

Computers and Office and Accounting Machines

1999

Issued August 2000

MA334R(99)-1

(Formerly Series No. MA35R)

Information about the scope of the survey, methodology, explanation of terms and historical notes for this survey may be found in the introduction of the 1997 Manufacturing Profiles, issued August 1999.

Current data are released electronically on Internet for all individual surveys as they become available. Use: <http://www.census.gov/econ/www/manumenu.html>. Individual reports can be accessed by choosing "Current Industrial Reports (CIR's)," clicking on "Report Number Index;" from the "Industrial Products by Numeric Index," 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 through the U.S. Department of Commerce and STAT-USA Electronic Bulletin Board by subscription. To access, dial 202-482-3870 and follow the prompts to register. Also, you may call 202-482-1986 or 1-800-STAT-USA, for further information. The Internet address is: www.stat-usa.gov/.

NOTE. Data are now published on the new North American Industry Classification System (NAICS) basis and therefore are not always comparable to the old Standard Industrial Classification (SIC) code. For further information on NAICS, see www.census.gov/epcd/www/naics.html.

SUMMARY OF FINDINGS. In 1999, manufacturers' shipments of computers were valued at \$62.7 billion, a 10.2 percent increase from the 1998 total of \$56.9 billion. Units of computers shipped increased from 23.1 million in 1998 to 28.3 million in 1999. Personal computers were valued at \$26.3 billion in 1999, compared to \$24.5 billion in 1998. Workstations were valued at \$10.2 billion in 1999, compared to \$9.8 billion in 1998. Notebooks were valued at approximately \$7.4 billion in 1999, compared to \$5.8 billion in 1998. Loaded processor boards and subassemblies were valued at \$30.4 billion compared to \$26.0 billion in 1998. Computer storage devices were valued at \$9.7 billion in 1999, compared to \$9.3 billion in 1998. Magnetic and optical recording media were valued at \$3.9 billion in 1999, compared to \$4.7 billion in 1998.

Current
Industrial
Reports

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: 1992 to 1999
[Millions of dollars]

Product code	Product description	1999	1998	1997	1996	1995	1994	1993	1992
3341110000	Electronic computer manufacturing 1/.....	62,711.9	56,891.5	50,249.9	50,681.5	49,038.1	38,260.7	29,659.1	28,571.2
3341111000	Host computers (multi-users).....	17,178.3	15,010.2	12,240.0	(NA)	(NA)	(NA)	(NA)	(NA)
3541117000	Single user computers.....	44,540.8	41,001.9	36,987.5	(NA)	(NA)	(NA)	(NA)	(NA)
334111D021	Other computers, including array, analog, hybrid, or special computers not listed above.....	992.8 r/	879.4	1,022.4	(NA)	(NA)	(NA)	(NA)	(NA)
334418A000	Loaded computer processor boards and board subassemblies 2/.....	30,381.6 r/	26,046.5	27,040.2	24,937.3	24,447.7	17,514.8	15,087.1	13,745.8
3341121000	Computer storage devices and equipment	9,720.2 r/	9,318.6	8,837.4	8,909.2	7,903.0	5,555.6	5,730.7	6,282.4
3341124001	Parts for computer storage devices and subassemblies.....	2,254.5	2,309.7	2,382.3	1,719.9	2,235.6	1,951.9	1,496.4	1,357.1
3341131000	Computer terminals.....	479.9	529.4	781.4	1,103.9	1,086.0	1,243.5	1,531.3	1,707.9
3341134001	Parts for computer terminals.....	(D)	(D)	(D)	199.2	(D)	(D)	275.9	192.1
3341191000	Computer peripheral equipment, n.e.c.	12,783.6 r/	12,145.4	13,555.2	11,462.8	12,331.0	11,943.6	9,810.2	8,505.6
3341194001	Parts for input/output equipment.....	2,362.1	2,629.5	2,627.9	5,504.8	2,391.0	2,498.7	2,554.3	3,053.2
3341197	Calculating and accounting machines	939.7	1,060.5	1,621.9	1,485.0	1,278.9	1,261.5	1,454.2	967.5
3333136000	Parts for calculating, coin, or currency handling, and accounting machines	(D)	126.5	127.5	82.9	106.1	86.7	77.7	73.4
3333131000	Automatic typing and word processing machines.....	(D)	(D)	(D)	(D)	(D)	(D)	342.9	465.2
3333137000	Duplicating machines.....	(D)	(D)	(D)	59.9	(D)	68.4	(D)	(D)
333313A000	Mailing, letter-handling, and addressing machines.....	1,152.6	989.0	1,397.9	1,230.6	1,280.1	967.5	1,267.8	1,152.4
333313D000	Check handling, electric stapling and dictating machines, typewriters, and all other office machines, n.e.c.	673.3 r/	778.5	609.8	579.7	577.7	664	(D)	(D)
333313J000	Parts for office machines, n.e.c.	288.4	359.5	439.4	454.4	440.3	359.6	344.7	263.3
3346130000	Magnetic and optical recording media.....	3,850.4	4,736.3	5,739.1	5,739.1	5,106.2	4,777.1	4,483.3	4,336.8

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: 1999 and 1998
[Quantity in number of units. Value in thousands of dollars]

Product code	Product description	No. of cos.	1999		1998	
			Quantity	Value	Quantity	Value
3341111	Electronic computer manufacturing.....	140	28,294,408	62,711,900	23,063,796	56,891,491
	Host computers (multi-users):					
3341111001	Large scale systems, including mainframes and super computers.....	14	1,289,358	6,088,980	751,779	5,201,352
3341111003	Medium-scale systems and unix servers.....	32	965,780	8,048,996	657,565	6,952,037
3341111005	Personal computer servers 1/.....	26	630,339	2,498,740	(D)	(D)
3341111006	Other host computers 1/.....	11	27,024	541,629	(D)	(D)
	Single user computers:					
3341117007	Personal computers.....	41	19,397,775	26,307,648 r/	15,585,321	24,524,278
3341117009	Workstations.....	35	744,846	10,172,995	721,737	9,806,737
3341117011	Laptops (AC/DC) 2/.....	11	(D)	(D) r/	190,494 r/	537,812
3341117013	Notebooks, subnotebooks (battery operated) 2/.....	14	(D)	(D)	2,470,482	5,809,554
3341117015	Personal digital assistants 3/.....	4	(D)	(D)	69,374	47,546
3341117017	Other portable computers 3/.....	6	(D)	(D)	223,378	162,776
3341117019	Other single user computers	5	207,407 a/	109,579	205,916	113,167
334111D021	Other computers, including array, analog, hybrid or special-purpose computers not included above.....	38	1,525,444	992,771	1,733,241 r/	879,388
334418A	Printed circuit assemblies (loaded boards, subassemblies, and modules) 4/.....	784	(X)	30,381,640	(X)	26,046,467
	Loaded computer processor boards and board subassemblies:					
334418A001	Computer and peripheral printed board assemblies	312	(X)	12,963,506	(X)	11,986,136
334418A003	Communications printed board assemblies	259	(X)	7,663,623	(X)	5,106,263
334418A005	Industrial process control board assemblies	238	(X)	904,616	(X) r/	853,683
334418A007	Instrumentation printed board assemblies (except industrial)	206	(X)	2,936,629	(X) r/	2,052,976
334418A009	Search and detection printed board assemblies	55	(X)	101,266	(X) r/	79,101
334418A011	Consumer electronics printed board assemblies	149	(X)	509,480	(X) r/	507,083
334418A013	Other electronics, printed board assemblies including office equipment and point of sales	325	(X)	5,302,520	(X)	5,461,225
3341121	Computer storage devices and equipment.....	79	(X)	9,720,148	(X)	9,318,636
	Rigid magnetic disk drives:					
3341121001	Less than 2-1/2 inches 5/.....	2	(D)	(D)	(D)	(D)
3341121003	2-1/2 inches up to but not including 3-1/2 inches 5/.....	2	(D)	(D)	(D)	(D)
3341121005	3-1/2 inches up to but not including 5-1/4 inches.....	22	871,690	1,191,306	1,046,514	1,992,830
3341121007	5-1/4 inches and greater 5/.....	6	(D)	(D)	(D)	(D)
3341121009	Disk subsystems and disk arrays for multiuser computer systems.....	24	94,628	755,899	173,532	740,292
3341121011	Flexible magnetic disk drives.....	6	(D)	(D)	(D)	(D)
	Optical disk drives, including CD-ROM and magneto-optical equipment:					
	CD-ROM:					
	"Juke-box" capable of handling multiple disks	12	159,285 a/	38,911	152,332	42,436
3341121015	Single-disk equipment.....	8	26,101	14,280	9,056	11,248
3341121017	WORM (write once, read many times) 6/.....	4	(D)	(D)	(D)	(D)
3341121019	Rewritable 6/.....	10	(D)	(D)	(D)	(D)
3341121021	Optical subsystems for multiusers computer systems.....	8	20,582 a/	248,607 a/	13,987	219,439
	Auxiliary storage, not disk or tape-based for multiuser computer systems:					
3341121023	Encased or enclosed in a housing, enclosure, or cabinet 7/.....	10	(D)	(D)	(D)	(D)

Table 2. Quantity and Value of Shipments of Computers and Office and Accounting Machines: 1999 and 1998
[Quantity in number of units. Value in thousands of dollars]

Product code	Product description	No. of cos.	1999			1998		
			Quantity	Value		Quantity	Value	
3341121025	Other 7/.....	3	(D)	(D)		(D)	(D)	
3341121027	Other direct-access storage equipment.....	11	180,359	578,257	r/	193,619	r/	247,103
	Serial-access storage equipment (e.g. tape drives):							
3341121029	1/2-inch tape drives.....	9	509,048	2,182,332		463,088		1,530,676
3341121031	1/4-inch tape drives.....	5	(D)	(D)	r/	371,657	r/	86,291
3341121033	Helical scan tape drives.....	10	141,435	317,514		207,271		386,715
3341121035	Cassette tape drives.....	7	(D)	(D)		(D)		(D)
3341121037	Other-serial access storage equipment.....	9	681,731	575,468		1,120,048		460,975
3341124001	Computer storage parts and subassemblies...	15	(X)	2,254,506		(X)		2,309,676
334113	Computer terminals.....	39	(X)	481,308		(X)		539,793
3341131001	Remote batch terminals.....	5	25,805	b/ 33,560	a/	27,981		38,730
3341131003	Teleprinters.....	5	10,545	a/ 26,000		20,487	a/	30,567
	Display terminals, including graphics type, whether or not incorporating a printing mechanism:							
3341131005	X-terminals.....	7	259,926	151,941		292,852		174,910
	Other than X-terminals:							
3341131007	13-inch or less display.....	6	43,608	34,738		46,983		28,124
3341131009	More than 13-inch but less than 19-inch display.....	16	399,672	a/ 225,855	a/	430,257	a/	238,527
3341131011	19-inch or more display.....	6	2,168	9,214	b/	6,616		28,935
3341134001	Computer terminal parts and subassemblies.	6	(X)	(D)		(X)		(D)
334119	Computer peripheral equipment, n.e.c.	237	(X)	12,783,579		(X)		12,145,363
	Keying equipment:							
3341191001	Keyboards.....	25	10,708,838	737,150		15,331,089		750,861
3341191003	Other keying equipment.....	3	(D)	(D)		(D)		(D)
3341191005	Mouse devices.....	8	(D)	(D)		493,395		9,467
3341191007	Digitizers and light pen tablets.....	7	(D)	(D)		99,419		45,015
3341191009	Other manual input devices (joysticks, trackballs, touchscreens, etc.).....	12	290,838	b/ 22,869		(D)		(D)
3341191011	Computer output to microfilm (COM) equipment.....	5	665	c/ 51,493		1,116		70,081
3341191013	Media copying and/or conversion equipment.....	8	11,292	a/ 69,303	a/	11,395		56,133
	Optical scanning devices:							
3341191015	Bar code devices.....	26	4,894,755	984,345		3,266,029		872,872
3341191017	OCR equipment.....	11	37,309	a/ 219,253		35,091		210,022
	Other than bar code or OCR devices:							
3341191019	Flat bed scanners.....	3	(D)	(D)		(D)		(D)
3341191021	Hand-held scanners.....	3	(D)	(D)		59,817		69,760
3341191023	Other.....	15	47,829	b/ 126,437		117,899		170,126
3341191025	Voice recognition equipment.....	6	64,793	a/ 39,748		54,053		32,346
3341191027	Magnetic strip and ink recognition equipment.....	9	307,175	a/ 189,235	b/	305,837	a/	213,616
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	233,350	366,802	r/	235,331	r/	306,909
3341191033	Serial type (typically with a serial and/or parallel interface with output measured in characters per second).....	20	178,417	b/ 121,944	r/	279,690	r/	153,680
	Nonimpact printers:							
3341191035	Laser.....	27	1,879,541	3,319,809		2,454,777	r/	2,158,363
3341191037	Inkjet.....	15	11,434,686	1,043,129		8,882,434		1,231,671
3341191039	Other (thermal, ion deposition, etc.).....	21	255,534	374,756	a/	205,052		318,102
3341191041	Peripheral sharing devices.....	10	453,777	a/ 32,308	a/	297,300	a/	98,629
3341191043	Font cartridges.....	4	11,904,372	97,911		10,798,199		95,725
3341191045	Plotters, including electrostatic.....	12	20,762	b/ 125,397	b/	22,498	b/	127,892
	Monitors, excluding terminals:							
3341191047	Flat panel displays.....	9	87,136	17,984	a/	325,564	b/	77,766
	Other than flat panel displays:							
3341191049	Less than 19-inch display 8/.....	17	(D)	(D)		(D)		(D)
3341191051	19-inch or more display 8/.....	11	(D)	(D)	r/	282,001	r/	200,929

Table 2. Quantity and Value of Shipments of Computers and Office and Accounting Machines: 1999 and 1998
[Quantity in number of units. Value in thousands of dollars]

Product code	Product description	No. of cos.	1999		1998	
			Quantity	Value	Quantity	Value
3341191053	Monitor screen projection devices (e.g., LCD panels).....	7	(D)	(D)	(D)	(D)
3341191055	All other input/output devices.....	49	(X)	a/ 2,293,352	(X)	r/ 1,983,480
3341191057	Accessories for computer peripherals (e.g., device supports, ergonomic aids, etc.).....	33	(X)	941,363	(X)	r/ 1,235,648
3341194001	Parts and subassemblies for computer peripherals and input/output equipment.....	65	(X)	2,362,073	(X)	2,629,543
3341197	Calculating and accounting machines.....	37	(X)	939,690	(X)	1,060,474
3341197003	Funds transfer devices 9/.....	4	(D)	(D)	(D)	(D)
3341197007	Point-of-sale terminals 9/.....	19	(D)	(D)	(D)	(D)
3333134015	Machines for sorting, wrapping, counting, changing or dispensing coins and/or currency.....	10	598,280	b/ 224,167	555,090	b/ 244,695
3333134025	Other coin or currency handling machines, including cash registers, calculators, accounting, bookkeeping, and billing machines, and credit card imprinters.....	10	(X)	b/ 66,762	(X)	b/ 75,083
3333136000	Parts for calculating, coin or currency handling and accounting machines	10	(D)	(D)	(X)	126,456
3333131000	Automatic typing and word processing machines (all types).....	2	(D)	(D)	(D)	(D)
3333137000	Duplicating machines.....	3	(D)	(D)	(D)	(D)
333313A	Mailing, letter handling, and addressing machines.....	26	(X)	1,152,555	(X)	989,038
333313A001	Forms handling equipment, including bursters, decollators, and imprinters.....	8	546,095	a/ 39,389	525,647	40,063
333313A003	Mailing machines, including postage franking machines 10/.....	6	(D)	(D)	(D)	(D)
333313A005	Letter and envelope handling machines.....	11	31,633	300,224	16,482	298,998
333313A007	Other mailing, letter handling and addressing machines 10/.....	9	(D)	(D)	(D)	(D)
333313D	All other office machines, n.e.c.	39	(X)	673,265	(X)	778,477
333313D001	Check handling machines.....	7	18,069	c/ 35,859	c/ 17,206	38,087
333313D003	Electric stapling machines, office type.....	4	418,821	b/ 14,110	459,566	15,267
3345183131	Time recording and time stamp machines.....	10	341,715	125,435	330,675	117,796
333313D005	Paper cutting machines and apparatus office type 11/.....	3	(D)	(D)	r/ 578,461	r/ 19,670
333313D007	Paper shredders 11/.....	3	(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.....	24	(X)	a/ 353,665	(X)	r/ 446,106
333313J000	Parts for office machines, n.e.c.	30	(X)	a/ 288,439	(X)	339,073
334613	Magnetic and optical recording media.....	59	(X)	3,850,362	(X)	4,736,266
	Rigid disks:					
3346130111	Less than 2-1/2 inches 12/.....	1	(D)	(D)	(D)	(D)
3346130113	2-1/2 inches up to but not including 3-1/2 inches 12/	2	(D)	(D)	(D)	(D)
3346130211	3-1/2 inches up to but not including 5-1/4 inches.....	8	27,401,153	a/ 903,081	34,636,973	r/ 1,057,810
3346130213	5-1/4 inches and greater 12/.....	3	(D)	(D)	(D)	(D)
	Flexible disks:					
3346130611	3-1/2 inches up to but not including 5-1/4 inches.....	10	1,475,970	418,298	1,466,310	r/ 617,464
3346130613	5-1/4 inches and greater.....	4	18,280	b/ 4,556	c/ 29,966	a/ 11,791
3346130615	Optical disks	13	531,853	500,627	r/ 567,809	587,848
3346130501	Bulk magnetic tape.....	5	787,403	86,014	r/ 519,945	62,491

Table 2. Quantity and Value of Shipments of Computers and Office and Accounting Machines: 1999 and 1998
[Quantity in number of units. Value in thousands of dollars]

Product code	Product description	No. of cos.	1999			1998		
			Quantity		Value	Quantity		Value
Packaged magnetic tape:								
3346130411	In reels for computer use 13/.....	3	(D)		(D)		(D)	
3346130413	In cassette and cartridge for computer use.....	13	6,241,160	a/	839,024	r/	3,878,418	r/ 830,554
3346130415	In forms suitable for audio use.....	10	463,013	b/	220,713		562,555	277,952
3346130417	In video cassette, 8-mm and 1/2 inch.....	15	521,722		581,877		609,145	688,209
3346130419	In video cassette, 3/4 (19-mm) and 2-inch (51-mm) 13/.....	3	(D)		(D)		(D)	(D)
3346130421	Other package magnetic tape 13/.....	3	(D)		(D)		84,497	203,767
3346130617	Other magnetic recording media, including parts.....	12	(X)	b/	35,945		(X)	r/ 53,807
Nonmanufacturing revenue of manufacturing establishments:								
4216900000	Supplies and accessories for use with computers or business machines (resales).....	44	(X)		1,915,142		(X)	1,580,273
9999980000	Research and development, testing and evaluation of systems and components.....	9	(X)		128,142		(X)	138,755
Software sold with computer systems shipped by manufacturers:								
3346110001	Operating system software.....	9	(X)		9,550		(X)	65,305
3346110002	Utilities and device managers.....	10	(X)		1,115		(X)	1,443
3346110003	Application software.....	36	(X)		455,793		(X)	391,504
3346110004	Other software	8	(X)		49,873		(X)	55,981
5415120000	Systems integration revenues, including configuration, installation and site preparation, and custom programming.....	21	(X)		104,444		(X)	357,561
5415190000	Other nonmanufacturing revenues associated with computer systems.....	61	(X)		1,457,863		(X)	2,163,840

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. X Not applicable.

1/Product codes 3341111005 and 3341111006 have a combined total of 454,509 for quantity and 2,856,844 for shipments for 1998.

2/Product codes 3341117011 and 3341117013 have a combined total of 3,295,137 for quantity and 7,782,148 for shipments for 1999.

3/Product codes 3341117015 and 3341117017 have a combined total of 211,298 for quantity and 168,414 for shipments for 1999.

4/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."

5/Product codes 3341121001, 3341121003, and 3341121007 have a combined total of 118,467 for quantity and 172,730 for shipments for 1999, and 62,852 for quantity and 220,795 for shipments for 1998.

6/Product codes 3341121017 and 3341121019 have a combined total of 102,643 for quantity and 53,368 for shipments for 1999, and 456,801 for quantity and 183,206 for shipments for 1998.

7/Product codes 3341121023 and 3341121025 have a combined total of 536,691 for quantity and 3,112,895 for shipments for 1999, and 761,007 for quantity and 2,673,995 for shipments for 1998.

8/Product codes 3341191049 and 3341191051 have a combined total of 3,038,221 for quantity and 1,004,294 for shipments for 1999.

9/Product codes 3341197003 and 3341197007 have a combined total of 224,630 for quantity and 648,761 for shipments for 1999, and 237,733 for quantity and 740,696 for shipments for 1998.

10/Product codes 333313A003 and 333313A007 have a combined total of 572,535 for quantity and 812,942 for shipments for 1999, and 488,736 for quantity and 649,977 for shipments for 1998.

11/Product codes 333313D005 and 333313D007 have a combined total of 1,532,196 for quantity and 103,535 for shipments for 1999.

12/Product codes 3346130111, 3346130113, and 3346130213 have a combined total of 141,677 for quantity and 66,601 for shipments for 1999, and 123,230 for quantity and 275,882 for shipments for 1998.

13/ Product codes 3346130411, 3346130419, and 3346130421 have a combined total of 26,969 for quantity and 193,621 for shipments for 1999.

Note: The percent of estimation of each item is indicated as follows: a/10 to 25 percent of this items 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: 1999
[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, 007, 009, 011, 013, 015, 017, 019, 334111D021	Computers, digital, analog, hybrid, and other.....	28,294.4	62,711.9	3,981.2	8,270.7	13,251.1	10,273.4
3341121011	Flexible magnetic disk drives.....	(D)	(D)	586.9	82.9	44,422.4	954.6
3341121001, 003, 005, 007, 009	Rigid magnetic disk drives, including disk subsystems and disk arrays.....	1,084.8	2,119.9	5,070.6	1,664.4	78,679.6	12,328.3
3341121013, 015, 017, 019, 021, 023, 025, 029, 031, 033, 035, 037, 3341124001	Computer storage devices and equipment, n.e.c.	2,400.2	9,401.8	1,589.4	1,608.9	55,672.0	3,814.7
3341191035	Laser computer printers.....	1,879.5	3,319.8	724.2	476.9	3,816.3	2,596.4
3341191037	Inkjet computer printers.....	11,434.7	1,043.1	1,106.8	300.6	24,799.7	2,819.1
3341191031, 033, 039	Computer printers, n.e.c.....	667.3	863.5	913.6	449.4	3,521.1	928.2
3341191045	Plotters.....	20.8	125.4	(X)	15.6	185.6	210.4
3341191001	Computer keyboards.....	10,708.8	737.2	1,259.4	86.3	54,232.8	553.1
3341131001 003, 005, 007, 009, 011	Computer terminals.....	741.4	481.3	76.8	146.1	1,249.4	1,017.2
3341191049, 051	Monitors, CRT-type.....	3,038.2	1,004.3	847.6	329.4	37,786.0	7,058.9
3341191047, 053	Monitors, n.e.c.	202.1	401.6	315.0	235.7	11,423.2	2,682.8
3341191015, 017, 019, 021, 023, 027,	Optical scanning devices and magnetic strip and ink recognition equipment.....	5,381.3	1,665.0	665.4	407.9	11,736.3	997.6
3341191005, 009	Control devices.....	367.9	27.0	7,759.4	5,071.2	43,755.4	3,880.3
3341191007	Digitizers and light pens.....	(D)	(D)	135.5	58.4	364.9	9,343.8
3341191003, 011, 013, 025, 029, 041, 043, 055	Computer equipment, n.e.c.	12,457.8	2,601.0	1,370.9	479.9	70,920.0	512.1

Table 3. Shipments, Exports, Imports, and Apparent Consumption of Computing and Accounting Machines: 1999
[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
3333137000	Duplicating machines.....	(D)	(D)	28.4	16.8	39.0	63.1
3341197007	Point-of-sales terminals.....	(D)	(D)	61.6	77.8	1,334.3	323.5
3341191057, 3341194001, 334418A001, 003, 005, 007, 009, 011, 013	Parts, subassemblies, and accessories for computers and computer peripheral equipment.....	(NA)	33,685.1	(X)	16,888.0	(X)	30,623.4
3341197003, 015, 025	Coin or currency handling machines, n.e.c., including cash registers, accounting, bookkeeping, and billing.....	620.8	575.7	1,356.8	265.4	116,172.7	814.7
3333131000	Automatic typing and processing machines (all types).....	(D)	(D)	28.6	13	696.2	19.7
333313A001, 003, 005, 007,	Mailing, letter handling, and addressing machines.....	1,150.3	1,152.6	89.6	126.4	182.5	151.1
3345183131	Time recording and time stamping machines.....	341.7	125.4	81.9	13.2	154.3	12.0
333313D001, 003, 005, 007, 008, 009	Office machines, n.e.c.	19,776.8	547.8	2,025.0	167.0	19,754.9	522.5
3333136000	Parts for calculating, coin, or currency handling, and accounting machines.....	(X)	(D)	(X)	261.9	(X)	320.4
333313J000	Parts for office machines, n.e.c.	(X)	288.4	(X)	348.5	(X)	121.9
3346130111, 113, 211, 213, 611, 613, 615	Rigid, flexible, and optical disks.....	29,568.9	1,893.2	184,565.8	1,161.9	1,047,402.1	285.8
3346130411, 413, 415, 417, 419, 421, 501	Bulk and packaged magnetic tape.....	8,040.3	1,921.3	78,158	438.7	766,416.6	1,414.9
3346130617	Other magnetic recording media, including parts.....	(X)	35.9	147.8	291.4	832.0	1,050.8

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

1/For comparison of North American Industry Classification System-Based product codes with Schedule B export numbers and HTSUSA import numbers, 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-Based Product Codes with Schedule B Export Numbers, and HTSUSA Import Numbers: 1999

Product code	Product description	Export number 1/	Import number 2/
3341111001, 003, 005, 006, 007, 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
3341121001, 003, 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, 017, 019, 021, 023, 025, 027, 029, 031, 033, 035, 037	Computer storage devices and equipment, n.e.c.	8471.49.5060 8471.49.5080 8471.70.3000 8471.70.4095 8471.70.5095 8471.70.6000 8471.70.9000	8471.49.5060 8471.49.5080 8471.70.3000 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

Table 4. Comparison of North American Industry Classification System-Based Product Codes with Schedule B Export Numbers, and HTSUSA Import Numbers: 1999

Product code	Product description	Export number 1/	Import number 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
3341131000	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
		8471.60.4540	8471.60.4540
3341191047, 053	Monitors, n.e.c.	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, 021, 023, 025,	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-Based Product Codes with Schedule B Export Numbers, and HTSUSA Import Numbers: 1999

Product code	Product description	Export number 1/	Import number 2/
3341191007	Digitizers and light pens.....	9017.20.8040	9017.20.8040
3341191003, 011, 013, 025, 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	8471.49.1500 8471.49.4850 8471.49.4875 8471.49.4895 8471.49.9500 8471.60.9030 8471.60.9070 8471.60.9090
3333131000	Duplicating machines.....	8472.10.0000	8472.10.0000
3341197007	Point-of-sale terminals.....	8470.50.0020	8470.50.0020
334418A, 3341124001, 3341194001, 3341191057	Parts, subassemblies, and accessories for computers and computer peripheral peripheral equipment	8471.60.7040 8471.60.7080 8473.30.0000 8473.50.0000	8471.60.7040 8471.60.7080 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

Continued

Table 4. Comparison of North American Industry Classification System-Based Product Codes with Schedule B Export Numbers, and HTSUSA Import Numbers: 1999

Product code	Product description	Export number 1/	Import number 2/
3333131000	Automatic typing and word processing machines (all types)	8469.11.0000 8469.12.0000	8469.11.0000 8469.12.0000
333313A	Mailing, letter handling, and addressing machines.....	8470.90.0010 8472.20.0000 8472.30.0000	8470.90.0010 8472.20.0000 8472.30.0000
3345183131	Time recording and time stamping machines.....	9106.10.0000	9106.10.0000
333313D001, 003, 005, 007, 008, 009	Office machines, n.e.c.	8469.20.0020 8469.20.0040 8469.30.0020 8469.30.0040 8472.90.9050	8469.20.0020 8469.20.0040 8469.30.0020 8469.30.0040 8472.90.4000 8472.90.6000 8472.90.7000 8472.90.9550
3333136000	Parts for calculating, coin, or currency handling, and accounting machines.....	8473.21.0000 8473.29.0000	8473.21.0000 8473.29.0000
333313J000	Parts for office machines, n.e.c.	8473.10.0020 8473.10.0095 8473.40.0000	8473.10.4000 8473.10.6000 8473.10.9000 8473.40.1000 8473.40.6000 8473.40.9500
3346130111, 113, 211, 213, 611, 613, 615	Rigid, flexible, and optical disks.....	8523.20.0000	8523.20.0000
3346130411, 413, 415, 415, 417, 419, 213	Bulk and packaged magnetic tape.....	8523.11.0000 8523.12.0010 8523.12.0020 8523.12.0040 8523.12.0060 8523.13.0020 8523.13.0040 8523.13.0060 8523.13.0080	8523.11.0000 8523.12.0010 8523.12.0020 8523.12.0040 8523.12.0060 8523.13.0020 8523.13.0040 8523.13.0060 8523.13.0080

Continued

Table 4. Comparison of North American Industry Classification System-Based Product Codes with Schedule B Export Numbers, and HTSUSA Import Numbers: 1999

Product code	Product description	Export number 1/	Import number 2/
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: 1999 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 (1999).