

Computers and Office and Accounting Machines: 2001

Issued September 2002

MA334R(01)-1

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 (WK 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/. Follow the prompts to register. Also, you may call 202-482-1986 or 1-800-STAT-USA, for further information.

SUMMARY OF FINDINGS. In 2001, manufacturers' shipments of computers were valued at \$49.3

billion, a 21.6-percent decrease from the 2000 total of \$62.9 billion. Units of computers shipped decreased from 27.2 million in 2000 to 22.7 million in 2001. Personal computers were valued at \$18.9 billion in 2001, compared to \$22.9 billion in 2000. Workstations were valued at \$3.4 billion in 2001, compared to \$5.6 billion in 2000. Notebooks were valued at \$8.7 billion in 2001. Loaded processor boards and subassemblies were valued at \$30.7 billion, compared to \$37.3 billion in 2000. Computer storage devices were valued at \$8.2 billion in 2001, compared to \$9.0 billion in 2000. Magnetic and optical recording media were valued at \$2.1 billion in 2001, compared to \$3.2 billion in 2000.

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, 301-457-4777.

For mail or fax copies of this publication, please contact the Information Services Center, MCD, Washington, DC 20233-6900, or call 301-457-4673.

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 Office and Accounting Machines by Product Class: 1994 to 2001
[Millions of dollars]

Product code	Product description	2001	2000	1999	1998	1997	1996	1995	1994
3341110000	Electronic computer manufacturing 1/.....	49,289.0	62,856.9	64,696.1	56,891.5	50,249.9	50,681.5	49,038.1	38,260.7
3341111000	Host computers (multiusers).....	17,301.6	22,877.4	21,089.4	15,010.2	12,240.0	(NA)	(NA)	(NA)
3541117000	Single user computers.....	31,448.3	38,981.3	42,765.3	41,001.9	36,987.5	(NA)	(NA)	(NA)
334111D021	Other computers, including array, analog, hybrid, or special computers not listed above.....	539.0	998.2	841.4	879.4	1,022.4	(NA)	(NA)	(NA)
334418A000	Loaded computer processor boards and board subassemblies 2/.....	30,712.9	37,272.5	30,090.9	26,046.5	27,040.2	24,937.3	24,447.7	17,514.8
3341121000	Computer storage devices and equipment.....	8,153.4	r/ 8,995.4	9,826.5	9,318.6	8,837.4	8,909.2	7,903.0	5,555.6
3341124001	Parts for computer storage devices and subassemblies.....	1,699.5	r/ 1,691.9	2,253.5	2,309.7	2,382.3	1,719.9	2,235.6	1,951.9
3341131000	Computer terminals.....	447.7	415.1	541.1	529.4	781.4	1,103.9	1,086.0	1,243.5
3341134001	Parts for computer terminals.....	(D)	(D)	(D)	(D)	(D)	199.2	(D)	(D)
3341191000	Computer peripheral equipment, n.e.c.	10,593.4	12,434.4	12,889.4	12,145.4	13,555.2	11,462.8	12,331.0	11,943.6
3341194001	Parts for input/output equipment.....	2,359.9	2,766.3	2,387.5	2,629.5	2,627.9	5,504.8	2,391.0	2,498.7
33411197	Calculating and accounting machines	1,330.0	r/ 1,210.4	1,195.6	1,060.5	1,621.9	1,485.0	1,278.9	1,261.5
3333136000	Parts for calculating, coin, or currency handling, and accounting machines	105.2	105.7	(D)	126.5	127.5	82.9	106.1	86.7
333313A000	Mailing, letter-handling, and addressing machines.....	1,758.4	1,375.7	1,158.1	989.0	1,397.9	1,230.6	1,280.1	967.5
333313D000	Check handling, electric stapling and dictating machines, typewriters, and all other office machines, n.e.c.	791.7	r/ 806.6	826.1	778.5	609.8	579.7	577.7	664
333313J000	Parts for office machines, n.e.c.	179.2	r/ 239.5	463.2	359.5	439.4	454.4	440.3	359.6
3346130000	Magnetic and optical recording media.....	2,077.4	r/ 3,205.5	3,906.8	4,736.3	5,739.1	5,739.1	5,106.2	4,777.1

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.

1/In 1997, the computer industry data were revised. Previous years are not comparable.

2/These 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: 2001 and 2000
[Quantity in number of units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2001		2000	
			Quantity	Value	Quantity	Value
334111	Electronic computer manufacturing.....	127	22,745,591	49,288,969	27,235,010	62,856,944
	Host computers (multiusers):					
3341111001	Large scale systems, including mainframes and super computers.....	14	309,141	4,714,336 r/	540,942	6,856,470
3341111003	Medium-scale systems and unix servers	26	934,468	9,119,336	1,213,197	12,654,073
3341111005	Personal computer servers 1/.....	22	(D)	(D)	739,393	3,175,969
3341111006	Other host computers 1/.....	10	(D)	(D)	15,368	190,917
3341111009	Server appliance 1/.....	1	(D)	(D)	(NA)	(NA)
	Single user computers:					
3341117007	Personal computers.....	34	14,579,263	18,856,674	16,305,421	22,855,986
3341117009	Workstations.....	37	1,298,618	3,359,849	2,728,140	5,598,449
3341117011	Laptops (AC/DC)	8	5,446 a/	18,515	6,671	12,945
3341117013	Notebooks, subnotebooks (battery operated)	16	4,248,919	8,682,428	4,169,407	9,599,839
3341117015	Personal digital assistants 2/.....	4	(D)	(D)	(D)	(D)
3341117017	Other portable computers 2/.....	8	(D)	(D)	(D)	(D)
3341117019	Other single user computers.....	6	184,209 a/	94,380	217,099 a/	106,787
3341117025	Home internet appliance.....	-	-	-	(NA)	(NA)
334111D021	Other computers, including array, analog, hybrid or special-purpose computers not included above.....	29	74,622	539,016	264,166	998,209
33418A	Printed circuit assemblies (loaded boards, subassemblies, and modules) 3/.....	758	(X)	30,712,895	(X)	37,272,519
	Loaded computer processor boards and board subassemblies:					
334418A005	Computer and peripheral printed board assemblies.....	265	(X)	11,170,750	(X) r/	14,189,451
334418A010	Communications printed board assemblies.....	252	(X)	9,094,359	(X) r/	10,880,133
334418A015	Industrial process control board assemblies.....	219	(X)	1,115,058	(X) r/	1,132,385
334418A020	Instrumentation printed board assemblies (except industrial).....	189	(X)	2,181,651	(X) r/	2,458,563
334418A025	Search and detection printed board assemblies.....	55	(X)	100,768	(X)	103,980
334418A030	Consumer electronics printed board assemblies.....	137	(X)	556,420	(X) r/	578,641
334418A035	Other electronics, printed board assemblies including office equipment and point of sales.....	299	(X)	6,493,889	(X) r/	7,929,366
3341121	Computer storage devices and equipment.....	66	(X)	8,153,449	(X)	8,995,421
	Rigid magnetic disk drives:					
3341121002	Rigid magnetic drives.....	22	(D)	(D)	(D)	(D)
3341121009	Disk subsystems and disk arrays for multiuser computer systems.....	21	45,106	1,141,255	61,566	900,115
3341121011	Flexible magnetic disk drives.....	6	(D)	(D)	(D)	(D)
	Optical disk drives, including CD-ROM and magneto-optical equipment:					
	CD-ROM:					
3341121013	"Juke-box" capable of handling multiple disks.....	8	37,545 a/	21,642	43,331 a/	32,614
3341121015	Single-disk equipment.....	7	(D)	(D)	(D)	(D)
3341121016	DVD 4/.....	3	(D)	(D)	(D)	(D)
3341121018	Magneto-optical (MO).....	-	-	-	-	-
3341121020	Other optical disk drives 4/.....	3	(D)	(D)	(D)	(D)
3341121021	Optical subsystems for multiusers computer systems.....	5	(D)	(D)	(D)	(D)
3341121024	Auxiliary storage, not disk or tape-based, for multiuser computer systems.....	6	(D)	(D)	(D)	(D)

Continued

Table 2. Quantity and Value of Shipments of Computers and Office and Accounting Machines: 2001 and 2000
[Quantity in number of units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2001		2000	
			Quantity	Value	Quantity	Value
3341121027	Other direct access storage equipment..... Serial-access storage equipment (e.g., tape drives):	12 a/	52,197 a/	586,201	55,458	453,821
3341121029	1/2 inch tape drives.....	10	563,676	1,729,161	616,800	1,780,962
3341121031	1/4 inch tape drives.....	5	15,251 a/	4,454	(D)	(D)
3341121033	Helical scan tape drives.....	9	61,062	212,164	109,831	360,862
3341121035	Cassette tape drives.....	4	13,514 a/	3,520	19,158 a/	4,182
3341121037	Other serial access storage equipment.....	9	(D)	(D)	(D)	(D)
3341124001	Computer storage parts and subassemblies.....	19	(X)	1,699,539	(X) r/	1,691,912
3341131	Computer terminals.....	35	(X)	452,092	(X)	415,078
3341131001	Remote batch terminals.....	5	10,369	29,052 a/	28,227 b/	38,070
3341131003	Teleprinters.....	3 b/	829 c/	7,120	4,086 c/	9,240
	Display terminals, including graphics type whether or not incorporating a printing mechanism:					
3341131005	X-terminals.....	7	240,287	166,950 r/	204,632 r/	129,476
	Other than X-terminals:					
3341131007	13-inch or less display 5/.....	4	(D)	(D)	(D)	(D)
3341131009	More than 13-inch but less than 19-inch display.....	18	256,066	184,133 r/	326,201 r/	200,320
3341131011	19-inch or more display 5/.....	5	(D)	(D)	(D)	(D)
3341134001	Computer terminal parts and subassemblies....	6	(X)	(D)	(X)	(D)
3341191	Computer peripheral equipment, n.e.c.	209	(X)	10,593,405	(X)	12,434,388
	Keying equipment:					
3341191000	Digital cameras.....	-	-	-	(D)	(D)
3341191001	Keyboards	24	(D)	(D)	(D)	(D)
3341191002	Memory cards and readers.....	1	(D)	(D)	(D)	(D)
3341191003	Other keying equipment	3	(D)	(D)	(D)	(D)
3341191005	Mouse devices.....	8	(D)	(D)	(D)	(D)
3341191007	Digitizers and light pen tablets.....	5	(D)	(D)	134,536	87,982
3341191009	Other manual input devices (joysticks, trackballs, touchscreens, etc.).....	12 a/	1,143,130 a/	97,892 r/	933,616 r/	78,729
3341191011	Computer output to microfilm (COM) equipment.....	2	(D)	(D)	(D)	(D)
3341191013	Media copying and/or conversion equipment.....	6 c/	5,903 c/	49,948 c/	16,073 c/	116,619
	Optical scanning devices:					
3341191015	Bar code devices.....	22	4,122,351 b/	810,810	4,692,699	1,012,002
3341191017	OCR equipment.....	9	30,586	155,352	64,942	320,869
	Other than bar code or OCR devices:					
3341191019	Flat bed scanners.....	2	(D)	(D)	(D)	(D)
3341191020	Drum scanners.....	-	-	-	-	-
3341191021	Hand-held scanners.....	3	(D)	(D)	(D)	(D)
3341191022	Photo scanners.....	-	-	-	-	-
3341191023	Other.....	10	117,011	117,650	127,186 a/	128,137
3341191025	Voice recognition equipment.....	5	(D)	(D) r/	52,023 r/	37,103
3341191027	Magnetic strip and ink recognition equipment.....	10	191,038	210,399 r/	185,292 r/	194,181
3341191029	Other document entry equipment.....	2	(D)	(D)	(D)	(D)
	Computer printers:					
	Impact printers:					
3341191031	Line type (typically with a Centronics interface with output measured in line per minute).....	13	283,110	207,657	926,433	297,944
3341191033	Serial type (typically with a serial and/or parallel interface with output measured in characters per second).....	15	140,662	66,299	146,613	86,572
	Nonimpact printers:					
3341191035	Laser.....	24	3,474,848	2,010,792	3,313,708	2,886,807
3341191037	Inkjet.....	10	7,985,509	614,956	(D)	(D)
3341191039	Other (thermal, ion deposition, etc.).....	19	195,265	358,841	238,836	461,084
3341191041	Peripheral sharing devices.....	8	42,841 a/	6,301	102,274 a/	20,288
3341191043	Font cartridges.....	3	(D)	(D)	(D)	(D)
3341191045	Plotters, including electrostatic.....	9 a/	11,642 a/	114,500 a/	12,893 a/	119,181

Continued

Table 2. Quantity and Value of Shipments of Computers and Office and Accounting Machines: 2001 and 2000
[Quantity in number of units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2001		2000	
			Quantity	Value	Quantity	Value
3341191047	Monitors, excluding terminals: Flat panel displays.....	11	67,062	48,871 r/	74,096 r/	52,252
3341191049	Other than flat panel displays: Less than 19-inch display	18	1,296,864	388,509	1,647,696	510,423
3341191051	19-inch or more display	13	795,909	330,559	1,018,309	423,436
3341191053	Monitor screen projection devices (e.g. LCD panels).....	7	(D)	(D)	(D)	(D)
3341191055	All other input/putput devices.....	41	(X) a/	3,071,166	(X) a/	2,721,504
3341191057	Accessories for computer peripherals (e.g. device supports, ergonomic aids, etc.).....	25	(X)	238,411	(X)	520,474
3341194001	Parts and subassemblies for computer peripherals and input/output equipment.....	53	(X)	2,359,928	(X)	2,766,258
3341197	Calculating and accounting machines.....	34	(X)	1,329,976	(X)	1,210,431
3341197003	Funds transfer devices 6/.....	5	(D)	(D)	(D)	(D)
3341197007	Point-of-sale terminals 6/.....	19	(D)	(D)	(D)	(D)
3333134015	Machines for sorting, wrapping, counting, changing or dispensing coins and/or currency.....	7	292,836	168,455	657,585 a/	186,716
3333134025	Other coin or currency handling machines, including cash registers, calculators, accounting, bookkeeping, and billing machines, and credit card imprinters.....	10	(X)	212,571	(X) r/	171,366
3333136000	Parts for calculating, coin or currency handling and accounting machines	10	(X)	105,179	(X)	105,705
333313A	Mailing, letter handling, and addressing machines.....	26	(X)	1,758,416	(X)	1,375,696
333313A001	Forms handling equipment, including burststers, decollators, and imprinters 7/.....	9	(D)	(D)	460,126 a/	37,655
333313A005	Letter and envelope handling machines.....	12	37,375	430,819	55,293 r/	324,679
333313A007	Other mailing, letter handling and addressing machines 7/.....	14	(D)	(D)	329,191	1,013,362
333313D	All other office machines, n.e.c.	35	(X)	791,666	(X)	809,646
333313D001	Check handling machines.....	6	(D)	(D)	(D)	(D)
333313D003	Electric stapling machines, office type.....	3	474,835	6,529	590,656	9,665
3345183131	Time recording and time stamp machines.....	12 a/	400,321 a/	271,884	407,060	247,831
333313D005	Paper cutting machines and apparatus office type	3	949,213	17,009	861,204	17,569
333313D006	Pencil sharpeners.....	1	(D)	(D)	(D)	(D)
333313D007	Paper shredders.....	1	(D)	(D)	(D)	(D)
333313D008	Perforating or stapling machines, nonelectric.....	5	(D)	(D)	(D)	(D)
333313D009	All other office machines, n.e.c., including pencil sharpeners, typewriters, dictating machines, binding machines, ticket counting, machines and voting machines.....	10	(X)	403,108	(X) r/	422,102
333313J000	Parts for office machines, n.e.c.	25	(X)	179,202	(X)	239,484
334613	Magnetic and optical recording media.....	47	(X)	2,077,398	(X)	3,205,546
3346130111	Rigid disks: Less than 3-1/2 inches	-	-	-	(D)	(D)
3346130211	3-1/2 inches up to, but not including 5-1/4 inches.....	6	4,931,578 c/	140,612	16,129,079 a/	737,645
3346130213	5-1/4 inches and greater	3	(D)	(D)	(D)	(D)
3346130611	Flexible disks: 3-1/2 inches up to, but not including 5-1/4/ inches 8/.....	8	(D)	(D) r/	2,821,792 r/	173,586
3346130613	5-1/4 inches and greater 8/.....	3	(D)	(D)	17,007 a/	3,819
3346130615	Optical disks	13	797,838	377,273	888,984	586,156
3346130501	Bulk magnetic tape.....	7	1,413,245	177,560	1,475,853	242,684

Continued

Table 2. Quantity and Value of Shipments of Computers and Office and Accounting Machines: 2001 and 2000
[Quantity in number of units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2001		2000	
			Quantity	Value	Quantity	Value
	Packaged magnetic tape:					
3346130411	In reels for computer use	6 b/	14,716	102,562 b/	8,531	64,884
3346130413	In cassette and cartridge for computer use.....	12	6,463,686	723,485	6,190,262	826,419
3346130415	In forms suitable for audio use.....	9	224,294	93,056	383,628	154,485
3346130417	In video cassette, 8-mm and 1/2-inch.....	11	215,936	189,307	271,424	304,024
3346130419	In video cassette, 3/4 (19-mm) and 2-inch (51-mm)	2	(D)	(D)	(D)	(D)
3346130421	Other package magnetic tape	2	(D)	(D)	(D)	(D)
3346130617	Other magnetic recording media, including parts.....	5	(X)	(D)	(X)	25,760
	Nonmanufacturing revenue of manufacturing establishments:					
4216900000	Supplies and accessories for use with computers or business machines (resales).....	40	(X)	1,805,053	(X)	1,624,319
9999980000	Research and development, testing and evaluation of systems and components.....	11	(X)	4,584	(X)	130,491
	Software sold with computer systems shipped by manufacturers:					
3346110001	Operating system software.....	10	(X)	5,776	(X)	7,172
3346110002	Utilities and device managers.....	12	(X)	3,134	(X)	3,036
3346110003	Application software.....	31	(X)	204,549	(X)	383,073
3346110004	Other software	6	(X)	54,920	(X)	57,114
5415120000	Systems integration revenues, including configuration, installation and site preparation, and custom programming.....	18	(X)	181,869	(X)	118,009
5415190000	Other nonmanufacturing revenues associated with computer systems.....	57	(X)	734,011	(X)	843,843

- 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/Product codes 3341111005, 3341111006, and 3341111009 have a combined total of 705,822 for quantity and 3,467,952 for shipments for 2001.

2/Product codes 3341117015 and 3341117017 have a combined total of 405,083 for quantity and 436,483 for shipments for 2001, and 1,035,206 for quantity and 807,300 for shipments for 2000.

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

4/Product codes 3341121016 and 3341121020 have a combined total of 1,330,284 for quantity and 31,732 for shipments for 2001, and 949,360 for quantity and 45,770 for shipments for 2000.

5/Product codes 3341131007 and 3341131011 have a combined total of 40,868 for quantity and 64,837 for shipments for 2001, and 39,709 for quantity and 37,972 for shipments for 2000.

6/Product codes 3341197003 and 3341197007 have a combined total of 328,168 for quantity and 948,950 for shipments for 2001, and 341,161 for quantity and 852,349 for shipments for 2000.

7/Product codes 333313A001 and 333313A007 have a combined total of 1,079,718 for quantity and 1,327,597 for shipments for 2001.

8/Product codes 3346130611 and 3346130613 have a combined total of 2,872,110 for quantity and 157,862 for shipments for 2001.

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 is estimated. c/Over 50 percent of this item has been estimated.

Table 3. Shipments, Exports, Imports, and Apparent Consumption of Computing and Accounting Machines: 2001
[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
3341111001, 003, 005, 006, 3341117007, 009, 011, 013, 015, 017, 019, 334111D021	Computers, digital, analog, hybrid, and other.....	22,745.6	49,289.0	4,102.4	8,802.6	18,126.8	12,360.1
3341121011	Flexible magnetic disk drives.....	(D)	(D)	185.1	28.4	33,707.0	531.1
3341121001, 005, 007, 009	Rigid magnetic disk drives, including disk subsystems and disk arrays.....	393.2	1,812.2	3,254.7	993.7	75,650.4	8,807.2
3341121013, 015, 016, 018, 020, 021, 024, 027, 029, 031, 033, 035, 037, 3341124001	Computer storage devices and equipment, n.e.c.	(X)	(D)	1,193.8	1,391.4	57,006.0	4,248.7
3341191035	Laser computer printers.....	3,474.8	2,010.8	945.4	526.7	5,185.0	3,883.3
3341191037	Inkjet computer printers.....	7,985.5	615.0	1,334.1	211.6	26,262.8	2,640.4
3341191031, 033, 039	Computer printers, n.e.c.....	619.0	632.8	634.5	470.7	2,514.0	737.1
3341191045	Plotters.....	11.6	114.5	(X)	12.9	111.3	5.5
3341191001	Computer keyboards.....	(D)	(D)	780.4	100.6	44,585.7	436.8
3341131001, 003, 005, 007, 009, 011	Computer terminals.....	(X)	452.1	43.5	50.8	1,235.1	430.2
3341191049, 051	Monitors, CRT-type.....	2,092.8	719.1	872.7	295.3	26,022.1	4,183.1
3341191047, 053	Monitors, n.e.c.	(D)	(D)	317.9	322.7	14,189.3	3,921.4
3341191015, 017, 019, 020, 021, 023, 025, 027	Optical scanning devices and magnetic strip and ink recognition equipment.....	4,552.0	1,442.3	604.4	376	8,674.3	764.3
3341191005, 009	Control devices.....	(D)	(D)	5,076.4	5,423.6	57,873.1	5,629.4
3341191007	Digitizers and light pens.....	(D)	(D)	777.5	124.3	336.4	11.1
3341191002, 003, 011, 013, 025, 029, 041, 043, 055	Computer equipment, n.e.c.	(X)	3,234.5	2,014.4	795.9	64,029.4	656.2
3341197007	Point-of-sales terminals.....	(D)	(D)	66.7	79.2	1,037.7	269.2

Continued

Table 3. Shipments, Exports, Imports, and Apparent Consumption of Computing and Accounting Machines: 2001
[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
3341191057, 4001, 334418A001, 003, 005, 007, 009, 011, 013	Parts, subassemblies, and accessories for computers and computer peripheral equipment.....	(X)	33,311.2	(X)	16,034.5	(X)	11,782.7
3341197003, 015, 025	Coin or currency handling machines, n.e.c., including cash registers, accounting, bookkeeping, and billing.....	(X)	(D)	1,773.6	322.4	118,244.2	967.1
333313A001, 005, 007 333313A007	Mailing, letter handling, and addressing machines.....	(D)	(D)	70.8	97.3	329	121.6
3345183131	Time recording and time stamping machines.....	400.3	271.9	182.8	11.1	113.9	7.8
333313D006	Pencil sharpeners.....	(D)	(D)	1,806.4	106.3	4,157.4	14.4
333313D001, 003, 005, 007, 008, 009	Office machines, n.e.c.	(X)	483.2	18.7	4.3	30,102.3	291.4
3333136000	Parts for calculating, coin, or currency handling, and accounting machines.....	(X)	105.2	(X)	223.4	(X)	287.5
333313J000	Parts for office machines, n.e.c.	(X)	179.2	(X)	356.6	(X)	150.6
3346130111, 211, 213, 611, 613, 615	Rigid, flexible, and optical disks.....	8,602.7	679.9	119,250.6	489.2	817,287.8	213.2
3346130411, 413, 415, 417, 419, 421, 501	Bulk and packaged magnetic tape.....	8,453.4	1,386.4	41,581	400.1	938,268.0	1,402.0
3346130617	Other magnetic recording media, including parts.....	(X)	(D)	90.6	241.2	694.4	1,174.8

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: 2001

Product code	Product description	Export code 1/	Import code 2/
3341111001, 003, 005, 006, 3341117007, 009, 011, 013, 015, 017, 019, 334111D021	Computers, digital, analog, hybrid, and other.....	8471.10.0000 8471.30.0000 8471.41.0035 8471.41.0065 8471.41.0095 8471.49.1035 8471.49.1065 8471.49.1095 8471.50.0035 8471.50.0065 8471.50.0085	8471.10.0000 8471.30.0000 8471.41.0035 8471.41.0065 8471.41.0095 8471.49.1035 8471.49.1065 8471.49.1095 8471.50.0035 8471.50.0065 8471.50.0085
3341121011	Flexible magnetic disk drives.....	8471.49.5020 8471.70.4035 8471.70.5035	8471.49.5020 8471.70.4035 8471.70.5035
3341121002, 005, 007, 009	Rigid magnetic disk drives, including disk subsystems and disk arrays.....	8471.49.5010 8471.49.5040 8471.70.1000 8471.70.2000 8471.70.3000 8471.70.4065 8471.70.5065	8471.49.5010 8471.49.5040 8471.70.1000 8471.70.2000 8471.70.3000 8471.70.4065 8471.70.5065
3341121013, 015, 016, 018, 020, 021, 024, 027, 029, 031, 033, 035, 3341124001	Computer storage devices and equipment, n.e.c.	8471.49.5060 8471.49.5080 8471.70.4095 8471.70.5095 8471.70.6000 8471.70.9000	8471.49.5060 8471.49.5080 8471.70.4095 8471.70.5095 8471.70.6000 8471.70.9000
3341191035	Laser computer printers.....	8471.49.3100 8471.49.3200 8471.60.5100 8471.60.5200 8471.60.6100 8471.60.6200	8471.49.3100 8471.49.3200 8471.60.5100 8471.60.5200 8471.60.6100 8471.60.6200
3341191037	Inkjet computer printers.....	8471.49.3400 8471.60.5400 8471.60.6400	8471.49.3400 8471.60.5400 8471.60.6400

Continued

Table 4. Comparision of North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes, and HTSUSA Import Codes: 2001

Product code	Product description	Export code 1/	Import code 2/
3341191031, 033, 039	Computer printers, n.e.c.	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
		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
3341191045	Plotters.....	9017.10.0000	9017.10.4000
			9017.20.7000
3341191001	Computer keyboards.....	8471.49.2100	8471.49.2100
		8471.60.2000	8471.60.2000
3341131001, 003, 005, 007, 009, 011	Computer terminals.....	8471.60.3000	8471.60.3000
3341191049, 051	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
3341191047, 053	Monitors, n.e.c.	8471.60.4540	8471.60.4540
		8471.49.2400	8471.49.2400
		8471.49.2900	8471.49.2900
		8471.60.1095	8471.60.1095
		8471.60.4580	8471.60.4580
			9013.80.7000
			9013.80.9000
3341191015, 017, 019, 020, 021, 023, 025, 027	Optical scanning devices and magnetic strip and ink recognition equipment.....	8471.49.4200	8471.49.4200
		8471.60.8000	8471.60.8000
3341191005, 009	Control devices.....	8471.49.6000	8471.49.6000
		8471.80.1000	8471.80.1000

Continued

Table 4. Comparison of North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes, and HTSUSA Import Codes: 2001

Product code	Product description	Export code 1/	Import code 2/
3341191007	Digitizers and light pens.....	9017.20.8040	9017.20.8040
3341191003, 011, 013, 029, 041, 043, 045 055	Computer equipment, n.e.c.	8471.49.1500 8471.49.4850 8471.49.4875 8471.49.4895 8471.49.9000 8471.60.9030 8471.60.9070 8471.60.9090 8471.80.9000	8471.49.1500 8471.49.4850 8471.49.4875 8471.49.4895 8471.49.9500 8471.60.9030 8471.60.9070 8471.60.9090 8471.80.9000
3341197007	Point-of-sale terminals.....	8470.50.0020	8470.50.0020
3341191057 3341194001, 334418A001, 003, 005, 007, 009, 011, 013	Parts, subassemblies, and accessories for computers and computer peripheral peripheral equipment	8471.60.7040 8471.60.7080 8471.80.4000 8473.30.0000 8473.50.0000	8471.49.8500 8471.60.7040 8471.60.7080 8471.80.4000 8473.30.1000 8473.30.2000 8473.30.3000 8473.30.5000 8473.30.6000 8473.30.9000 8473.50.3000 8473.50.6000 8473.50.9000
3341197003, 015, 025	Coin or currency handling machines, n.e.c., including cash registers, accounting, bookkeeping, and billing machines, and credit card imprinters.....	8470.10.0000 8470.21.0000 8470.29.0000 8470.30.0000 8470.40.0000 8470.50.0060 8472.90.1000	8470.10.0040 8470.10.0060 8470.21.0000 8470.29.0000 8470.30.0000 8470.40.0000 8470.50.0060 8472,90.1000 8472.90.9520
333313A001, 005, 007	Mailing, letter handling, and addressing machines.....	8470.90.0010 8472.20.0000 8472.30.0000	8470.90.0010 8472.20.0000 8472.30.0000

Continued

Table 4. Comparison of North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes, and HTSUSA Import Codes: 2001

Product code	Product description	Export code 1/	Import code 2/
3345183131	Time recording and time stamping machines.....	9106.10.0000	9106.10.0000
333313D006	Pencil sharpeners.....	8472.90.9050	8472.90.4000
333313D001, 003, 005, 007, 008, 009, 010	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
			8472.90.9550
3333136000	Parts for calculating, coin, or currency handling, and accounting machines.....	8473.21.0000	8473.21.0000
		8473.29.0000	8473.29.0000
333313J000	Parts for office machines, n.e.c.	8473.10.0095	8473.10.9000
		8473.40.0000	8473.40.1000
			8473.40.6000
			8473.40.9500
3346130111, 211, 213, 611, 613, 615	Rigid, flexible, and optical disks.....	8523.20.0000	8523.20.0000
3346130411, 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
3346130617	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: 2001 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 (2001).

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.