

Computers and Office and Accounting Machines

1998

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(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 1998, manufacturers' shipments of computers were valued at \$57.3 billion, an increase from the 1997 total of \$50.2 billion. Shipments of computers increased from 20.9 million in 1997 to 24.0 million in 1998. Personal computers were valued at \$25.3 billion in 1998, compared to \$25.4 billion in 1997. Workstations were valued at \$9.8 billion in 1998, compared to \$5.4 billion in 1997. Notebooks were valued at \$5.7 billion in 1998, compared to \$4.7 billion in 1997. Loaded processor boards and subassemblies were valued at \$25.5 billion, compared to \$27.0 billion in 1997. Computer storage devices were valued at \$7.2 billion in 1998, compared to \$8.8 billion in 1997. Magnetic and optical recording media were valued at \$4.9 billion in 1998, compared to \$5.7 billion in 1997.

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

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Table 1. Value of Shipments of Computers and Office and Accounting Machines by Product Class: 1991 to 1998
[Millions of dollars]

Product code	Product description	1998		1997	1996	1995	1994	1993	1992	1991
3341110000	Electronic computer manufacturing 1/.....	57,347.2		50,249.9	50,681.5	49,038.1	38,260.7	29,659.1	28,571.2	26,274.1
3341111000	Host computers (multi-users).....	14,860.3	r/	12,240.0	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3541117000	Single user computers:.....	41,729.4	r/	36,987.5	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
334111D021	Other computers, including array, analog, hybrid, or special computers not listed above.....	757.6	r/	1,022.4	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
334418A000	Loaded computer processor boards and board subassemblies 2/.....	25,455.7	r/	27,040.2	24,937.3	24,447.7	17,514.8	15,087.1	13,745.8	12,590.4
3341121000	Computer storage devices and equipment	7,247.5		8,837.4	8,909.2	7,903.0	5,555.6	5,730.7	6,282.4	5,609.7
3341124001	Parts for computer storage devices and subassemblies.....	2,222.3	r/	2,382.3	1,719.9	2,235.6	1,951.9	1,496.4	1,357.1	780.4
3341131000	Computer terminals.....	529.4		781.4	1,103.9	1,086.0	1,243.5	1,531.3	1,707.9	1,729.5
3341134001	Parts for computer terminals.....	(D)		(D)	199.2	(D)	(D)	275.9	192.1	417.0
3341191000	Computer peripheral equipment, n.e.c.....	11,449.7		13,555.2	11,462.8	12,331.0	11,943.6	9,810.2	8,505.6	7,763.6
3341194001	Parts for input/output equipment.....	2,631.4		2,627.9	5,504.8	2,391.0	2,498.7	2,554.3	3,053.2	4,186.9
3341197	Calculating and accounting machines	1,060.4		1,621.9	1,485.0	1,278.9	1,261.5	1,454.2	967.5	973.5
3333136000	Parts for calculating, coin, or currency handling, and accounting machines.....	126.5		127.5	82.9	106.1	86.7	77.7	73.4	97.4
3333131000	Automatic typing and word processing machines.....	(D)		(D)	(D)	(D)	(D)	342.9	465.2	417.1
3333137000	Duplicating machines.....	(D)		(D)	59.9	(D)	68.4	(D)	(D)	(D)
333313A000	Mailing, letter-handling, and addressing machines.....	987.2		1,397.9	1,230.6	1,280.1	967.5	1,267.8	1,152.4	1,124.8
333313D000	Check handling, electric stapling and dictating machines, typewriters, and all other office machines, n.e.c.....	646.0		609.8	579.7	577.7	664.0	(D)	(D)	517.6
333313J000	Parts for office machines, n.e.c.....	336.2		439.4	454.4	440.3	359.6	344.7	263.3	199.2
3346130000	Magnetic and optical recording media.....	4,868.6	r/	5,739.1	5,739.1	5,106.2	4,777.1	4,483.3	4,336.8	3,894.4

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: 1998 and 1997
[Quantity in number of units. Value in thousands of dollars]

Product code	Product description	No. of cos.	1998		1997	
			Quantity	Value	Quantity	Value
3341111	Electronic computer manufacturing.....	141	24,005,974	57,347,226	20,911,518	50,249,861
	Host computers (multi-users):					
3341111001	Large scale systems, including mainframes and super computers.....	14	752,517	5,216,509	r/ 297,237	r/ 5,459,764
3341111003	Medium-scale systems and unix servers.....	34	656,924	6,807,970	r/ 856,181	r/ 5,281,330
3341111005	Personal computer servers 1/.....	20	(D)	(D)	r/ 235,910	r/ 1,206,512
3341111006	Other host computers 1/.....	6	(D)	(D)	33,077	292,427
	Single user computers:					
3341117007	Personal computers.....	45	16,480,780	25,267,321	r/ 15,232,652	r/ 25,366,629
3341117009	Workstations.....	32	717,179	9,794,459	r/ 484,620	r/ 5,387,770
3341117011	Laptops (AC/DC)	13	307,954	647,926	502,944	1,256,546
3341117013	Notebooks, subnotebooks (battery operated).....	13	2,422,268	5,696,204	1,887,441	4,697,793
3341117015	Personal digital assistants 2/.....	3	69,374	47,546	(D)	(D)
3341117017	Other portable computers 2/.....	6	223,378	162,776	(D)	(D)
3341117019	Other single user computers	5	205,916	113,167	176,859	112,022
334111D021	Other computers, including array, analog, hybrid or special purpose computers not included above.....	39	1,715,991	757,571	1,009,085	r/ 1,022,373
334418A	Printed circuit assemblies (loaded boards, subassemblies, and modules) 3/.....	792	(X)	25,455,728	(X)	27,040,174
	Loaded computer processor boards and board subassemblies:					
334418A001	Computer and peripheral printed board assemblies	324	(X)	12,209,910	(X) r/	12,455,073
334418A003	Communications printed board assemblies	246	(X)	5,233,837	(X) r/	4,625,398
334418A005	Industrial process control board assemblies	220	(X)	787,762	(X) r/	615,545
334418A007	Instrumentation printed board assemblies (except industrial)	193	(X)	1,447,171	(X)	3,419,520
334418A009	Search and detection printed board assemblies	47	(X)	54,488	(X) r/	45,172
334418A011	Consumer electronics printed board assemblies	135	(X)	466,588	(X)	520,360
334418A013	Other electronics, printed board assemblies including office equipment and point of sales	320	(X)	5,255,972	(X) r/	5,359,106
3341121	Computer storage devices and equipment.....	90	(X)	7,247,524	(X)	8,837,380
	Rigid magnetic disk drives:					
3341121001	Less than 2 1/2 inches 4/.....	1	(D)	(D)	(D)	(D)
3341121003	2 1/2 inches up to, but not including, 3 1/2 inches 4/.....	4	(D)	(D)	(D)	(D)
3341121005	3 1/2 inches up to, but not including, 5 1/4 inches.....	23	1,045,024	1,992,830	1,293,513	r/ 1,781,878
3341121007	5 1/4 inches and greater 4/.....	6	(D)	(D)	(D)	(D)
3341121009	Disk subsystems and disk arrays for multiuser computer systems.....	25	169,479	732,194	323,002	r/ 1,197,901
3341121011	Flexible magnetic disk drives.....	7	(D)	(D)	(D)	(D)
	Optical disk drives, including CD-ROM and magneto-optical equipment:					
	CD-ROM:					
	"Juke-box" capable of handling multiple disks 5/.....	8	152,332	42,436	(D)	(D)
3341121015	Single-disks equipment 5/.....	7	9,056	11,248	(D)	(D)
3341121017	WORM (write once, read many times) 6/.....	4	(D)	(D)	(D)	(D)
3341121019	Rewritable 6/.....	7	(D)	(D)	(D)	(D)
3341121021	Optical subsystems for multiusers computer systems.....	7	13,987	219,439	15,755	220,431
	Auxiliary storage, not disk or tape-based for multiuser computer systems:					
3341121023	Encased or enclosed in a housing, enclosure, or cabinet 7/.....	11	(D)	(D)	(D)	(D)

Continued

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

Product code	Product description	No. of cos.	1998		1997	
			Quantity	Value	Quantity	Value
3341121025	Other 7/.....	4	(D)	(D)	(D)	(D)
3341121027	Other direct access storage equipment.....	12	133,851	177,173	r/ 95,082	177,931
	Serial-access storage equipment (e.g. tape drives):					
3341121029	1/2 inch tape drives.....	11	463,088	1,530,676	461,481	1,515,458
3341121031	1/4 inch tape drives.....	12	525,158	104,697	1,555,833	269,198
3341121033	Helical scan tape drives.....	11	207,488	386,985	232,894	396,441
3341121035	Cassette tape drives.....	5	(D)	(D)	(D)	(D)
3341121037	Other serial access storage equipment.....	9	1,120,048	460,975	(D)	(D)
3341124001	Computer storage parts and subassemblies.....	18	(X)	2,222,292	(X)	2,382,338
3341113	Computer terminals.....	47	(X)	529,422	(X)	781,419
3341131001	Remote batch terminals.....	6	a/ 27,981	38,730	a/ 21,619	30,514
3341131003	Teleprinters.....	7	19,982	a/ 30,567	34,620	a/ 60,565
	Display terminals, including graphics type whether or not incorporating a printing mechanism:					
3341131005	X-terminals.....	10	292,876	174,927	269,399	240,931
	Other than X-terminals:					
3341131007	13-inch or less display.....	7	46,983	28,124	50,080	80,550
3341131009	More than 13-inch but less than 19-inch display.....	18	a/ 406,098	a/ 228,960	a/ 656,329	a/ 335,426
3341131011	19-inch or more display.....	8	b/ 6,616	b/ 28,114	b/ 9,237	b/ 33,433
3341134001	Computer terminal parts and subassemblies.....	9	(X)	(D)	(X)	(D)
3341119	Computer peripheral equipment, n.e.c.	253	(X)	11,449,673	(X)	13,555,223
	Keying equipment:					
3341191001	Keyboards.....	25	15,330,926	750,787	a/ 14,254,027	a/ 612,778
3341191003	Other keying equipment.....	3	(D)	(D)	(D)	(D)
3341191005	Mouse devices.....	11	493,397	9,467	1,138,707	18,023
3341191007	Digitizers and light pen tablets.....	8	99,419	45,015	551,647	123,967
3341191009	Other manual input devices (joysticks, trackballs, touchscreens, etc.).....	11	b/ 345,537	a/ 33,983	a/ 541,268	48,876
3341191011	Computer output to microfilm (COM) equipment.....	5	1,098	70,081	(D)	(D)
3341191013	Media copying and/or conversion equipment.....	9	a/ 11,395	56,133	14,522	59,390
	Optical scanning devices:					
3341191015	Bar code devices.....	27	3,265,489	a/ 873,056	2,510,694	a/ 909,943
3341191017	OCR equipment.....	11	35,091	210,022	31,515	243,408
	Other than bar code or OCR devices:					
3341191019	Flat bed scanners.....	4	(D)	(D)	(D)	(D)
3341191021	Hand-held scanners.....	4	59,817	69,760	46,476	52,968
3341191023	Other.....	17	117,909	171,466	379,123	170,837
3341191025	Voice recognition equipment.....	6	54,053	32,346	52,713	33,856
3341191027	Magnetic strip and ink recognition equipment.....	10	b/ 305,837	a/ 213,616	(D)	(D)
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	217,926	290,719	255,680	303,334
3341191033	Serial type (typically with a serial and/or parallel interface with output measured in characters per second).....	27	a/ 297,043	b/ 174,823	573,259	b/ 231,229
	Nonimpact printers:					
3341191035	Laser.....	35	2,504,046	2,383,747	2,427,255	2,547,687
3341191037	Inkjet.....	15	8,861,789	1,223,452	7,486,107	1,511,483
3341191039	Other (thermal, ion deposition, etc.).....	23	a/ 200,748	312,250	1,292,218	507,260
3341191041	Peripheral sharing devices.....	12	a/ 297,300	a/ 98,629	a/ 191,190	b/ 74,842
3341191043	Font cartridges.....	3	10,798,199	95,725	(D)	(D)
3341191045	Plotters, including electrostatic.....	13	b/ 22,498	b/ 127,892	b/ 37,740	b/ 217,440
	Monitors, excluding terminals:					
3341191047	Flat panel displays.....	7	325,564	77,766	(D)	(D)
	Other than flat panel displays:					
3341191049	Less than 19-inch display.....	21	(D)	(D)	(D)	(D)
3341191051	19-inch or more display.....	9	281,863	237,831	232,940	181,241

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Product code	Product description	No. of cos.	1998		1997	
			Quantity	Value	Quantity	Value
3341191053	Monitor screen projection devices (e.g. LCD panels).....	8	(D)	(D)	(D)	(D)
3341191055	All other input/output devices.....	58	(X)	1,631,020	(X)	1,264,627
3341191057	Accessories for computer peripherals (e.g. device supports, ergonomic aids, etc.).....	35	(X)	1,155,342	(X)	2,380,048
3341194001	Parts and subassemblies for computer peripherals and input/output equipment.....	73	(X)	2,631,443	(X)	2,627,863
3341197	Calculating and accounting machines.....	43	(X)	1,060,422	(X)	1,621,866
3341197003	Funds transfer devices 8/.....	7	(D)	(D)	(D)	(D)
3341197007	Point-of-sale terminals 8/.....	24	(D)	(D)	(D)	(D)
3333134015	Machines for sorting, wrapping, counting, changing or dispensing coins and/or currency.....	10	555,090	b/ 244,695	489,935	b/ 237,068
3333134025	Other coin or currency handling machines, including cash registers, calculators, accounting, bookkeeping, and billing machines, and credit card im printers.....	12	(X)	b/ 75,083	(X)	b/ 83,123
3333136000	Parts for calculating, coin or currency handling and accounting machines	11	(X)	126,456	(X)	127,535
3333131000	Automatic typing and word processing machines (all types).....	2	(D)	(D)	(D)	(D)
3333137000	Duplicating machines.....	5	(D)	(D)	(D)	(D)
333313A	Mailing, letter handling, and addressing machines.....	31	(X)	987,209	(X)	1,397,911
333313A001	Forms handling equipment, including bursters, decollators, and im printers.....	8	525,647	40,013	396,022	46,220
333313A003	Mailing machines, including postage franking machines 9/.....	6	(D)	(D)	(D)	(D)
333313A005	Letter and envelope handling machines.....	11	16,483	298,998	19,623	307,577
333313A007	Other mailing, letter handling and addressing machines 9/.....	9	(D)	(D)	(D)	(D)
333313D	All other office machines, n.e.c.	44	(X)	645,978	(X)	609,761
333313D001	Check handling machines.....	8	b/ 17,206	38,087	24,725	56,998
333313D003	Electric stapling machines, office type.....	4	459,568	15,267	385,414	12,493
3345183131	Time recording and time stamp machines.....	10	330,675	117,796	326,246	115,015
333313D005	Paper cutting machines and apparatus office type	4	772,601	26,071	589,755	19,415
333313D007	Paper shredders.....	2	(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.....	23	(X)	358,652	(X)	333,441
333313J000	Parts for office machines, n.e.c.	29	(X)	336,222	(X)	439,384
334613	Magnetic and optical recording media.....	69	(X)	4,868,561	(X)	5,739,079
	Rigid disks:					
3346130111	Less than 2 1/2 inches 10/.....	1	(D)	(D)	(D)	(D)
3346130113	2 1/2 inches up to, but not including 3 1/2 inches 10/	6	(D)	(D)	(D)	(D)
3346130211	3 1/2 inches up to, but not including 5 1/4 inches.....	10	34,594,640	933,559	27,578,759	1,254,852
3346130213	5 1/4 inches and greater 10/.....	4	(D)	(D)	(D)	(D)
	Flexible disks:					
3346130611	3 1/2 inches up to, but not including 5 1/4 inches.....	15	1,439,279	753,544	2,762,167	721,674
3346130613	5 1/4 inches and greater.....	7	b/ 29,966	a/ 11,791	b/ 128,467	b/ 17,893
3346130615	Optical disks	14	329,003	567,868	250,883	566,384
3346130501	Bulk magnetic tape.....	6	639,243	62,462	133,925	29,399

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

Product code	Product description	No. of cos.	1998		1997	
			Quantity	Value	Quantity	Value
	Packaged magnetic tape:					
3346130411	In reels for computer use.....	5	(D)	(D)	(D)	(D)
3346130413	In cassette and cartridge for computer use.....	16	485,674	936,482	478,540	923,777
3346130415	In forms suitable for audio use.....	10	560,891	279,868	483,970	332,702
3346130417	In video cassette, 8-mm and 1/2 inch.....	15	609,145	688,209	755,300	868,228
3346130419	In video cassette, 3/4 (19-mm) and 2-inch (51-mm).....	3	11,784	36,911	18,234	93,618
3346130421	Other package magnetic tape.....	3	84,497	203,767	199,452	363,624
3346130617	Other magnetic recording media, including parts.....	17	(X) b/	80,676	(X) b/	215,992
	Nonmanufacturing revenue of manufacturing establishments:					
4216900000	Supplies and accessories for use with computers or business machines (resales).....	48	(X)	1,597,866	(X)	1,463,167
9999980000	Research and development, testing and evaluation of systems and components.....	14	(X)	138,745	(X)	96,435
	Software sold with computer systems shipped by manufacturers:					
3346110001	Operating system software.....	12	(X)	65,305	(X)	94,358
3346110002	Utilities and device managers.....	10	(X)	1,443	(X)	2,696
3346110003	Application software.....	36	(X)	392,543	(X)	366,698
3346110004	Other software	9	(X)	55,981	(X)	66,031
5415120000	Systems integration revenues, including configuration, installation and site preparation, and custom programming.....	23	(X)	426,518	(X)	410,396
5415190000	Other nonmanufacturing revenues associated with computer systems.....	67	(X)	1,938,433	(X)	1,779,719

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 453,693 for quantity and 2,835,777 for shipments for 1998.

2/Product codes 3341117015 and 3341117017 have a combined total of 195,512 for quantity and 166,695 for shipments for 1997.

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 3341121001, 3341121003, and 3341121007 have a combined total of 64,264 for quantity and 221,065 for shipments for 1998, and 99,714 for quantity and 363,574 for shipments for 1997.

5/Product codes 3341121013 and 3341121015 have a combined total of 1,881,032 for quantity and 823,982 for shipments for 1997.

6/Product codes 3341121017 and 3341121019 have a combined total of 680,569 for quantity and 246,472 for shipments for 1998, and 865,077 for quantity and 331,853 for shipments for 1997.

7/Product codes 3341121023 and 3341121025 have a combined total of 339,164 for quantity and 361,067 for shipments for 1998, and 575,022 for quantity and 347,584 for shipments for 1997.

8/Product codes 3341197003 and 3341197007 have a combined total of 234,039 for quantity and 740,644 for shipments for 1998, and 368,825 for quantity and 1,301,675 for shipments for 1997.

9/Product codes 333313A003 and 333313A007 have a combined total of 488,721 for quantity and 648,198 for shipments for 1998, and 578,680 for quantity and 1,044,114 for shipments for 1997.

10/Product codes 3346130111, 3346130113, and 3346130213 have a combined total of 124,963 for quantity and 275,900 for shipments for 1998, and 71,705 for quantity and 194,400 for shipments for 1997.

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

Table 3. Shipments, Exports, Imports, and Apparent Consumption of Computing and Accounting Machines: 1998
[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 3341111003 3341111005 3341111006 3341117007 3341117009 3341117011 3341117013 3341117015 3341117017 3341117019 334111D021	Computers, digital, analog, hybrid, and other.....	24,006.0	57,347.2	3,982.1	8,384.2	6,385.9	7,344.1
3341121011	Flexible magnetic disk drives.....	(D)	(D)	500.5	86.2	41,802.3	999.1
3341121001 3341121003 3341121005 3341121007 3341121009	Rigid magnetic disk drives, including disk subsystems and disk arrays.....	1,278.8	2,946.1	3,717.7	1,700.4	73,433.6	13,782.0
3341121013 3341121015 3341121017 3341121019 3341121021 3341121023 3341121025 3341121027 3341121029 3341121031 3341121033 3341121035 3341121037	Computer storage devices and equipment, n.e.c.	3,728.1	3,590.8	1,781.8	1,609.0	48,910.0	3,597.0
3341191035	Laser computer printers.....	2,504.1	2,383.7	986.2	592.7	3,889.1	1,747.7
3341191037	Inkjet computer printers.....	8,861.8	1,223.4	1,529.5	385.9	15,758.3	1,993.4
3341191031 3341191033 3341191039	Computer printers, n.e.c.....	715.7	777.8	870.0	439	3,550.7	919.6
3341191001	Computer keyboards.....	15,330.9	750.8	1,806.0	98.8	51,432.0	580.4
3341131000	Computer terminals.....	800.5	529.4	74.1	127.1	1,119.2	869.9
3341191049 3341191051	Monitors, CRT-type.....	2,789.6	1,040.7	863.6	370.8	33,157.7	6,989.6
3341191047 3341191053	Monitors, n.e.c.	75.6	313.3	340.7	231.1	1,864.3	790.2
3341191015 3341191017 3341191019 3341191021 3341191023 3341191025	Optical scanning devices and magnetic strip and ink recognition equipment.....	3,803.8	1,585.4	578.8	358.1	8,716.7	903.5

Continued

Table 3. Shipments, Exports, Imports, and Apparent Consumption of Computing and Accounting Machines: 1998
[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
3341191005 3341191009	Control devices.....	838.9	43.4	127,446.3	82,271.9	3,232.3	384.6
3341191007	Digitizers and light pens.....	99.4	45.0	199.5	62.5	204.9	11,869.7
3341191003 3341191011 3341191013 3341191025 3341191029 3341191041 3341191043 3341191045 3341191055	Computer equipment, n.e.c.	11,208.6	2,130.7	1,391.0	495.1	65,141.4	452.2
3333137000	Duplicating machines.....	(D)	(D)	51.1	21.7	30.8	58.1
3341197007	Point-of-sales terminals.....	(D)	(D)	60.8	80.2	1,075.3	256.7
334418A 3341124001 3341194001 3341191057	Parts, subassemblies, and accessories for computers and computer peripheral equipment.....	(X)	29,242.5	(X)	17,135.4	(X)	26,827.8
3341197003 3333134015 3333134025	Coin or currency handling machines, n.e.c., including cash registers, accounting, bookkeeping, and billing.....	586.9	598.5	1,093.2	235.3	102,899.3	1,177.1
3333131000	Automatic typing and processing machines (all types).....	(D)	(D)	43.9	17.5	20,355.5	32.9
333313A	Mailing, letter handling, and addressing machines.....	1,030.9	987.2	130.4	124.7	316.9	191.3
3345183131	Time recording and time stamping machines.....	330.7	117.8	101.6	12.2	138.7	6.6
333313D001 333313D003 333313D005 333313D007 333313D008 333313D009	Office machines, n.e.c.	12,432.7	528.2	2,596.8	206.0	61,926.2	834.2
3333136000	Parts for calculating, coin, or currency handling, and accounting machines.....	(X)	126.5	(X)	390.8	(X)	283.9
333313J000	Parts for office machines, n.e.c.	(X)	336.2	(X)	321.0	(X)	119.8
3346130111 3346130113 3346130211 3346130213 3346130611 3346130613 3346130615	Rigid, flexible, and optical disks	36,517.9	2,542.7	205,970.5	1,414.8	1,048,554.9	243.4

Continued

Table 3. Shipments, Exports, Imports, and Apparent Consumption of Computing and Accounting Machines: 1998
[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
3346130411 3346130413 3346130415 3346130417 3346130419 3346130421	Bulk and packaged magnetic tape.....	2,394.3	2,245.2	78,630	507.1	786,707.6	1,605,672.8
3346130617	Other magnetic recording media, including parts.....	(X)	80.7	186.4	275.5	1,064.0	797.8

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-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: 1998

Product code	Product description	Export number 1/	Import number 2/
3341111001	Computers, digital, analog, hybrid, and other.....		
3341111003		8471.10.0000	8471.11.0000
3341111005		8471.30.0000	8471.30.0000
3341111006		8471.41.0035	8471.41.0035
3341117007		8471.41.0065	8471.41.0065
3341117009		8471.41.0095	8471.41.0095
3341117011		8471.49.1035	8471.49.1035
3341117013		8471.49.1065	8471.49.1065
3341117015		8471.49.1095	8471.49.1095
3341117017		8471.50.0035	8471.50.0035
3341117019		8471.50.0065	8471.50.0065
334111D021		8471.50.0085	8471.50.0085
			8471.50.8095
3341121011	Flexible magnetic disk drives.....	8471.49.5020	8471.49.5020
		8471.70.4035	8471.70.4035
		8471.70.5035	8471.70.5035
3341121001	Rigid magnetic disk drives, including disk subsystems and disk arrays.....		
3341121003		8471.49.5010	8471.49.5010
3341121005		8471.49.5040	8471.49.5040
3341121007		8471.70.1000	8471.70.1000
3341121009		8471.70.2000	8471.70.2000
		8471.70.3000	8471.70.3000
		8471.70.4065	8471.70.4065
		8471.70.5065	8471.70.5065
3341121013	Computer storage devices and equipment, n.e.c.		
3341121015		8471.49.5060	8471.49.5060
3341121017		8471.49.5080	8471.49.5080
3341121019		8471.70.4095	8471.70.4095
3341121021		8471.70.5095	8471.70.5095
3341121023		8471.70.6000	8471.70.6000
3341121025		8471.70.9000	8471.70.9000
3341121027			
3341121029			
3341121031			
3341121033			
3341121035			
3341121037			
3341191035	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
		8471.60.6200	8471.60.6200

Table 4. Comparison of North American Industry Classification System-Based Product Codes with Schedule B Export Numbers, and HTSUSA Import Numbers: 1998

Product code	Product description	Export number 1/	Import number 2/
3341191037	Inkjet computer printers.....	8471.49.3400 8471.60.5400 8471.60.6400	8471.49.3400 8471.60.5400 8471.60.6400
3341191031	Computer printers, n.e.c.	8471.49.3300	8471.49.3300
3341191033		8471.49.3500	8471.49.3500
3341191039		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
3341191001	Computer keyboards.....	8471.49.2100 8471.60.2000	8471.49.2100 8471.60.2000
3341131000	Computer terminals.....	8471.60.3000	8471.60.3000
3341191049	Monitors, CRT-type.....	8471.49.2600	8471.49.2600
3341191051		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	Monitors, n.e.c.	8471.49.2400	8471.49.2400
3341191053		8471.49.2900	8471.49.2900
		8471.60.1095	8471.60.1095
		8471.60.4580	8471.60.4580
3341191015	Optical scanning devices and magnetic		
3341191017	strip and ink recognition equipment.....	8471.49.4200	8471.49.4200
3341191019		8471.60.8000	8471.60.8000
3341191021			
3341191023			
3341191025			

Table 4. Comparison of North American Industry Classification System-Based Product Codes with Schedule B Export Numbers, and HTSUSA Import Numbers: 1998

Product code	Product description	Export number 1/	Import number 2/
3341191005	Control devices.....	8471.49.6000	8471.49.6000
3341191009		8471.80.1000	8471.80.1000
3341191007	Digitizers and light pens.....	9017.72.8040	9017.72.8040
3341191003	Computer equipment, n.e.c.	8471.49.1500	8471.49.1500
3341191011		8471.49.4850	8471.49.4850
3341191013		8471.49.4875	8471.49.4875
3341191025		8471.49.4895	8471.49.4895
3341191029		8471.49.6000	8471.49.6000
3341191041		8471.49.9000	8471.49.9500
3341191043		8471.60.9030	8471.60.9030
3341191045		8471.60.9070	8471.60.9070
3341191055		8471.60.9090	8471.60.9090
334418A	Parts, subassemblies, and accessories		
3341124001	for computers and computer peripheral		
3341194001	peripheral equipment	8471.60.7040	8471.60.7040
3341191057		8471.60.7080	8471.60.7080
		8473.33.0000	8473.30.1000
		8473.50.0000	8473.30.2000
			8473.30.3000
			8473.30.5000
			8473.30.6000
			8473.30.9000
			8473.50.3000
			8473.50.6000
			8473.50.9000
3333131000	Duplicating machines.....	8472.10.0000	8472.10.0000
3341197007	Point-of-sale terminals.....	8470.50.0020	8470.50.0020
3341197003	Coin or currency handling machines,		
3333134015	n.e.c., including cash registers,		
3333134025	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
		8472.90.1000	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: 1998

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 8472.23.0000	8470.90.0010 8472.20.0000 8472.30.0000
3345183131	Time recording and time stamping machines.....	9106.10.0000	9106.10.0000
333313D001	Office machines, n.e.c.	8469.20.0020	8469.20.0020
333313D003		8469.20.0040	8469.20.0040
333313D005		8469.30.0020	8469.30.0020
333313D007		8469.30.0040	8469.30.0040
333313D008		8472.90.9050	8472.90.4000
333313D009			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	8473.40.1000 8473.40.6000 8473.40.9500
3346130111	Rigid, flexible, and optical disks.....	8523.20.0000	8523.20.0000
3346130113			
3346130211			
3346130213			
3346130611			
3346130613			
3346130615			
3346130411	Bulk and packaged magnetic tape.....	8523.11.0000	8523.11.0000
3346130413		8523.12.0010	8523.12.0010
3346130415		8523.12.0020	8523.12.0020
3346130417		8523.12.0040	8523.12.0040
3346130419		8523.12.0060	8523.12.0060
3346130213		8523.13.0020	8523.13.0020
		8523.13.0040	8523.13.0040
		8523.13.0060	8523.13.0060

Table 4. Comparison of North American Industry Classification System-Based Product Codes with Schedule B Export Numbers, and HTSUSA Import Numbers: 1998

Product code	Product description	Export number 1/	Import number 2/
		8523.13.0080	8523.13.0080
3346130617	Other magnetic recording media, including parts.....	8522.10.0000 8522.90.0010 8522.90.0090 8523.90.0000	8522.10.0000 8522.90.7540 8522.90.7580 8523.90.0000

n.e.c. Not elsewhere classified.

1/Source: 1998 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 (1998).