Other than flat panel displays:									
3341191149	Less than 19-inch display.....	14		148,103	a/	62,430		350,665		
3341191151	19-inch or more display.....	11		118,047	a/	73,855		(D)		
3341191153	Monitor screen projection devices (e.g., LCD panels).....	5		(D)		(D)		(D)		
3341191155	All other input/output devices.....	39		(X)		4,181,116		(X)		
3341191157	Accessories for computer peripherals (e.g., device device supports, ergonomic aids, etc.).....	21		(X)		280,264		(X)		
3341194101	Parts and subassemblies for computer peripherals and input/output equipment.....	46		(X)		2,593,370		(X)		
	Calculating and accounting machines.....	34		(X)		734,650		(X)		
3341197103	Funds transfer devices 5/.....	4		(D)		(D)		(D)		
3341197107	Point-of-sale terminals 5/.....	21		454,194		551,361		309,329		
3333134115	Machines for sorting, wrapping, counting, changing, or dispensing coins and/or currency.....	7	c/	89,611	a/	124,678		98,776		

Table 2. Quantity and Value of Shipments of Computers and Office and Accounting Machines: 2004 and 2003
 [Quantity in number of units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2004		2003	
			Quantity	Value	Quantity	Value
3333134125	Other coin or currency handling machines, including cash registers, calculators, accounting, bookkeeping, and billing machines, and credit card im printers.....	9	(X) b/	58,611	(X) b/	51,595
3333136	Parts for calculating, coin or currency handling and accounting machines	10	(X) a/	20,447	(X) a/	25,970
334119D100	Parts and attachments for point of sale and funds transfer devices.....	3	(X)	(D)	(X)	(NA)
333313A	Mailing, letter handling, and addressing machines.....	28		379,781	(X) r/	980,811
333313A101	Forms handling equipment, including bursters, decollators, and im printers	7	30,735 c/	25,180	33,480 c/	27,305
333313A105	Letter and envelope handling machines.....	13	24,209	327,038	12,284 r/	340,985
333313A107	Other mailing, letter handling and addressing	17	324,837 a/	658,519	348,821 r/	612,521
333313E	All other office machines, n.e.c.	36	(X)	634,395	(X)	490,074
333313E101	Check handling machines.....	5	(D)	(D)	(D)	(D)
333313E104	Electronic staplers.....	3	(D)	(D)	(D)	(D)
333313E105	Paper cutting machines and apparatus office type	3	829,137	14,789	840,819	13,850
333313E106	Pencil sharpeners.....	1	(D)	(D)	(D)	(D)
333313E107	Paper shredders.....	2	(D)	(D)	(D)	(D)
333313E110	All other office machines, n.e.c., including type-writers, dictating machines, binding machines, ticket counting machines, and voting machines.....	15	(X)	560,161	(X)	415,165
333313J100	Parts for office machines, n.e.c.	22	(X)	132,218	(X) a/	189,787
3345183131	Time recording and time stamp machines.....	12	a/ 356,004 a/	162,760	b/ 264,033 a/	115,900
3399427100	Perforating or stapling machines, nonelectric.....	5	(D)	(D)	(D)	(D)
334613	Magnetic and optical recording media.....	34	(X)	1,882,405	(X)	2,270,784
	Rigid disks:					
3346131111	Less than 3-1/2 inches	-	-	-	-	-
3346131211	3-1/2 inches up to but not including 5-1/4 inches	6	(D)	(D)	(D)	(D)
3346131213	5-1/4 inches and greater	3	(D)	(D)	(D)	(D)
3346131614	Flexible disks.....	2	(D)	(D)	(D)	(D)
3346131615	Optical disks.....	10	45,803,510	688,182	r/ 37,689,029 r/	782,697
3346131501	Bulk magnetic tape.....	7	728,201 a/	103,018	915,920	129,819
	Packaged magnetic tape:					
3346131411	In reels for computer use 6/.....	5	b/ 10,816	43,788	(D)	(D)
3346131413	In cassette and cartridge for computer use 6.....	8	4,786,092	689,695	2,980,992	860,095
3346131415	In forms suitable for audio use.....	5	(D)	(D)	(D)	(D)
3346131417	In video cassette, 8-mm and 1/2-inch.....	8	75,621	62,406	128,094	159,919
3346131419	In video cassette, 3/4 (19-mm) and 2-inch (51-mm)	3	(D)	(D)	(D)	(D)
3346131421	Other package magnetic tape.....	-	-	-	-	-
3346131617	Other magnetic recording media, including parts.....	5	(X)	15,884	(X)	(D)
	Nonmanufacturing revenue of manufacturing establishments:					
4216900000	Supplies and accessories for use with computers or business machines (resales).....	35	(X)	2,384,027	(X)	1,996,097
9999980000	Research and development, testing, and evaluation of systems and components.....	9	(X)	26,824	(X)	12,226
	Software sold with computer systems shipped by manufacturers:					
3346110001	Operating system software.....	8	(X)	(D)	(X)	(D)
3346110002	Utilities and device managers.....	11	(X)	13,238	(X)	22,159
3346110003	Application software.....	22	(X)	770,555	(X)	282,095
3346110004	Other software.....	4	(X)	706	(X)	593
5415120000	Systems integration revenues, including configuration, installation and site preparation, and custom programming.....	21	(X)	231,318	(X)	57,477

Table 2. Quantity and Value of Shipments of Computers and Office and Accounting Machines: 2004 and 2003
 [Quantity in number of units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2004		2003	
			Quantity	Value	Quantity	Value
5415190000	Other nonmanufacturing revenues associated with computer systems.....	59	(X)	3,453,275	(X)	r/ 2,816,848

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

1/For 2004, product codes 3341111103, 3341111105, 3341111106, and 3341111109 have been combined to avoid disclosing individual companies.

2/Product codes 3341117115, 3341117117, and 3341117119 have been combined to avoid disclosing individual companies.

3/Data are collected on two Current Industrial Report forms: MA334R, "Computer and Office and Accounting Machines" and MA334Q, "Semiconductors, Printed Circuit Boards, and Other Electronic Components."

4/For 2004, product codes 3341121129, 3341121131, 3341121133, and 3341121135 have been combined to avoid disclosing individual companies.

5/Product codes 3341197103 and 3341197107 have been combined to avoid disclosing individual companies.

6/For 2003, product code 3346131411 and 3346131413 have been combined to avoid disclosing individual companies.

Table 3. Shipments, Exports, Imports, and Apparent Consumption of Computing and Accounting Machines: 2004
 [Quantity in thousands of units. Value in millions of dollars]

Product code	Product description	Manufacturers' shipments (f.o.b. plant)		Exports of domestic merchandise 1/ 2/		Imports for consumption 1/ 3/	
		Quantity	Value	Quantity	Value	Quantity	Value
3341111101, 103, 105, 109, 3341117107, 109, 111, 112, 113, 115, 117, 119, 125, 334111D121	Computers, digital, analog, hybrid, and other.....	24,492.0	39,540.3	3,829.0	6,299.0	32,867.0	24,588.0
3341121111	Flexible magnetic disk drives.....	(D)	(D)	117.0	20.0	26,031.0	244.0
3341121102, 109	Rigid magnetic disk drives, including disk subsystems and disk arrays.....	107.2	1,402.3	4,992.0	709.0	87,419.0	7,184.0
3341121113, 115, 116, 120 121, 123, 124, 127, 129, 131, 133, 135, 137, 3341124101	Computer storage devices and equipment, n.e.c.	(X)	(D)	1,603.0	1,346.0	69,372.0	3,603.0
3341191135	Laser computer printers.....	2,694.4	1,293.1	385.0	268.0	8,483.0	2,874.0
3341191137	Inkjet computer printers.....	(D)	(D)	613.0	157.0	41,421.0	3,957.0
3341191131, 133, 139	Computer printers, n.e.c.	712.0	757.1	872.0	549.0	4,165.0	923.0
3341191145	Plotters, including electrostatic.....	3.9	37.7	(X)	13.0	426.0	18.0
3341191101	Computer keyboards.....	195.5	34.0	862.0	56.0	47,876.0	419.0
3341131101, 103, 105, 107, 109, 111	Computer terminals.....	(X)	298.6	121.0	60.0	2,223.0	550.0
3341191149, 151	Monitors, CRT-type.....	266.2	136.3	641.0	155.0	16,282.0	1,766.0
3341191147, 153	Monitors, n.e.c.	(D)	(D)	491.0	410.0	44,148.0	8,303.0
3341191115, 117, 119, 121 122, 123, 127	Optical scanning devices and magnetiac strip and ink recognition equipment.....	(D)	(D)	474.0	271.0	6,500.0	716.0
3341191105, 109	Control devices.....	(D)	(D)	3,242.0	2,527.0	80,777.0	4,629.0
3341191107	Digitizers and light pen tablets.....	516.7	49.3	1,404.0	224.0	381.0	21.0
3341191103, 111, 113, 125, 129, 141, 155,	Computer equipment, n.e.c.	(X)	(D)	3,742.0	1,512.0	70,784.0	735.0
3341197103, 107	Point-of-sales terminals and ATM.....	454.2	551.4	145.0	166.0	2,256.0	716.0
3341191157, 4101, 334418B105, 110, 115, 120, 125, 130, 132, 135	Parts, subassemblies, and accessories for computers and computer peripheral equipment.....	(X)	22,711.9	(X)	12,430.0	(X)	27,991.0
3341194115, 125	Coin or currency handling machines, n.e.c., including cash registers, accounting, bookkeeping, and billing.....	(X)	183.3	1,020.0	58.7	118,539.0	632.0
333313A101, 105, 107	Mailing, letter handling, and addressing machines.....	379.8	1,010.7	88.0	121.0	4,063.0	153.0
3345183131	Time recording and time stamping machines.....	356.0	162.8	562.0	13.0	234.0	43.0
333313E106	Pencil sharpeners.....	(D)	(D)	1,547.0	80.0	9,005.0	29.0

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 [Quantity in thousands of units. Value in millions of dollars]

Product code	Product description	Manufacturers' shipments (f.o.b. plant)		Exports of domestic merchandise 1/ 2/		Imports for consumption 1/ 3/	
		Quantity	Value	Quantity	Value	Quantity	Value
333313E101, 104, 105, 107, 110	Office machines, n.e.c.	(X)	(D)	13.0	5.0	66,452.0	594.0
3333136	Parts for calculating, coin, or currency handling, and accounting machines.....	(X)	20.4	(X)	199.0	(X)	282.0
333313J100	Parts for office machines, n.e.c.	(X)	132.2	(X)	339.0	(X)	1,748.0
3346131111, 211, 213, 614, 615	Rigid, flexible, and optical disks.....	(X)	839.1	209,365.0	585.0	580,760.0	138.0
3346131411, 413, 415, 417, 419, 421, 501	Bulk and packaged magnetic tape.....	(D)	(D)	15,310	336	506,582.0	1,119.0
3346131617	Other magnetic recording media, including parts.....	(X)	15.9	103.0	320.0	422.0	3,002.0

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 System (NAICS)-based product codes with Schedule B export codes and HTSUSA import codes, see Table 4.

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

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

Table 4. Comparison of North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes and HTSUSA Import Codes: 2004

Product code	Product description	Export code 1/	Import code 2/
334111101, 103, 105, 109, 3341117107, 109, 111, 112, 113, 115, 117, 119, 125, 334111D121	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
3341121111	Flexible magnetic disk drives.....	8471.49.5020	8471.49.5020
		8471.70.4035	8471.70.4035
		8471.70.5035	8471.70.5035
3341121102, 109	Rigid magnetic disk drives, including disk subsystems and disarrays.....	8471.49.5010	8471.49.5010
		8471.49.5040	8471.49.5040
		8471.70.1000	8471.70.1000
		8471.70.2000	8471.70.2000
		8471.70.3000	8471.70.3000
		8471.70.4065	8471.70.4065
3341121113, 115, 116, 118, 120, 121, 124, 127, 129, 131, 133, 135, 137, 3341124101	Computer storage devices and equipment, n.e.c.	8471.49.5060	8471.49.5060
		8471.49.5080	8471.49.5080
		8471.70.4095	8471.70.4095
		8471.70.5095	8471.70.5095
		8471.70.6000	8471.70.6000
		8471.70.9000	8471.70.9000
3341191135	Laser computer 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
3341191137	Inkjet computer printers.....	8471.60.6200	8471.60.6200
		8471.49.3400	8471.49.3400
		8471.60.5400	8471.60.5400
3341191131, 133, 139	Computer printers, n.e.c.	8471.60.6400	8471.60.6400
		8471.49.3300	8471.49.3300
		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
		8471.60.5500	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: 2004

Product code	Product description	Export code 1/	Import code 2/
3341191131, 133, 139	Computer printers, n.e.c. (continued).....	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, including electrostatic.....	9017.10.0000	9017.10.4000 9017.20.7000
3341191101	Computer keyboards.....	8471.49.2100	8471.49.2100
		8471.60.2000	8471.60.2000
3341131101, 103, 105, 107, 109, 111	Computer terminals.....	8471.49.2400	8471.49.2400
		8471.60.3000	8471.60.3000
3341191149, 151	Monitors, CRT-type.....	8471.49.2600	8471.49.2600
		8471.60.1035	8471.60.1035
		8471.60.1065	8471.60.1065
		8471.60.3500	8471.60.3500
		8471.60.4540	8471.60.4540
3341191147, 153	Monitors, n.e.c.	8471.49.2900	8471.49.2900
		8471.60.1095	8471.60.1095
		8471.60.4580	8471.60.4580
			9013.80.7000 9013.80.9000
3341191115, 117, 119, 121, 123, 125, 3341191123, 127,	Optical scanning devices and magnetic strip and ink recognition equipment.....	8471.49.4200	8471.49.4200
		8471.60.8000	8471.60.8000
3341191105, 109	Control devices.....	8471.49.6000	8471.49.6000
		8471.80.1000	8471.80.1000
3341191107	Digitizers and light pens.....	9017.20.8040	9017.20.8040
3341191102, 103, 111, 113, 125, 129, 141, 143, 155	Computer equipment, n.e.c.	8471.49.1500	8471.49.1500
		8471.49.4850	8471.49.4850
		8471.49.4875	8471.49.4875
		8471.49.4895	8471.49.4895
		8471.49.9000	8471.49.9500
		8471.60.9030	8471.60.9030
		8471.60.9070	8471.60.9070
		8471.60.9090	8471.60.9090
		8471.80.9000	8471.80.9000
		8471.90.0000	
3341197103, 107	Point-of-sale terminals and automatic teller machines.....	8470.50.0020	8470.50.0020
		8472.90.1000	8472.90.1000

Table 4. Comparison of North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes and HTSUSA Import Codes: 2004

Product code	Product description	Export code 1/	Import code 2/
3341191157, 4101, 334418A101, 110, 115, 120, 125, 130, 135	Parts, subassemblies, and accessories for computers and computer peripheral equipment	8471.60.7040	8471.49.8500
		8471.60.7080	8471.60.7040
		8471.80.4000	8471.60.7080
		8473.30.0000	8471.80.4000
		8473.50.0000	8473.30.1040
			8473.30.1080
			8473.30.2000
			8473.30.3000
			8473.30.5000
			8473.30.6000
	8473.30.9000		
	8473.50.3000		
	8473.50.6000		
	8473.50.9000		
3341197103, 115, 125	Coin or currency handling machines, n.e.c., including cash registers, accounting, bookkeeping, and billing machines, and credit card imprinters.....	8470.10.0000	8470.10.0040
		8470.21.0000	8470.10.0060
		8470.29.0000	8470.21.0000
		8470.30.0000	8470.29.0000
		8470.40.0000	8470.30.0000
		8470.50.0060	8470.40.0000
			8470.50.0060
			8472,90.9040
	8472,90.9060		
	8472.90.9520		
333313A101, 105, 107	Mailing, letter handling, and addressing machines.....	8470.90.0010	8470.90.0010
		8472.20.0000	8472.20.0000
		8472.30.0000	8472.30.0000
3345183131	Time recording and time stamping machines.....	9106.10.0000	9106.10.0000
333313E106	Pencil sharpeners.....	8472.90.9000	8472.90.4000
333313E101, 104, 105, 107, 109	Office machines, n.e.c.	8469.20.0020	8469.20.0020
		8469.20.0040	8469.20.0040
		8469.30.0020	8469.30.0020
		8469.30.0040	8469.30.0040
			8472.90.6000
	8472.90.7000		
	8472.90.9080		
3333136100	Parts for calculating, coin, or currency handling, and accounting machines.....	8473.21.0000	8473.21.0000
		8473.29.0000	8473.29.0000
333313J100	Parts for office machines, n.e.c.	8473.10.0020	8473.10.4000
		8473.40.8000	8473.10.6000
		8473.40.8500	8473.10.9000
			8473.40.1000
	8473.40.6000		
	8473.40.8000		

Table 4. Comparison of North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes and HTSUSA Import Codes: 2004

Product code	Product description	Export code 1/	Import code 2/
3346131111, 211, 213, 614, 615	Rigid, flexible, and optical disks.....	8523.20.0000	8523.20.0000
3346131411, 413, 415, 417, 419, 421, 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
3346131617	Other magnetic recording media, including parts.....	8523.13.0080	8523.13.0080
		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: 2004 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 (2004).

Appendix.

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

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 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), covered by the census of governments conducted by the Census Bureau.)

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

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.

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 have been collected by the Census Bureau since 1953. Historical data may be obtained from Current Industrial Reports (called Facts for Industry before 1959) available at your local Federal Depository Library.