U.S. International Trade Commission

Washington, DC 20436 www.usitc.gov

Shifts in U.S. Merchandise Trade 2003

Investigation No. 332-345



This report was prepared principally by the Office of Industries

Project Team

Heather Sykes, *Project Leader* heather.sykes@usitc.gov (202) 205-3436

Judith-Anne Webster, Assistant Project Leader

Primary Reviewers

Joanna Bonarriva, Office of Industries

Nannette Christ, Office of Economics

with assistance from:

Diane Bennett, Judith Bryant, Joanne Guth, Sharon Greenfield, Thomas Jennings, Magda Kornis, Diane Manifold, Monica Reed, Wanda Tolson, Janice Wayne, and authors from the Office of Industries as noted throughout the report

Peg MacKnight, Office of Operations

Office of Publishing

Office of Information Services:

Mara Alexander, Barbara Bobbitt, Harold Brown, Barbara Bryan, Lita David-Harris,
Kenneth R. Kozel, Darlene Smith, and Peggy Verdine

under the direction of
David Lundy, Chief
Industrial Minerals and Nonferrous Metals Branch

Larry Brookhart, Chief
Minerals, Metals, Machinery, and Miscellaneous Manufactures Division

UNITED STATES INTERNATIONAL TRADE COMMISSION'S Shifts in U.S. Merchandise Trade 2003

Shifts in U.S. Merchandise Trade 2003 is the most recent of this series of reports, issued annually in July, that responds to Congressional interest in providing a systematic means of examining and reporting on the significance of major trade shifts, by product and with leading U.S. trade partners.

A major part of this report is a series of online web-pages that are maintained by the Commission. These web pages can be accessed through www.usitc.gov/tradeshifts/default.htm.

Shifts in U.S. Merchandise Trade 2003 includes:

• An analysis of U.S. merchandise trade performance

Sector shifts:

- Agricultural Products
- Forest Products
- Chemicals and Related Products
- Energy-Related Products
- Textiles, Apparel, and Footwear
- Minerals and Metals
- Machinery
- Transportation Equipment
- Electronic Products
- Miscellaneous Manufactures

Country shifts:

- Canada
- China
- European Union
- Japan
- Mexico
- FAQs

For questions or comments on this information, please contact Heather Sykes, project leader, at (202) 205-3436 or *heather.sykes@usitc.gov*.

	÷		

U.S. Merchandise Trade Performance

Linda White (202) 205-3427 linda.white@usitc.gov

During 2003, U.S. total merchandise trade (exports plus imports) increased by \$117 billion (by about 7 percent) to \$1.9 trillion, after decreasing for 2 consecutive years. U.S. total merchandise trade represented 73 percent of total U.S. combined trade (exports plus imports of merchandise and services)¹ and 17 percent of nominal U.S. gross domestic product. Although exports and imports rose, the U.S. merchandise trade deficit expanded from \$525.2 billion in 2002, to \$598.7 billion in 2003, as imports increased more than export growth.²

Economic activity improved for the United States and many of its trading partners in 2003, which contributed to increased U.S. exports and imports.³ U.S. economic growth in the first few months of 2003 was constrained, however, by vestiges of 2002, such as corporate governance scandals, capital overhang,⁴ and uncertainties associated with the war in Iraq. During the spring, household spending started to rebound as military action in Iraq became decisive and equity markets rallied. However, businesses remained cautious as capital investment remained weak and private payroll employment continued to decline. About midway through the year, the Federal Reserve—concerned by the continued slow pace of economic activity and further reduction in the rate of inflation from an already low level—cut the federal funds rate to 1 percent.⁵ The Jobs and Growth Tax Relief Reconciliation Act (JGTRRA), signed into law earlier in the year, also became effective and contributed to economic recovery by boosting disposable personal income through accelerated tax reductions originally scheduled to become effective during

¹ Total U.S. combined trade increased by \$153 billion (6 percent) during 2003 to \$2.6 trillion, according to statistics of the U.S. Department of Commerce (USDOC).

² The causes and implications of trade deficits have been a subject of much debate. Articles that discuss this issue include U.S. International Trade Commission, *The Impact of Trade Agreements* (Inv. No. TA-2111-1), USITC publication 3621, Aug. 2003; *The Federal Reserve Bank of Chicago-Detroit FedPoints*, "The Upside of Trade Deficits," Sept.-Oct. 2000, found at http://www.chicagofed.org/publications/index.cfm; The U.S. Trade Deficit: Causes, Consequences, and Recommendations for Action, Washington, DC: U.S. Trade Deficit Review Commission, Nov. 14, 2000; Pingfan Hong, "Global Implications of the U.S. Trade Deficit Adjustment," UN/DESA Discussion Paper No. 17, Feb. 2001 and Stefan Papaioannou; Daniel T. Griswold, "The U.S. Trade Deficit and Jobs: The Real Story," Center for Trade Policy Studies Free Trade Bulletin No. 3, Cato Institute, Feb. 2003; and Robert E. Scott, "Fast Track to Lost Jobs: Trade Deficits and Manufacturing Decline are the Legacy of NAFTA and the WTO," Economic Policy Institute Briefing Paper, found at http://www.epinet.org/briefingpapers/118/bp118.pdf, retrieved May 13, 2004.

³ Information on the economic background for U.S. merchandise trade performance in 2003 was principally derived from USDOC, BEA, *Survey of Current Business*, Mar. 2004, pp. D-2 to D-7; Council of Economic Advisors, *Economic Report of the President*, together with the *Annual Report of the Council of Economic Advisers*, Feb. 2004, pp. 17-103; Federal Reserve Board of Governors, *Monetary Policy Report to the Congress*, Feb. 11, 2004; and OECD, "General Assessment of the Macroeconomic Situation," and "United States," *OECD Economic Outlook* (Paris: OECD, Dec. 2003), pp. 1-42.

⁴ Capital overhang is related to capital investment, and refers to the amount of equipment firms have on hand that exceeds the amount of equipment needed for profitable use. See Office of the President, *Economic Report of the President*, (Washington D.C.: GPO, Feb. 2004), p. 35.

⁵ Federal Reserve Board, *Monetary Policy Report to the Congress*, Sec. 1: Monetary Policy and the Economic Outlook, Feb. 11, 2004, p. 1.

2004-2008.⁶ JGTRRA also improved the investment environment for businesses by increasing the immediate deduction amount from \$25,000 to \$100,000 for small business investments.⁷ For all businesses, JGTRRA increased the first-year bonus depreciation deduction from 30 percent to 50 percent for investments placed in service between May 5, 2003 and January 1, 2005.⁸ By year end, economic growth had accelerated and posted an estimated 3.1-percent increase in real gross domestic product.⁹

According to the Federal Reserve Board, aggregate consumer spending was an important source of support for economic growth, facilitated by lower interest rates and higher disposable income, which was enhanced by the midyear tax relief. As in the previous year, low interest rates continued to stimulate household spending on durable goods and mortgage refinancing, with the extra equity used to support other purchases. Motor vehicle consumption remained strong, sustained by low interest rates and incentive packages offered by manufacturers throughout the year. ¹⁰ Furniture and household equipment also recorded increased sales, likely induced by the growth in home sales. ¹¹

As the overall economy showed signs of gaining momentum, many businesses began to accelerate purchases of information processing equipment and software.¹² Spending on defense also contributed to increased economic activity.¹³ The combination of sustained efforts by businesses to control production costs over the past several years and growing demand in the last half of 2003 reportedly generated increased productivity, higher profits, and improved cash flow,¹⁴ which likely improved the environment for new investments. Further, additional impetus supporting increased investment spending was attributable to continued low interest rates, improved equity values, and the enhanced partial-expensing tax provision of the tax relief act.¹⁵ The U.S. dollar weakened against the currencies of many U.S. trading partners that experienced economic growth during 2003, and this contributed to an improving position of U.S. merchandise in the world market.

⁶ Most people started receiving tax savings benefits shortly after the effective date as employers generally reduced the amount of taxes withheld from their employee's paychecks, reflecting lower taxes and larger standard deductions for married couples. Also, the Internal Revenue Service paid in advance the increased Child Tax Credit based on the child tax credit claim filed in 2002 tax returns. See "New Law's Tax Cuts Mean Extra Cash Now," The News Room, Internal Revenue Service, found at

http://www.irs.ustreas.gov/newsroom/article/0%2C%2Cid=109816..., retrieved May 6, 2004.

⁷ U.S. Department of Treasury, Office of Public Affairs, "Tax Provisions of the Jobs and Growth Tax Relief Reconciliation Act of 2003," found at http://www.ustreas.gov/press/releases/js408.htm, retrieved May 6, 2004.

⁸ Ibid

⁹ U.S. Department of Commerce, Bureau of Economic Analysis, Survey of Current Business, Mar. 2004, p. D-2.

¹⁰ During 2002-03, U.S. personal consumption expenditures on motor vehicles and parts increased by \$18.2 billion (4 percent) to \$441.5 billion. See U.S. Department of Commerce, Bureau of Economic Analysis, Survey of Current Business, Mar. 2004, p. D-11.

¹¹ Investments in single family homes increased by \$22.4 billion (9-percent) to \$269.3 billion in 2003. See U.S. Department of Commerce, Bureau of Economic Analysis, *Survey of Current Business*, Mar. 2004, p. D-40.

¹² Investments in information processing equipment and software increased by \$63.4 billion (14 percent) to \$522.7 billion in 2003. See U.S. Department of Commerce, Bureau of Economic Analysis, *Survey of Current Business*, Mar. 2004, p. D-40.

¹³ In 2003, real defense expenditures on durable and nondurable goods rose by an estimated \$1.6 billion (almost 5-percent) to \$37 billion. See U.S. Department of Commerce, Bureau of Economic Analysis, *Survey of Current Business*, Mar. 2004, p. D-29.

¹⁴ The Federal Reserve Board, *Monetary Policy Report to the Congress*, Sec. 2, "Economic and Financial Developments in 2003 and Early 2004," pp. 6-7.

¹⁵ Ibid.

U.S. TRADE BY INDUSTRY/COMMODITY GROUPS AND SECTORS

U.S. Trade Balance

During 1999-2003, expansion of the U.S. merchandise trade deficit reflected significant shifts in exports and imports of key industry/commodity sectors (see table US-1). Most major sectors registered trade deficits each year during this period. The exception was agricultural products, which recorded a trade surplus in each of the past 5 years. The surplus in 2003 was supported by increased exports of oilseeds and cotton to China. Chemical and related products also registered a trade surplus in 1999, but shifted to a deficit in 2000, which has since expanded seven-fold. A major contributing factor in 2003 was the continued increase of imported medicinal chemicals from Ireland and other Western European countries by U.S. owned multinational chemical companies. Energy-related products, however, recorded the largest deficit during the 5-year period, which more than doubled since 1999 largely owing to the sizeable expansion in 2003, as higher priced crude petroleum and natural gas dominated increased imports. The deficit in the electronic products sector expanded by nearly 50 percent during the past 5 years. Competitively priced telecommunication apparatus, medical goods, and television equipment imports were the major contributors to the 2003 expansion. The other sectors followed suit, although by smaller amounts, sustaining the overall 1999-2003 expansionary trend in the U.S. merchandise trade deficit to \$598.7 billion.

U.S. Exports

During 1999-2003, U.S. exports for several merchandise industry sectors fluctuated upward for an overall increase of \$9.2 billion (1 percent) to \$651.4 billion, but not before dropping to a low of \$629.6 billion in 2002 (see table US-1). Although multiple industry groups contributed to the 2003 increase, semiconductors and integrated circuits, medicinal chemicals, and motor vehicles were the top three, together accounting for \$10.9 billion or half of the net export growth that year. The 5-year export trend for semiconductors and integrated circuits (part of the electronic products sector) recorded a decrease of \$903 million (3 percent) to \$35.7 billion in 2003 (table US-2). The downward trend for semiconductor exports was reversed in 2003 by the significant \$4-billion increase, benefitting from a relatively strong global recovery of its two largest end markets, computers and telecommunications equipment. Medicinal chemicals (part of the chemical sector), recorded annual export increases in each of the past 5 years for an overall growth of \$8.8 billion (64 percent) to \$22.5 billion in 2003. A combination of growing demand from aging populations, higher drug prices, and globalization of the industry contributed to the continued increases. Motor vehicles (part of the transportation equipment sector) recorded an overall 5-year export growth of \$7.3 billion (33 percent) to reach \$29.4 billion. In 2003 alone, motor vehicle exports grew by \$3.2 billion as U.S. manufactured Japanese-brand luxury vehicles increased their Canadian market share. Further analysis of these and other major (\$1.5 billion plus) 2003 export increases (see table US-2) are provided in corresponding industry/commodity sector overviews.

The most significant decrease in U.S. exports was recorded by the aircraft, spacecraft, and related equipment industry (part of the transportation equipment sector), which dropped by almost \$10 billion (21 percent) during the past five years to \$37.8 billion (see table US-2). The 2003 decrease of \$3.6 billion was primarily owing to reduced global demand for new large civil aircraft, as airlines of the world incurred both financial problems and reduced passenger traffic. Telephone and telegraph apparatus (part of the electronic products sector) was the other major export decrease in 2003, resulting in an overall 5-year drop of \$6.7 billion (38 percent) to \$10.9 billion. Contributing factors to the 2003 decrease included competitive cellular phone prices in Asian markets and reduced network investments as several major export markets completed infrastructure projects.

¹⁶ The exception was in 2001 when the trade deficit narrowed before expanding again the following year.

U.S. Imports

During 1999-2003, U.S. imports for all merchandise industry sectors recorded an overall increase of \$232.7 billion (23 percent) to about \$1.3 trillion, of which \$95.3 billion occurred in the last year (see table US-1). Although a number of industry groups recorded major (\$1.5 billion and greater) growth in imports in 2003, crude petroleum, natural gas and components, and medicinal chemicals accounted for 40 percent of the net import increase (see table US-2). Imports for each of these three industry groups more than doubled during the 5-year period.

Contributing factors to the 2003 rise in crude petroleum imports, up by \$18.8 billion (34 percent) to \$73.5 billion, included higher world prices, increased U.S. demand, and reduced domestic production. Imports of natural gas and components increased by \$10.3 billion (55 percent) to \$28.9 billion in 2003, reflecting higher prices. Lastly, imports of medicinal chemicals increased by \$8.6 billion (21 percent) to \$49.3 billion in 2003 as multinational pharmaceutical companies continued to outsource manufacturing to the United Kingdom, Germany, and Ireland.

The most significant decreases (down by \$1.5 billion and greater) in 2003 imports were recorded by aircraft engines and gas turbines (part of the transportation equipment sector) and steel mill products (part of the minerals and metals sector) (see table US-2). Both industry groups also showed a decreasing trend during 1999-2003, with aircraft engines and gas turbines down by \$2.2 billion (20 percent) to \$8.8 billion and steel mill products down by \$1.7 billion (14 percent) to \$10.5 billion. The 2003 decrease of \$2.2 billion in aircraft engines and gas turbines reflected the decline in U.S. production of large civil aircraft. Contributing factors to the \$1.7-billion decrease in imported steel mill products included tariffs and tariff-rate quotas imposed by the President on imports of certain steel products, a 1-percent reduction in U.S. demand, and the higher value of the euro relative to the U.S. dollar, which made imported EU steel mill products less competitive in the U.S. market.

Table US-1 U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by major industry/commodity sectors, 1999-2003¹

						Change, 200	3 from 2002
Item	1999	2000	2001	2002	2003	Absolute	Percent
U.S. exports of domestic merchandise:			Million do	llars ———			
Agricultural products Forest products Chemicals and related products Energy-related products Textiles and apparel Footwear Minerals and metals Machinery Transportation equipment Electronic products Miscellaneous manufactures Special provisions	55,569 24,070 81,240 11,957 18,723 693 39,890 67,201 145,716 16,2146 15,270 19,714	59,112 26,434 92,433 15,539 20,353 664 47,280 79,508 143,393 188,989 16,872 21,721	60,109 23,743 91,274 15,073 18,118 638 43,507 69,552 144,325 160,610 16,428 22,644	58,345 22,825 91,702 14,431 17,298 520 39,924 63,265 144,655 140,428 15,004 21,205	64,706 23,566 102,330 16,639 17,033 495 42,980 63,462 142,948 140,838 14,859 21,570	6,361 740 10,628 2,208 -265 -25 3,056 200 -1,707 411 -146 365	10.9 3.2 11.6 15.3 -4.8 7.7 0.3 -1.2 0.3 -1.0
Total	642,189	712,287	666,021	629,599	651,424	21,825	3.5
U.S. imports of merchandise for consumption: Agricultural products Forest products Chemicals and related products Energy-related products Textiles and apparel Footwear Minerals and metals Machinery Transportation equipment Electronic products Miscellaneous manufactures Special provisions Total	49,469 35,798 80,172 69,473 71,269 14,074 81,717 79,244 203,560 228,469 60,312 43,879	52,159 38,195 95,295 122,650 80,909 14,856 95,015 89,407 223,242 277,854 67,322 48,436	52,599 36,678 98,564 114,226 79,946 15,249 83,847 84,867 221,907 229,575 48,605	55,591 37,048 106,924 109,800 81,585 15,379 85,616 85,181 227,147 229,245 72,129 49,165	60,899 38,769 123,922 147,183 87,241 15,560 89,204 93,138 232,212 238,837 74,765 48,372	5,307 1,721 16,999 37,382 5,655 180 3,588 7,957 5,065 9,588 2,636 -793	9.5 4.6 15.9 34.0 6.9 1.2 9.3 2.2 4.2 3.7 -1.6 8.3
U.S. merchandise trade balance: Agricultural products Forest products Chemicals and related products Energy-related products Textiles and apparel Footwear Minerals and metals Machinery Transportation equipment Electronic products Miscellaneous manufactures Special provisions Total	6,100 -11,727 1,068 -57,516 -52,547 -13,380 -41,827 -12,043 -57,843 -66,324 -45,042 -24,165	6,953 -11,761 -2,862 -107,121 -60,555 -14,192 -47,735 -9,899 -79,849 -88,869 -50,450 -26,715	7,511 -12,935 -7,290 -99,153 -61,828 -14,611 -40,341 -15,315 -77,583 -68,962 -50,147 -25,961	2,754 -14,223 -15,222 -95,369 -64,288 -14,860 -45,692 -21,919 -82,492 -88,897 -57,124 -27,960	3,807 -15,204 -21,592 -130,544 -70,208 -15,065 -46,224 -29,676 -89,264 -97,994 -59,906 -26,802	1,053 -980 -6,371 -35,175 -5,920 -205 -532 -7,757 -6,772 -9,177 -2,782 1,158	38.2 -6.9 -41.9 -36.9 -9.2 -1.4 -1.2 -35.4 -8.2 -10.3 -4.9 -4.1

¹Import values are based on customs value; export values are based on f.a.s. value, U.S. port of export.

Note.-Calculations based on unrounded data. Source: Compiled from official statistics of the U.S. Department of Commerce.

Table US-2 Leading changes in U.S. exports and imports of all sectors, 1999-2003

						Change, 200	3 from 2002
Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent
			Million	dollars ———			
U.S. EXPORTS:							
Increases:							
Semiconductors and integrated circuits (ET033)	36,615	44,828	33,455	31,738	35,712	3,975	12.5
Medicinal chemicals (CH025)	13,701	15,772	18,169	18,742	22,527	3,785	20.2
Motor vehicles (ET009)	22,116	22,865	22,651	26,209	29,379	3,170	12.1
Decreases:	•	•	•	•	,	•	
Aircraft, spacecraft, and related							
equipment (ET013)	47,762	39,696	42,535	41,447	37.835	-3,612	-8.7
Telephone and telegraph apparatus (ET017)	17,717	20,147	16,506	12,952	10,946	-2,007	-15.5
All other	504,276	568,978	532,705	498,511	515,025	16,514	3.3
		,	,				
TOTAL	642,189	712,287	666,021	629,599	651,424	21,825	3.5
U.S. IMPORTS:							
Increases:							
Crude petroleum (CH004)	31,642	56,546	49.673	54,704	73,527	18,823	34.4
Natural gas and components (CH006)	11,042	19,157	23,054	18,609	28,885	10,276	55.2
Medicinal chemicals (CH025)	23,782	29,112	33,956	40,699	49,284	8,586	21.1
Decreases:		,	,	,	,	-,	
Aircraft engines and gas turbines (ET001)	10,328	10.939	13.548	10,993	8,834	-2,159	-19.6
Steel mill products (MM025)	12,749	15,026	11,630	12,203	10,499	-1,704	-14.0
All other	927,892	1,074,560	1,000,774	1,017,604	1,079,067	61,464	6.0
All Outor	321,032	1,074,000	1,000,774	1,017,004	1,070,007		
TOTAL	1,017,435	1,205,339	1,132,635	1,154,811	1,250,097	95,286	8.3

Note.-Calculations based on unrounded data.

U.S. BILATERAL/MULTILATERAL TRADE

Significant Bilateral/Multilateral Shifts

The expansion of the U.S. merchandise trade deficit during 2003 also reflected significant shifts with certain key trade partners. Table US-3 shows U.S. bilateral merchandise trade with its 10 largest partners (ranked by total trade) and U.S. multilateral merchandise trade with selected country groups during 2003. The U.S. trade deficit showed mixed movement with its five major partners—Canada, China, the European Union (EU), Japan, and Mexico.¹⁷ During 1999-2003, the U.S. trade deficit with Japan shifted from being the largest with any trade partner to the third-largest behind China and Canada. A major contributing factor to this trend was a decrease in U.S. imports from Japan of motor vehicles as transplant assembly production increased in the United States. In contrast to the reduced 5-year trade deficit with Japan, the U.S. deficit with the other major trade partners expanded. For a second consecutive year, the deficit with China recorded the largest expansion, this time up by \$20.7 billion to \$124.9 billion in 2003, the highest level in the 5-year period. A major contributing factor to the increasing trade deficit with China is increased production by foreign manufacturers in China. More detailed analysis of these and other trade shifts with the five major U.S. trade partners is provided in the corresponding country overviews.

¹⁷ In recent years, these countries consistently appeared as the top five U.S. partners in terms of total trade, although it should also be noted that the United States may not be a top trading partner for these countries. The 15-member countries of the EU are considered together as a single U.S. trade partner, although no individual EU country was consistently ranked among the top five U.S. trade partners from year to year.

Table US-3
All merchandise sectors: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1999-2003¹

,		•				Change, 200	3 from 2002
Item	1999	2000	2001	2002	2003	Absolute	Percent
			Million do	llars			
U.S. exports of domestic merchandise:	145.731	155.601	144.621	142.543	148,749	6.206	44
Mexico Çhina	81,381	100,442 15,335	90,537 17,959	86,076 20,553	83,108 26,707	-2,968 6,154	-3.4 29.9
Japan	12,585 54,310 25,151	60,751 27,403	53,546 28,068	48,273 24,870	48,862 26,806	, 589 1 936	1.2 7.8
Germany United Kingdom Korea	25,151 35,815 22,038	38,148 26,302	37,097 20,900	30,243 21,151	30,556	1,313 1,374	1.0 6.5
<u>T</u> aiwan	17,640 17,654	22,404 18,921	16,626 18,626	16,786	16,111 15,683	-676 -1.839	-4.0 -10.5
France Malaysia All Other	8,558 221,326	10,123 236,858	8,555 229,487	9,457 212,125	10,124 222,194	-1,039 668 10.069	7.1 4.7
Total	642,189	712,287	666,021	629,599	651,424	21.825	
EU-15OPEC	142,029 19,397	152,652 18.234	147,327 18,934	132,563 17,664	138,138 16,308	5,575 -1,356	3.5 4.2 -7.7
Latin America CBERA	133,944 19.030	156,292 20,728	145,252 20,117	134,284 20,702	131,236 22,184	-3,048 1,481	-2.3 7.2
Asia	159,371	185,282	165,879	160,628	172,329	11,701	7.3
Sub-Saharan Africa	5,332 2,650	5,563 2,743	6,750 2,888	5,892 2,575	6,665 3,190	773 615	13.1 23.9
U.S. imports of merchandise for consumption:							
Canada	198,242 109.018	229,060 134,734	216,836 130,509	210,518 134,121	224,016 137.199	13,498 3.078	6.4 2.3
China	81,522 130,951	99,581	102,069 126,139	124,796 121,262	151,620 118,485	26,824 2777	21.5
Japan Germany United Kingdom	55,386	145,742 58,349	58,939	60,985	66,532	5,547	-2.3 9.1 5.0
United Kingdom	38,773 31,152	42,843 39.829	41,118 34,917	40,429 35.284	42,455 36.930	2,026 1.646	4.7
<u>T</u> aiwan	35,057	40,384 29,435	33,262 30.024	32,054 28,232	31,490 28.896	-565 664	-1.8
France	25,400 21,391	25,447	22,228	23,953	25,321	1,367	2.4 5.7
All Other	290,541	359,936	336,594	343,176	387,153	43,977	12.8
Total	1,017,435 194,409	1,205,339 218,375	1,132,635 218,911	1,154,811 223,732	1,250,097 242,210	95,286 18,479	8.3 8.3
OPEC Latin America	38,892 165,686	62,934 206.087	55,728 196.096	50,649 202,149	65,300 215,298	14,651 13,149	28.9 6.5
ÇBERA	19,365	22,161	20,679	21,255	24,500	3,245	15.3
Asia	382,342 13,750	443,490 22.213	399,750 21.060	419,909 18,208	449,094 25,470	29,185 7,262	7.0 39.9
Central and Eastern Europe	4,803	6,385	6,696	6,822	8,344	1,522	22.3

Table US-3--Continued
All merchandise sectors: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1999-2003¹

						Change, 200	3 from 2002
Item	1999	2000	2001	2002	2003	Absolute	Percent
			— Million dol	lars ———			
U.S. merchandise trade balance: Canada Mexico China Japan Germany United Kingdom Korea Taiwan France Malaysia All Other	-52,511 -27,637 -68,937 -76,641 -30,235 -2,958 -9,115 -17,417 -7,747 -12,833 -69,215	-73,459 -34,292 -84,245 -84,991 -30,946 -1,526 -17,980 -10,514 -15,325 -123,078	-72,215 -39,971 -84,110 -72,593 -30,871 -4,021 -14,018 -16,636 -11,398 -13,673 -107,107	-67,975 -48,045 -104,243 -72,989 -36,115 -10,186 -14,133 -15,268 -10,71 -14,497 -131,052	-75,267 -54,091 -124,913 -69,623 -39,726 -11,899 -14,405 -15,379 -13,213 -15,197 -164,959	-7,293 -6,046 -20,671 3,367 -3,611 -1,713 -272 -111 -2,503 -700 -33,908	-10.7 -12.6 -19.8 4.6 -10.8 -1.9 -0.7 -23.4 -4.8 -25.9
Total EU-15 OPEC Latin America CBERA Asia Sub-Saharan Africa Central and Eastern Europe	-375,246 -52,380 -19,495 -31,742 -335 -222,971 -8,418 -2,154	-493,052 -65,723 -44,699 -49,795 -1,433 -258,208 -16,649 -3,642	-466,614 -71,584 -36,794 -50,844 -562 -233,871 -14,310 -3,808	-525,212 -91,169 -32,985 -67,855 -552 -259,281 -12,316 -4,247	-598,673 -104,072 -48,992 -84,062 -2,316 -276,765 -18,806 -5,154	-73,461 -12,903 -16,007 -16,197 -1,764 -17,484 -6,489 -907	-14.0 -14.2 -48.5 -23.9 -319.3 -6.7 -52.7 -21.3

¹Import values are based on customs value; export values are based on f.a.s. value, U.S. port of export.

Note.—Calculations based on unrounded data. The countries shown are those with the largest total U.S. trade (U.S. imports plus exports) in these products in 2003.



Agricultural Products

Alfred L. Dennis, Coordinator (202) 205-3316 alfred.dennis@usitc.gov

Change in 2003 from 2002:

U.S. trade surplus: Increased by \$1.1 billion (38 percent) to \$3.8 billion U.S. exports: Increased by \$6.4 billion (11 percent) to \$64.7 billion U.S. imports: Increased by \$5.3 billion (10 percent) to \$60.9 billion

Increased exports to China of oilseeds and cotton accounted for most of the increase in the 2003 U.S. trade surplus in agricultural products. Increased Chinese demand and high world prices accounted for this trade shift.\(^1\) With almost one-half of the increased U.S. exports going to China, it became the fourth-leading destination for U.S. agricultural product exports in 2003, ahead of Korea. The three leading markets for U.S. agricultural exports were Japan, Canada, and Mexico; exports to these countries rose 4 percent, 8 percent, and 9 percent, respectively, during 2002-03 (see table AG-1).

Total U.S. exports of oilseeds increased 41 percent in 2003 to \$8.1 billion, the largest absolute shift in trade in agricultural products (see table AG-2). Chinese demand for oilseeds, particularly for soybean meal which is used as an animal feed, has increased as rising incomes in China have led to increased consumption of higher-valued foods such as pork and chicken relative to lower-priced food staples such as rice. High world prices, driven in part by increased Chinese demand and in part by lower production in key exporting countries such as the United States, resulted in much higher prices for feed products such as soybeans (see Oilseeds). Total U.S. exports of cotton, not carded or combed, increased by 59 percent to \$3.2 billion. China's booming textile production and exports have led to increased demand for raw materials for the textile industry including cotton, which contributed to significantly higher world prices in 2003. China imported 25 percent of world cotton exports in 2003 and accounted for 32 percent of world consumption.²

Cattle and beef exports increased 19 percent in 2003 as Japanese imports from the United States rebounded in 2003 after falling substantially in 2002 over fears of Bovine Spongiform Encephalapothy (BSE).³ The discovery of BSE in Japan in 2001 led to a severe fall in Japanese consumption,⁴ but the lack of a subsequent epidemic of BSE led to resumption of beef consumption by 2003. The discovery of BSE in a single cow of Canadian origin in the United States in late 2003 was not enough to affect Japanese imports for full-year 2003. However, the Government of Japan imposed a quarantine on imports from the United States in December 2003.

¹ Peoples Republic of China, Oilseeds and Products Annual: Part 1 of 2 - Analysis 2004, United States Department of Agriculture, Foreign Agricultural Service (USDA/FAS) GAIN Report CH4007, Mar. 1, 2004.

² Cotton and Wool Outlook, USDA/Economic Research Service, CWS-04b, Mar. 11, 2004.

³ Japan Livestock and Products, BSE Confirmed in Japan–First Case Outside EU 2001, USDA/FAS GAIN Report JA1089, Sept. 27, 2001.

⁴ Japan Livestock and Products Semi-Annual 2002, USDA/FAS GAIN Report JA2008, Mar. 1, 2002.

Table AG-1
Agricultural products: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1999-2003¹

		•				Change, 200	3 from 2002
Item	1999	2000	2001	2002	2003	Absolute	Percent
-			— Million dolla	ars			
U.S. exports of domestic merchandise: Canada Mexico Japan China Korea Netherlands France Italy Australia Thailand All other	7,608 5,850 11,9844 2,763 1,618 437 586 394 445 22,918	8,209 6,772 12,5978 2,5978 1,521 4,521 413 413 413 23,122	8,694 7,645 11,342 2,101 3,085 1,420 719 378 606 23,670	9,121 7,534 10,418 3,085 1,262 477 666 407 634 22,615	9,805 80,1845 10,1845 33,207 1,205 673 6700 23,681	684 643 429 3,001 222 -47 27 6 263 666 1,066	7.5 8.5 141.0 7.3 7.7 1.0 64.6 10.4 7.7
Total EU-15 OPEC Latin America CBERA Asia Sub-Saharan Africa Central and Eastern Europe	55,569 7,508 2,449 10,436 2,605 22,135 728 272	59,112 7,177 2,705 11,079 2,511 24,346 769 231	60,109 7,290 2,880 12,119 2,687 23,912 657 263	58,345 6,963 2,658 12,133 2,630 22,636 933 227	64,706 7,280 2,933 13,052 2,688 26,484 1,100 231	6,361 318 275 920 58 3,848 167	10.9 4.6 10.3 7.6 2.2 17.0 17.9 2.0
U.S. imports of merchandise for consumption: Canada Mexico Japan China Korea Netherlands France Italy Australia Thailand All other	10,349 5,631 482 1,191 184 1,443 2,176 1,756 1,364 2,117 22,776	11,189 6,033 487 1,396 210 1,642 2,068 1,939 1,690 2,356 23,150	12,373 6,157 441 1,489 230 1,714 2,014 1,933 1,847 2,155 22,245	12,953 6,378 461 1,896 1,876 2,260 2,150 1,980 1,914 23,468	12,975 7,220 482 2,470 266 2,023 2,614 2,401 2,212 2,121 26,114	21 842 21 574 12 148 354 251 232 207 2,646	0.2 13.2 4.6 30.2 4.8 7.9 15.7 11.7 11.7 10.8 11.3
Total EU-15 OPEC Latin America CBERA Asia Sub-Saharan Africa Central and Eastern Europe	49,469 9,930 1,282 15,727 3,189 8,010 833 254	52,159 10,341 1,268 16,028 3,481 8,662 875 263	52,599 10,316 1,147 15,441 3,218 8,303 836 329	55,591 11,187 1,187 16,101 3,294 8,818 912 391	60,899 12,506 1,345 18,041 3,531 10,164 1,138 428	5,307 1,319 159 1,940 237 1,346 226 37	9.5 11.8 13.4 12.1 7.2 15.3 24.8 9.6

Table AG-1--Continued Agricultural products: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1999-20031

						Change, 200	3 from 2002
Item	1999	2000	2001	2002	2003	Absolute	Percent
-			— Million dolla	nrs ———			
U.S. merchandise trade balance: Canada Mexico Japan China Korea Netherlands France Italy Australia Thailand All other	-2,740 219 11,502 -226 2,579 176 -1,739 -1,169 -970 -1,671 142	-2,980 739 12,087 499 2,768 -1,658 -1,257 -1,257 -1,278 -1,824 -27	-3,679 1,488 10,901 612 2,855 -294 -1,565 -1,214 -1,468 -1,549 1,425	-3,833 1,155 9,955 232 2,831 -614 -1,782 -1,484 -1,573 -1,280 -853	-3,170 956 10,362 2,659 3,041 -808 -2,109 -1,728 -1,543 -1,420 -2,433	663 -199 408 2,428 210 -195 -327 -244 30 -140	17.3 -17.2 4.1 1,047.4 -31.7 -18.3 -16.5 1.0 -18.2
Total EU-15 OPEC Latin America CBERA Asia Sub-Saharan Africa Central and Eastern Europe	6,100 -2,422 1,168 -5,292 -5,284 14,125 -105	6,953 -3,164 1,437 -4,950 -970 15,684 -106	7,511 -3,027 1,732 -3,322 -530 15,610 -179 -65	2,754 -4,224 1,471 -3,968 -664 13,818 21 -164	3,807 -5,225 1,588 -4,989 -843 16,320 -38 -197	1,053 -1,002 116 -1,021 -180 2,502 -60 -33	38.2 -23.7 7.9 -25.7 -27.1 18.1 (²) -20.1

¹Import values are based on customs value; export values are based on f.a.s. value, U.S. port of export. ²Not meaningful for purposes of comparison.

Note.—Calculations based on unrounded data. The countries shown are those with the largest total U.S. trade (U.S. imports plus exports) in these products in

Table AG-2 Leading changes in U.S. exports and imports of agricultural products, 1999-2003

						Change, 200	3 from 2002
Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent
			Million d	ollars			
U.S. EXPORTS:							
Increases:							
Oilseeds (AG032)	4,694	5,419	5,642	5,790	8,153	2,363	40.8
Cotton, not carded or combed (AG049)	968	1,883	2,164	2,015	3,203	1,189	59.0
Cattle and beef (AG002)	3,290	3,859	3,335	2,952	3,501	549	18.6
Decreases:			·	•	·		
Cigarettes (AG045)	3,232	3,308	2,118	1,463	1,403	-60	-4.1
All other	43,385	44,644	46,850	46,125	48,446	2,321	5.0
TOTAL	55,569	59,112	60,109	58,345	64,706	6,361	10.9
U.S. IMPORTS:							
Increases:							
Cocoa, chocolate, and confectionery (AG037)	2,238	2.178	2,301	2,662	3,535	873	32.8
Shellfish (AG009)	5,072	6.007	5,908	5,910	6,492	582	9.9
Wine and certain other fermented beverages (AG041)	2,210	2,259	2,316	2,740	3,307	567	20.7
Fresh, chilled, or frozen vegetables (AG018)	2,207	2,320	2,628	2,758	3,250	491	17.8
Distilled spirits (AG042)	2,383	2,727	2,848	3.111	3,453	342	11.0
Decreases:	2,000	_,	2,010	0,111	0, 100	0.2	
Cattle and beef (AG002)	2,983	3,443	4,062	4.038	3,302	-737	-18.2
All other	32,377	33,225	32,537	34,372	37,561	3,189	9.3
			02,001	<u> </u>			3.0
TOTAL	49,469	52,159	52,599	55,591	60,899	5,307	9.5

Note.-Calculations based on unrounded data.

U.S. overall imports of agricultural products increased 10 percent from 2002 to 2003 to \$60.9 billion. The largest absolute increase was from Mexico, the second-largest supplier of agricultural products to the United States; shipments from Mexico increased 13 percent to \$7.2 billion. Imports from Canada, the largest supplier, increased by less than 1 percent to about \$13.0 billion. The largest percentage increase in U.S. imports was from China, up 30 percent.

U.S. imports of cocoa, chocolate, and confectionery products increased 33 percent in 2003 (see table AG-2). Much of the increase was a result of sharply higher prices (as cocoa production declined) following a civil war in the Cote D'Ivoire, the world's largest producer. Further fighting in the cocoaproducing areas led to panic buying by commodity traders. The higher prices in 2003 reversed several years of low world prices.⁵ U.S. imports of shellfish increased 10 percent in 2003 to \$6.5 billion, while imports of wine increased 21 percent. Much of the wine imports came from Australia and resulted from both sustained increases in Australian production and in medium-to high-value wine consumption in the United States. Wine consumption in the United States has increased in recent years owing to taste changes of an aging population and higher disposable incomes, as well as increased dining out in restaurants where wine is served.⁶ Comparable trends accounted for the increase in shellfish consumption in the United States. U.S. vegetable imports rose 18 percent to \$3.3 billion, while U.S. distilled spirit imports rose 11 percent to \$3.5 billion in 2003. U.S. per capita consumption of fresh vegetables has steadily increased each year and imports of fresh vegetables have increased 8 percent since 1980 as imports' share of consumption has risen from about 5 to about 11 percent. Imports have increased in part because U.S. consumers desire year-round sources of fresh vegetables as transportation and handling of vegetables have improved, and in part because of the comparative advantages of producing labor-intensive products such as vegetables in low-wage countries.⁷

⁵ Nigeria Cocoa Annual 2003, USDA/FAS GAIN Report #NI3012, May 5, 2003.

⁶ World Wine Situation and Outlook, USDA/FAS Horticultural and Tropical Products Division, Mar. 2003.

⁷ Marketing Fresh Fruit and Vegetable Imports in the United States: Status, Challenges and Opportunities, Sandra Cuellar Research/Extension Associate Dept. Of Applied Economics and Management, Cornell University, Mar. 2003.

COMMODITY ANALYSIS OF OILSEEDS8

Change in 2003 from 2002:

U.S. trade surplus: Increased by \$2.3 billion (42 percent) to \$7.9 billion
U.S. exports: Increased by \$2.4 billion (41 percent) to \$8.2 billion
U.S. imports: Increased by \$17 million (9 percent) to \$208 million

The sharp increase in U.S. oilseed exports in 2003 was responsible for the rising trade surplus of \$2.3 billion; imports rose slightly (by \$17 million) to \$208 million. Oilseeds are the second-largest agricultural industry/commodity group in terms of exports, generating the largest trade surplus recorded in the agricultural sector. U.S. exports of soybeans accounted for 97 percent of total oilseed exports in 2003; remaining products were primarily sunflower-seed, cottonseed, and canola seed.

A substantially higher price for U.S. oilseed exports in 2003 and a slightly higher volume led to record U.S. exports of oilseeds of \$8.2 billion, an increase of 41 percent. Several factors contributed to this development. Smaller crops harvested in the United States in back-to-back marketing years, 2002-03 and 2003-04, reduced the supply of soybeans, but domestic and foreign demand remained strong despite rising prices. Drought and disease conditions lowered U.S. crop yields in 2003 and the volume of domestic production of soybeans decreased slightly as the area planted was largely unchanged. The 2003 soybean crop was 11 percent below the crop in 2002, the smallest since 1996.

The volume of U.S. soybean exports rose 14 percent to 31 million metric tons (MMT) in 2003, and soybean prices rose 25 percent to \$256 per metric ton (\$6.96 per bushel) during the year. The price of U.S. soybeans at the U.S. Gulf (f.o.b. vessel) rose steadily during 2003 from \$6.14 per bushel in January to nearly \$8.00 a bushel in December as higher prices reflected the lower volume of domestic crop available and strong domestic and foreign demand. U.S. soybean farmers likely received an average \$7.60 per bushel for 2003-04, the highest price in 20 years. 14

About 80 percent of the \$8.2 billion of U.S. exports of soybeans in 2003 went to the 5 leading markets-China, the EU, Mexico, Japan, and Taiwan. China has become the leading U.S. and world import market for soybeans, purchasing nearly \$3 billion of U.S. soybeans in 2003, more than twice U.S. exports to the second leading market, the EU. Moreover, a weaker U.S. dollar partly offset the rise in

⁸ This industry/commodity group includes raw, unprocessed soybeans, sunflower-seed, flaxseed, cottonseed, canola (rape) seed, and other miscellaneous oilseeds found in chapter 12 of the HTS.

⁹ Oilseeds has historically been among the leading export sectors across agriculture and manufactured goods. ¹⁰ The crop-year begins September 1.

¹¹ The soybean crop yield fell from 39.6 bushels per acre in 2001-02 to 38.0 bushels in 2002-03, and then to 33.4 bushels in 2003-04, while the acreage planted was 74 million acres each year since 2000. Economic Research Service (ERS), U.S. Dept. of Agriculture (USDA), Oil Crops Outlook Situation and Outlook Yearbook, Oct. 2003, p. 3, and tables 2 and 3 (available at http://www.ers.usda.gov/publications/so/view.asp?f=field/ocs-bb)

¹² Soybeans accounted for 93 percent of the value of domestic oilseed production in 2002-03; other leading oilseed crops were cottonseed, sunflower seed, canola seed, and flaxseed, according to USDA, ERS, *Oil Crops Outlook Yearbook*.

¹³ U.S. soybean price, f.o.b. vessel, U.S. Gulf ports, table 24, source: USDA, *Agricultural Outlook Statistical Indicators*, table 24, found at http://www.ers.usda.gov/publications/agoutlook/aotables/, retrieved Mar. 3, 2004.

¹⁴ Average (median) price for 2003-04, World Outlook Board, USDA, World Agricultural Supply and Demand Estimates, Apr. 2004, p. 13, found at http://usda.mannlib.cornell.edu/, and USDA, ERS, Oil Crops Outlook, Apr. 9, 2004.

¹⁵ The index of 100 is for the real exchange rate in 2000; a lower index means the dollar is devaluing. USDA, ERS, "Indexes of Real Trade-Weighted Dollar Exchange Rates", *Agricultural Outlook Statistical Indicators*, table 26, found at http://www.ers.usda.gov/publications/agoutlook/aotables, retrieved Mar. 3, 2004.

the price of soybeans and raised the competitiveness of U.S. soybeans. The trade weighted real exchange rate for U.S. soybeans fell 13 percent from an average index of 102.9 in 2002 to 90 in October 2003. 16

China imported 23 MMT of soybeans, one-third of total world exports of soybeans in 2003-04.¹⁷ Chinese imports of soybeans doubled from 10 MMT in 2001-02 to 21 MMT in 2002-03, and then rose another 10 percent to 23 MMT in 2003-04.¹⁸ China's increased imports of soybeans accounted for all of the 13 MMT increase in world imports of soybeans during these 3 years.

Most leading U.S. markets, except China, purchased the same or a lower volume of soybeans from the United States in 2003. The EU, the second-leading market, purchased 4.3 MMT of soybeans in 2003, 26 percent less than in 2002, although the value of its purchases of U.S. soybeans was flat at \$1.1 billion. The EU is the second-leading world market for soybeans, and its imports from all countries remained unchanged at about 18 MMT annually during 2002-03. Similarly, Japan and Taiwan, the fourth- and fifth-leading markets, registered fewer purchases of soybeans (on a volume basis).

The third-leading U.S. market, Mexico, increased its imports of U.S. soybeans by about 8 percent to 4.2 MM in 2003 over the 3.9 MMT of soybean imported from the United States in 2002. The value of Mexican imports of U.S. soybeans reached nearly \$1 billion in 2003, a 22-percent increase over the prior year. An expanding poultry and livestock industry in Mexico that requires more protein meal has continued to support more imports of soybeans.²⁰

John Reeder (202) 205-3319 john.reeder@usitc.gov

¹⁷ USDA, FAS, *Oilseeds*, table 5.

¹⁸ In 1997-98, 6 years prior, China imported only 3 MMT of soybeans from all countries, but buoyant demand for poultry, pork, and vegetable oil have fueled this dramatic import increase. See USDA, FAS, "China Importing Record Levels of Soybeans," *Oilseeds: World Markets and Trade*, Oct. 2003, p. 1, found at http://www.fas.usda.gov/dlp/oilseeds arc.html, retrieved Mar. 3, 2004.

¹⁹ USDA, Foreign Agriculture Service (FAS), *Oilseeds: World Markets and Trade*, Jan. 2004, table 5, projection for 2003-04; found at http://www.fas.usda.gov/dlp/oilseeds_arc.html, retrieved Mar. 3, 2004.

²⁰ See FAS, USDA, *Mexico: Oilseeds and Products Annual 2003*, GAIN Report MX3045, Apr. 16, 2003, p.3; found at http://www.fas.usda.gov/scriptsw/attacherep/attache_lout.asp, retrieved Mar. 3, 2004.

Table AG-3
Agricultural products: U.S. trade for industry/commodity groups and subgroups, 1999-2003¹

USITC							Change, 200	3 from 2002
code ²	Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent
				Million	dollars ———			
AG001	Certain miscellaneous animals and meats:							
,	Exports	1,127	1,440	1,631	1,460	1,778	318	21.8
	Imports	1,429 -302	1,592 -152	1,509 122	1,510 -50	1,683 96	173 146	11.4 (³)
AG002	Cattle and beef: Exports	3,290	3,859	3,335	2,952	3,501	549	18.6
	Imports	2,983	3,443	4,062	4,038	3,302	-737	-18.2
AG003	Trade balance	308	416	-727	-1,086	200	1,285	(³)
	ExportsImports	1,021 723	1,267 996	1,364 1,129	1,286 1,026	1,330 1,143	44 117	3.4 11.4
AG004	Trade balance	298	271	235	260	1,187	-73	-28.0
AG004	Exports	. 25	_23	25	_26	17	-9	-34.3
	Imports	179 -155	206 -183	238 -213	275 -249	339 -321	63 -72	23.0 -29.0
AG005	Poultry:	1,878	2,055	2.376	1,817	2.022	205	11.3
	Imports	57	71	97	111	126	14	12.7
AG006	Trade balance	1,821	1,984	2,279	1,705	1,896	191	11.2
	ExportsImports	1,634 2,945	1,705 3.103	2,016 2,958	1,947 3.158	2,008 3.354	60 196	3.1 6.2
10007	Trade balance	-1,310	-1,398	-943	-1,211	-1,346	-135	-11.2
AG007	Canned fish: Exports	222	170	202	181	185	3	1.9
	Imports	611 -389	538 -369	568 -367	664 -482	777 -592	113 -110	17.0 -22.7
AG008	Cured and other fish:	166	168		159	161		1.0
	Exports	277	294	193 298	300	307	<u>2</u> 7	2.2
AG009	Trade balanceShellfish:	-111	-126	-104	-1 41	-146	-5	-3.6
,	Exports	752 5,072	799 6.007	708 5,908	737 5,910	761 6.492	23 582	3.2 9.9
	Imports	-4,319	-5,208	-5,200	-5,172	-5,731	-559	-10.8
AG010	Dairy produce: Exports	591	664	723	618	679	60	9.8
	Imports Trade balance	1,387 -796	1,474 -810	1,574 -851	1,488 -870	1,654 -976	166 -106	11.2 -12.2
AG011	Eggs:							
	Exports	155 20	159 18	162 20	155 28	164 22	9 -6	5.7 -20.9
	Trade balance	134	141	142	127	142	15	11.6

Table AG-3--Continued
Agricultural products: U.S. trade for industry/commodity groups and subgroups, 1999-2003¹

USITC							Change, 200	3 from 2002
code ²	Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent
				Million	dollars			
AG012	Sugar and other sweeteners:							
	Exports	357	350	391	365	391	<u>26</u>	7.1
	Imports	879 -522	805 -455	843 -451	961 -596	1,035 -645	74 -48	7.7 -8.1
AG012A	Sugar:	-522	-400	-401	-330	-043	-40	-0.1
	Exports	70	_64	_90	_74	_61	-13	-17.4
	Imports	639	551	547 457	569	592	23 -36	4.1 -7.3
AG012B	Trade balance	-569	-488	-457	-495	-531	-30	-1.3
7.00120	Exports	103	101	83	63	76	13	20.8
	Imports	34	32	39	34	42	8	22.6
AG013	Trade balance	69	70	44	29	34	5	18.6
A0013	Exports	3.621	4.061	4.508	4.189	4,207	18	0.4
	<u>I</u> mports	604	641	626	670	705	35	5.2
AG014	Trade balance	3,017	3,419	3,881	3,518	3,502	-16	-0.5
AGU14	Exports	144	132	116	113	128	15	13.1
	Imports	428	460	495	503	539	37	7.3
A C O 4 F	Trade balance	-285	-329	-379	-389	-411	-22	-5.6
AG015	Seeds: Exports	812	783	768	892	859	-33	-3.7
	Imports	485	501	436	431	452	21	4.8
	Trade balance	327	282	332	461	407	-54	-11.7
AG016	Cut flowers: Exports	41	40	39	36	33	-3	-7.7
	Imports	592	611	565	541	611	70	12.9
	Trade balance	-550	-572	-526	-505	-578	-72	-14.3
AG017	Miscellaneous vegetable substances:	453	485	505	476	510	35	7.3
	Exports	839	790	794	760	880	120	15.7
	Trade balance	-386	-305	-288	-284	-369	-85	-29.9
AG018	Fresh, chilled, or frozen vegetables:	4 4 0 0	1 246	1 204	1 252	1,408	55	4.1
	Exports Imports	1,198 2,207	1,346 2,320	1,304 2.628	1,353 2.758	3.250	491	17.8
	Trade balance	-1,009	-973	-1,324	-1,405	-1,842	-436	-31.0
AG019	Prepared or preserved vegetables, mushrooms,	,		ŕ				
	and olives: Exports	1.535	1,451	1.387	1,365	1,326	-39	-2.9
	ExportsImports	1,384	1,408	1,493	1,574	1,779	206	13.1
	Trade balance	150	43	-106	-209	-453	-245	-117.2
AG020	Edible nuts:	1 212	1 261	1.309	1,542	1,785	243	15.8
	ExportsImports	1,212 794	1,361 808	670	701	775	75	10.7
	Trade balance	418	553	639	841	1,010	168	20.0

Table AG-3--Continued
Agricultural products: U.S. trade for industry/commodity groups and subgroups, 1999-2003¹

USITC							Change, 200	3 from 2002
code ²	Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent
				Million	dollars ——			
AG021	Tropical fruit: Exports Imports Trade balance	64 1,574 -1,510	57 1,548 -1,490	49 1,616 -1,567	46 1,705 -1,659	54 1,754 -1,700	8 49 -41	17.7 2.9 -2.5
AG022	Citrus fruit: Exports Imports Trade balance	498 331 167	635 311 324	613 308 305	636 325 311	679 437 242	43 112 -69	6.7 34.4 -22.2
AG023	Deciduous fruit. Exports Imports Trade balance	743 268 475	797 247 551	832 270 562	788 294 494	810 306 504	23 12 10	2.9 4.2 2.1
AG024 AG025	Other fresh fruit: Exports Imports Trade balance	562 1,031 -469	638 1,024 -386	674 1,065 -392	708 1,183 -476	775 1,200 -425	67 17 50	9.5 1.4 10.6
AG026	Dried fruit other than tropical: Exports Imports Trade balance	379 78 301	342 63 279	349 63 285	338 90 248	366 133 234	29 43 -14	8.5 48.0 -5.8
AG027	Frozen fruit: Exports Imports Trade balance	89 125 -37	86 122 -36	80 117 -37	80 152 -72	81 202 -122	1 50 -50	0.8 33.1 -69.1
AG028	Prepared or preserved fruit Exports Imports Trade balance Coffee and tax	180 576 -396	190 547 -356	195 559 -364	184 622 -437	203 688 -485	18 66 -48	10.0 10.7 -10.9
AG029	Coffee and tea: Exports Imports Trade balance	284 3,114 -2,830	298 2,921 -2,623	314 1,915 -1,601	297 1,942 -1,645	348 2,228 -1,880	50 286 -235	16.9 14.7 -14.3
	Spices: Exports Imports Trade balance	72 530 -458	80 552 -472	76 51 7 -441	70 549 -480	76 682 -606	7 133 -126	9.6 24.2 -26.4
AG030	Cereals: Exports Imports Trade balance	10,128 730 9,399	9,467 660 8,808	9,397 761 8,636	9,929 735 9,194	10,429 646 9,784	500 -89 589	5.0 -12.1 6.4
AG031	Milled grains, malts, and starches: Exports Imports Trade balance	439 261 178	402 304 98	446 305 142	594 379 215	599 441 159	6 62 -56	1.0 16.3 -26.1
AG032	Oilseeds: Exports Imports Trade balance	4,694 238 4,457	5,419 231 5,188	5,642 203 5,439	5,790 191 5,599	8,153 208 7,945	2,363 17 2,345	40.8 9.1 41.9

Table AG-3--Continued
Agricultural products: U.S. trade for industry/commodity groups and subgroups, 1999-2003¹

USITC							Change, 200	3 from 2002
code ²	Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent
				Million	dollars			
AG033	Animal or vegetable fats and oils: Exports Imports	1,947 1.348	1,450 1,311	1,405 1,1 <u>28</u>	1,917 1,285	1,986 1,491	69 206	3.6 16.1
AG034	Trade balance Pasta, cereals, and other bakery goods:	1,540	139	277	1,203	495	-137	-21.7
	ExportsImportsTrade balance	1,044 1,637 -593	1,092 1,755 -662	1,153 1,902 -748	1,184 2,191 -1,008	1,287 2,501 -1,214	103 309 -206	8.7 14.1 -20.4
AG035 AG036	Sauces, condiments, and soups: Exports Imports Trade balance	587 457 130	641 502 139	737 576 161	761 670 91	813 663 150	52 -7 59	6.8 -1.1 64.9
	Infant formulas, malt extracts, and other edible preparations: Exports Imports Trade balance	2,412 556 1,856	2,401 556 1,845	2,729 659 2,070	2,582 795 1,787	2,546 920 1,626	-36 125 -161	-1.4 15.7 -9.0
AG037	Cocoa, chocolate, and confectionery: Exports Imports Trade balance	697 2,238 -1,540	851 2,178 -1,328	997 2,301 -1,304	817 2,662 -1,846	91.4 3,535 -2,621	98 873 -775	12.0 32.8 -42.0
AG038	Fruit and vegetable juices: Exports Imports Trade balance	748 796 -48	713 767 -53	665 661 5	682 675 7	674 793 -119	-8 118 -126	-1.2 17.5 (³)
AG039	Nonalcoholic beverages, excluding fruit and vegetable juices: Exports	328 625 -298	312 683 -371	312 745 -434	334 823 -489	397 966 -569	63 143 -80	18.8 17.4 -16.4
AG040	Malt beverages: Exports Imports Trade balance	201 1,881 -1,680	169 2,166 -1,996	191 2,333 -2,142	171 2,566 -2,395	172 2,664 -2,492	2 99 -97	0.9 3.8 -4.1
AG041	Wine and certain other fermented beverages: Exports Imports Trade balance	541 2,210 -1,669	551 2,259 -1,708	531 2,316 -1,785	541 2,740 -2,199	634 3,307 -2,673	93 567 -474	17.1 20.7 -21.6
AG042	Distilled spirits: Exports Imports Trade balance	480 2,383 -1,902	483 2,727 -2,244	534 2,848 -2,313	555 3,111 -2,556	592 3,453 -2,861	37 342 -305	6.7 11.0 -11.9
AG043	Unmanufactured tobacco: Exports Imports Trade balance	1,294 711 583	1,222 628 594	1,268 680 588	1,050 716 334	1,035 757 278	-14 41 -56	-1.4 5.8 -16.7

Table AG-3--Continued
Agricultural products: U.S. trade for industry/commodity groups and subgroups, 1999-2003¹

USITC							Change, 200	3 from 2002
code ²	Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent
				Million o	dollars			,
AG044	Cigars and certain other manufactured tobacco: Exports Imports Trade balance	651 301 350	709 290 419	616 285 331	485 299 185	442 307 135	-42 7 -50	-8.7 2.5 -26.8
AG045 AG046	Cigarettes: Exports Imports Trade balance	3,232 112 3,120	3,308 212 3,096	2,118 189 1,930	1,463 230 1,234	1,403 234 1,169	-60 5 -65	-4.1 2.0 -5.3
AG046	Hides, skins, and leather:	1,850 1,052 798	2,330 1,167 1,163	2,650 1,032 1,617	2,390 935 1,456	2,492 817 1,675	102 -117 219	4.2 -12.6 15.0
AG047	Exports Imports Trade balance Wool and other animal hair:	141 73 67	158 87 70	173 96 77	173 87 85	158 87 70	-15 (⁴) -15	-8.7 0.3 -17.8
AG049	ExportsImportsTrade balance	22 70 -48	19 74 -55	11 57 -46	26 42 -16	29 38 -10	3 -4 6	11.6 -8.5 40.5
AG049	Cotton, not carded or combed: Exports Imports Trade balance	968 136 832	1,883 21 1,862	2,164 4 2,160	2,015 20 1,995	3,203 26 3,177	1,189 6 1,183	59.0 29.9 59.3
AG050	Ethyl alcohol for nonbeverage purposes: Exports Imports Trade balance	58 130 -73	91 162 -70	125 178 -53	71 170 -99	103 191 -88	32 21 11	44.5 12.2 11.2

¹Import values are based on customs value; export values are based on f.a.s. value, U.S. port of export.

Note.—Calculations based on unrounded data.

²This coding system is used by the U.S. International Trade Commission to identify major groupings and subgroupings of HTS import and export items for trade monitoring purposes

³Not meaningful for purposes of comparison.

⁴Less than \$500,000.

Table AG-4
Agricultural products sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC	Indicate de consequence d'Anna de consequence de co	4000		0004	2222	2002	Percent change,
code	Industry/commodity group	1999	2000	2001	2002	2003	2003 from 2002
AG002	Cattle and beef:						
	Number of establishments	1,100,098	1,080,969	1,053,284	1,035,970	1,019,046	-1.6
	Employees (thousands)	1,172.0	1,150.0	1,127.0	1,109.0	1,092.0	-1.5
	Capacity utilization (percent)	(¹)	(¹)	(¹)	(¹)	(¹)	(1)
	U.S. production (million dollars)	45,278	48,632	50,152	48,762	58,485	19.9
	U.S. exports (million dollars)	3,290	3,859	3,335	2,952	3,501	18.6
	U.S. imports (million dollars)	2,983	3,443	4,062	4,038	3,302	-18.2
	Apparent U.S. consumption (million dollars)	44,970	48,216	50,879	49,848	58,285	16.9
	Trade balance (million dollars)	308	416	-727	-1,086	200	(2)
	Ratio of imports to consumption (percent)	6.6	7.1	8.0	8.1	5.7	-29.6
	Ratio of exports to production (percent)	7.3	7.9	6.6	6.1	6.0	-1.6
AG003	Swine and pork:						
	Number of establishments	101,800	89,438	83,920	78,359	73,214	-6.6
	Employees (thousands)	219.0	204.0	199.0	202.0	207.0	2.5
	Capacity utilization (percent)	(¹)	(1)	(¹)	(¹)	(¹)	(¹)
	U.S. production (million dollars)	19,085	21,673	22,545	19,802	21,422	8.2
	U.S. exports (million dollars)	1,021	1,267	1,364	1,286	1,330	3.4
	U.S. imports (million dollars)	723	996	1,129	1,026	1,143	11.4
	Apparent U.S. consumption (million dollars)	18,787	21,402	22,310	19,542	21,235	8.7
	Trade balance (million dollars)	298	271	235	260	187	-28.0
	Ratio of imports to consumption (percent)	3.8	4.7	5.1	5.3	5.4	1.9
	Ratio of exports to production (percent)	5.3	5.8	6.1	6.5	6.2	-4.6
AG004	Sheep and meat of sheep:						
	Number of establishments	67,940	67,820	65,658	64,695	64,033	-1.0
	Employees (thousands)	68.0	68.0	66.0	65.0	64.0	-1.5
	Capacity utilization (percent)	(¹)					
	U.S. shipments (million dollars)	423	420	341	337	377	. 11.9
	U.S. exports (million dollars)	25	23	25	26	17	-34.3
	U.S. imports (million dollars)	179	206	238	275	339	23.0
	Apparent U.S. consumption (million dollars)	578	603	554	586	698	19.2
	Trade balance (million dollars)	-155	-183	-213	-249	-321	-29.0
	Ratio of imports to consumption (percent)	31.1	34.2	42.9	47.0	48.5	3.2
	Ratio of exports to shipments (percent)	5.9	5.6	7.2	7.8	4.6	-41.0

Table AG-4—Continued
Agricultural products sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC							Percent change,
code	Industry/commodity group	1999	2000	2001	2002	2003	2003 from 2002
AG005	Poultry:						
	Number of establishments	430	420	417	415	410	-1.2
	Employees (thousands)	180.0	175.0	170.0	170.0	168.0	-1.2
	Capacity utilization (percent)	(³)					
	U.S. production (million dollars)	17,3ÒÓ	17,4ÒÓ	17,6ÒÓ	17,7ÒÓ	17,9ÒÓ	1.1
	U.S. exports (million dollars)	1,878	2,055	2,376	1,817	2,022	11.3
	U.S. imports (million dollars)	57	71	97	111	126	12.7
	Apparent U.S. consumption (million dollars)	15,479	15,416	15,321	15,995	16,004	(4)
	Trade balance (million dollars)	1,821	1,984	2,279	1,705	1,896	11.2
	Ratio of imports to consumption (percent)	0.4	0.5	0.6	0.7	0.8	14.3
	Ratio of exports to production (percent)	10.9	11.8	13.5	10.3	11.3	9.7
AG006	Fresh or frozen fish:						
	Number of establishments	1,400	1,450	1,380	1,400	1,400	0.0
	Employees (thousands)	40.0	41.0	39.0	40.0	40.0	0.0
	Capacity utilization (percent)	(³)					
	U.S. shipments (million dollars)	5,051	5,550	6,257	5,560	5,600	0.7
	U.S. exports (million dollars)	1,634	1,705	2,016	1,947	2,008	3.1
	U.S. imports (million dollars)	2,945	3,103	2,958	3,158	3,354	6.2
	Apparent U.S. consumption (million dollars)	6,361	6,948	7,200	6,771	6,946	2.6
	Trade balance (million dollars)	-1,310	-1,398	-943	-1,211	-1,346	-11.2
	Ratio of imports to consumption (percent)	46.3	44.7	41.1	46.6	48.3	3.6
	Ratio of exports to shipments (percent)	32.4	30.7	32.2	35.0	35.9	2.6
AG007	Canned fish:						
	Number of establishments	36	34	30	30	30	0.0
	Employees (thousands)	7.0	6.0	5.0	5.0	5.0	0.0
	Capacity utilization (percent)	65	75	75	75	80	6.7
	U.S. shipments (million dollars)	1,527	1,334	969	1,016	1,200	18.1
	U.S. exports (million dollars)	222	170	202	181	185	1.9
	U.S. imports (million dollars)	611	538	568	664	777	17.0
	Apparent U.S. consumption (million dollars)	1,916	1,703	1,336	1,498	1,792	19.6
	Trade balance (million dollars)	-389	-369	-367	-482	-592	-22.7
	Ratio of imports to consumption (percent)	31.9	31.6	42.5	44.3	43.3	-2.3
	Ratio of exports to shipments (percent)	14.5	12.7	20.8	17.8	15.4	-13.5

Table AG-4—Continued
Agricultural products sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC							Percent change,
code	Industry/commodity group	1999	2000	2001	2002	2003	2003 from 2002
AG008	Cured and other fish:						
	Number of establishments	114	120	120	120	120	0.0
	Employees (thousands)	9.0	10.0	10.0	10.0	10.0	0.0
	Capacity utilization (percent)	(³)					
	U.S. shipments (million dollars)	300	300	184	143	150	4.9
	U.S. exports (million dollars)	166	168	193	159	161	1.0
	U.S. imports (million dollars)	277	294	298	300	307	2.2
	Apparent U.S. consumption (million dollars)	411	426	288	284	296	4.3
	Trade balance (million dollars)	-111	-1 26	-104	-1 41	-146	-3.6
	Ratio of imports to consumption (percent)	67.4	69.0	⁵103.2	⁵105.7	⁵103.6	-2.0
	Ratio of exports to shipments (percent)	55.4	56.0	⁵105.1	⁵111.3	⁵107.1	-3.8
AG009	Shellfish:						
	Number of establishments	700	700	715	690	690	0.0
	Employees (thousands)	60.0	59.0	60.0	56.0	56.0	0.0
	Capacity utilization (percent)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	U.S. production (million dollars)	2,200	2,058	1,853	1,839	1,750	-4.8
	U.S. exports (million dollars)	752	799	708	737	761	3.2
	U.S. imports (million dollars)	5,072	6,007	5,908	5,910	6,492	9.9
	Apparent U.S. consumption (million dollars)	6,519	7,266	7,053	7,011	7,481	6.7
	Trade balance (million dollars)	-4,319	-5,208	-5,200	-5,172	-5,731	-10.8
	Ratio of imports to consumption (percent)	77.8	82.7	83.8	84.3	86.8	3.0
	Ratio of exports to production (percent)	34.2	38.8	38.2	40.1	43.5	8.5
AG010	Dairy produce:						
	Number of establishments	130,000	125,000	124,000	122,000	121,000	-0.8
	Employees (thousands)	620.0	610.0	600.0	590.0	580.0	-1.7
	Capacity utilization (percent)	(³)	$(^{3})$	(³)	(³)	(³)	(³)
	U.S. production (million dollars)	63,000	64,000	66,000	67,000	69,000	3.0
	U.S. exports (million dollars)	591	664	723	618	679	9.8
	U.S. imports (million dollars)	1,387	1,474	1,574	1,488	1,654	11.2
	Apparent U.S. consumption (million dollars)	63,796	64,810	66,851	67,870	69,976	3.1
	Trade balance (million dollars)	-796	-810	-851	-870	-976	-12.2
	Ratio of imports to consumption (percent)	2.2	2.3	2.4	2.2	2.4	9.1
	Ratio of exports to production (percent)	0.9	1.0	1.1	0.9	1.0	11.1

Table AG-4—Continued
Agricultural products sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
AG011	Eggs:						
7.0011	Number of establishments	65	64	64	64	62	-3.1
	Employees (thousands)	8.0	8.0	8.0	8.0	7.0	-12.5
	Capacity utilization (percent)	(³)					
	U.S. production (million dollars)	6,7ÒÓ	6,8ÒÓ	6,8ŠÓ	6,9ÒÓ	6,950	0.7
	U.S. exports (million dollars)	155	159	162	155	164	5.7
	U.S. imports (million dollars)	20	18	20	28	22	-20.9
	Apparent U.S. consumption (million dollars)	6,566	6,659	6,708	6,773	6,808	0.5
	Trade balance (million dollars)	134	141	142	127	142	11.6
	Ratio of imports to consumption (percent)	0.3	0.3	0.3	0.4	0.3	-25.0
	Ratio of exports to production (percent)	2.3	2.3	2.4	2.3	2.4	4.3
AG012A	Sugar:						
	Number of establishments	70	70	70	70	70	0.0
	Employees (thousands)	17.0	17.0	17.0	17.0	15.0	-11.8
	Capacity utilization (percent)	90	92	92	92	92	0.0
	U.S. production (million dollars)	3,696	3,328	3,583	3,600	3,498	-2.8
	U.S. exports (million dollars)	70	64	90	74	[.] 61	-17.4
	U.S. imports (million dollars)	639	551	547	569	592	4.1
	Apparent U.S. consumption (million dollars)	4,265	3,816	4,040	4,095	4,029	- 1.6
	Trade balance (million dollars)	-569	-488	-457	-495	-531	-7.3
	Ratio of imports to consumption (percent)	15.0	14.4	13.6	13.9	14.7	5.8
	Ratio of exports to production (percent)	1.9	1.9	2.5	2.1	1.7	-19.0
AG012B	High fructose corn sweetener:						
	Number of establishments	23	22	22	22	30	36.4
	Employees (thousands)	11.0	11.0	11.0	11.0	9.0	-18.2
	Capacity utilization (percent)	81	81	80	80	80	0.0
	U.S. production (million dollars)	2,558	2,743	3,055	3,200	3,000	-6.3
	U.S. exports (million dollars)	103	101	83	63	76	20.8
	U.S. imports (million dollars)	34	32	39	34	42	22.6
	Apparent U.S. consumption (million dollars)	2,489	2,673	3,011	3,171	2,966	-6.5
	Trade balance (million dollars)	69	70	44	29	34	18.6
	Ratio of imports to consumption (percent)	1.4	1.2	1.3	1.1	1.4	27.3
	Ratio of exports to production (percent)	4.0	3.7	2.7	2.0	2.5	25.0

Table AG-4—Continued
Agricultural products sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
AG013	Animal feeds:	1000	2000				2000 110111 2002
710010	Number of establishments	1,800	1,800	1,800	1,790	1,790	0.0
	Employees (thousands)	56.0	56.0	56.0	54.0	54.0	0.0
	Capacity utilization (percent)	79	79	79	80	80	0.0
	U.S. shipments (million dollars)	36,500	37,000	37,370	39,612	39,700	(⁴)
	U.S. exports (million dollars)	3,621	4,061	4,508	4,189	4,207	(⁴)
	U.S. imports (million dollars)	604	641	626	670	705	5.2
	Apparent U.S. consumption (million dollars)	33,483	33,581	33,489	36,094	36.198	(⁴)
	Trade balance (million dollars)	3,017	3,419	3,881	3,518	3,502	-0.5
	Ratio of imports to consumption (percent)	1.8	1.9	1.9	1.9	1.9	0.0
	Ratio of exports to shipments (percent)	9.9	11.0	12.1	10.6	10.6	0.0
AG014	Live plants:						
	Number of establishments	30,000	30,000	30,000	30,000	29,500	-1.7
	Employees (thousands)	139.0	140.0	140.0	140.0	145.0	3.6
	Capacity utilization (percent)	(¹)	(¹)	(¹)	(1)	(¹)	(¹)
	U.S. shipments (million dollars)	12,17 5	12,8ÒÓ	13,440	13,571 [°]	13,8 4 0	2.0
	U.S. exports (million dollars)	144	132	116	113	128	13.1
	U.S. imports (million dollars)	428	460	495	503	539	7.3
	Apparent U.S. consumption (million dollars)	12,460	13,129	13,819	13,960	14,251	2.1
	Trade balance (million dollars)	-285	-329	-379	-389	-411	-5.6
	Ratio of imports to consumption (percent)	3.4	3.5	3.6	3.6	3.8	5.6
	Ratio of exports to shipments (percent)	1.2	1.0	0.9	0.8	0.9	12.5
AG015	Seeds:						
	Number of establishments	12,561	12,500	12,500	12,500	12,500	0.0
	Employees (thousands)	(³)	(³)	(³)	(³)	(³)	(³)
	Capacity utilization (percent)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	U.S. production (million dollars)	(³)	(³)	(³)	(³)	(³)	(3)
	U.S. exports (million dollars)	812	783	768	892	859	-3.7
	U.S. imports (million dollars)	485	501	436	431	452	4.8
	Apparent U.S. consumption (million dollars)	(³)	(³)	(³)	(³)	(³)	(³)
	Trade balance (million dollars)	327	282	332	461	407	-11.7
	Ratio of imports to consumption (percent)	(³)	(³)	(³)	(³)	(³)	(³) (³)
	Ratio of exports to production (percent)	(³)	(3)	(3)	(³)	(³)	(³)
			(³)	(³)	(³)	(³)	

Table AG-4—Continued
Agricultural products sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC		4000		2004		222	Percent change,
code	Industry/commodity group	1999	2000	2001	2002	2003	2003 from 2002
AG016	Cut flowers:						
	Number of establishments	2,200	2,000	1,800	1,800	1,700	-5.6
	Employees (thousands)	32.0	30.0	26.0	26.0	25.0	-3.8
	Capacity utilization (percent)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	U.S. shipments (million dollars)	451	460	455	460	446	-3.0
	U.S. exports (million dollars)	41	40	39	36	33	-7.7
	U.S. imports (million dollars)	592	611	565	541	611	12.9
	Apparent U.S. consumption (million dollars)	1,001	1,032	981	965	1,024	6.1
	Trade balance (million dollars)	-550	-572	-526	-505	-578	-14.3
	Ratio of imports to consumption (percent)	59.1	59.2	57.6	56.1	59.7	6.4
	Ratio of exports to shipments (percent)	9.2	8.6	8.7	7.9	7.5	-5.1
AG017	Miscellaneous vegetable substances:						
	Number of establishments	9,000	9,000	9,000	9,000	9,000	0.0
	Employees (thousands)	(³)	$\binom{3}{2}$				
	Capacity utilization (percent)	(¹)	(¹)	(¹)	(¹)	(¹)	(1)
	U.S. production (million dollars)	900	900	900	900	900	0.0
	U.S. exports (million dollars)	453	485	505	476	510	7.3
	U.S. imports (million dollars)	839	790	794	760	880	15.7
	Apparent U.S. consumption (million dollars)	1,286	1,205	1,188	1,184	1,269	7.2
	Trade balance (million dollars)	-386	-305	-288	-284	-369	-29.9
	Ratio of imports to consumption (percent)	65.3	65.5	66.8	64.2	69.3	7.9
	Ratio of exports to production (percent)	50.4	53.9	56.1	52.9	56.7	7.2
AG018	Fresh, chilled, or frozen vegetables:						
	Number of establishments	31,000	30,000	30,100	29,500	29,450	-0.2
	Employees (thousands)	40.0	39.0	40.0	39.0	39.0	0.0
	Capacity utilization (percent)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	U.S. production (million dollars)	4,300	4,450	4,500	4,600	4,550	-1.1
	U.S. exports (million dollars)	1,198	1,346	1,304	1,353	1,408	4.1
	U.S. imports (million dollars)	2,207	2,320	2,628	2,758	3,250	17.8
	Apparent U.S. consumption (million dollars)	5,309	5,423	5,824	6,005	6,392	6.4
	Trade balance (million dollars)	-1,009	-973	-1,324	-1,405	-1,842	-31.0
	Ratio of imports to consumption (percent)	41.6	42.8	45.1	45.9	50.8	10.7
	Ratio of exports to production (percent)	27.9	30.3	29.0	29.4	30.9	5.1

Table AG-4—Continued
Agricultural products sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
	Industry/commodity group	1999	2000	2001	2002	2003	2003 110111 2002
AG019	Prepared or preserved vegetables, mushrooms, and						
	olives:	1 600	1 550	1 500	1 600	1 550	2.1
	Number of establishments	1,600	1,550	1,500	1,600	1,550 4.0	-3.1 -20.0
	Employees (thousands)	4.0 89	4.0 88	4.0 87	5.0 85	4.0 86	-20.0 1.2
	U.S. production (million dollars)	8,400	8,450	8,200	8,300	8,350	0.6
	U.S. exports (million dollars)	1,535	1,451	1,387	1,365	1,326	-2.9
	U.S. imports (million dollars)	1,384	1,408	1,493	1,505	1,779	13.1
						•	3.5
	Apparent U.S. consumption (million dollars)	8,250 150	8,407 43	8,306 -106	8,509 -209	8,803 -453	-117.2
	Trade balance (million dollars)	16.8	43 16.7	18.0	-209 18.5	20.2	9.2
	Ratio of imports to consumption (percent)	18.3	17.2	16.0	16.4	15.9	-3.0
AG020	Ratio of exports to production (percent)	10.3	17.2	16.9	10.4	15.9	-3.0
AG020	Number of establishments	37,000	37,000	37,000	37,000	37,000	0.0
		380.0	380.0	37,000	380.0	380.0	0.0
	Employees (thousands)	360.0 (1)	360.0 (1)		(1)		(¹)
	Capacity utilization (percent)	2,404	2,326	(¹) 2,606	2,506	(¹) 2,604	3.9
		2,404 1,212	2,320 1,361	1,309	1,542	1,785	15.8
	U.S. exports (million dollars)	794	808	670	701	775	10.7
	, ,	1,986	1,773	1,967	1,665	1,594	-4.2
	Apparent U.S. consumption (million dollars) Trade balance (million dollars)	418	553	639	841	1,010	20.0
	Ratio of imports to consumption (percent)	40.0	45.6	34.1	42.1	48.6	15.4
	Ratio of imports to consumption (percent)	50.4	58.5	50.2	61.5	68.5	11.4
AG021	Tropical fruit:	30.4	30.5	30.2	01.5	00.0	1111
AG021	Number of establishments	8,500	8,500	8,500	8,500	8,500	0.0
	Employees (thousands)	20.0	20.0	20.0	20.0	20.0	0.0
	Capacity utilization (percent)	(¹)	(¹)	(¹)	(¹)	(³)	(³)
	U.S. production (million dollars)	498	545	496	534	569	6.6
	U.S. exports (million dollars)	64	57	49	46	54	17.7
	U.S. imports (million dollars)	1,574	1,548	1,616	1,705	1,754	2.9
	Apparent U.S. consumption (million dollars)	2,008	2,035	2,063	2,193	2,269	3.5
	Trade balance (million dollars)	-1,510	-1,490	-1,567	-1,659	-1,700	-2.5
	,	78.4	76.0	78.3	77.7	77.3	-0.5
	Ratio of imports to consumption (percent)	12.8	10.5	9.8	8.6	9.5	10.5
	Ratio of exports to production (percent)	12.0	10.5	9.0	0.0	5.5	10.0

Table AG-4—Continued
Agricultural products sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

1999 2000 20	dity group 1	TC e I	1999
)22 (
17,450 17,450 17,3	blishments		17,450
91.0 91.0 9			91.0
(¹) (¹)	ion (percent)		(¹)
2,500 2,640 2,2			
498 635 6			498
331 311 3			331
2,333 2,316 1,9			2,333
167 324 3	million dollars)		167
14.2 13.4 1			14.2
19.9 24.1 2	to production (percent)		19.9
	, ,)23 [
81,000 81,000 81,0	blishments		81,000
155.0 155.0 15			155.0
(¹) (¹)	ion (percent)		(¹)
2,058 2,101 2,1			2,058
743 797 8			743
268 247 2	illion dollars)		268
1,583 1,550 1,5	consumption (million dollars) 1,		1,583
475 551 5			475
16.9 15.9 1	to consumption (percent)		16.9
36.1 38.0 3	to shipments (percent)		36.1
)24 (
55,000 55,000 55,0	olishments		55,000
115.0 115.0 11	usands)		115.0
(¹) (¹)	ion (percent)		(¹)
2,383 2,199 2,5			2,383
562 638 6			562
1,031 1,024 1,0			1,031
2,852 2,585 2,9	onsumption (million dollars) 2,		2,852
-469 -386 -3			-469
36.1 39.6 3			36.1
23.6 29.0 2			23.6
1,031 1,024 1,0 2,852 2,585 2,9 -469 -386 -3 36.1 39.6 3	illion dollars) 1, consumption (million dollars) 2, million dollars) - to consumption (percent) 3		1,031 2,852 -469 36.1

Table AG-4—Continued
Agricultural products sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC		4000	0000	0004	2000	0000	Percent change,
code	Industry/commodity group	1999	2000	2001	2002	2003	2003 from 2002
AG025	Dried fruit other than tropical:						
	Number of establishments	40	40	40	40	40	0.0
	Employees (thousands)	9.0	9.0	9.0	9.0	9.0	0.0
	Capacity utilization (percent)	(³)	(³)	(³)	(³)	(¹)	(1)
	U.S. shipments (million dollars)	1,149	1,166	799	960	869	-9.5
	U.S. exports (million dollars)	379	342	349	338	366	8.5
	U.S. imports (million dollars)	78	63	63	90	133	48.0
	Apparent U.S. consumption (million dollars)	848	887	514	712	635	- 10.8
	Trade balance (million dollars)	301	279	285	248	234	-5.8
	Ratio of imports to consumption (percent)	9.2	7.1	12.3	12.6	20.9	65.9
	Ratio of exports to shipments (percent)	33.0	29.4	43.6	35.2	42.1	19.6
AG026	Frozen fruit:						
	Number of establishments	40	40	40	40	40	0.0
	Employees (thousands)	6.0	6.0	6.0	6.0	6.0	0.0
	Capacity utilization (percent)	(³)					
	U.S. shipments (million dollars)	701	669	692	775	629	- 18.8
	U.S. exports (million dollars)	89	86	80	80	81	0.8
	U.S. imports (million dollars)	125	122	117	152	202	33.1
	Apparent U.S. consumption (million dollars)	738	705	729	847	751	-11.4
	Trade balance (million dollars)	-37	-36	-37	-72	-122	-69.1
	Ratio of imports to consumption (percent)	17.0	17.3	16.0	17.9	26.9	50.3
	Ratio of exports to shipments (percent)	12.7	12.8	11.6	10.3	12.8	24.3
AG027	Prepared or preserved fruit:						
	Number of establishments	200	200	200	200	200	0.0
	Employees (thousands)	20.0	20.0	20.0	20.0	20.0	0.0
	Capacity utilization (percent)	(³)	(3)				
	U.S. shipments (million dollars)	4,499	4,724	4,960	5,209	4,391	-15.7
	U.S. exports (million dollars)	180	190	195	184	203	10.0
	U.S. imports (million dollars)	576	547	559	622	688	10.7
	Apparent U.S. consumption (million dollars)	4,895	5,080	5,324	5,646	4,876	-13.6
	Trade balance (million dollars)	-396	-356	-364	-437	-485	-10.9
	Ratio of imports to consumption (percent)	11.8	10.8	10.5	11.0	14.1	28.2
	Ratio of exports to shipments (percent)	4.0	4.0	3.9	3.5	4.6	31.4

Table AG-4—Continued
Agricultural products sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC	arai products sector. Frome or o.o. madsa y and market, by						Percent change,
code	Industry/commodity group	1999	2000	2001	2002	2003	2003 from 2002
AG028	Coffee and tea:						
	Number of establishments	247	247	247	247	247	0.0
	Employees (thousands)	12.0	12.0	12.0	12.0	12.0	0.0
	Capacity utilization (percent)	(³)					
	U.S. shipments (million dollars)	7,116	6,300	4,855	4,855	4,862	(⁴)
	U.S. exports (million dollars)	284	298	314	297	348	16.9
	U.S. imports (million dollars)	3,114	2,921	1,915	1,942	2,228	14.7
	Apparent U.S. consumption (million dollars)	9,946	8,923	6,456	6,500	6,742	3.7
	Trade balance (million dollars)	-2,830	-2,623	-1,601	-1,645	-1,880	-14.3
	Ratio of imports to consumption (percent)	31.3	32.7	29.7	29.9	33.0	10.4
	Ratio of exports to shipments (percent)	4.0	4.7	6.5	6.1	7.1	16.4
AG029	Spices:						
	Number of establishments	274	274	274	274	274	0.0
	Employees (thousands)	13.0	13.0	13.0	13.0	13.0	0.0
	Capacity utilization (percent)	(³)	(3)				
	U.S. shipments (million dollars)	1,765	1,800	1,836	1,731	1,731	0.0
	U.S. exports (million dollars)	72	80	76	70	76	9.6
	U.S. imports (million dollars)	530	552	517	549	682	24.2
	Apparent U.S. consumption (million dollars)	2,223	2,272	2,277	2,211	2,337	5.7
	Trade balance (million dollars)	-458	-472	-441	-480	-606	-26.4
	Ratio of imports to consumption (percent)	23.8	24.3	22.7	24.8	29.2	17.7
	Ratio of exports to shipments (percent)	4.1	4.4	4.1	4.0	4.4	10.0
AG030	Cereals:						
	Number of establishments	282,000	265,000	250,000	235,000	220,000	-6.4
	Employees (thousands)	(³)	(3)				
	Capacity utilization (percent)	(¹)	(¹)	(¹)	(¹)	(¹)	$\binom{1}{1}$
	U.S. production (million dollars)	28,770	25,760	26,900	26,800	29,250	9.1
	U.S. exports (million dollars)	10,128	9,467	9,397	9,929	10,429	5.0
	U.S. imports (million dollars)	730	660	761	735	646	-12.1
	Apparent U.S. consumption (million dollars)	19,371	16,952	18,264	17,606	19,466	10.6
	Trade balance (million dollars)	9,399	8,808	8,636	9,194	9,784	6.4
	Ratio of imports to consumption (percent)	3.8	3.9	4.2	4.2	3.3	-21.4
	Ratio of exports to production (percent)	35.2	36.8	34.9	37.1	35.7	-3.8

Table AG-4—Continued
Agricultural products sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
AG031	Milled grains, malts, and starches:						
, , , ,	Number of establishments	515	515	500	500	490	-2.0
	Employees (thousands)	21.0	21.0	20.0	20.0	18.0	-10.0
	Capacity utilization (percent)	77	78	85	87	85	-2.3
	U.S. shipments (million dollars)	12,753	12,500	12,125	12,125	12,000	-1.0
	U.S. exports (million dollars)	439	402	446	594	599	1.0
	U.S. imports (million dollars)	261	304	305	379	441	16.3
	Apparent U.S. consumption (million dollars)	12,575	12,402	11,983	11,910	11,841	-0.6
	Trade balance (million dollars)	178	98	142	215	159	-26.1
	Ratio of imports to consumption (percent)	2.1	2.5	2.5	3.2	3.7	15.6
	Ratio of exports to shipments (percent)	3.4	3.2	3.7	4.9	5.0	2.0
AG032	Oilseeds:						
	Number of establishments	282,000	265,000	250,000	235,000	220,000	-6.4
	Employees (thousands)	(³)					
	Capacity utilization (percent)	(¹)	(¹)	(¹)	(¹)	(¹)	$\binom{1}{1}$
	U.S. production (million dollars)	14,9ÒÓ	13,3ÒÓ	13,6ÒÓ	13,8ÒÓ	16,4ÒÓ	18.8
	U.S. exports (million dollars)	4,694	5,419	5,642	5,790	8,153	40.8
	U.S. imports (million dollars)	238	231	203	191	208	9.1
	Apparent U.S. consumption (million dollars)	10,443	8,112	8,161	8,201	8,455	3.1
	Trade balance (million dollars)	4,457	5,188	5,439	5,599	7,945	41.9
	Ratio of imports to consumption (percent)	2.3	2.8	2.5	2.3	2.5	8.7
	Ratio of exports to production (percent)	31.5	40.7	41.5	42.0	49.7	18.3
AG033	Animal or vegetable fats and oils:						
	Number of establishments	510	506	502	500	500	0.0
	Employees (thousands)	29.0	27.0	28.0	28.0	28.0	0.0
	Capacity utilization (percent)	84	87	90	90	88	-2.2
	U.S. shipments (million dollars)	8,430	7,400	7,000	8,600	9,900	15.1
	U.S. exports (million dollars)	1,947	1,450	1,405	1,917	1,986	3.6
	U.S. imports (million dollars)	1,348	1,311	1,128	1,285	1,491	16.1
	Apparent U.S. consumption (million dollars)	7,831	7,261	6,723	7,968	9,405	18.0
	Trade balance (million dollars)	599	139	277	632	495	-21.7
	Ratio of imports to consumption (percent)	17.2	18.1	16.8	16.1	15.9	-1.2
	Ratio of exports to shipments (percent)	23.1	19.6	20.1	22.3	20.1	-9.9

Table AG-4—Continued
Agricultural products sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
AG034	Pasta, cereals, and other bakery goods:						
	Number of establishments	4,450	4,450	4,450	4,425	4,425	0.0
	Employees (thousands)	297.0	303.0	310.0	303.0	303.0	0.0
	Capacity utilization (percent)	72	70	73	75	73	-2.7
	U.S. shipments (million dollars)	62,731	64,751	66,837	68,174	68,174	0.0
	U.S. exports (million dollars)	1,044	1,092	1,153	1,184	1,287	8.7
	U.S. imports (million dollars)	1,637	1,755	1,902	2,191	2,501	14.1
	Apparent U.S. consumption (million dollars)	63,324	65,413	67,585	69,182	69,388	(4)
	Trade balance (million dollars)	-593	-662	-748	-1,008	-1,214	-20.4
	Ratio of imports to consumption (percent)	2.6	2.7	2.8	3.2	3.6	12.5
	Ratio of exports to shipments (percent)	1.7	1.7	1.7	1.7	1.9	11.8
AG035	Sauces, condiments, and soups:						
	Number of establishments	255	255	255	255	255	0.0
	Employees (thousands)	30.0	30.0	30.0	30.0	30.0	0.0
	Capacity utilization (percent)	68	60	65	70	60	-14.3
	U.S. shipments (million dollars)	15,828	16,065	16,390	17,210	16,065	-6.7
	U.S. exports (million dollars)	587	641	737	761	813	6.8
	U.S. imports (million dollars)	457	502	576	670	663	-1.1
	Apparent U.S. consumption (million dollars)	15,698	15,926	16,229	17,119	15,915	-7.0
	Trade balance (million dollars)	130	139	161	91	150	64.9
	Ratio of imports to consumption (percent)	2.9	3.2	3.5	3.9	4.2	7.7
	Ratio of exports to shipments (percent)	3.7	4.0	4.5	4.4	5.1	15.9
AG036	Infant formulas, malt extracts, and other edible						
	preparations:						
	Number of establishments	1,400	1,400	1,400	1,400	1,400	0.0
	Employees (thousands)	105.0	105.0	105.0	105.0	100.0	-4.8
	Capacity utilization (percent)	72	70	75	75	75	0.0
	U.S. shipments (million dollars)	33,675	34,685	36,419	37,147	39,004	5.0
	U.S. exports (million dollars)	2,412	2,401	2,729	2,582	2,546	-1.4
	U.S. imports (million dollars)	556	556	659	795	920	15.7
	Apparent U.S. consumption (million dollars)	31,819	32,840	34,349	35,360	37,378	5.7
	Trade balance (million dollars)	1,856	1,845	2,070	1,787	1,626	-9.0
	Ratio of imports to consumption (percent)	[′] 1.7	1.7	1.9	2.2	2.5	13.6
	Ratio of exports to shipments (percent)	7.2	6.9	7.5	6.9	6.5	-5.8

Table AG-4—Continued
Agricultural products sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC	In decades the second difference of	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
	Industry/commodity group	1999	2000	2001	2002	2003	2003 110111 2002
AG037	Cocoa, chocolate, and confectionery:	4 000	4 000	4 000	4.050	4 000	0.7
	Number of establishments	1,200	1,300	1,300	1,350	1,300	-3.7
	Employees (thousands)	80.0	90.0	90.0	90.0	68.0	-24.4
	Capacity utilization (percent)	85	87	87	87	87	0.0
	U.S. shipments (million dollars)	14,000	16,000	16,000	16,500	17,200	4.2
	U.S. exports (million dollars)	697	851	997	817	914	12.0
	U.S. imports (million dollars)	2,238	2,178	2,301	2,662	3,535	32.8
	Apparent U.S. consumption (million dollars)	15,540	17,328	17,304	18,346	19,821	8.0
	Trade balance (million dollars)	-1,540	-1,328	-1,304	-1,846	-2,621	-42.0
	Ratio of imports to consumption (percent)	14.4	12.6	13.3	14.5	17.8	22.8
	Ratio of exports to shipments (percent)	5.0	5.3	6.2	4.9	5.3	8.2
AG038	Fruit and vegetable juices:						
	Number of establishments	95	94	92	90	89	-1.1
	Employees (thousands)	145.0	144.0	140.0	140.0	138.0	-1.4
	Capacity utilization (percent)	83	83	83	83	83	0.0
	U.S. shipments (million dollars)	2,900	3,100	3,000	3,000	2,900	-3.3
	U.S. exports (million dollars)	748	713	665	682	674	-1.2
	U.S. imports (million dollars)	796	767	661	675	793	17.5
	Apparent U.S. consumption (million dollars)	2,948	3,153	2,995	2,993	3,019	0.9
	Trade balance (million dollars)	-48	-53	5	7	-119	(²)
	Ratio of imports to consumption (percent)	27.0	24.3	22.1	22.5	26.3	16.9
	Ratio of exports to shipments (percent)	25.8	23.0	22.2	22.7	23.2	2.2
AG039	Nonalcoholic beverages, excluding fruit and						
	vegetable juices:						
	Number of establishments	3,200	3,200	3,200	3,200	3,200	0.0
	Employees (thousands)	110.0	110.0	110.0	110.0	110.0	0.0
	Capacity utilization (percent)	67	67	67	67	67	0.0
	U.S. shipments (million dollars)	62,000	63,000	65,000	70,370	73,000	3.7
	U.S. exports (million dollars)	328	312	312	334	397	18.8
	U.S. imports (million dollars)	625	683	745	823	966	17.4
	Apparent U.S. consumption (million dollars)	62,298	63,371	65,434	70,859	73,569	3.8
	Trade balance (million dollars)	-298	-371	-434	-489	-569	-16.4
	Ratio of imports to consumption (percent)	1.0	1.1	1.1	1.2	1.3	8.3
	Ratio of exports to shipments (percent)	0.5	0.5	0.5	0.5	0.5	0.0

Table AG-4—Continued
Agricultural products sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
AG040	Malt beverages:						
	Number of establishments	529	529	529	529	529	0.0
	Employees (thousands)	30.0	31.0	33.0	33.0	31.0	-6.1
	Capacity utilization (percent)	80	79	80	80	80	0.0
	U.S. shipments (million dollars)	16,907	16,544	16,925	16,925	16,925	0.0
	U.S. exports (million dollars)	201	169	191	171	172	0.9
	U.S. imports (million dollars)	1,881	2,166	2,333	2,566	2,664	3.8
	Apparent U.S. consumption (million dollars)	18,587	18,540	19,067	19,320	19,417	0.5
	Trade balance (million dollars)	-1,680	-1,996	-2,142	-2,395	-2,492	-4.1
	Ratio of imports to consumption (percent)	10.1	11.7	12.2	13.3	13.7	3.0
	Ratio of exports to shipments (percent)	1.2	1.0	1.1	1.0	1.0	0.0
AG041	Wine and certain other fermented beverages:						
	Number of establishments	2,000	2,646	2,646	2,646	2,646	0.0
	Employees (thousands)	21.0	22.0	23.0	24.0	24.0	0.0
	Capacity utilization (percent)	79	80	82	82	82	0.0
	U.S. shipments (million dollars)	6,618	7,208	7,854	7,854	8,100	3.1
	U.S. exports (million dollars)	541	551	531	541	634	17.1
	U.S. imports (million dollars)	2,210	2,259	2,316	2,740	3,307	20.7
	Apparent U.S. consumption (million dollars)	8,287	8,916	9,639	10,053	10,773	7.2
	Trade balance (million dollars)	-1,669	-1,708	<i>-</i> 1,785	-2,199	-2,673	-21.6
	Ratio of imports to consumption (percent)	26.7	25.3	24.0	27.3	30.7	12.5
	Ratio of exports to shipments (percent)	8.2	7.6	6.8	6.9	7.8	13.0
AG042	Distilled spirits:						
	Number of establishments	57	57	57	57	57	0.0
	Employees (thousands)	6.0	6.0	8.0	8.0	8.0	0.0
	Capacity utilization (percent)	63	63	68	68	75	10.3
	U.S. shipments (million dollars)	3,063	3,860	3,929	3,929	4,050	3.1
	U.S. exports (million dollars)	480	483	534	555	592	6.7
	U.S. imports (million dollars)	2,383	2,727	2,848	3,111	3,453	11.0
	Apparent U.S. consumption (million dollars)	4,965	6,104	6,242	6,485	6,911	6.6
	Trade balance (million dollars)	-1,902	-2,244	-2,313	-2,556	-2,861	-11.9
	Ratio of imports to consumption (percent)	48.0	44.7	45.6	48.0	50.0	4.2
	Ratio of exports to shipments (percent)	15.7	12.5	13.6	14.1	14.6	3.5

Table AG-4—Continued
Agricultural products sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC							Percent change,
code	Industry/commodity group	1999	2000	2001	2002	2003	2003 from 2002
AG043	Unmanufactured tobacco:						
	Number of establishments	21	21	20	20	20	0.0
	Employees (thousands)	4.0	4.0	4.0	4.0	4.0	0.0
	Capacity utilization (percent)	(¹)	(¹)	(¹)	(¹)	(¹)	(1)
	U.S. production (million dollars)	2,370	2,122	2,187	2,300	2,186	-5.0
	U.S. exports (million dollars)	1,294	1,222	1,268	1,050	1,035	-1.4
	U.S. imports (million dollars)	711	628	680	716	757	5.8
	Apparent U.S. consumption (million dollars)	1,787	1,528	1,599	1,966	1,908	-3.0
	Trade balance (million dollars)	583	594	588	334	278	-16.7
	Ratio of imports to consumption (percent)	39.8	41.1	42.5	36.4	39.7	9.1
	Ratio of exports to production (percent)	54.6	57.6	58.0	45.6	47.4	3.9
AG044	Cigars and certain other manufactured tobacco:						
	Number of establishments	57	57	57	57	57	. 0.0
	Employees (thousands)	3.0	3.0	3.0	3.0	3.0	0.0
	Capacity utilization (percent)	75	74	73	72	72	0.0
	U.S. shipments (million dollars)	1,235	1,193	1,100	1,010	1,010	0.0
	U.S. exports (million dollars)	651	709	616	485	442	-8.7
	U.S. imports (million dollars)	301	290	285	299	307	2.5
	Apparent U.S. consumption (million dollars)	885	774	769	825	875	6.0
	Trade balance (million dollars)	350	419	331	185	135	-26.8
	Ratio of imports to consumption (percent)	34.0	37.5	37.1	36.3	35.1	-3.3
	Ratio of exports to shipments (percent)	52.7	59.4	56.0	48.0	43.8	-8.8
AG045	Cigarettes:						
	Number of establishments	10	10	10	10	10	0.0
	Employees (thousands)	18.0	18.0	18.0	18.0	18.0	0.0
	Capacity utilization (percent)	71	70	71	70	70	0.0
	U.S. shipments (million dollars)	39,686	39,686	42,787	45,696	46,000	0.7
	U.S. exports (million dollars)	3,232	3,308	2,118	1,463	1,403	-4.1
	U.S. imports (million dollars)	112	212	189	230	234	2.0
	Apparent U.S. consumption (million dollars)	36,566	36,590	40,857	44,462	44,831	0.8
	Trade balance (million dollars)	3,120	3,096	1,930	1,234	1,169	-5.3
	Ratio of imports to consumption (percent)	0.3	0.6	0.5	0.5	0.5	0.0
	Ratio of exports to shipments (percent)	8.1	8.3	5.0	3.2	3.0	-6.3

Table AG-4—Continued
Agricultural products sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC	La da administrativa de la companione	4000	0000	0004	0000	2002	Percent change,
code	Industry/commodity group	1999	2000	2001	2002	2003	2003 from 2002
AG046	Hides, skins, and leather:						
	Number of establishments	1,220	1,220	1,220	1,220	1,220	0.0
	Employees (thousands)	18.0	17.0	16.0	16.0	16.0	0.0
	Capacity utilization (percent)	(³)	(³)	(³)	(³)	(³)	(³)
	U.S. shipments (million dollars)	5,228	5,253	5,255	5,085	4,886	-3.9
	U.S. exports (million dollars)	1,850	2,330	2,650	2,390	2,492	4.2
	U.S. imports (million dollars)	1,052	1,167	1,032	935	817	-12.6
	Apparent U.S. consumption (million dollars)	4,430	4,090	3,638	3,629	3,211	-11.5
	Trade balance (million dollars)	798	1,163	1,617	1,456	1,675	15.0
	Ratio of imports to consumption (percent)	23.7	28.5	28.4	25.8	25.4	-1.6
	Ratio of exports to shipments (percent)	35.4	44.4	50.4	47.0	51.0	8.5
AG047	Furskins:						
	Number of establishments	398	350	325	318	308	-3.1
	Employees (thousands)	2.0	2.0	2.0	2.0	2.0	0.0
	Capacity utilization (percent)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	U.S. shipments (million dollars)	157	151	166	128	165	28.9
	U.S. exports (million dollars)	1 41	158	173	173	158	-8.7
	U.S. imports (million dollars)	73	87	96	87	87	(4)
	Apparent U.S. consumption (million dollars)	90	81	89	43	95	122.6
	Trade balance (million dollars)	67	70	77	85	70	-17.8
	Ratio of imports to consumption (percent)	81.6	⁵108.1	⁵107.7	⁵204.6	92.2	-54.9
	Ratio of exports to shipments (percent)	89.5	⁵104.4	⁵104.1	⁵134.8	95.5	-29.2
AG048	Wool and other animal hair:						
	Number of establishments	67,940	67,800	65,658	64,695	64,033	-1.0
	Employees (thousands)	(³)	(³)	(³)	(³)	(³)	(³)
	Capacity utilization (percent)	(1)	(¹)	(¹)	(¹)	(¹)	(1)
	U.S. production (million dollars)	28́	<u>26</u>	2 0	25	31	24.0
	U.S. exports (million dollars)	22	19	11	26	29	11.6
	U.S. imports (million dollars)	70	74	57	42	38	-8.5
	Apparent U.S. consumption (million dollars)	76	81	66	41	41	- 1.2
	Trade balance (million dollars)	-48	-55	-46	-16	-10	40.5
	Ratio of imports to consumption (percent)	92.5	90.9	86.3	⁵101.4	93.9	-7.4
	Ratio of exports to production (percent)	79.8	71.8	54.7	⁵102.3	92.1	-10.0
	(hereal)	· - · -					

Table AG-4—Continued
Agricultural products sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
AG049	Cotton, not carded or combed:						
	Number of establishments	30,114	30,000	30,000	30,000	30,000	0.0
	Employees (thousands)	166.0	160.0	160.0	160.0	160.0	0.0
	Capacity utilization (percent)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	U.S. production (million dollars)	3,810	4,260	3,384	4,678	4,110	-12.1
	U.S. exports (million dollars)	968	1,883	2,164	2,015	3,203	59.0
	U.S. imports (million dollars)	136	21	4	20	26	29.9
	Apparent U.S. consumption (million dollars)	2,978	2,398	1,224	2,683	933	-65.2
	Trade balance (million dollars)	832	1,862	2,160	1,995	3,177	59.3
	Ratio of imports to consumption (percent)	4.6	0.9	0.3	0.7	2.8	300.0
	Ratio of exports to production (percent)	25.4	44.2	64.0	43.1	77.9	80.7
AG050	Ethyl alcohol for nonbeverage purposes:						
	Number of establishments	57	62	61	60	76	26.7
	Employees (thousands)	7.0	8.0	8.0	8.0	8.0	0.0
	Capacity utilization (percent)	78	87	75	79	79	0.0
	U.S. production (million dollars)	2,000	2,000	1,742	2,000	2,824	41.2
	U.S. exports (million dollars)	58	91	125	71	103	44.5
	U.S. imports (million dollars)	130	162	178	170	191	12.2
	Apparent U.S. consumption (million dollars)	2,073	2,070	1,795	2,099	2,912	38.7
	Trade balance (million dollars)	-73	-70	-53	-99	-88	11.2
	Ratio of imports to consumption (percent)	6.3	7.8	9.9	8.1	6.6	-18.5
	Ratio of exports to production (percent)	2.9	4.6	7.2	3.6	3.7	2.8

¹Capacity utilization could not be meaningfully calculated for this industry.

Note.-Calculations based on unrounded data.

Source: These data have been estimated by the Commission's international trade analysts on the basis of primary and secondary data sources including discussions with various Government and industry contacts. These estimated data are subject to change either from secondary sources or from detailed surveys the Commission often conducts in the course of statutory investigations or other work. Further, these data may undergo adjustments based on revisions in tariff nomenclature, classification practices, or redefinitions of industry classes.

²Not meaningful.

³Not available.

⁴Less than 0.05 percent.

⁵Inventory changes, for which data are not available, likely account for ratios that exceed 100 percent.

Forest Products

Fred Forstall, Coordinator (202) 205-3443 alfred.forstall@usitc.gov

Change in 2003 from 2002:

U.S. trade deficit: Increased by \$980 million (7 percent) to \$15.2 billion U.S. exports: Increased by \$740 million (3 percent) to \$23.6 billion U.S. imports: Increased by \$1.7 billion (5 percent) to \$38.8 billion

The U.S. trade deficit in forest products increased between 2002 and 2003, primarily as a result of increased imports of wood veneer and wood panels (see table FP-1). Product groups with the largest increases in imports were wood veneer and wood panels; wood pulp and waste paper; and moldings, millwork, and joinery (see table FP-2). The continued strength of the U.S. housing market (both housing starts and residential repair and remodeling) in 2003 generated increased imports of wood panels, moldings, millwork, and joinery. Increased prices for structural panels (particularly oriented strand board) resulted from tight supplies in combination with strong demand¹ and led to a significant increase in the value of U.S. imports of wood veneer and wood panels during the period.² The value of wood pulp and waste paper imports increased as the impact of higher prices for wood pulp exceeded the impact of declining import quantity. The product group showing the largest decrease in imports was lumber. During 2002-03, the value of U.S. lumber imports decreased 10 percent, and the quantity increased 1 percent, which reflected the long-term trend.³ In spite of the continued strength of the U.S. housing market, oversupply in the U.S. lumber market continued to reflect strong domestic production, weak offshore export markets, and increased imports.⁴

The product groups with the largest increases in exports were wood pulp and waste paper and paperboard (see table FP-2). The increase in the value of wood pulp and waste paper exports reflected a large increase in exports of waste paper (22 percent by quantity),⁵ which offset a small decrease in exports of wood pulp. U.S. exports of waste paper have expanded in recent years primarily as a result of the large domestic supply of waste paper and increased recycling efforts.⁶ The increase in the value of

¹ The strong U.S. housing market was the most significant factor impacting demand for structural panels in 2003. Other factors included Hurricane Isabel, which hit the U.S. east coast, and U.S. Government purchases for rebuilding in Iraq. However, the impact of U.S. Government purchases was less significant than was widely reported, accounting for less than 1 percent of average monthly production. "APA forecast sees structural wood panel production flat in 2004," found at

http://www.paperloop.com/db_area/archive/pponews/2004/wk03_22_2004/125.html, retrieved May 11, 2004.

² "Historic panel market run set off by reduced supply," *Random Lengths Yardstick*, Vol. 13, No. 7, July 2003, pp. 1-2.

³ During 1999 to 2003, the value of U.S. lumber imports decreased steadily (- 3 percent compound annual growth rate or CAGR) while the quantity of U.S. lumber imports increased steadily (3 percent CAGR).

⁴ Wood Markets, Aug. 2002 (Vol. 7, No. 6), p. 1.

⁵ U.S. exports of waste paper increased at an average compound annual growth rate (CAGR) of 14 percent (by quantity) during 1999 to 2003.

⁶ U.S. International Trade Commission, *Industry & Trade Summary Wood Pulp and Waste Paper*, USITC publication 3490, 2002, p. 6.

Table FP-1
Forest products: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1999-2003¹

						Change, 200	3 from 2002
Item	1999	2000	2001	2002	2003	Absolute	Percent
			— Million dolla	irs			
U.S. exports of domestic merchandise: Canada China Mexico Japan United Kingdom Brazil Germany Korea Italy Finland All other	7,231 637 3,091 2,847 1,090 274 740 724 614 21 6,803	7,858 7,828 3,004 1,276 260 7908 737 18 7,268	7,462 820 3,282 2,497 1,143 223 671 561 636 18 6,430	7,502 1,058 3,057 1,047 2,047 2,049 6,075	7,960 1,314 3,287 1,014 1,90 5699 6,025	4576 2561 -13356 407 -50	6.1 24.5 6.3.7 1.1 6.7 1.5 9.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1
Total EU-15 OPEC Latin America CBERA Asia Sub-Saharan Africa Central and Eastern Europe	24,070 4,272 510 5,178 1,070 5,998 155 66	26,434 4,834 625 5,769 1,088 6,537 159 69	23,743 4,240 516 5,170 985 5,570 148 79	22,825 3,852 465 4,769 5,473 120	23,566 3,921 418 4,844 906 5,571 135 88	740 70 -47 75 -39 97 15	3.2 1.8 -10.2 1.6 -4.1 1.8 12.8 14.5
U.S. imports of merchandise for consumption: Canada China Mexico Japan United Kingdom Brazil Germany Korea Italy Finland All other	23,829 1,526 1,044 610 807 972 760 295 409 669 4,876	24,782 1,967 1,055 652 875 1,145 893 394 447 741 5,244	23,449 2,168 999 542 805 1,145 906 348 403 718 5,195	22,311 2,749 1,038 600 729 1,288 1,031 404 392 773 5,733	22,640 3,362 1,075 610 751 1,569 1,057 467 396 948 5,895	329 612 38 10 22 281 26 63 4 174 162	1.5 22.3 3.6 1.6 21.9 2.5 15.6 22.6 2.8
Total EU-15 OPEC Latin America CBERA Asia Sub-Saharan Africa Central and Eastern Europe	35,798 3,955 755 2,774 107 4,488 110 23	38,195 4,504 696 2,936 102 5,085 141 36	36,678 4,371 610 2,933 113 4,960 119 57	37,048 4,778 547 3,268 124 5,662 121 56	38,769 5,109 537 3,680 123 6,317 139 61	1,721 331 -10 411 (²) 655 19	4.6 6.9 -1.8 12.3 11.6 15.4 9.4

Table FP-1--Continued
Forest products: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1999-2003¹

						Change, 200	3 from 2002
Item	1999	2000	2001	2002	2003	Absolute	Percent
-			— Million dolla	ars —			
U.S. merchandise trade balance: Canada China Mexico Japan United Kingdom Brazil Germany Korea Italy Finland All other	-16,599 -890 2,046 2,237 283 -698 -20 429 205 -648 1,927	-16,924 -1,180 2,573 2,352 401 -884 -104 413 290 -723 2,024	-15,987 -1,348 2,283 1,955 338 -922 -235 212 233 -639 1,235	-14,809 -1,691 2,018 1,417 318 -1,083 -473 -255 235 -752 342	-14,680 -2,048 2,142 1,278 263 -1,380 -493 232 278 -926 130	129 -357 123 -139 -55 -296 -20 -23 43 -174 -211	0.9 -21.1 6.1 -9.8 -17.3 -27.3 -4.1 -9.0 18.2 -23.1 -61.8
Total EU-15 OPEC Latin America CBERA Asia Sub-Saharan Africa Central and Eastern Europe	-11,727 316 -245 2,404 963 1,510 45 43	-11,761 331 -71 2,833 986 1,452 18 33	-12,935 -132 -94 2,236 872 610 28 22	-14,223 -926 -82 1,500 821 -189 -1	-15,204 -1,188 -120 1,164 783 -747 -4 27	-980 -262 -37 -336 -38 -558 -3	-6.9 -28.3 -45.1 -22.4 -4.7 -296.0 -329.8 27.7

¹Import values are based on customs value; export values are based on f.a.s. value, U.S. port of export. ²Less than \$500,000.

Note.—Calculations based on unrounded data. The countries shown are those with the largest total U.S. trade (U.S. imports plus exports) in these products in 2003.

Table FP-2 Leading changes in U.S. exports and imports of forest products, 1999-2003

						Change, 200	3 from 2002
Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent
			—— Million d	ollars			
U.S. EXPORTS:							
Increases:							
Wood pulp and wastepaper (AG059)	3,540	4,619	3,711	3,853	4,112	259	6.7
Paperboard (AG061 A)	3,328	3,621	3,165	3,538	3,723	185	5.2
Printed matter (AG066)	4,195	4,306	4,353	4,006	4,160	154	3.9
Decreases:	,	•	,	,	,		
Tissue and tissue products (AG061B)	1,005	1,119	1,283	1,211	1,094	-117	-9.6
All other	12,002	12,768	11,231	10,217	10,476	258	2.5
TOTAL	24,070	26,434	23,743	22,825	23,566	740	3.2
U.S. IMPORTS:							
Increases:							
Wood veneer and wood panels (AG054)	3,574	3,471	3,280	3.730	4,938	1,208	32.4
Wood pulp and wastepaper (AG059)	2,604	3,388	2,650	2,371	2,603	232	9.8
Moldings, millwork, and joinery (AG053)	2,521	2,518	2,521	2,866	3,057	192	6.7
Decreases:	_,0	_, 0 . 0	_, -, -	_,000	0,00.		
Lumber (AG052)	7,820	7,071	6.854	6.647	6.007	-640	-9.6
All other	19,278	21,747	21,373	21,435	22,164	729	3.4
All value	10,210	21,171	21,070	21,700	22,104	120	
TOTAL	35,798	38,195	36,678	37,048	38,769	1,721	4.6

Note.-Calculations based on unrounded data.

U.S. exports of paperboard was primarily owing to higher prices in 2003 than in 2002 resulting from capacity reductions by U.S. paperboard manufacturers. Conversely, the decline in U.S. exports of tissue and tissue products (the group with the largest decline in export value) was primarily owing to lower prices in 2003 than in 2002 resulting from weak demand for away-from-home tissue products and capacity expansions. The decline in U.S. exports of tissue and tissue products was 10 percent by value but only 1 percent by quantity.

Canada remained the largest sector trading partner, accounting for 49 percent of total U.S. sector trade in 2003. Although the United States had trade surpluses in forest products with half of the top 10 trade partners (Mexico, Japan, the United Kingdom, Korea, and Italy), all surpluses combined were far smaller than the U.S. deficit with Canada. China overtook Mexico to become the second-largest sector trading partner, accounting for 8 percent of total trade in forest products. In 2003, the Mexican share of U.S. forest products trade remained at 7 percent, and Japan accounted for 4 percent.

In 2003, Canada accounted for 58 percent of U.S. sector imports. U.S. trade in forest products with Canada increased by \$786 million in 2003 over the previous year. Canada has significant forest resources and a well-developed forest products industry. Its industry generally has capacity in excess of domestic requirements and is in close proximity to U.S. markets. Lumber, wood panels, and newsprint were the top three product groups ranked by value of U.S. imports, but Canada supplies significant amounts in many other product groups. U.S. imports of lumber and oriented strand board from Canada benefitted from the strong U.S. housing market. The rapid development of the forest products industry in China is reflected in the growth of sector trade between China and the United States, which increased 23 percent during 2002-03.9 Top product groups for U.S. imports from China in 2003 were printed matter, miscellaneous paper products, and moldings, millwork, and joinery. The U.S. trade deficit with Brazil (third-largest behind Canada and China in 2003) has grown steadily in recent years. The expanding forest industry in Brazil enjoys a natural advantage, resulting from the combination of fast-growing tree species and favorable growing conditions. That advantage was initially manifest in the production of wood pulp and subsequently in the production of structural wood panels and millwork.

In 2003, Canada was the largest market for U.S. forest products, accounting for 34 percent of all U.S. exports. The U.S. industry supplies significant amounts of paperboard to many countries including Canada, China, Mexico, and Japan. Because their supplies of wood fiber are limited, the paper industries in China and Japan are based primarily on recycled fiber, making both countries principal markets for U.S. waste paper. In 2003, China alone accounted for 43 percent (by quantity) of U.S. waste paper exports. In addition to the exports of paperboard noted above, brisk trade in paper packaging with Mexico resulted from the increased demand for packaging products created by industries in the Maquiladora zone. In 2003, Canada, China, Mexico, and Japan were the principle markets for U.S. lumber, and Japan remained the largest U.S. export market for logs and rough wood products. The preference to import logs rather than finished lumber is rooted in the unique character of traditional Japanese construction methods. However, during 2002-03, the U.S. trade surplus with Japan continued to decline owing to increased competition in the Japanese market for forest products.

⁷ "U.S. kraft linerboard drops \$20/ton; box business continues 4-year fall," *Pulp & Paper*, Vol. 78, No. 1, Jan. 2004, p. 9.

^{8 &}quot;Rising... costs will burden tissue mills this year," Pulp & Paper, Vol. 78, No. 2, Feb. 2004, p. 7.

⁹ The annual increase in 2003 was very close to the latest 5-year trend. From 1999 to 2003, forest products trade between the United States and China increased at an average compound annual growth rate of 21 percent.

¹⁰ During 1999 to 2003, the U.S. trade surplus with Japan has declined at an average CAGR of 13 percent.

Table FP-3
Forest products: U.S. trade for industry/commodity groups and subgroups, 1999-2003¹

USITC							Change, 2003 from 2002		
code ²	Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent	
10054				Million	dollars ———				
AG051	Logs and rough wood products: Exports Imports Trade balance	1,885 495 1,390	1,941 576 1,365	1,622 582 1,039	1,490 582 907	1,468 577 891	-22 -5 -17	-1.5 -0.9 -1.8	
AG052	Lumber: Exports Imports Trade balance	2,184 7,820 -5,636	2,210 7,071 -4,860	1,781 6,854 -5,073	1,720 6,647 -4,927	1,725 6,007 -4,282	5 -640 646	0.3 -9.6 13.1	
AG053	Moldings, millwork, and joinery: Exports Imports Trade balance	545 2,521 -1,976	553 2,518 -1,966	467 2,521 -2,054	443 2,866 -2,423	495 3,057 -2,563	52 192 -140	11.7 6.7 -5.8	
AG054	Wood veneer and wood panels: Exports Imports Trade balance	958 3,574 -2,615	1,029 3,471 -2,443	889 3,280 -2,391	928 3,730 -2,801	905 4,938 -4,033	-24 1,208 -1,231	-2.5 32.4 -44.0	
AG055	Wooden containers: Exports Imports Trade balance	172 471 -299	197 565 -369	150 555 -405	135 612 -477	154 605 -451	20 -7 26	14.5 -1.1 5.5	
AG056 AG057	Tools and tool handles of wood: Exports Imports Trade balance Miscellances	44 120 -75	53 136 -82	37 130 -93	42 131 -89	50 139 -89	8 8 (³)	20.3 6.4 0.1	
AG057	Miscellaneous articles of wood: Exports Imports Trade balance	187 1,007 -821	193 1,111 -918	175 1,041 -866	167 1,152 -985	167 1,236 -1,069	(³) 84 -84	-0.1 7.3 -8.5	
	Cork and rattan: Exports Imports Trade balance	90 450 -359	86 485 -399	53 522 -469	61 570 -509	65 616 -551	4 46 -42	6.9 8.0 -8.2	
AG059	Wood pulp and wastepaper: Exports Imports Trade balance	3,540 2,604 936	4,619 3,388 1,231	3,711 2,650 1,061	3,853 2,371 1,482	4,112 2,603 1,509	259 232 27	6.7 9.8 1.8	
AG060	Paper boxes and bags: Exports Imports Trade balance	1,416 802 615	1,500 940 561	1,445 1,011 435	1,315 1,121 195	1,348 1,231 117	32 110 -77	2.5 9.8 -39.8	
AG061	Industrial papers and paperboards: Exports Imports Trade balance	5,170 2,797 2,373	5,659 3,157 2,503	5,403 3,276 2,127	5,228 3,464 1,764	5,312 3,492 1,819	83 28 55	1.6 0.8 3.1	
AGU61 A	Paperboard: Exports Imports Trade balance	3,328 1,468 1,860	3,621 1,662 1,959	3,165 1,591 1,574	3,538 1,829 1,709	3,723 1,731 1,992	185 -98 283	5.2 -5.3 16.6	

Table FP-3--*Continued*Forest products: U.S. trade for industry/commodity groups and subgroups, 1999-2003¹

USITC			-				Change, 200	3 from 2002
code ²	Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent
				——— Million o	dollars ———			
AG061B								
	Exports	1,005 768	1,119	1,283	1,211	1,094	-117	-9.6
	Imports	237	906 214	1,082 201	1,237 -26	1,283 -188	46 -162	3.7 -628.0
AG061C	Industrial paper:					,		
	ExportsImports	837 561	919 589	954 602	480 398	494 479	14 80	3.0
	Trade balance	277	330	352	396 81	479 15	-66	20.1 -81.0
AG062	Newsprint:						-	
	ExportsImports	423 3,517	492 3,789	409 3,597	330 3,039	325 2,991	-6 -48	-1.7 -1.6
	Trade balance	-3,094	-3,297	-3,188	-2,709	-2,667	42	1.6
AG063	Printing and writing papers:	•		,	,	Ţ.		2.0
	ExportsImports	1,338 4,337	1,522 4,977	1,308 4,761	620 4,372	625 4,549	5 177	0.8 4.1
	Trade balance	-3,000	-3,455	-3,453	-3,752	-3,924	-172	-4.6
AG064	Certain specialty papers:	,	,	,	•	•		
	ExportsImports	641 971	689 1,138	618 1,067	1,056 909	1,114 1,046	58 137	5.5 15.1
	Imports	-330	-449	-449	147	1,046	-79	-53.6
AG065	Miscellaneous paper products:					•		
	Exports	1,281	1,385	1,322	1,431	1,541	110	7.7 2.3
	Imports	1,150 131	1,385	1,295 26	1,740 -309	1,779 -238	40 71	22.9
AG066	Printed matter:		()					
	Exports	4,195	4,306	4,353	4,006	4,160	154	3.9
	Imports	3,161 1.034	3,489 817	3,536 817	3,742 263	3,901 259	158 -4	4.2 -1.6
	Trado balanco	1,007	017	017	200	200		1.0

¹Import values are based on customs value; export values are based on f.a.s. value, U.S. port of export.

Note.—Calculations based on unrounded data.

²This coding system is used by the U.S. International Trade Commission to identify major groupings and subgroupings of HTS import and export items for trade monitoring purposes

³Less than \$500,000.

Table FP-4
Forest products sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC		4000	2222	0004	2222		Percent change,
code	Industry/commodity group	1999	2000	2001	2002	2003	2003 from 2002
AG051	Logs and rough wood products:						
	Number of establishments	13,800	13,500	13,500	13,500	13,500	0.0
	Employees (thousands)	85.0	83.0	84.0	84.0	84.0	0.0
	Capacity utilization (percent)	92	95	93	93	93	0.0
	U.S. shipments (million dollars)	48,600	51,200	44,500	45,600	49,400	8.3
	U.S. exports (million dollars)	1,885	1,941	1,622	1,490	1,468	-1.5
	U.S. imports (million dollars)	495	576	582	582	577	-0.9
	Apparent U.S. consumption (million dollars)	47,210	49,835	43,461	44,693	48,509	8.5
	Trade balance (million dollars)	1,390	1,365	1,039	907	891	- 1.8
	Ratio of imports to consumption (percent)	1.0	1.2	1.3	1.3	1.2	-7.7
	Ratio of exports to shipments (percent)	3.9	3.8	3.6	3.3	3.0	-9.1
AG052	Lumber:						
	Number of establishments	5,300	5,200	5,000	5,000	5,000	0.0
	Employees (thousands)	118.0	117.0	116.0	116.0	115.0	-0.9
	Capacity utilization (percent)	92	92	89	89	89	0.0
	U.S. shipments (million dollars)	24,700	23,400	21,500	22,100	21,800	-1.4
	U.S. exports (million dollars)	2,184	2,210	1,781	1,720	1,725	(¹)
	U.S. imports (million dollars)	7,820	7,071	6,854	6,647	6,007	-9.6
	Apparent U.S. consumption (million dollars)	30,336	28,260	26,573	27,027	26,082	-3.5
	Trade balance (million dollars)	-5,636	-4,860	-5,073	-4,927	-4,282	13.1
	Ratio of imports to consumption (percent)	25.8	25.0	25.8	24.6	23.0	-6.5
	Ratio of exports to shipments (percent)	8.8	9.4	8.3	7.8	7.9	1.3
AG053	Moldings, millwork, and joinery:						
	Number of establishments	5,300	5,200	5,200	5,200	5,200	0.0
	Employees (thousands)	154.0	154.0	162.0	167.0	167.0	0.0
	Capacity utilization (percent)	87	90	90	90	90	0.0
	U.S. shipments (million dollars)	20,100	21,000	21,000	22,600	23,600	4.4
	U.S. exports (million dollars)	545	553	467	443	495	11.7
	U.S. imports (million dollars)	2,521	2,518	2,521	2,866	3,057	6.7
	Apparent U.S. consumption (million dollars)	22,076	22,966	23,054	25,023	26,163	4.6
	Trade balance (million dollars)	-1,976	-1,966	-2,054	-2,423	-2,563	-5.8
	Ratio of imports to consumption (percent)	11.4	11.0	10.9	, 11.5	11.7	1.7
	Ratio of exports to shipments (percent)	2.7	2.6	2.2	2.0	2.1	5.0
		 ·					

Table FP-4—Continued Forest products sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
AG054	Wood veneer and wood panels:						
710001	Number of establishments	810	800	780	780	780	0.0
	Employees (thousands)	72.0	76.0	74.0	74.0	74.0	0.0
	Capacity utilization (percent)	82	83	85	85	85	0.0
	U.S. production (million dollars)	14.800	14,200	12,500	13,600	13,500	-0.7
	U.S. exports (million dollars)	958	1,029	889	928	905	-2.5
	U.S. imports (million dollars)	3,574	3,471	3,280	3,730	4,938	32.4
	Apparent U.S. consumption (million dollars)	17,415	16,643	14,891	16,401	17,533	6.9
	Trade balance (million dollars)	-2,615	-2,443	-2,391	-2,801	-4,033	-44.0
	Ratio of imports to consumption (percent)	20.5	20.9	22.0	22.7	28.2	24.2
	Ratio of exports to production (percent)	6.5	7.2	7.1	6.8	6.7	-1.5
AG055	Wooden containers:						
	Number of establishments	2,800	2,800	2,800	2,800	2,800	0.0
	Employees (thousands)	50.0	51.0	, 51.0	50.0	50.0	0.0
	Capacity utilization (percent)	82	85	85	85	85	0.0
	U.S. production (million dollars)	4,700	5,000	5,200	4,800	4,800	0.0
	U.S. exports (million dollars)	172	197	150	135	154	14.5
	U.S. imports (million dollars)	471	565	555	612	605	-1.1
	Apparent U.S. consumption (million dollars)	4,999	5,369	5,605	5,277	5,251	-0.5
	Trade balance (million dollars)	-299	-369	-405	-477	-451	5.5
	Ratio of imports to consumption (percent)	9.4	10.5	9.9	11.6	11.5	-0.9
	Ratio of exports to production (percent)	3.7	3.9	2.9	2.8	3.2	14.3
AG056	Tools and tool handles of wood:						
	Number of establishments	125	120	110	110	110	0.0
	Employees (thousands)	3.0	3.0	3.0	3.0	3.0	0.0
	Capacity utilization (percent)	78	75	75	75	75	0.0
	U.S. production (million dollars)	188	192	177	188	190	1.1
	U.S. exports (million dollars)	44	53	37	42	50	20.3
	U.S. imports (million dollars)	120	136	130	131	139	6.4
	Apparent U.S. consumption (million dollars)	263	274	270	277	279	0.7
	Trade balance (million dollars)	-75	-82	-93	-89	-89	(¹)
	Ratio of imports to consumption (percent)	45.4	49.4	48.1	47.3	49.9	5.5
	Ratio of exports to production (percent)	23.5	27.8	20.8	22.2	26.4	18.9

Table FP-4—Continued Forest products sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
AG058	Cork and rattan:						
	Number of establishments	30	30	30	30	30	0.0
	Employees (thousands)	2.0	2.0	2.0	2.0	2.0	0.0
	Capacity utilization (percent)	80	80	80	80	80	0.0
	U.S. production (million dollars)	110	115	120	120	120	0.0
	U.S. exports (million dollars)	90	86	53	61	65	6.9
	U.S. imports (million dollars)	450	485	522	570	616	8.0
	Apparent U.S. consumption (million dollars)	469	514	589	629	671	6.6
	Trade balance (million dollars)	-359	-399	-469	-509	-551	-8.2
	Ratio of imports to consumption (percent)	95.8	94.3	88.7	90.6	91.9	1.4
	Ratio of exports to production (percent)	82.0	74.5	44.4	51.0	54.5	6.9
AG059	Wood pulp and wastepaper:						•
	Number of establishments	68	68	67	66	65	-1.5
	Employees (thousands)	(²)	(²)	(²)	(²)	(²)	(²)
	Capacity utilization (percent)	84	84	78	81	82	1.2
	U.S. production (million dollars)	7,900	9,300	7,300	7,800	8,300	6.4
	U.S. exports (million dollars)	3,540	4,619	3,711	3,853	4,112	6.7
	U.S. imports (million dollars)	2,604	3,388	2,650	2,371	2,603	9.8
	Apparent U.S. consumption (million dollars)	6,964	8,069	6,239	6,318	6,791	7.5
	Trade balance (million dollars)	936	1,231	1,061	1,482	1,509	1.8
	Ratio of imports to consumption (percent)	37.4	42.0	42.5	37.5	38.3	2.1
	Ratio of exports to production (percent)	44.8	49.7	50.8	49.4	49.5	(¹)
AG060	Paper boxes and bags:						, ,
	Number of establishments	3,013	3,029	3,045	3,062	3,079	0.6
	Employees (thousands)	228.0	230.0	232.0	234.0	237.0	1.3
	Capacity utilization (percent)	(³)					
	U.S. production (million dollars)	43,600	47,700	45,700	48,300	49,700	2.9
	U.S. exports (million dollars)	1,416	1,500	1,445	1,315	1,348	2.5
	U.S. imports (million dollars)	802	940	1,011	1,121	1,231	9.8
	Apparent U.S. consumption (million dollars)	42,985	47,139	45,265	48,105	49,583	3.1
	Trade balance (million dollars)	615	561	435	195	117	-39.8
	Ratio of imports to consumption (percent)	1.9	2.0	2.2	2.3	2.5	8.7
	Ratio of exports to production (percent)	3.2	3.1	3.2	2.7	2.7	0.0

Table FP-4—Continued
Forest products sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
AG061 A	Paperboard:						
	Number of establishments	216	212	206	203	200	-1.5
	Employees (thousands)	51.0	51.0	49.0	48.0	48.0	0.0
	Capacity utilization (percent)	96	90	86	87	85	-2.3
	U.S. production (million dollars)	25,500	25,600	23,200	24,400	24,700	1.2
	U.S. exports (million dollars)	3,328	3,621	3,165	3,538	3,723	5.2
	U.S. imports (million dollars)	1,468	1,662	1,591	1,829	1,731	-5.3
	Apparent U.S. consumption (million dollars)	23,640	23,641	21,626	22,691	22,708	(¹)
	Trade balance (million dollars)	1,860	1,959	1,574	1,709	1,992	16.6
	Ratio of imports to consumption (percent)	6.2	7.0	7.4	8.1	7.6	-6.2
	Ratio of exports to production (percent)	13.0	14.1	13.6	14.5	15.1	4.1
AG061B	Tissue and tissue products:						
	Number of establishments	81	84	82	82	84	2.4
	Employees (thousands)	(²)	(²)	(²)	(²)	(²)	(²)
	Capacity utilization (percent)	96	93	91	90	92	2.2
	U.S. production (million dollars)	14,600	14,500	14,900	14,100	13,100	-7.1
	U.S. exports (million dollars)	1,005	1,119	1,283	1,211	1,094	-9.6
	U.S. imports (million dollars)	768	906	1,082	1,237	1,283	3.7
	Apparent U.S. consumption (million dollars)	14,363	14,286	14,699	14,126	13,288	-5.9
	Trade balance (million dollars)	237	214	201	-26	-188	-628.0
	Ratio of imports to consumption (percent)	5.4	6.3	7.4	8.8	9.7	10.2
	Ratio of exports to production (percent)	6.9	7.7	8.6	8.6	8.4	-2.3
AG061C	Industrial paper:						
	Number of establishments	75	73	71	70	69	-1.4
	Employees (thousands)	(²)	(²)	(²)	(²)	(²)	(²)
	Capacity utilization (percent)	90	84	85	82	81	- 1.2
	U.S. production (million dollars)	5,300	5,300	5,200	5,000	5,200	4.0
	U.S. exports (million dollars)	837	919	954	480	494	3.0
	U.S. imports (million dollars)	561	589	602	398	479	20.1
	Apparent U.S. consumption (million dollars)	5,023	4,970	4,848	4,919	5,185	5.4
	Trade balance (million dollars)	277	330	352	81	15	-81.0
	Ratio of imports to consumption (percent)	11.2	11.9	12.4	8.1	9.2	13.6
	Ratio of exports to production (percent)	15.8	17.3	18.4	9.6	9.5	-1.0

Table FP-4—Continued Forest products sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
AG062	Newsprint:						
	Number of establishments	24	24	24	20	19	-5.0
	Employees (thousands)	11.0	10.0	10.0	8.0	7.0	-12.5
	Capacity utilization (percent)	97	97	91	84	85	1.2
	U.S. shipments (million dollars)	3,316	3,495	3,209	2,440	2,473	1.4
	U.S. exports (million dollars)	423	492	409	330	325	-1.7
	U.S. imports (million dollars)	3,517	3,789	3,597	3,039	2,991	-1.6
	Apparent U.S. consumption (million dollars)	6,410	6,792	6,397	5,149	5,140	-0.2
	Trade balance (million dollars)	-3,094	-3,297	-3,188	-2,709	-2,667	1.6
	Ratio of imports to consumption (percent)	54.9	55.8	56.2	59.0	58.2	-1.4
	Ratio of exports to shipments (percent)	12.8	14.1	12.7	13.5	13.1	-3.0
AG063	Printing and writing papers:						
	Number of establishments	120	115	115	105	100	-4 .8
	Employees (thousands)	(²)	(²)	(²)	(²)	(²)	(²)
	Capacity utilization (percent)	(²)					
	U.S. shipments (million dollars)	23,379	24,267	21,511	21,600	20,900	-3.2
	U.S. exports (million dollars)	1,338	1,522	1,308	620	625	0.8
	U.S. imports (million dollars)	4,337	4,977	4,761	4,372	4,549	4.1
	Apparent U.S. consumption (million dollars)	26,379	27,722	24,964	25,352	24,824	-2.1
	Trade balance (million dollars)	-3,000	-3,455	-3,453	-3,752	-3,924	-4.6
	Ratio of imports to consumption (percent)	16.4	18.0	19.1	17.2	18.3	6.4
	Ratio of exports to shipments (percent)	5.7	6.3	6.1	2.9	3.0	3.4
AG064	Certain specialty papers:						
	Number of establishments	(²)	(²)	(²)	(²)	(²)	(²)
	Employees (thousands)	(²)	(²)	(²)	(²)	(²)	$\binom{2}{2}$
	Capacity utilization (percent)	(²)	(²)	· (2)	(²)	(²)	(²)
	U.S. shipments (million dollars)	5,300	5,564	5,600	5,700	5,900	3.5
	U.S. exports (million dollars)	641	689	618	1,056	1,114	5.5
	U.S. imports (million dollars)	971	1,138	1,067	909	1,046	15.1
	Apparent U.S. consumption (million dollars)	5,630	6,013	6,049	5,553	5,832	5.0
	Trade balance (million dollars)	-330	-449	-449	147	68	-53.6
	Ratio of imports to consumption (percent)	17.2	18.9	17.6	16.4	17.9	9.1
	Ratio of exports to shipments (percent)	12.1	12.4	11.0	18.5	18.9	2.2

Table FP-4—Continued Forest products sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
AG066	Printed matter:						
	Number of establishments	62,000	62,000	62,000	60,000	60,000	0.0
	Employees (thousands)	1,500.0	1,500.0	1,500.0	1,400.0	1,400.0	0.0
	Capacity utilization (percent)	76	75	71	69	(²)	(²)
	U.S. shipments (million dollars)	229,000	240,000	243,000	246,000	254,000	3.3
	U.S. exports (million dollars)	4,195	4,306	4,353	4,006	4,160	3.9
	U.S. imports (million dollars)	3,161	3,489	3,536	3,742	3,901	4.2
	Apparent U.S. consumption (million dollars)	227,966	239,183	242,183	245,737	253,741	3.3
	Trade balance (million dollars)	1,034	817	817	263	259	-1.6
	Ratio of imports to consumption (percent)	1.4	1.5	1.5	1.5	1.5	0.0
	Ratio of exports to shipments (percent)	1.8	1.8	1.8	1.6	1.6	0.0

¹Less than 0.05 percent.

Note.-Calculations based on unrounded data.

Source: These data have been estimated by the Commission's international trade analysts on the basis of primary and secondary data sources including discussions with various Government and industry contacts. These estimated data are subject to change either from secondary sources or from detailed surveys the Commission often conducts in the course of statutory investigations or other work. Further, these data may undergo adjustments based on revisions in tariff nomenclature, classification practices, or redefinitions of industry classes.

²Not available.

³Capacity utilization could not be meaningfully calculated for this industry.

Chemicals and Related Products

Stephen Wanser, Coordinator (202) 205-3363 stephen.wanser@usitc.gov

Change in 2003 from 2002:

U.S. trade deficit: Increased by \$6.4 billion (42 percent) to \$21.6 billion U.S. exports: Increased by \$10.6 billion (12 percent) to \$102.3 billion U.S. imports: Increased by \$17.0 billion (16 percent) to \$123.9 billion

During 2002-03, the U.S. trade deficit in chemicals and related products increased primarily because of the sustained increase in medicinal chemical imports. Although the United States registered a \$1.1-billion surplus in this sector in 1999, the U.S. trade surplus decreased to become a deficit in 2000 and the deficit increased annually thereafter. Increased imports of pharmaceuticals from Ireland and other Western European countries accounted for a large portion of the rise in total U.S. imports (see table CH-1). However, U.S. exports of chemicals and related products increased significantly in 2003, compared with 2002. This increase was a factor in slowing the rate of the increasing deficit in chemicals and related products.

The U.S. chemical industry is an integral part of the world chemical industry; many multinational chemical companies are U.S.-owned firms, producing chemicals and related compounds from various feed stocks in plants throughout the world.² As such, U.S.-owned firms are affected by global events both on the demand and the supply side.³ Over 50 percent of the products manufactured by the chemical industry are used in other manufacturing industries. In 2001, when U.S. and world manufacturing sectors entered an economic downturn, the demand for chemicals declined substantially and the industry's global growth halved by December 2001. During this period, end users relied on their chemical inventories. The world industrial economy remained stagnant through 2002. During 2001-02, the chemical industry was further adversely affected by volatile energy and feed stock prices throughout the world, political unrest in areas such as the Middle East, and the appreciation of the U.S. dollar. Fuel and feed stock (e.g., natural gas) costs rose in the United States during the period, thereby reducing the competitive position of U.S. firms (see Energy-Related Products).⁴ In 2003, business confidence grew, industrial production

¹ Medicinal chemicals include pharmaceutical active ingredients and formulated products. Structural factors that contribute to the expanding U.S. trade deficit in pharmaceuticals include low cost, production capacity in Europe meeting required standards for pharmaceutical products as the industry allocates its limited resources among R&D, marketing, and manufacturing. As the pharmaceutical industry has become more competitive in recent years, the industry has, at times, contracted (entered into joint ventures) with selected fine chemical (chemical intermediaries) companies to make some of their active ingredients. For added detail on the market dynamics of producing pharmaceuticals, see the link on the corresponding sector page.

² Similarly, many large foreign chemical companies have production facilities in the United States and elsewhere in North America.

³ T. Kevin Swift, Martha Moore, and Emily Myers, Economics & Statistics Department, American Chemistry Council, "The Business of Chemistry in the USA, Performance and Outlook," Nov. 2003; and "Forecast 2004: Tough Conditions Start to Ease," *Chemical Week*, Jan. 7-14, 2004, p. 17.

⁴ Ian Young, "Producers Grapple with Market Volatility," Chemical Week, Sept. 24, 2003, p. 35.

Table CH-1
Chemicals and related products: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1999-2003¹

						Change, 200	3 from 2002
Item	1999	2000	2001	2002	2003	Absolute	Percent
-			— Million dolla	ars ———			
U.S. exports of domestic merchandise: Canada Ireland Mexico Japan United Kingdom Germany China France Belgium Netherlands All other	18, 783 10, 731 5, 575 3, 566 2, 947 2, 509 3, 737 26, 776	20,1255 32525 136,2557 44,948540 22,24,868 4,8834 30,334	19,692 1206 122665 5,03132 3,0312 4,381 29,551	20,115 12,2444 15,179 25,179 25,8869 3,1840 24,2427 28,425	21,516 1,516 13,300 1,766 5,769 33,816 6,825 31,488 6,825 31,710	1,401 121 856 414 -89 883 747 303 1,616 1,091 3,285	7.0 9.59 7.2 -1.7 30.43 9.84 9.84 11.6
Total EU-15 OPEC Latin America CBERA Asia Sub-Saharan Africa Central and Eastern Europe	81,240 20,336 1,711 18,634 1,821 17,704 610 243	92,433 23,166 1,994 22,175 2,025 20,251 710 287	91,274 24,711 2,091 21,664 2,176 18,651 780 304	91,702 25,058 1,761 20,713 2,188 19,754 699 278	102,330 29,275 1,621 21,913 22,225 22,490 717 333	10,628 4,217 -139 1,200 37 2,737 17 54	11.6 16.8 -7.9 5.8 1.7 13.9 2.5 19.6
U.S. imports of merchandise for consumption: Canada Ireland Mexico Japan United Kingdom Germany China France Belgium Netherlands All other	13,708 6,326 3,124 8,869 6,834 8,267 4,242 3,576 1,306 22,030	15,858 11,452 3,473 9,563 7,223 7,377 4,942 4,070 1,670 1,492 28,174	16,398 13,355 3,388 8,601 7,466 7,662 5,333 4,883 2,890 1,541 27,847	16,673 16,282 3,637 9,099 8,195 8,892 6,262 5,119 2,054 1,523 29,188	18,440 19,117 3,779 10,121 9,450 9,497 7,438 6,338 1,895 1,681 36,165	1,767 2,836 142 1,022 1,256 605 1,175 1,219 -159 1,59 6,977	10.6 17.4 3.9 11.2 15.3 6.8 18.8 23.8 -7.7 10.4 23.9
Total EU-15 OPEC Latin America CBERA Asia Sub-Saharan Africa Central and Eastern Europe	80,172 33,537 3,245 6,613 892 18,815 849 340	95,295 39,410 5,590 8,326 1,286 21,341 1,454 791	98,564 42,784 4,742 7,778 1,312 20,777 660 1,167	106,924 48,700 5,024 7,904 1,109 22,768 448 1,199	123,922 56,408 6,944 8,917 1,724 26,810 598 1,385	16,999 7,708 1,920 1,014 615 4,042 150 186	15.9 15.8 38.2 12.8 17.8 33.5 15.5

Table CH-1--Continued
Chemicals and related products: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1999-2003¹

						Change, 200	3 from 2002
Item	1999	2000	2001	2002	2003	Absolute	Percent
-			— Million dolla	ars ———			
U.S. merchandise trade balance: Canada Ireland Mexico Japan United Kingdom Germany China France Belgium Netherlands All other	5,075 -5,571 7,607 -3,294 -3,268 -5,321 -2,093 -1,067 1,843 2,411 4,746	4,469 -10,201 9,632 -3,296 -2,868 -4,401 -2,512 -1,218 2,970 2,403 2,159	3,294 -12,235 8,878 -2,496 -1,660 -4,603 -3,017 -1,851 2,457 2,271 1,672	3,442 -15,012 8,807 -3,337 -3,016 -6,007 -3,193 -1,934 3,186 2,605 -763	3,076 -17,727 9,521 -3,945 -4,361 -5,728 -3,622 -2,850 4,961 3,537 -4,455	-366 -2,715 714 -608 -1,345 278 -429 -916 1,774 933 -3,692	-10.6 -18.1 8.1 -18.2 -44.6 -13.4 -47.4 55.7 35.8 -483.9
Total EU-15 OPEC Latin America CBERA Asia Sub-Saharan Africa Central and Eastern Europe	1,068 -13,201 -1,535 12,021 929 -1,111 -239 -97	-2,862 -16,244 -3,596 13,849 738 -1,090 -744 -504	-7,290 -18,073 -2,651 13,886 864 -2,126 120 -863	-15,222 -23,642 -3,263 12,809 1,079 -3,015 -251 -921	-21,592 -27,133 -5,322 12,996 501 -4,320 118 -1,052	-6,371 -3,491 -2,059 187 -578 -1,305 -133 -132	-41.9 -14.8 -63.1 1.5 -53.6 -43.3 -52.9 -14.3

¹Import values are based on customs value; export values are based on f.a.s. value, U.S. port of export.

Note.—Calculations based on unrounded data. The countries shown are those with the largest total U.S. trade (U.S. imports plus exports) in these products in 2003.

Table CH-2 Leading changes in U.S. exports and imports of chemicals and related products, 1999-2003

						Change, 200	3 from 2002
Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent
			—— Million o	dollars ———			
U.S. EXPORTS:							
Increases:							
Medicinal chemicals (CH025)	13,701	15,772	18,169	18,742	22,527	3,785	20.2
Certain organic chemicals (CH012)	6,796	8,257	7,774	7,668	8,857	1,189	15.5
Organic specialty chemicals (CH011)	5,507	5,980	5,678	5,050	6,004	954	18.9
Decreases:	•	,	•	-,	-,		
Photographic chemicals and preparations (CH022)	433	507	413	522	475	-47	-9.0
All other	54,802	61,917	59,242	59,720	64,466	4,747	7.9
TOTAL	81,240	92,433	91,274	91,702	102,330	10,628	11.6
U.S. IMPORTS:							
Increases:							
Medicinal chemicals (CH025)	23,782	29,112	33,956	40,699	49,284	8,586	21.1
Miscellaneous plastic products (CH041)	10,937	12,307	12,376	13,459	14,979	1,520	11.3
Fertilizers (CH016)	2,486	3,224	3,478	3,043	4,395	1,352	44.4
Decreases:	_,	-,	٥, ٠	0,0 .0	.,000	.,002	
Organic specialty chemicals (CH011)	6,145	6,610	6,962	6,781	6.675	-106	-1.6
All other	36,822	44,042	41,792	42,942	48,588	5,647	13.1
		,0 12	,,,,,,	12,012	.5,000	5,017	
TOTAL	80,172	95,295	98,564	106,924	123,922	16,999	15.9

Note.-Calculations based on unrounded data.

increased, and downstream users started to replenish their inventories, thus leading to increased world chemical production, imports, and exports.⁵

In 2003, the major U.S. trading partners in chemicals and related products were Canada, Mexico, Ireland, and Japan. Canada and Mexico were the two largest markets for U.S. exports of these products, while Ireland, Canada, and Japan were the largest sources of U.S. imports (see table CH-1). The growth in Irish imports has resulted in part from continued investment in manufacturing facilities in pharmaceuticals and other high tech industries. The Industrial Development Agency of Ireland (IDA) has identified 6 new pharmaceutical facilities, including a \$1 billion expansion project by Wyeth Labs, and a 7 million British pound (\$11.2 million) investment by Glaxo SmithKline.⁶

U.S. trade with Mexico consisted mainly of primary olefins and aromatics imported from Mexico, while higher valued chemical products were exported back to Mexico. Canada has consistently exported commodity chemicals (derived from natural gas) to many countries, including the United States, while importing higher valued chemical products. During 2002-03, the United States imported almost \$1.4 billion of fertilizers from Canada, most derived from natural gas.

In 2003, U.S. exports of pharmaceuticals, certain organic chemicals and organic specialty chemicals exhibited the largest increases. The rise in U.S. exports of pharmaceuticals was owing, in part, to intracompany sales by multinational firms. Increased exports in other chemical sectors was owing to the lower valued dollar exchange rate, which boosted U.S. exports. The growth in exports occurred in 30 industry/commodity groups, while only 6 industry/commodity groups exhibited relatively modest declines in exports.

The increase in trade in 2003 was also shown in U.S. chemical imports, with 30 industry/commodity groups increasing, while only 4 industry/commodity groups declined. The largest increases in U.S. imports were medicinal chemicals (discussed below), miscellaneous plastic products, and fertilizers, while the largest declines were in organic specialty chemicals (see table CH-2).

U.S. imports of fertilizers increased 44 percent in 2003 over 2002, with anhydrous ammonia accounting for almost half of the increase. The average ammonia price increased from \$137 per short ton in 2002 to \$245 per short ton in 2003⁷ owing to an increase in natural gas prices, high ocean freight rates, and increased world demand for nitrogen (a component of ammonia). By quantity, U.S. imports of ammonia increased from 5.7 million metric tons in 2002 to 7.0 million metric tons in 2003, replacing U.S. production that was curtailed in the beginning of the year. 9

⁵ Swift, Moore, and Myers, "The Business of Chemistry in the USA, Performance and Outlook," Nov. 2003, p. 16.

⁶ Van Amum, Patricia, "U.S. Faces Rising Pharmaceutical Trade Deficit."

⁷ Based on statistics of the U.S. Geological Survey.

⁸ U.S. industry representative, communication with USITC staff, Apr. 26, 2004.

⁹ U.S. Geological Survey, communication with USITC staff, Apr. 26, 2004.

COMMODITY ANALYSIS OF MEDICINAL CHEMICALS

Change in 2003 from 2002:

U.S. trade deficit: Increased by \$4.8 billion (22 percent) to \$26.8 billion U.S. exports: Increased by \$3.8 billion (20 percent) to \$22.5 billion U.S. imports: Increased by \$8.6 billion (21 percent) to \$49.3 billion

The U.S. trade deficit in pharmaceuticals increased in 2003, with Western Europe (especially Ireland) continuing to be the major source of U.S. imports of pharmaceuticals. ¹⁰ In general, global trade of pharmaceuticals has increased since January 1, 1995, following the elimination of duties on most medicinal chemicals under the Uruguay Round Agreement. The United States, the United Kingdom, Germany, Ireland, Japan, and several other large pharmaceutical-producing countries participated in this agreement. As the world pharmaceutical industry is dominated by multinational corporations, there is substantial intracompany trade.

Outsourcing in the pharmaceutical industry is a factor in trade. The production of bulk active ingredients and chemical intermediates used in the production of drugs is often produced in highly specialized processes in a limited number of facilities. Pharmaceutical companies, rather than dedicating their equipment to making product, will contract their production needs to independent specialty producers throughout the world. Their product requirements can range from relatively small to large quantities, and the contract producers can manufacture these chemicals in a timely manner. 12

In 2003, some new and innovative medicines were introduced in the United States and many other developed countries. Such products command high sales prices, which may also account for the increase in the value of total U.S. exports of pharmaceuticals. In total, 86 new medicines were introduced in 2003, including 21 new drugs, 14 biologics, and 51 additional new medicines. Among these were six new cancer drugs and seven new medicines for genetic disorders.¹³

U.S. imports

U.S. imports of pharmaceuticals increased by \$8.6 billion (21 percent) to \$49.3 billion in 2003. U.S. imports from Ireland, the United Kingdom, and Germany (the three largest U.S. suppliers by value, in 2003), increased 14 percent (to \$16.2 billion), by 18 percent (to \$6.4 billion), and by 2 percent (to \$4.3 billion), respectively. These three countries accounted for 55 percent of total U.S. imports of pharmaceutical products.

The United Kingdom and Germany have benefitted from the trend toward outsourcing in the pharmaceutical industry and have become larger suppliers to the U.S. market over the past several years. These countries are attractive sites for contract manufacturing because of the large number of prominent multinational pharmaceutical companies (as well as large research-oriented chemical firms) active in these two countries and their reputations for well-trained organic chemists.

During the past decade, Ireland has also been a growing source of pharmaceutical imports owing, in part, to a national tax policy favorable to research-oriented corporations, with the most significant growth in high technology areas such as pharmaceuticals. It has been reported that 17 of the 20 leading

¹⁰The absolute size of the deficit in pharmaceuticals is sufficiently large that it is a major contributor to the U.S. trade deficit in chemicals and related products.

¹¹ With increasing returns to scale, only a few facilities are needed to perform certain specialized processes.

¹² Stephen C. Stinson, "Custom Chemicals," Chemical & Engineering News, Jan. 19, 1999, pp. 49-52.

¹³ "New Drug Approvals in 2003," PhRMA press release, Jan. 2004.

multinational drug companies worldwide have established manufacturing facilities in Ireland.¹⁴ Because production costs are low, Ireland's pharmaceuticals and related products are highly price competitive in the U.S. market.¹⁵ During 1999-2003, U.S. imports of pharmaceuticals from Ireland increased from \$5.2 billion to \$16.2 billion, owing, in part, to intracompany trade.¹⁶

U.S. exports

U.S. exports of pharmaceuticals increased by \$3.8 billion (20 percent) to \$22.5 billion during 2002-03. The top-three markets for U.S. pharmaceuticals (by value) were Canada, the Netherlands, and the United Kingdom. Overall, the combination of higher drug prices, increasing demand by aging populations, and industry globalization has led to the continued rise in U.S. exports.

Stephen Wanser (202) 205-3363 stephen.wanser@usitc.gov

¹⁴ According to the Industrial Development Agency of Ireland (IDA), "over 120 overseas companies employ 15,000 people and export \$12 billion annually, making Ireland one of the largest exporters of pharmaceuticals and fine chemicals in the world," found at http://www.corporateinformation.com/iesector, retrieved Mar. 20, 2002.

¹⁵ The replacement value of the investment by the pharmaceutical sector in Ireland is estimated at 40 billion Euros. Investment in fine chemical plants producing bulk active materials has been followed by new investments in finished product pharmaceutical operations. Forty finished pharmaceutical plants are now in operation. Found at http://www.idaireland.com/industry/pharmaceutical_industry.asp, retrieved Mar. 25, 2004.

¹⁶ To further place this increase in perspective, as a percent of total U.S. pharmaceutical imports, Germany's share decreased from 14 percent in 1995 to 7 percent in 2003, and the United Kingdom's share decreased from 19 percent to 13 percent, while Ireland's share increased from 7 percent to 33 percent.

Table CH-3
Chemicals and related products: U.S. trade for industry/commodity groups and subgroups, 1999-2003¹

USITC							Change, 200	3 from 2002
code²	Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent
CH007	Major primary olefins:			Million	dollars ———			
CH008	Exports	181 1,798 -1,617	299 3,552 -3,253	120 2,913 -2,793	245 3,397 -3,152	217 4,144 -3,927	-28 747 -775	-11.4 22.0 -24.6
	Exports Imports Trade balance	208 91 117	264 156 108	311 143 168	260 113 147	343 127 217	84 14 70	32.2 12.1 47.7
CH009	Primary aromatics: Exports Imports Trade balance	91 815 -724	105 1,563 -1,459	122 1,122 -1,000	148 1,159 -1,011	368 1,450 -1,082	220 291 -71	148.9 25.1 -7.0
CH010	Organic commodity chemicals: Exports Imports Trade balance	1,474 778 696	2,146 1,201 946	1,494 1,021 474	2,010 1,111 898	2,692 1,319 1,373	682 208 474	33.9 18.7 52.8
CH011	Organic specialty chemicals: Exports Imports Trade balance	5,507 6,145 -638	5,980 6,610 -630	5,678 6,962 -1,285	5,050 6,781 -1,731	6,004 6,675 -671	954 -106 1,060	18.9 -1.6 61.2
CH012	Certain organic chemicals: Exports Imports Trade balance	6,796 3,899 2,897	8,257 5,049 3,207	7,774 5,148 2,626	7,668 4,699 2,969	8,857 4,878 3,979	1,189 179 1,010	15.5 3.8 34.0
CH013	Miscellaneous inorganic chemicals: Exports Imports Trade balance	4,357 4,632 -275	5,218 5,431 -212	4,940 5,195 -255	4,820 4,948 -128	4,903 5,038 -135	83 89 -7	1.7 1.8 -5.2
CH014	Inorganic acids: Exports Imports Trade balance	204 238 -34	246 251 -5	242 252 -9	214 246 -32	219 229 -10	5 -17 22	2.4 -6.8 68.9
CH015	Chlor-alkali chemicals: Exports Imports Trade balance	781 126 655	862 162 700	1,054 219 835	851 166 685	897 206 691	46 40 6	5.4 24.1 0.9
CH016	Fertilizers: Exports Imports Trade balance	3,036 2,486 550	2,388 3,224 -836	2,183 3,478 -1,295	2,184 3,043 -859	2,429 4,395 -1,966	245 1,352 -1,107	11.2 44.4 -129.0
CH017	Paints, inks, and related items, and certain components thereof: Exports	3,327 1,959	3,802 2,119	3,546 2,090	3,614 1,996	3,918 2,078	304 82 222	8.4 4.1 13.7
CH018	Trade balance Synthetic organic pigments: Exports Imports Trade balance	1,368 360 404 -43	1,683 373 358 16	1,455 329 301 29	1,618 331 319 12	1,840 332 333 -1	1 15 -13	0.4 4.6 (³)

Table CH-3--*Continued*Chemicals and related products: U.S. trade for industry/commodity groups and subgroups, 1999-2003¹

USITC							Change, 200	3 from 2002
code ²	Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent
CH019	Synthetic dyes and azoic couplers:			Million	dollars			
011010	Exports	404	436	361	249	226	-23	-9. <u>4</u>
	Imports	527 -123	481 -45	378 -16	393 -1 43	395 -169	3 -26	0.7 -18.1
CH020	Synthetic tanning agents: Exports	13	18	17	18	32	14	76.4
	<u>Imports</u>	'7 6	7 11	15 12	7	8 24	12 12	28.7
CH021	Trade balance	_		. =	12			102.7
	Exports	21 71	24 73	26 65	27 54	26 63	-1 9	-3.7 15.9
CH022	Trade balance	-50	-49	-40	- Ž7	-36	-1Ŏ	-35.9
011022	Exports	433	507	413	522	475	-47	-9.0
	Imports	564 -131	555 -48	479 -66	435 87	382 93	-53 6	-12.2 6.9
CH023	Pesticide products and formulations: Exports	2,212	2,038	2,166	2,028	2,316	288	14.2
	Imports	1,217 995	1,117 921	1,318 848	1,185 842	1,419 897	233 55	19.7 6.5
CH024	Adhesives and glues:							
	Exports Imports	502 181	602 194	565 176	588 206	600 251	12 45	2.1 21.9
CH025	Trade balance	321	408	388	382	349	-33	-8.6
011020	Exports Imports		15,772 29,112	18,169 33,956	18,742 40,699	22,527 49,284	3,785 8,586	20.2 21.1
011000	Trade balance		-13,340	-15,788	-21,957	-26,757	-4,800	-21.9
CH026	Essential oils and other flavoring materials: Exports	948	1,034	1,109	1,211	1,389	178	14.7
	Imports	754 194	775 258	736 373	786 425	1,754 -365	968 -790	123.1 (³)
CH027	Perfumes, cosmetics, and toiletries:					3.435	275	8.7
	Exports Imports	2,578 1, <u>8</u> 64	2,851 2,192	3,187 2, <u>443</u>	3,160 2,716	3,111	395	14.5
CH028	Trade balance	714	659	744	444	324	-119	-26.9
	Exports	2,138 948	2,331 1.050	2,223 1.115	2,282 1,273	2,524 1.369	242 95	10.6 7.5
011000	Trade balance	1,190	1,280	1,107	1,009	1,156	147	14.6
CH029	Miscellaneous chemicals and specialties: Exports	2,557	2,756	2,862	2,90 <u>1</u>	3,149	248	8.5
	Imports	1,860 697	2,020 735	1,856 1,006	1,957 944	2,150 999	193 55	9.9 5.8
CH030	Explosives, propellant powders, and related items:			,				
	Exports	264	314	254	286	385 353	100 50	34.9 16.5
	Imports	267 -3	265 49	285 -31	302 -17	33	50 50	$(^{3})$
	•							

Table CH-3--Continued
Chemicals and related products: U.S. trade for industry/commodity groups and subgroups, 1999-2003¹

USITC							Change, 200	3 from 2002
code ²	Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent
CH031	Polyethylene resins in primary forms:			Million	dollars ———		· · · · · · · · · · · · · · · · · · ·	
011031	Exports	2,249	2,688	2,416	2,590	2,817	227	8.8
	Imports	1,329 920	1,650 1,038	1,735 681	1,651 938	2,158 658	507 -280	30.7 -29.9
CH032	Polypropylene resins in primary forms: Exports	863	1.131	1,100	1.188	1.416	228	19.2
	Imports	232	, 251 880	219 881	259 929	298 1,118	39 189	15.1 20.4
CH033	Polyvinyl chloride resins in primary forms:					,		
	Exports Imports	626 235	716 331	1,004 332	781 247	837 287	56 40	7.2 16.1
CH034	Trade balance	391	385	672	534	550	16	3.0
	ExportsImports	753 427	848 572	731 579	752 580	783 628	31 48	4.1 8.2
CH035	Trade balance	326	276	152	172	155	-16	-9.6
СПОЗЗ	Saturated polyester resins: Exports	566	629	798	712	814	101	14.2
	Imports Trade balance	448 118	522 107	502 296	537 175	656 158	119 -18	22.1 -10.0
CH036	Other plastics in primary forms: Exports	6,323	7,305	6.766	7,189	7.694	505	7.0
	Imports Trade balance	2.455	2,786 4,519	2,649 4.117	2,823 4.366	3,022 4,673	199 306	7.0 7.0
CH037	Styrene-butadiene rubber in primary forms: Exports	309	344	297	273	324		19.0
	Imports	173	232	258	232	231	52 (⁴) 52	-0.2
CH038	Trade balance	137	112	39	41	93		128.6
	ExpórtsImports	1,079 697	1,317 778	1,328 734	1,361 725	1,478 741	117 16	8.6 2.2
CH039	Trade balance	382	539	594	636	737	100	15.8
011000	Exports	2,366	2,414 4,700	2,282 4.146	2,233 4.694	2,212 5.170	-21 476	-0.9 10.1
011040	Imports		-2,286	-1,864	-2,460	-2,957	-497	-20.2
CH040	Other tires: Exports	111	89	96	94	98	.4	3.9
	Imports	129 -18	137 -48	122 -26	123 -29	137 -39	14 -10	11.4 -36.1
CH041	Miscellaneous plastic products: Exports	, ,	13.804	12.561	12,567	13.041	473	3.8
	Imports	10,937	12,307	12,376	13,459	14,979	1,520 -1.047	11.3 -117.4
CH042	Trade balance	792	1,497	185	-892	-1,938	.,	
	Exports	2,068 2,328	2,419 2,567	2,645 2,549	2,437 2,752	2,400 3,040	-37 288	-1.5 10.5
	Trade balance	-259	-148	´ 96	-315	-641	-326	-103.3

Table CH-3--Continued Chemicals and related products: U.S. trade for industry/commodity groups and subgroups, 1999-2003¹

USITC							Change, 2003 from 2002	
code ²	Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent
CH042	Calatin			—— Million d	ollars ———			
CH043	Gelatin: Exports Imports Trade balance	63 107 -44	66 103 -37	74 94 -20	75 96 -21	92 115 -23	17 19 -2	22.7 20.0 -10.6
CH044	Natural rubber: Exports Imports Trade balance	41 704 -664	39 842 -803	34 613 -579	40 751 -712	59 1,047 -988	19 296 -277	48.7 39.4 -38.9

Note.—Calculations based on unrounded data.

¹Import values are based on customs value; export values are based on f.a.s. value, U.S. port of export.

²This coding system is used by the U.S. International Trade Commission to identify major groupings and subgroupings of HTS import and export items for trade monitoring purposes

³Not meaningful for purposes of comparison.

⁴Less than \$500,000.

Table CH-4
Chemicals and related products sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC	In directory to a manufacture of the constant	4000	2000	2004	2002	2002	Percent change,
code	Industry/commodity group	1999	2000	2001	2002	2003	2003 from 2002
CH007	Major primary olefins:						
	Number of establishments	37	37	37	37	37	0.0
	Employees (thousands)	5.0	5.0	5.0	5.0	5.0	0.0
	Capacity utilization (percent)	98	97	92	95	95	0.0
	U.S. shipments (million dollars)	17,000	18,500	17,500	19,000	19,500	2.6
	U.S. exports (million dollars)	181	299	120	245	217	-11.4
	U.S. imports (million dollars)	1,798	3,552	2,913	3,397	4,144	22.0
	Apparent U.S. consumption (million dollars)	18,617	21,753	20,293	22,152	23,427	5.8
	Trade balance (million dollars)	-1,617	-3,253	-2,793	-3,152	-3,927	-24.6
	Ratio of imports to consumption (percent)	9.7	16.3	14.4	15.3	17.7	15.7
	Ratio of exports to shipments (percent)	1.1	1.6	0.7	1.3	1.1	-15.4
CH008	Other olefins:						
	Number of establishments	23	23	23	23	23	0.0
	Employees (thousands)	1.0	1.0	1.0	1.0	1.0	0.0
	Capacity utilization (percent)	98	97	95	97	97	0.0
	U.S. shipments (million dollars)	1,350	1,500	1,500	1,650	1,800	9.1
	U.S. exports (million dollars)	208	264	311	260	343	32.2
	U.S. imports (million dollars)	91	156	143	113	127	12.1
	Apparent U.S. consumption (million dollars)	1,233	1,392	1,332	1,503	1,583	5.3
	Trade balance (million dollars)	117	108	168	147	217	47.7
	Ratio of imports to consumption (percent)	7.4	11.2	10.7	7.5	8.0	6.7
	Ratio of exports to shipments (percent)	15.4	17.6	20.7	15.7	19.1	21.7
CH009	Primary aromatics:						
	Number of establishments	31	31	31	31	31	0.0
	Employees (thousands)	2.0	2.0	2.0	2.0	2.0	0.0
	Capacity utilization (percent)	80	85	85	85	85	0.0
	U.S. shipments (million dollars)	4,250	5,300	4,900	5,000	5,300	6.0
	U.S. exports (million dollars)	91	105	122	148	368	148.9
	U.S. imports (million dollars)	815	1,563	1,122	1,159	1,450	25.1
	Apparent U.S. consumption (million dollars)	4,974	6,759	5,900	6,011	6,382	6.2
	Trade balance (million dollars)	-724	-1,459	-1,000	-1,011	-1,082	-7.0
	Ratio of imports to consumption (percent)	16.4	23.1	19.0	19.3	22.7	17.6
	Ratio of exports to shipments (percent)	2.1	2.0	2.5	3.0	6.9	130.0

Table CH-4—Continued
Chemicals and related products sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
CH014	Inorganic acids:						
	Number of establishments	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	Employees (thousands)	$\binom{1}{1}$	(¹)	(¹)	(¹)	(¹)	(1)
	Capacity utilization (percent)	$\binom{1}{1}$	(¹)	(¹)	$\binom{1}{1}$	(¹)	(¹)
	U.S. shipments (million dollars)	$\binom{1}{1}$	2,276	1,852	(¹)	(¹)	$\binom{1}{1}$
	U.S. exports (million dollars)	204	246	242	214	219	2.4
	U.S. imports (million dollars)	238	251	252	246	229	-6.8
	Apparent U.S. consumption (million dollars)	(¹)	2,281	1,861	(1)	(¹)	(1)
	Trade balance (million dollars)	-34	-5	-9	-32	-10	68.9
	Ratio of imports to consumption (percent)	(¹)	11.0	13.5	(¹)	(¹)	(¹)
	Ratio of exports to shipments (percent)	(¹)	10.8	13.1	(¹)	(¹)	(¹)
CH015	Chlor-alkali chemicals:	()			()	()	
	Number of establishments	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	Employees (thousands)	(¹)	(1)	(¹)	(¹)	(¹)	(¹)
	Capacity utilization (percent)	$\binom{1}{1}$	(¹)	(¹) ·	(1)	(¹)	(1)
	U.S. shipments (million dollars)	3,0ÌŚ	3,396	3,2ÌÓ	(¹)	(¹)	$\binom{1}{1}$
	U.S. exports (million dollars)	781	862	1,054	8 5 1	897	5.4
	U.S. imports (million dollars)	126	162	219	166	206	24.1
	Apparent U.S. consumption (million dollars)	2,360	2,696	2,375	(¹)	(¹)	(¹)
	Trade balance (million dollars)	655	700	835	685	691	0.9
	Ratio of imports to consumption (percent)	5.3	6.0	9.2	(¹)	(¹)	(1)
	Ratio of exports to shipments (percent)	25.9	25.4	32.8	(¹)	(¹)	(¹)
CH016	Fertilizers:						
	Number of establishments	350	350	350	350	350	0.0
	Employees (thousands)	23.0	22.0	22.0	22.0	22.0	0.0
	Capacity utilization (percent)	90	78	76	82	82	0.0
	U.S. shipments (million dollars)	8,000	7,500	7,000	7,500	8,000	6.7
	U.S. exports (million dollars)	3,036	2,388	2,183	2,184	2,429	11.2
	U.S. imports (million dollars)	2,486	3,224	3,478	3,043	4,395	44.4
	Apparent U.S. consumption (million dollars)	7,450	8,336	8,295	8,359	9,966	19.2
	Trade balance (million dollars)	550	-836	-1,295	-859	-1,966	-129.0
	Ratio of imports to consumption (percent)	33.4	38.7	41.9	36.4	44.1	21.2
	Ratio of exports to shipments (percent)	37.9	31.8	31.2	29.1	30.4	4.5

Table CH-4—Continued
Chemicals and related products sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC	In dead of a constable con	4000	2222	0004	0000	0000	Percent change,
code	Industry/commodity group	1999	2000	2001	2002	2003	2003 from 2002
CH017	Paints, inks, and related items, and certain						
	components thereof:						
	Number of establishments	1,490	1,475	1,470	1,450	1,445	-0.3
	Employees (thousands)	15.0	16.0	16.0	15.0	16.0	6.7
	Capacity utilization (percent)	85	88	85	85	86	1.2
	U.S. shipments (million dollars)	24,000	25,000	25,600	26,000	2,660	-89.8
	U.S. exports (million dollars)	3,327	3,802	3,546	3,614	3,918	8.4
	U.S. imports (million dollars)	1,959	2,119	2,090	1,996	2,078	4.1
	Apparent U.S. consumption (million dollars)	22,632	23,317	24,145	24,382	820	-96.6
	Trade balance (million dollars)	1,368	1,683	1,455	1,618	1,840	13.7
	Ratio of imports to consumption (percent)	8.7	9.1	8.7	8.2	² 253.5	2,991.5
	Ratio of exports to shipments (percent)	13.9	15.2	13.9	13.9	²147.3	959.7
CH018	Synthetic organic pigments:						
	Number of establishments	32	32	32	32	32	0.0
	Employees (thousands)	6.0	6.0	6.0	6.0	6.0	0.0
	Capacity utilization (percent)	85	85	80	80	75	-6.3
	U.S. shipments (million dollars)	1,050	1,100	1,100	1,110	1,100	-0.9
	U.S. exports (million dollars)	360	373	329	331	332	(³)
	U.S. imports (million dollars)	404	358	301	319	333	4.6
	Apparent U.S. consumption (million dollars)	1,093	1,084	1,071	1,098	1,101	(³)
	Trade balance (million dollars)	-43	16	29	12	-1	(4)
	Ratio of imports to consumption (percent)	36.9	33.0	28.1	29.0	30.3	4.5
	Ratio of exports to shipments (percent)	34.3	33.9	29.9	29.8	30.2	1.3
CH019	Synthetic dyes and azoic couplers:						
	Number of establishments	32	32	32	32	32	0.0
	Employees (thousands)	8.0	8.0	8.0	8.0	8.0	0.0
	Capacity utilization (percent)	85	85	80	80	75	-6.3
	U.S. shipments (million dollars)	1,230	1,320	1,320	1,320	1,320	0.0
	U.S. exports (million dollars)	404	436	361	249	226	-9.4
	U.S. imports (million dollars)	527	481	378	393	395	0.7
	Apparent U.S. consumption (million dollars)	1,353	1,365	1,336	1,463	1,489	1.8
	Trade balance (million dollars)	-123	-45	-16	-143	-169	-18.1
	Ratio of imports to consumption (percent)	38.9	35.3	28.3	26.8	26.5	-1.1
	Ratio of exports to shipments (percent)	32.8	33.0	27.4	18.9	17.1	-9.5
	Traile of experts to shipments (befeelt)	52.0	55.0	∠ıт	10.0		5.5

Table CH-4—Continued
Chemicals and related products sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
CH020	Synthetic tanning agents:						
	Number of establishments	5	5	5	5	5	0.0
	Employees (thousands)	1.0	1.0	1.0	1.0	1.0	0.0
	Capacity utilization (percent)	85	85	80	80	75	-6.3
	U.S. shipments (million dollars)	22	24	24	24	24	0.0
	U.S. exports (million dollars)	13	18	17	18	32	76.4
	U.S. imports (million dollars)	7	7	5	7	8	28.7
	Apparent U.S. consumption (million dollars)	16	13	12	12	0	-100.0
	Trade balance (million dollars)	6	11	12	12	24	102.7
	Ratio of imports to consumption (percent)	45.3	55.5	41.4	53.6	-402,507.7	1,000.0
	Ratio of exports to shipments (percent)	60.4	76.3	70.2	76.5	² 135.0	76.5
CH021	Natural tanning and dyeing materials:						
	Number of establishments	10	10	10	10	10	0.0
	Employees (thousands)	1.0	1.0	1.0	1.0	1.0	0.0
	Capacity utilization (percent)	85	85	80	80	75	-6.3
	U.S. shipments (million dollars)	30	30	30	30	30	0.0
	U.S. exports (million dollars)	21	24	26	27	26	-3.7
	U.S. imports (million dollars)	71	73	65	54	63	15.9
	Apparent U.S. consumption (million dollars)	80	79	70	57	66	17.0
	Trade balance (million dollars)	-50	-49	-40	-27	-36	-35.9
	Ratio of imports to consumption (percent)	88.6	91.9	93.9	95.4	94.6	-0.8
	Ratio of exports to shipments (percent)	69.7	78.6	85.8	91.3	88.0	-3.6
CH022	Photographic chemicals and preparations:						
	Number of establishments	- 5	5	5	5	5	0.0
	Employees (thousands)	1.0	1.0	1.0	1.0	1.0	0.0
	Capacity utilization (percent)	85	85	80	80	75	-6.3
	U.S. shipments (million dollars)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	U.S. exports (million dollars)	433	5ÒŹ	413	522	475	-9.0
	U.S. imports (million dollars)	564	555	479	435	382	-12.2
	Apparent U.S. consumption (million dollars)	(¹)	(1)	(¹)	(¹)	(¹)	(¹)
	Trade balance (million dollars)	-131	-48	-66	8 7	93	6.9
	Ratio of imports to consumption (percent)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	Ratio of exports to shipments (percent)	(¹)	(¹)	(¹)	$\binom{1}{1}$	(¹)	(1)
	read of or porte to amprilation (portionity)	()	()	()	` '	` ,	` ,

Table CH-4—Continued
Chemicals and related products sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
CH023	Pesticide products and formulations:						
	Number of establishments	55	55	55	55	23	-58.2
	Employees (thousands)	14.0	14.0	14.0	14.0	1.0	-92.9
	Capacity utilization (percent)	85	85	85	85	97	14.1
	U.S. shipments (million dollars)	10,260	9,790	9,350	9,350	1,800	-80.7
	U.S. exports (million dollars)	2,212	2,038	2,166	2,028	2,316	14.2
	U.S. imports (million dollars)	1,217	1,117	1,318	1,185	1,419	19.7
	Apparent U.S. consumption (million dollars)	9,265	8,869	8,502	8,508	903	-89.4
	Trade balance (million dollars)	995	921	848	842	897	6.5
	Ratio of imports to consumption (percent)	13.1	12.6	15.5	13.9	²157.1	1,030.2
	Ratio of exports to shipments (percent)	21.6	20.8	23.2	21.7	²1 28.7	493.1
CH024	Adhesives and glues:						
	Number of establishments	500	500	• 500	500	500	0.0
	Employees (thousands)	13.0	13.0	13.0	13.0	13.0	0.0
	Capacity utilization (percent)	85	85	85	80	80	0.0
	U.S. shipments (million dollars)	5,000	5,100	5,200	5,000	5,000	0.0
	U.S. exports (million dollars)	502	602	565	588	600	2.1
	U.S. imports (million dollars)	181	194	176	206	251	21.9
	Apparent U.S. consumption (million dollars)	4,679	4,692	4,812	4,618	4,651	0.7
	Trade balance (million dollars)	321	408	388	382	349	-8.6
	Ratio of imports to consumption (percent)	3.9	4.1	3.7	4.5	5.4	20.0
	Ratio of exports to shipments (percent)	10.0	11.8	10.9	11.8	12.0	1.7
CH025	Medicinal chemicals:						
	Number of establishments	718	718	718	715	715	0.0
	Employees (thousands)	208.0	208.0	208.0	208.0	208.0	0.0
	Capacity utilization (percent)	85	85	85	85	75	-11.8
	U.S. shipments (million dollars)	91,800	105,600	107,000	107,000	107,010	0.0
	U.S. exports (million dollars)	13,701	15,772	18,169	18,742	22,527	20.2
	U.S. imports (million dollars)	23,782	29,112	33,956	40,699	49,284	21.1
	Apparent U.S. consumption (million dollars)	101,881	118,940	122,788	128,957	133,767	3.7
	Trade balance (million dollars)	-10,081	-13,340	-15,788	-21,957	-26,757	-21.9
	Ratio of imports to consumption (percent)	23.3	24.5	27.7	31.6	36.8	16.5
	Ratio of exports to shipments (percent)	14.9	14.9	17.0	17.5	21.1	20.6

Table CH-4—Continued
Chemicals and related products sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
CH026	Essential oils and other flavoring materials:						
	Number of establishments	53	53	53	53	53	0.0
	Employees (thousands)	51.0	50.0	50.0	50.0	50.0	0.0
	Capacity utilization (percent)	82	82	82	82	82	0.0
	U.S. shipments (million dollars)	3,400	3,500	3,500	3,700	3,900	5.4
	U.S. exports (million dollars)	948	1,034	1,109	1,211	1,389	14.7
	U.S. imports (million dollars)	754	775	736	786	1,754	123.1
	Apparent U.S. consumption (million dollars)	3,206	3,242	3,127	3,275	4,265	30.2
	Trade balance (million dollars)	194	258	373	425	-365	(4)
	Ratio of imports to consumption (percent)	23.5	23.9	23.5	24.0	41.1	71.3
	Ratio of exports to shipments (percent)	27.9	29.5	31.7	32.7	35.6	8.9
CH027	Perfumes, cosmetics, and toiletries:						
	Number of establishments	650	650	650	650	650	0.0
	Employees (thousands)	59.0	60.0	59.0	60.0	62.0	3.3
	Capacity utilization (percent)	88	87	87	87	88	1.1
	U.S. shipments (million dollars)	21,500	23,000	23,300	23,000	24,000	4.3
	U.S. exports (million dollars)	2,578	2,851	3,187	3,160	3,435	8.7
	U.S. imports (million dollars)	1,864	2,192	2,443	2,716	3,111	14.5
	Apparent U.S. consumption (million dollars)	20,786	22,341	22,556	22,556	23,676	5.0
	Trade balance (million dollars)	714	659	744	444	324	-26.9
	Ratio of imports to consumption (percent)	9.0	9.8	10.8	12.0	13.1	9.2
	Ratio of exports to shipments (percent)	12.0	12.4	13.7	13.7	14.3	4.4
CH028	Soaps, detergents, and surface-active agents:						
	Number of establishments	950	950	950	950	950	0.0
	Employees (thousands)	52.0	52.0	52.0	52.0	52.0	0.0
	Capacity utilization (percent)	88	87	87	87	85	-2.3
	U.S. shipments (million dollars)	17,700	18,500	19,500	19,800	21,000	6.1
	U.S. exports (million dollars)	2,138	2,331	2,223	2,282	2,524	10.6
	U.S. imports (million dollars)	948	1,050	1,115	1,273	1,369	7.5
	Apparent U.S. consumption (million dollars)	16,510	17,220	18,393	18,791	19,844	5.6
	Trade balance (million dollars)	1,190	1,280	1,107	1,009	1,156	14.6
	Ratio of imports to consumption (percent)	5.7	6.1	6.1	6.8	6.9	1.5
	Ratio of exports to shipments (percent)	12.1	12.6	11.4	11.5	12.0	4.3

Table CH-4—Continued
Chemicals and related products sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
		1999	2000	2001	2002	2003	2003 110111 2002
CH030	Explosives, propellant powders, and related items:	4.05	400	400	440	445	0.5
	Number of establishments	125	122	120	118	115	-2.5
	Employees (thousands)	13.0	13.0	13.0	13.0	13.0	0.0
	Capacity utilization (percent)	87	85	84	85	85	0.0
	U.S. shipments (million dollars)	2,000	2,080	2,110	2,200	2,285	3.9
	U.S. exports (million dollars)	264	314	254	286	385	34.9
	U.S. imports (million dollars)	267	265	285	302	353	16.5
	Apparent U.S. consumption (million dollars)	2,003	2,031	2,141	2,217	2,252	1.6
	Trade balance (million dollars)	-3	49	-31	-17	33	(⁴)
	Ratio of imports to consumption (percent)	13.3	13.0	13.3	13.6	15.7	15.4
	Ratio of exports to shipments (percent)	13.2	15.1	12.0	13.0	16.9	30.0
CH031	Polyethylene resins in primary forms:						
	Number of establishments	45	46	46	46	46	0.0
	Employees (thousands)	22.0	22.0	22.0	22.0	22.0	0.0
	Capacity utilization (percent)	89	88	83	87	85	-2.3
	U.S. shipments (million dollars)	9,400	10,500	9,100	9,000	10,500	16.7
	U.S. exports (million dollars)	2,249	2,688	2,416	2,590	2,817	8.8
	U.S. imports (million dollars)	1,329	1,650	1,735	1,651	2,158	30.7
	Apparent U.S. consumption (million dollars)	8,480	9,462	8,419	8,062	9,842	22.1
	Trade balance (million dollars)	920	1,038	681	938	658	-29.9
	Ratio of imports to consumption (percent)	15.7	17.4	20.6	20.5	21.9	6.8
	Ratio of exports to shipments (percent)	23.9	25.6	26.6	28.8	26.8	-6.9
CH032	Polypropylene resins in primary forms:						
	Number of establishments	26	27	28	28	28	0.0
	Employees (thousands)	6.0	6.0	6.0	6.0	6.0	0.0
	Capacity utilization (percent)	91	88	84	93	95	2.2
	U.S. shipments (million dollars)	4,400	4,500	4,000	4,500	4,700	4.4
	U.S. exports (million dollars)	863	1,131	1,100	1,188	1,416	19.2
	U.S. imports (million dollars)	232	251	219	259	298	15.1
	Apparent U.S. consumption (million dollars)	3,770	3,620	3,119	3,571	3,582	(³)
	Trade balance (million dollars)	630	880	881	929	1,118	20.4
	Ratio of imports to consumption (percent)	6.2	6.9	7.0	7.2	8.3	15.3
	Ratio of exports to shipments (percent)	19.6	25.1	27.5	26.4	30.1	14.0
	Traile of exports to shipments (percently)	13.0	20.1	21.0			

Table CH-4—Continued
Chemicals and related products sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC		4000	0000	0004	0000	0000	Percent change,
code	Industry/commodity group	1999	2000	2001	2002	2003	2003 from 2002
CH033	Polyvinyl chloride resins in primary forms:						
	Number of establishments	28	28	28	27	27	0.0
	Employees (thousands)	8.0	8.0	8.0	7.0	7.0	0.0
	Capacity utilization (percent)	95	84	81	91	87	-4.4
	U.S. shipments (million dollars)	3,700	4,200	3,500	4,000	3,800	-5.0
	U.S. exports (million dollars)	626	716	1,004	781	837	7.2
	U.S. imports (million dollars)	235	331	332	247	287	16.1
	Apparent U.S. consumption (million dollars)	3,309	3,815	2,828	3,466	3,250	-6.2
	Trade balance (million dollars)	391	385	672	534	550	3.0
	Ratio of imports to consumption (percent)	7.1	8.7	11.7	7.1	8.8	. 23.9
	Ratio of exports to shipments (percent)	16.9	17.1	28.7	19.5	22.0	12.8
CH034	Styrene polymers in primary forms:						
	Number of establishments	69	69	70	71	71	0.0
	Employees (thousands)	11.0	11.0	11.0	12.0	12.0	0.0
	Capacity utilization (percent)	89	94	80	82	80	-2.4
	U.S. shipments (million dollars)	5,500	5,900	5,200	5,700	5,500	-3.5
	U.S. exports (million dollars)	753	848	731	752	783	4.1
	U.S. imports (million dollars)	427	572	579	580	628	8.2
	Apparent U.S. consumption (million dollars)	5,174	5,624	5,048	5,528	5,345	-3.3
	Trade balance (million dollars)	326	276	152	172	155	-9.6
	Ratio of imports to consumption (percent)	8.2	10.2	11.5	10.5	11.7	11.4
	Ratio of exports to shipments (percent)	13.7	14.4	14.0	13.2	14.2	7.6
CH035	Saturated polyester resins:						
	Number of establishments	52	52	52	54	55	1.9
	Employees (thousands)	6.0	6.0	6.0	7.0	7.0	0.0
	Capacity utilization (percent)	82	85	85	85	85	0.0
	U.S. shipments (million dollars)	4,800	5,500	5,200	5,500	5,800	5.5
	U.S. exports (million dollars)	566	629	798	712	814	14.2
	U.S. imports (million dollars)	448	522	502	537	656	22.1
	Apparent U.S. consumption (million dollars)	4,682	5,393	4,904	5,325	5,642	6.0
	Trade balance (million dollars)	118	107	296	175	158	-10.0
	Ratio of imports to consumption (percent)	9.6	9.7	10.2	10.1	11.6	14.9
	Ratio of exports to shipments (percent)	11.8	11.4	15.3	13.0	14.0	7.7

Table CH-4—Continued
Chemicals and related products sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
CH037	Styrene-butadiene rubber in primary forms:	1333	2000	2001	2002	2000	2000 110111 2002
CHUST	Number of establishments	11	11	11	11	11	0.0
	Employees (thousands)	5.0	5.0	5.0	5.0	5.0	0.0
	. , , ,	88	88	90	92	92	0.0
	Capacity utilization (percent)				1,490	1,490	0.0
		1,390 309	1,460 344	1,430 297	273	324	19.0
	U.S. exports (million dollars)	173	232	297 258	273	231	-0.2
	U.S. imports (million dollars)						-3.6
	Apparent U.S. consumption (million dollars)	1,253	1,348	1,391	1,449	1,397	
	Trade balance (million dollars)	137	112	39	41	93	128.6
	Ratio of imports to consumption (percent)	13.8	17.2	18.6	16.0	16.6	3.8
011000	Ratio of exports to shipments (percent)	22.2	23.6	20.8	18.3	21.8	19.1
CH038	Other synthetic rubber:					45	45
	Number of establishments	34	34	34	34	(1)	$\binom{1}{1}$
	Employees (thousands)	11.0	11.0	11.0	11.0	(1)	(¹) (¹) (¹)
	Capacity utilization (percent)	82	83	83	83	(¹)	(')
	U.S. production (million dollars)	4,180	4,380	4,290	4,300	(¹)	(')
	U.S. exports (million dollars)	1,079	1,317	1,328	1,361	1,478	8.6
	U.S. imports (million dollars)	697	778	734	725	741	2.2
	Apparent U.S. consumption (million dollars)	3,798	3,841	3,696	3,664	(¹)	(1)
	Trade balance (million dollars)	382	539	594	636	737	15.8
	Ratio of imports to consumption (percent)	18.4	20.2	19.9	19.8	(¹)	$\binom{1}{2}$
	Ratio of exports to production (percent)	25.8	30.1	31.0	31.7	(¹)	(¹)
CH039	Pneumatic tires and tubes (new):						
	Number of establishments	42	42	42	42	42	0.0
	Employees (thousands)	64.0	66.0	63.0	64.0	64.0	0.0
	Capacity utilization (percent)	92	93	90	90	90	0.0
	U.S. shipments (million dollars)	13,950	14,600	13,400	13,500	13,500	0.0
	U.S. exports (million dollars)	2,366	2,414	2,282	2,233	2,212	-0.9
	U.S. imports (million dollars)	4,559	4,700	4,146	4,694	5,170	10.1
	Apparent U.S. consumption (million dollars)	16,143	16,886	15,264	15,960	16,457	3.1
	Trade balance (million dollars)	-2,193	-2,286	-1,864	-2,460	-2,957	-20.2
	Ratio of imports to consumption (percent)	28.2	27.8	27.2	29.4	31.4	6.8
	Ratio of exports to shipments (percent)	17.0	16.5	17.0	16.5	16.4	-0.6

Table CH-4—Continued
Chemicals and related products sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC							Percent change,
code	Industry/commodity group	1999	2000	2001	2002	2003	2003 from 2002
CH040	Other tires:						
	Number of establishments	1,400	1,400	1,400	1,400	1,400	0.0
	Employees (thousands)	8.0	8.0	8.0	8.0	8.0	0.0
	Capacity utilization (percent)	90	90	90	90	90	0.0
	U.S. shipments (million dollars)	990	1,000	1,100	1,100	1,100	0.0
	U.S. exports (million dollars)	111	89	96	94	98	3.9
	U.S. imports (million dollars)	129	137	122	123	137	11.4
	Apparent U.S. consumption (million dollars)	1,008	1,048	1,126	1,129	1,139	0.9
	Trade balance (million dollars)	-18	-48	-26	-29	-39	-36.1
	Ratio of imports to consumption (percent)	12.8	13.1	10.8	10.9	12.0	10.1
	Ratio of exports to shipments (percent)	11.2	8.9	8.8	8.6	8.9	3.5
CH044	Natural rubber:						
	Number of establishments	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	Employees (thousands)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	Capacity utilization (percent)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	U.S. shipments (million dollars)	. (¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	U.S. exports (million dollars)	41	39	34	40	59	48.7
	U.S. imports (million dollars)	704	842	613	751	1,047	39.4
	Apparent U.S. consumption (million dollars)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	Trade balance (million dollars)	-664	-803	-579	-712	-988	-38.9
	Ratio of imports to consumption (percent)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	Ratio of exports to shipments (percent)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)

¹Not available.

Note.-Calculations based on unrounded data.

Source: These data have been estimated by the Commission's international trade analysts on the basis of primary and secondary data sources including discussions with various Government and industry contacts. These estimated data are subject to change either from secondary sources or from detailed surveys the Commission often conducts in the course of statutory investigations or other work. Further, these data may undergo adjustments based on revisions in tariff nomenclature, classification practices, or redefinitions of industry classes.

²Inventory changes, for which data are not available, likely account for ratios that exceed 100 percent.

³Less than 0.05 percent.

⁴Not meaningful.

Energy-Related Products

Cynthia B. Foreso, Coordinator (202) 205-3348 cynthia.foreso@usitc.gov

Change in 2003 from 2002:

U.S. trade deficit: Increased by \$35.2 billion (37 percent) to \$130.5 billion U.S. exports: Increased by \$2.2 billion (15 percent) to \$16.6 billion U.S. imports: Increased by \$37.3 billion (34 percent) to \$147.2 billion

Historically, the United States has been the world's largest consumer of energy products and has maintained a trade deficit in the energy sector. In 2003, the overall U.S. trade deficit in energy-related products increased by 37 percent primarily because of the rise in prices for crude petroleum and natural gas (see table EP-1). World prices for crude petroleum fluctuated from \$15.56 per barrel in 1999 to \$27.48 per barrel in 2003. During the same period, U.S. natural gas prices increased from a low of \$2.19 per thousand cubic feet to a record 30-year high of \$5.09 per thousand cubic feet. During 1999-2003, the trade deficit in this sector more than doubled.

The energy-related products with the largest year-to-year shifts (see table EP-2), in terms of value, included increased U.S. exports of electricity, crude petroleum, and natural gas; and increased imports of natural gas, crude petroleum, coal, and petroleum products. Analyses of these shifts for crude petroleum, petroleum products, and natural gas are presented later in this chapter.

The value of U.S. exports of electricity increased in 2003 as a direct result of the increase in the price of natural gas, which is the primary fuel (fossil or renewable) used to generate electricity (see Natural Gas and Components). Fossil fuels account for an average of 75 percent of total U.S. electricity generation. The cost of fossil fuels at electric-generating plants increased from an average \$1.52 per million Btu in 2002 to \$2.50 per million Btu in 2003; as a result, retail prices for electricity to industrial and residential consumers increased. The United States and Canada, which are each other's only significant trading partner for electricity, share a sophisticated system of interconnected grids used to transmit electricity across the border with trade between the two countries dependent on which side of the grid is operating at any particular time. The quantity of U.S. imports of electricity declined from 36 billion kilowatthours in 2002 to 28 billion kilowatthours in 2003, whereas U.S. exports rose from 13 billion kilowatthours in 2002 to 24 billion kilowatthours in 2003. Although there is some negligible, sporadic trade with Mexico, there is no synchronized interconnecting grid in the border region.

U.S. exports of coal increased from 39.6 million short tons in 2002 to 43.6 million short tons in 2003. U.S. imports of coal, which accounted for only 2 percent of U.S. consumption in 2003, increased 58 percent from 16.9 million short tons in 2002 to 26.9 million short tons in 2003. Nearly all of this increase was Indonesian coal shipped to the west coast of the United States.³

¹ The value of U.S. imports of nuclear materials increased 35 percent in 2003 from 2002 levels; however, these imports are actually uranium imported for enrichment and subsequently reexported.

² The United States accounts for the largest share of the world's recoverable coal reserves (25 percent) and is a major world exporter of coal.

³ Derived from official statistics of the U.S. Department of Energy and U.S. Department of Energy, Energy Information Administration, *Short-Term Energy Outlook*, 2003 and 2004 reports.

Table EP-1
Energy-related products: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1999-2003¹

					, , , , , , , , , , , , , , , , , , ,	Change, 200	3 from 2002
Item	1999	2000	2001	2002	2003	Absolute	Percent
-			— Million dolla	irs ———			
U.S. exports of domestic merchandise: Canada Mexico Saudi Arabia Venezuela Nigeria United Kingdom Angola Russia Algeria Iraq All other	2,370 2,311 33 79 267 257 10 140 6,856	2,896 4,342 149 17,257 142 140 7,669	3,862 3,296 3,7 111 24 278 216 16 16 7,231	2,889 3,274 121 201 201 3 231 19 0 7,622	4,296 2,897 38 184 206 122 2,4 125 8,843	1,408 -376 4 63 -154 (²) -105 4 (²) 1,221	48.7 -11.5 10.9 -10.9 -2.9 -2.9 -45.6 19.4 16.0
Total EU-15 OPEC Latin America CBERA Asia Sub-Saharan Africa Central and Eastern Europe	11,957 1,912 245 3,746 704 3,096 150 42	15,529 2,072 309 6,422 1,178 3,083 158 70	15,073 2,146 273 5,161 1,026 2,793 149 40	14,431 1,731 300 5,290 1,213 3,305 193 30	16,639 1,714 384 6,159 2,271 3,348 166 50	2,208 -17 -84 869 1,059 43 -27 20	15.3 -1.0 28.0 16.4 87.3 -14.0 67.6
U.S. imports of merchandise for consumption: Canada Mexico Saudi Arabia Venezuela Nigeria United Kingdom Angola Russia Algeria Iraq All other	17,766 6,280 6,679 8,480 3,720 2,278 2,320 1,056 1,559 2,721 16,616	31,860 11,356 12,478 14,863 8,706 3,919 3,321 1,725 2,317 4,148 27,956	34,598 9,103 10,625 12,030 8,627 3,298 2,769 1,746 2,030 3,735 25,665	29,903 11,567 10,264 11,798 5,773 4,399 3,204 2,591 1,827 2,748 25,726	41,579 14,792 14,538 13,791 10,028 5,436 4,137 3,932 3,365 3,297 32,288	11,676 3,225 4,274 1,993 4,255 1,037 932 1,341 1,538 549 6,562	39.0 27.9 41.6 16.9 73.7 23.6 29.1 51.8 84.2 20.0 25.5
Total EU-15 OPEC Latin America CBERA Asia Sub-Saharan Africa Central and Eastern Europe	69,473 4,444 24,856 20,816 1,479 2,055 8,001 44	122,650 8,338 45,389 35,997 3,117 3,021 15,016	114,226 7,614 39,424 29,945 2,689 2,720 14,271	109,800 8,778 34,506 32,598 2,900 2,284 11,713 201	147,183 11,453 47,416 41,240 4,600 2,611 17,674 168	37,382 2,674 12,910 8,642 1,700 327 5,962 -33	34.0 30.5 37.4 26.5 58.6 14.3 50.9 -16.4

Table EP-1--Continued
Energy-related products: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1999-2003¹

						Change, 200	3 from 2002
Item	1999	2000	2001	2002	2003	Absolute	Percent
-			Million dolla	ars ———			
U.S. merchandise trade balance: Canada Mexico Saudi Arabia Venezuela Nigeria United Kingdom Angola Russia Algeria Iraq All other	-15,396 -3,970 -6,646 -8,401 -3,694 -2,021 -2,318 -1,046 -1,544 -2,721 -9,760	-28,964 -7,014 -12,436 -14,714 -8,690 -3,662 -3,320 -1,583 -2,303 -4,148 -20,287	-30,736 -5,807 -10,588 -11,919 -8,603 -3,020 -2,767 -1,531 -2,014 -3,735 -18,434	-27,014 -8,294 -10,230 -11,677 -5,736 -4,197 -3,201 -2,360 -1,808 -2,748 -18,103	-37,283 -11,894 -14,500 -13,607 -10,006 -5,230 -4,133 -3,806 -3,342 -3,297 -23,445	-10,268 -3,601 -4,270 -1,930 -4,270 -1,033 -932 -1,446 -1,535 -549 -5,341	-38.0 -43.4 -41.7 -16.5 -74.6 -29.1 -61.3 -84.9 -20.0
Total EU-15 OPEC Latin America CBERA Asia Sub-Saharan Africa Central and Eastern Europe	-57,516 -2,532 -24,611 -17,070 -775 1,041 -7,850	-107,121 -6,266 -45,080 -29,575 -1,939 62 -14,859	-99,153 -5,468 -39,152 -24,784 -1,664 73 -14,122 -91	-95,369 -7,048 -34,206 -27,308 -1,687 1,022 -11,520 -171	-130,544 -9,738 -47,033 -35,081 -2,328 737 -17,508 -118	-35,175 -2,691 -12,826 -7,773 -642 -285 -5,989	-36.9 -38.2 -37.5 -28.5 -38.0 -27.8 -52.0 31.0

¹Import values are based on customs value; export values are based on f.a.s. value, U.S. port of export.

Note.—Calculations based on unrounded data. The countries shown are those with the largest total U.S. trade (U.S. imports plus exports) in these products in 2003.

²Less than \$500,000.

³Not meaningful for purposes of comparison.

Table EP-2 Leading changes in U.S. exports and imports of energy-related products, 1999-2003

						Change, 200	3 from 2002
Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent
			— Million o	dollars			
U.S. EXPORTS:							
Increases:							
Petroleum products (CH005)	6,599	9,562	8,936	8,662	9,783	1,121	12.9
Electrical energy (CH001)	206	398	1,258	304	716	412	135.9
Natural gas and components (CH006)	759	1,286	1,109	1,675	2,074	399	23.8
Coal, coke, and related chemical products (CH003)	2,671	2,718	2,354	2,188	2,360	171	7.8
Crude petroleum (CH004)	772	444	177	92	155	63	69.0
Nuclear materials (CH002)	950	1,121	1,239	1,510	1,551	42	2.8
TOTAL	11,957	15,529	15,073	14,431	16,639	2,208	15.3
U.S. IMPORTS:							
Increases:							
Crude petroleum (CH004)	31,642	56,546	49,673	54,704	73,527	18,823	34.4
Natural gas and components (CH006)	11,042	19,157	23.054	18.609	28.885	10.276	55.2
Petroleum products (CH005)	22,079	39,787	34,372	30,594	37,280	6,687	21.9
Nuclear materials (CH002)	1,636	1,989	2,036	2,144	2,892	748	34.9
Coal, coke, and related chemical products (CH003)	1,741	2,460	2,411	2,589	3,217	628	24.2
Electrical energy (CH001)	1,334	2,711	2,681	1,160	1,382	221	19.1
TOTAL	69,473	122,650	114,226	109,800	147,183	37,382	34.0

Note.-Calculations based on unrounded data.

COMMODITY ANALYSIS

Crude Petroleum

Change in 2003 from 2002:

U.S. trade deficit: Increased by \$18.8 billion (34 percent) to \$73.4 billion
U.S. exports: Increased by \$63 million (69 percent) to \$155 million
U.S. imports: Increased by \$18.8 billion (34 percent) to \$73.5 billion

The U.S. trade deficit in crude petroleum increased 34 percent from 2002 to 2003, primarily because of the price of crude petroleum, which rose from \$22.51 per barrel in 2002 to \$27.48 per barrel in 2003. World prices for crude petroleum increased as a result of a combination of factors, including increased demand coupled with tight supplies (resulting in lower U.S. inventories), the threat of escalating global terrorism, and reduced production by OPEC.⁴ The quantity of crude petroleum exports increased from 9,000 barrels per day (b/d) in 2002 to 12,000 b/d in 2003.⁵ Historically, Canada, which accounted for 99.9 percent of the total quantity of U.S. crude petroleum exports in 2003, has been the only consistent market for these exports.

U.S. imports

U.S. imports of crude petroleum rose from 9.1 million b/d in 2002 to 9.6 million b/d in 2003, or by 5 percent. In terms of quantity, Saudi Arabia, Canada, Mexico, Venezuela, and Nigeria were the leading sources of U.S. imports of crude petroleum in 2003. OPEC, which accounts for nearly 70 percent of world reserves and 40 percent of world production of crude petroleum, was again the largest regional supplier to the U.S. market, accounting for 47 percent of total U.S. imports of crude petroleum. U.S. imports of crude petroleum continued to account for over 60 percent of domestic consumption as demand for crude petroleum increased and U.S. production continued to decline.

Cynthia B. Foreso (202) 205-3348 cynthia.foreso@usitc.gov

⁴ U.S. Department of Energy, Energy Information Administration, *Short-Term Energy Outlook*, 2003 and 2004 reports.

⁵ U.S. exports of crude petroleum have been prohibited since 1973, except as approved by the U.S. Government. Exports to Canada are part of a commercial exchange agreement between refiners in the United States and Canada under the approval of the Secretary of the Department of Energy. In May 1996, the President determined that allowing exports of Alaskan North Slope (ANS) crude was in the national interest, thus ending the 23-year ban on ANS crude exports. However, the President can impose new export restrictions in the event of severe crude petroleum supply shortages.

Petroleum Products

Change in 2003 from 2002:

U.S. trade deficit: Increased by \$5.6 billion (25 percent) to \$27.5 billion U.S. exports: Increased by \$1.1 billion (13 percent) to \$9.8 billion U.S. imports: Increased by \$6.7 billion (22 percent) to \$37.3 billion

The U.S. trade deficit in petroleum products increased 25 percent in 2003 from 2002 levels primarily as a result of the increase in the average per barrel price for crude petroleum on the world market (see Crude Petroleum). The United States is a major world producer and consumer of petroleum products, with both production and consumption increasing by about 2 percent in 2003 from 2002 levels. In terms of quantity, U.S. exports of petroleum products are minimal, accounting for less than 5 percent of total U.S. production and less than 6 percent of total world exports of petroleum products. The quantity of U.S. exports of petroleum products, primarily distillate and residual fuel oils to Mexico and Canada, increased only 1 percent.

U.S. imports

While the value of U.S. imports of petroleum products in 2003 increased 22 percent from 2002 levels, the quantity of these imports remained relatively stable at 1.4 million b/d. U.S. imports of petroleum products, on average, account for less than 10 percent of domestic consumption. The primary sources of U.S. imports of petroleum products in 2003 continued to be Canada, Saudi Arabia, and Venezuela. The quantity of U.S. imports of gasoline increased by about 3 percent as demand remained strong despite a nearly 14 cents per gallon increase in U.S. retail prices from 2002 to 2003. The quantity of U.S. imports of distillate and residual fuel oils, used primarily as heating and bunker fuels, increased about 20 percent in 2003, as higher natural gas prices coupled with a colder winter encouraged some fuel switching.⁶

Cynthia B. Foreso (202) 205-3348 cynthia.foreso@usitc.gov

⁶ U.S. Department of Energy, Energy Information Administration, *Energy Supply Monthly*, *Natural Gas Monthly* and *Short-Term Energy Outlook*, 2003 and 2004 reports.

Natural Gas and Components

Change in 2003 from 2002:

U.S. trade deficit: Increased by \$9.9 billion (58 percent) to \$26.8 billion U.S. exports: Increased by \$399 million (24 percent) to \$2.1 billion U.S. imports: Increased by \$10.3 billion (55 percent) to \$28.9 billion

The trade deficit for natural gas and components increased primarily because of the rise in the price of pipeline natural gas, which accounted for 64 percent of sector imports in 2003. The price increase is attributable to increased demand for natural gas for heating purposes beyond expected levels during January-March 2003, which forced suppliers to import additional gas from Canada at higher spot market prices. In addition, an effort to replenish diminished supplies during the normally lax summer months preserved a higher than normal price level. Finally, the long-term contract prices for natural gas are directly linked to, and can rise or fall with, prices for certain petroleum products (primarily distillate and residual fuel oils). As a result, rising crude petroleum prices contributed to the increased price for natural gas (see Crude Petroleum).

Although U.S. trade in pipeline natural gas is limited to Canada and Mexico, higher natural gas prices in 2003 accentuated the difference between imports and exports; the actual volumes traded changed only slightly. Although the value of the trade deficit for pipeline natural gas increased by \$6.1 billion from 2002 to 2003, the deficit, in terms of volume, declined more than 4 percent.

Exports of natural gas and components account for a minimal share of U.S. production, about 2 to 3 percent, and are generally shipped to Canada. Exports of natural gas and components increased 24 percent, from \$1.7 billion in 2002 to \$2.1 billion in 2003.

U.S. imports

Imports of natural gas and components increased 55 percent to \$28.9 billion in 2003. Canada accounted for 69 percent of U.S. imports of the products in this sector and more than 99 percent of pipeline natural gas imports. The value of these U.S. imports from Canada increased nearly 60 percent, reaching \$18.2 billion in 2003, whereas the volume of imports declined approximately 2 percent, from 110 billion cubic meters in 2002 to 108 billion cubic meters in 2003.

Eric Land (202) 205-3349 eric.land@usitc.gov

⁷ U.S. Department of Energy, Energy Information Administration, *Energy Supply Monthly*, *Natural Gas Monthly* and *Short-Term Energy Outlook*, 2003 and 2004 reports.

Table EP-3 Energy-related products: U.S. trade for industry/commodity groups and subgroups, 1999-2003¹

USITC		,					Change, 200	3 from 2002
code ²	Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent
011004	Electrical an annua			Million	dollars ——			
CH001	Electrical energy: Exports Imports Trade balance	206 1,334 -1,127	398 2,711 -2,313	1,258 2,681 -1,423	304 1,160 -857	716 1,382 -666	412 221 191	135.9 19.1 22.3
CH002	Nuclear materials: Εχροrts Imports	950 1,636 -686	1,121 1,989 -868	1,239 2,036 -797	1,510 2,144 -635	1,551 2,892 -1,341	42 748 -706	2.8 34.9 -111.2
CH003	Trade balance Coal, coke, and related chemical products: Exports Imports Trade balance	2,671 1,741 930	2,718 2,460 257	2,354 2,411 -57	2,188 2,589 -401	2,360 3,217 -857	171 628 -456	7.8 24.2 -113.8
CH004		31,642	444 56,546 -56,103	177 49,673 -49,496	92 54,704 -54,612	155 73,527 -73,372	63 18,823 -18,760	69.0 34.4 -34.4
CH005	Petroleum products: Exports Imports Trade balance	22,079	9,562 39,787 -30,224	8,936 34,372 -25,436	8,662 30,594 -21,931	9,783 37,280 -27,497	1,121 6,687 -5,566	12.9 21.9 -25.4
CH006	Natural gas and components: Exports Imports Trade balance		1,286 19,157 -17,870	1,109 23,054 -21,944	1,675 18,609 -16,934	2,074 28,885 -26,811	399 10,276 -9,877	23.8 55.2 -58.3

Note.—Calculations based on unrounded data.

¹Import values are based on customs value; export values are based on f.a.s. value, U.S. port of export.

²This coding system is used by the U.S. International Trade Commission to identify major groupings and subgroupings of HTS import and export items for trade monitoring purposes

Table EP-4
Energy-related products sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC		4000	0000	0004	0000	0000	Percent change,
code	Industry/commodity group	1999	2000	2001	2002	2003	2003 from 2002
CH001	Electrical energy:						
	Number of establishments	3,225	3,225	3,225	3,225	3,225	0.0
	Employees (thousands)	(1)	(¹)	(¹)	(¹)	(¹)	(1)
	Capacity utilization (percent)	100	100	100	100	100	0.0
	U.S. shipments (million dollars)	219,460	218,610	220,824	229,664	340,400	48.2
	U.S. exports (million dollars)	206	398	1,258	304	716	135.9
	U.S. imports (million dollars)	1,334	2,711	2,681	1,160	1,382	19.1
	Apparent U.S. consumption (million dollars)	220,587	220,923	222,247	230,521	341,066	48.0
	Trade balance (million dollars)	-1,127	-2,313	-1,423	-857	-666	22.3
	Ratio of imports to consumption (percent)	0.6	1.2	1.2	0.5	0.4	-20.0
	Ratio of exports to shipments (percent)	0.1	0.2	0.6	0.1	0.2	100.0
CH003	Coal, coke, and related chemical products:						
	Number of establishments	520	520	520	520	520	0.0
	Employees (thousands)	150.0	150.0	150.0	150.0	150.0	0.0
	Capacity utilization (percent)	90	90	90	90	90	0.0
	U.S. shipments (million dollars)	32,965	32,606	34,320	38,496	36,582	-5.0
	U.S. exports (million dollars)	2,671	2,718	2,354	2,188	2,360	7.8
	U.S. imports (million dollars)	1,741	2,460	2,411	2,589	3,217	24.2
	Apparent U.S. consumption (million dollars)	32,035	32,349	34,377	38,897	37,439	-3.7
	Trade balance (million dollars)	930	257	-57	-401	-857	- 113.8
	Ratio of imports to consumption (percent)	5.4	7.6	7.0	6.7	8.6	28.4
	Ratio of exports to shipments (percent)	8.1	8.3	6.9	5.7	6.5	14.0
CH004	Crude petroleum:						
	Number of establishments	18,000	18,000	18,000	18,000	18,000	0.0
	Employees (thousands)	204.0	204.0	204.0	204.0	204.0	0.0
	Capacity utilization (percent)	100	100	100	100	100	0.0
	U.S. shipments (million dollars)	34,602	57,499	46,960	55,203	57,550	4.3
	U.S. exports (million dollars)	772	444	177	92	155	69.0
	U.S. imports (million dollars)	31,642	56,546	49,673	54,704	73,527	34.4
	Apparent U.S. consumption (million dollars)	65,472	113,602	96,456	109,815	130,922	19.2
	Trade balance (million dollars)	-30,870	-56,103	-49,496	-54,612	-73,372	-34.4
	Ratio of imports to consumption (percent)	48.3	49.8	51.5	49.8	56.2	12.9
	Ratio of exports to shipments (percent)	2.2	0.8	0.4	0.2	0.3	50.0

Table EP-4—Continued
Energy-related products sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
CH005	Petroleum products:						
	Number of establishments	190	190	190	190	190	0.0
	Employees (thousands)	75.0	75.0	75.0	75.0	75.0	0.0
	Capacity utilization (percent)	90	90	90	90	90	0.0
	U.S. shipments (million dollars)	113,231	213,475	140,162	193,710	200,475	3.5
	U.S. exports (million dollars)	6,599	9,562	8,936	8,662	9,783	12.9
	U.S. imports (million dollars)	22,079	39,787	34,372	30,594	37,280	21.9
	Apparent U.S. consumption (million dollars)	128,711	243,699	165,598	215,641	227,972	5.7
	Trade balance (million dollars)	-15,480	-30,224	-25,436	-21,931	-27,497	-25.4
	Ratio of imports to consumption (percent)	17.2	16.3	20.8	14.2	16.4	15.5
	Ratio of exports to shipments (percent)	5.8	4.5	6.4	4.5	4.9	8.9
CH006	Natural gas and components:						
	Number of establishments	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	Employees (thousands)	200.0	200.0	200.0	200.0	205.0	2.5
	Capacity utilization (percent)	80	80	80	80	80	0.0
	U.S. shipments (million dollars)	69,000	120,000	150,000	115,000	165,000	43.5
	U.S. exports (million dollars)	759	1,286	1,109	1,675	2,074	23.8
	U.S. imports (million dollars)	11,042	19,157	23,054	18,609	28,885	55.2
	Apparent U.S. consumption (million dollars)	79,282	137,870	171,944	131,934	191,811	45.4
	Trade balance (million dollars)	-10,282	-17,870	-21,944	-16,934	-26,811	-58.3
	Ratio of imports to consumption (percent)	13.9	13.9	13.4	14.1	15.1	7.1
	Ratio of exports to shipments (percent)	1.1	1.1	0.7	1.5	1.3	<i>-</i> 13.3

¹Not available.

Note.-Calculations based on unrounded data.

Source: These data have been estimated by the Commission's international trade analysts on the basis of primary and secondary data sources including discussions with various Government and industry contacts. These estimated data are subject to change either from secondary sources or from detailed surveys the Commission often conducts in the course of statutory investigations or other work. Further, these data may undergo adjustments based on revisions in tariff nomenclature, classification practices, or redefinitions of industry classes.

Textiles, Apparel, and Footwear

Kimberlie Freund, Coordinator (202) 708-5402 kimberlie.freund@usitc.gov

Change in 2003 from 2002 for textiles and apparel:¹

U.S. trade deficit: Increased by \$5.9 billion (9 percent) to \$70.2 billion
U.S. exports: Decreased by \$265 million (1 percent) \$17.0 billion
U.S. imports: Increased by \$5.7 billion (7 percent) to \$87.2 billion

The U.S. trade deficit in textiles and apparel widened by 9 percent in 2003, up from a 4-percent increase in 2002, as U.S. imports rose and U.S. exports continued to fall (see table TX-1). U.S. production of sector goods declined significantly in 2003, by 11 percent for textiles and by 18 percent for apparel.² A large part of the increase in imports occurred in goods for which quotas were removed in 2002 (see table TX-2).³ Apparel accounted for 78 percent of the sector imports in 2003.

The widening of the trade deficit in textiles and apparel in 2003 largely stemmed from growing imports from Asia, particularly China and Vietnam. The trade deficit with Asia widened by \$4.6 billion to \$47.4 billion, as the \$4.7 billion increase in U.S. imports from the region far exceeded the \$80 million gain in U.S. exports to the region. Imports from China rose by 22 percent in 2003 to \$15.4 billion, making China the largest supplier by far with 17.7 percent of sector imports, up from 15.4 percent in 2002. The growth in China's shipments was concentrated in goods for which China became eligible for quota elimination in 2002 --namely, knit fabrics, brassieres, textile luggage, babies' apparel, and robes and dressing gowns. U.S. retailers and apparel companies view China as a desirable textile and apparel supplier because of China's low production costs, its ability to make almost any type of textile product or garment at any quality level, and its abundant labor force. In December 2003, the United States reinstated import quotas on certain of these products from China under the textile safeguard provision of China's WTO Accession Agreement.

¹ Footwear is treated separately in this chapter.

² Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin - Winter 2004*, "Rates of Change in Industrial Production, Market and Industry Group Summary: 1999-2003," found at *http://www.federalreserve.gov*, retrieved Mar. 16, 2004.

³ Imports will likely continue to grow following elimination of all remaining quotas on sector goods from World Trade Organization (WTO) countries on January 1, 2005, as required by the WTO Agreement on Textiles and Clothing (ATC).

⁴ For additional information on China's textile and apparel industry, see *Textiles and Apparel: Assessment of the Competitiveness of Certain Foreign Suppliers to the U.S. Market*, (Inv. No. 332-448), USITC publication 3671, Jan. 2004.

⁵ On December 24, 2003, the United States requested consultations with China and established quotas on imports from China for three groups of products (knit fabrics, robes and dressing gowns, and brassieres) that had experienced significant import growth since the removal of quotas at the end of 2001. Information on the safeguard actions is available in three notices of the Committee for the Implementation of Textile Agreements (CITA), published in the *Federal Register* of Dec. 29, 2003 (68 F.R. 74944-74949).

Table TX-1

Textiles and apparel: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1999-2003¹

						Change, 200	3 from 2002
Item	1999	2000	2001	2002	2003	Absolute	Percent
-			— Million dolla	ars ———			
U.S. exports of domestic merchandise: China Mexico Canada Hong Kong Honduras India Dominican Rep Korea Italy Tháiland All other	166 5,550 3,545 1,233 1,233 1,259 163 163 6,256	221 6,1556 3,4746 1,34746 1,3952 1445 1,495 1,495 1,694	261 5,232 3,344 1,409 1,290 1,290 128 128 5,891	339 4,939 3,193 3,24 1,523 44 1,293 184 120 5,291	405 4,696 3,1313 1,522 1,263 1,263 1,207 1,207 1,207 1,207 1,207	65 -243 -72 -10 -10 -30 -1 25 -30	19.29 -4.23 -2.11 -21.53 1-0.486 -0.686
Total EU-15 OPEC Latin America CBERA Asia Sub-Saharan Africa Central and Eastern Europe	18,723 1,836 312 10,607 4,389 1,845 146 62	20,354 1,924 261 12,003 5,125 2,030 136 43	18,118 1,698 269 10,536 4,783 1,819 131 46	17,298 1,520 222 10,077 4,761 1,883 124 40	17,033 1,473 202 9,803 4,688 1,963 1,31 38	-265 -46 -20 -273 -73 -80 6 -2	-1.5 -3.0 -9.0 -2.7 -1.5 4.3 5.0 -5.1
U.S. imports of merchandise for consumption: China Mexico Canada Hong Kong Honduras India Dominican Rep Korea Italy Thailand All other	9,234 9,413 3,640 4,559 2,205 2,666 2,388 3,189 2,314 2,096 29,565	10,710 10,580 3,945 4,804 2,423 3,161 2,478 3,479 2,484 2,513 34,332	11,124 9,941 3,791 4,491 2,443 3,038 2,337 3,316 2,420 2,524 34,521	12,602 9,649 3,859 4,081 2,509 3,382 2,242 3,287 2,380 2,495 35,099	15,426 9,015 3,788 3,863 2,578 3,668 2,210 2,986 2,526 2,513 38,668	2,823 -634 -72 -218 68 286 -32 -301 147 18 3,570	22.4 -6.6 -1.9 -5.7 8.5 -1.4 -9.2 0.7 10.2
Total EU-15 OPEC Latin America CBERA Asia Sub-Saharan Africa Central and Eastern Europe	71,269 5,019 2,526 19,439 8,999 38,102 622 438	80,909 5,360 3,153 21,654 9,817 43,544 789 511	79,946 5,190 3,251 20,841 9,728 43,218 998 541	81,585 5,163 2,981 20,639 44,666 1,136	87,241 5,391 3,016 20,553 9,865 49,371 1,552 562	5,655 228 35 -86 154 4,705 416 47	6.9 4.4 1.2 -0.4 10.5 36.6 9.1

Table TX-1--Continued
Textiles and apparel: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1999-2003¹

						Change, 200	3 from 2002
Item	1999	2000	2001	2002	2003	Absolute	Percent
-			— Million dolla	ars ———			
U.S. merchandise trade balance: China Mexico Canada Hong Kong Honduras India Dominican Rep Korea Italy Thailand All other	-9,068 -3,863 -96 -4,264 -971 -2,630 -1,129 -3,009 -2,152 -2,057 -23,309	-10,489 -4,426 -299 -4,472 -948 -3,115 -1,082 -3,276 -2,339 -2,470 -27,639	-10,863 -4,709 -446 -4,178 -1,034 -3,000 -1,047 -3,146 -2,292 -2,484 -28,630	-12,263 -4,710 -666 -3,757 -986 -3,337 -950 -3,103 -2,259 -2,449 -29,807	-15,021 -4,319 -666 -3,549 -1,056 -3,614 -948 -2,780 -2,447 -2,442 -33,407	-2,758 391 -1 208 -69 -277 2 323 -147 7 -3,599	-22.5 8.3 -0.1 5.5 -7.0 0.2 10.4 -6.5 -12.1
Total EU-15 OPEC Latin America CBERA Asia Sub-Saharan Africa Central and Eastern Europe	-52,547 -3,183 -2,214 -8,832 -4,610 -36,257 -476 -376	-60,555 -3,436 -2,892 -9,651 -4,692 -41,515 -653 -468	-61,828 -3,491 -2,982 -10,305 -4,946 -41,399 -867 -495	-64,288 -3,644 -2,759 -10,563 -4,950 -42,783 -1,012 -474	-70,208 -3,918 -2,814 -10,750 -5,176 -47,408 -1,421 -523	-5,920 -274 -55 -187 -227 -4,625 -409 -49	-9.2 -7.5 -2.0 -1.86 -10.8 -40.5 -10.3

¹Import values are based on customs value; export values are based on f.a.s. value, U.S. port of export.

Note.—Calculations based on unrounded data. The countries shown are those with the largest total U.S. trade (U.S. imports plus exports) in these products in 2003.

Table TX-2 Leading changes in U.S. exports and imports of textiles and apparel, 1999-2003

						Change, 200	3 from 2002
Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent
			Million a	lollars			
U.S. EXPORTS:							
Increases:							
Fibers and yarns, except raw cotton and raw wool							
(CH045)	2,830	3,126	2,640	2,656	2,872	216	8.1
Fabrics (CH046)	5,170	6,067	6,162	6,485	6,641	156	2.4
Decreases:							
Apparel (CH049)	7,964	8,177	6,537	5,491	4,965	-525	-9.6
Home furnishings (CH048)	398	418	403	363	339	-24	-6.6
Carpets and rugs (CH047)	772	791	711	684	681	-3	-0.5
All other	1,589	1,774	1,666	1,619	1,534	-85	-5.2
TOTAL	18,723	20,353	18,118	17,298	17,033	-265	-1.5
U.S. IMPORTS:							
Increases:							
Apparel (CH049)	56,565	64,402	63,995	63,927	68,274	4,347	6.8
Home furnishings (CH048)	2,652	3,215	3,332	4,226	5,021	795	18.8
Miscellaneous textile products (CH050)	2,696	3,005	3,198	3,340	3,754	414	12.4
Decreases:	_, -,	0,000	٥,	5,5 .5	-,		
Men's and boys' trousers (CH049C)	6,381	7,321	6,980	6,973	7,459	486	7.0
Other wearing apparel (CH049S)	2,833	3,539	3,433	3,287	3,630	343	10.4
Fabrics (CH046)	5,563	6,052	5,466	5,922	5,854	-67	-1.1
All other	-5,420	-6,626	-6,459	-6,089	-6,751	-663	10.9
TOTAL	71,269	80,909	79,946	81,585	87,241	5,655	6.9

Note.-Calculations based on unrounded data.

Vietnam has emerged as a major supplier of apparel since the United States granted it normal trade relations (NTR) status in December 2001.⁶ Apparel imports from Vietnam totaled \$2.4 billion in 2003, up from \$905 million in 2002 and from less than \$50 million in earlier years. Imports of sector goods from Vietnam were subject to quotas for the first time, effective May 1, 2003. The quotas limited imports of numerous textile and apparel products from Vietnam and prevented even greater increases in imports of these items in 2003.⁷

In terms of industry/commodity groups, U.S. imports of apparel increased by \$4.3 billion to \$68.3 billion, reflecting a continued trend by retailers and apparel companies to increasingly source apparel from low-cost offshore providers, rather than manufacture or source the products domestically. An increase in consumer spending on apparel of 2 percent also spurred demand for imports in 2003. The increase in consumer spending was attributable to a number of factors, including growth in the economy, a rebound in the stock markets, and new fashion trends, such as dressier styles, which have encouraged consumer spending. Growth in apparel imports occurred not only in categories of products that were removed from quota in 2002, but also in categories of products that were still subject to quota for many major suppliers. Import growth for these constrained products occurred largely from countries that benefit from quota-free access to the U.S. market through preferential trade programs, such as the United States-Caribbean Basin Trade and Partnership Act (CBTPA).

U.S. imports of home furnishings grew by \$795 million to \$5.0 billion in 2003. Growth in imports of home furnishings products was concentrated in items that were removed from quota in 2002, including bedspreads and other furnishings, kitchen and bath linens and towels, and curtains.

U.S. exports of textiles and apparel declined for the third consecutive year during 2002-03, by 1 percent, to \$17.0 billion, their lowest level since 1996. The decline in 2003 largely reflected smaller shipments to the major foreign markets for the U.S. textile and apparel sector--namely, NAFTA signatories Mexico and Canada, and beneficiary countries under the Caribbean Basin Economic Recovery Act (CBERA). The NAFTA and CBERA countries together accounted for 73 percent of U.S. exports of sector goods by value in 2003. Exports of apparel, which consisted mostly of cut apparel pieces, declined by \$525 million to \$5.0 billion in 2003. Instead, U.S. firms are exporting lower value-added inputs for apparel, particularly knit fabrics, which grew by \$309 million to \$1.4 billion in 2003.

The United States posted a decline in textile and apparel trade with its NAFTA partners Canada and especially Mexico in 2003. U.S. firms have reduced their apparel sourcing from Mexico, leading to a decline in U.S. exports of textile inputs to Mexico for use in production of apparel for export to the United States. Imports of apparel from Mexico have declined since 2000, and this decline was partly attributable, at least initially, to NAFTA restrictions on the use of duty drawback, which went into effect in 2001. The decline in textile and apparel trade with Mexico also reflected greater competition from

⁶ NTR status means that imports of goods from Vietnam are now subject to much lower rates of duty.

⁷ The bilateral textile agreement with Vietnam was initialed on April 25, 2003, and signed on July 17, 2003. See *Federal Register* notices of the Committee for the Implementation of Textile Agreements, "Establishment of Import Limits . . .," May 16, 2003 (68 F.R. 26575), and "Establishment of an Export Visa Arrangement . . .," July 30, 2003 (68 F.R. 44748).

⁸ Data on consumer spending are from the U.S. Department of Commerce, Bureaus of Economic Analysis, "Table 2.4.5U - Personal Consumption Expenditures by Type of Product," Mar. 2, 2004, available at http://www.bea.gov.

⁹ Standard & Poors, "Apparel & Footwear: Current Environment," Mar. 4, 2004, found at http://www.netadvantage.standardsandpoor.com, retrieved on Mar. 10, 2004; and Emerging Textiles, "Global Textile Market Could Be Boosted By the Rebound In U.S. Apparel Sales," Apr. 13, 2004, found at http://www.emergingtextiles.com, retrieved on Apr. 14, 2004.

¹⁰ NAFTA had permitted duty drawback, or the refund of duties paid on imports of certain apparel components that were not required to originate in a NAFTA country (e.g., nonvisible interlinings and other trimmings). Stephen Lamar, Senior Vice President, American Apparel & Footwear Association, Arlington, VA, interview by Commission (continued...)

CBERA countries benefitting from new U.S. trade preferences for the region (see below) and from lower cost countries in Asia, particularly China, following quota elimination for certain sector goods in 2002.

The textile and apparel trade deficit with CBERA countries widened by \$227 million (5 percent), as imports from the region rose by \$154 million (2 percent) and exports to the region fell by \$73 million (2 percent). The pattern of U.S.-CBERA textile and apparel trade has changed since implementation of the CBTPA in October 2000. Prior to that time, in order for imports of most apparel made in CBERA countries to qualify for both reduced duties under HTS heading 9802.00.80 and preferential quotas under the special access program, the fabrics used in the production of the goods had to be made and cut into garment parts in the United States. Following implementation of CBTPA, which grants duty-free and quota-free entry to qualifying apparel assembled from fabrics made in the United States of U.S.-made yarns, uncut fabrics may now be shipped to CBERA countries for both cutting and assembly into qualifying apparel. In addition, CBTPA grants duty-free entry to limited quantities of knit apparel made in CBERA countries from fabrics knitted in the countries, provided that the fabrics are made of U.S. yarns. As such, yarns and uncut fabrics have replaced higher valued-added cut garment parts in trade with CBERA countries.

The textile and apparel trade deficit with sub-Saharan African (SSA) countries rose by \$409 million (41 percent) in 2003, reflecting substantial growth in apparel imports under the African Growth and Opportunity Act (AGOA), which grants duty-free and quota-free treatment to imports of qualifying textile and apparel articles from SSA countries. AGOA permits lesser developed SSA countries (all eligible SSA countries except Gabon, Mauritius, Seychelles, and South Africa) with apparel visas to use third-country (e.g., Asian) fabrics in their production of apparel for export to the United States and still qualify for AGOA preferences.

¹⁰ (...continued) staff, Feb. 10, 2004.

¹¹ Under heading 9802.00.80 of the Harmonized Tariff Schedule of the United States, U.S. importers receive a partial duty exemption for articles assembled abroad in whole or in part of U.S. components. In general, the duty is assessed only on the value added abroad (mainly the cost of sewing the parts together). The fabric for making the apparel parts can be of either U.S. or foreign origin as long as the fabric is cut to shape in the United States, exported ready for assembly, and not advanced in value abroad except by assembly and incidental operations. The special access program provided CBERA countries, in addition to the reduced duties, virtually unlimited market access for apparel assembled there from fabrics wholly made and cut in the United States (known as "807A" trade).

Change in 2003 from 2002 for footwear:

U.S. trade deficit: Increased by \$205 million (1 percent) to \$15.1 billion
U.S. exports: Decreased by \$25 million (5 percent) to \$495 million
U.S. imports: Increased by \$180 million (1 percent) to \$15.6 billion

The U.S. trade deficit in footwear widened in 2003, primarily because of a continued increase in imports, which account for more than 90 percent of the U.S. footwear market (see table TX-3). The remainder of the U.S. footwear market is supplied by the domestic footwear industry, which comprises primarily niche product manufacturers that compete on the basis of nonprice factors such as specialized types of footwear (e.g., sizes/widths and hand-sewn items), quality, exclusive channels of distribution at retail, rapid responsiveness, and brand-names.¹² Consumer spending on footwear in 2003 rose 3 percent over 2002 to \$50.6 billion.¹³ The average price of footwear continued to decline, as lower priced casual shoes accounted for a greater share of consumer purchases.¹⁴ Leading footwear companies like Nike Inc. and Reebok International Ltd. focused on expanding internationally and diversifying further into apparel and sporting goods. U.S. producers' footwear shipments in 2003 fell by an estimated \$780 million from 2002 to \$2.7 billion.¹⁵

China is the largest source of footwear imports, accounting for 68 percent of the imports by value in 2003. China's dominance in the U.S. market can likely be attributed to its price competitiveness, owing to low wages and an established production infrastructure. Footwear imports from China rose by \$305 million (3 percent). Imports of footwear from Vietnam have increased significantly since the United States granted the country NTR status in December 2001, rising by \$101 million to \$325 million in 2003.

¹² Peter T. Mangione, President, Footwear Distributors and Retailers of America, written submission to the Commission, Jan. 22, 2004.

¹³ U.S. Department of Commerce, Bureau of Economic Analysis, available at http://www.bea.gov.

¹⁴ Yogeesh Wagle, "Apparel & Footwear," *Standard & Poor's*, Mar. 4, 2004, found at *http://www.netadvantage.standardandpoors.com*, retrieved Mar. 10, 2004.

¹⁵ Data are estimated by the Commission based on data from the U.S. Census Bureau, *Current Industrial Reports*, *Footwear Production: 2002*, issued June 2003.

Table TX-3
Footwear: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1999-2003¹

						Change, 200	3 from 2002
Item	1999	2000	2001	2002	2003	Absolute	Percent
-			 Million dolla 	ars			
U.S. exports of domestic merchandise: China Italy Brazil Indonesia Mexico Vietnam Thailand Spain Dominican Rep Canada All other	41 52 14 94 30 57 57 357	43 4 14 114 27 7 3 54 72 324	46 51 123 123 195 57 300	3551558460566 1918460566 248	36 62 190 25 257 231	21~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	4.6 30.1 20.0 -25.7 27.6 37.8 -7.8 -12.7 -6.1
Total EU-15 OPEC Latin America CBERA Asia Sub-Saharan Africa Central and Eastern Europe	693 82 30 216 98 263 17	664 65 34 234 94 253 14	638 67 37 246 97 218 10	520 57 35 196 75 164 13 2	495 59 26 177 67 158 15	-25 2 -9 -19 -8 -6 3	-4.8 4.1 -25.9 -9.8 -10.7 -3.9 20.1 96.2
U.S. imports of merchandise for consumption: China Italy Brazil Indonesia Mexico Vietnam Thailand Spain Dominican Rep Canada All other	8,438 1,185 960 751 354 146 325 327 237 89 1,261	9,206 1,259 1,149 731 351 125 329 325 181 76 1,123	9,767 1,261 1,162 725 312 132 315 273 193 79 1,031	10,242 1,182 1,080 731 279 224 278 269 140 68 887	10,546 1,241 1,040 570 275 325 285 235 138 64 840	305 59 -40 -161 -3 101 7 -34 -1 -4	3.0 5.0 -3.7 -22.1 -1.2 44.9 2.6 -12.8 -5.3 -5.3
Total EU-15 OPEC Latin America CBERA Asia Sub-Saharan Africa Central and Eastern Europe	14,074 2,038 752 1,593 259 10,142 3 148	14,856 2,044 732 1,709 196 10,841 1	15,249 1,951 725 1,693 206 11,330 1	15,379 1,826 731 1,516 148 11,797 1	15,560 1,764 570 1,475 149 12,046 1	180 -62 -161 -41 1 249 (²) 32	1.2 -3.4 -22.1 -2.7 0.4 2.1 7.1 25.7

Table TX-3--Continued
Footwear: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1999-2003¹

						Change, 200	3 from 2002
Item	1999	2000	2001	2002	2003	Absolute	Percent
-			— Million dolla	ars ———			
U.S. merchandise trade balance: China Italy Brazil Indonesia Mexico Vietnam Thailand Spain Dominican Rep Canada All other	-8,397 -1,180 -958 -738 -260 -116 -320 -323 -180 -5 -903	-9,163 -1,255 -1,148 -717 -237 -97 -322 -322 -127 -4 -799	-9,721 -1,256 -1,160 -712 -189 -113 -311 -268 -142 -9 -731	-10,207 -1,178 -1,078 -716 -183 -206 -274 -263 -110 -3 -641	-10,510 -1,235 -1,038 -558 -185 -185 -280 -229 -111 -8 -609	-303 -58 40 158 -2 -96 -6 34 -1 -5 32	-3.0 -4.9 3.7 22.1 -1.1 -46.4 -2.1 13.0 -140.9 5.1
Total EU-15 OPEC Latin America CBERA Asia Sub-Saharan Africa Central and Eastern Europe	-13,380 -1,956 -722 -1,377 -161 -9,879 13 -146	-14,192 -1,978 -698 -1,474 -102 -10,588 13 -134	-14,611 -1,883 -688 -1,447 -109 -11,113 9 -142	-14,860 -1,769 -696 -1,320 -73 -11,632 -11	-15,065 -1,704 -544 -1,298 -81 -11,888 14 -155	-205 65 152 22 -9 -255 2 -31	-1.4 3.7 21.9 1.7 -12.0 -2.2 21.7 -24.6

¹Import values are based on customs value; export values are based on f.a.s. value, U.S. port of export.

Note.—Calculations based on unrounded data. The countries shown are those with the largest total U.S. trade (U.S. imports plus exports) in these products in 2003

²Less than \$500,000.

Table TX-4
Textiles, apparel, and footwear: U.S. trade for industry/commodity groups and subgroups, 1999-2003¹

USITC							Change, 200	Change, 2003 from 2002		
code ²	Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent		
CH045	Fibers and yarns, except raw cotton and raw wool:			Million o	dollars ———					
CH046	Exports Imports Trade balance Fabrics:	2,830 2,547 282	3,126 2,771 355	2,640 2,545 95	2,656 2,641 16	2,872 2,676 196	216 36 181	8.1 1.3 1,159.7		
	Exports	5,170 5,563 -393	6,067 6,052 15	6,162 5,466 696	6,485 5,922 563	6,641 5,854 786	156 -67 223	2.4 -1.1 39.7		
CH046A	Broadwoven fabrics: Exports Imports Trade balance	2,475 3,418 -943	3,100 3,622 -521	2,997 3,058 -61	3,003 3,243 -240	2,575 3,036 -462	-428 -206 -222	-14.3 -6.4 -92.6		
	Knit fabrics: Exports Imports Trade balance	621 926 -305	787 1,004 -217	918 1,014 -96	1,082 1,080 3	1,392 1,026 365	309 -54 363	28.6 -5.0 14,479.1		
	Specialty fabrics: Exports Imports Trade balance	503 322 180	481 374 107	465 346 119	572 383 190	489 410 79	-84 27 -111	-14.6 7.0 -58.4		
	Coated and other fabrics: Exports Imports Trade balance	906 522 384	912 591 322	1,003 570 433	995 679 316	1,154 743 411	158 64 95	15.9 9.4 30.0		
	Glass fiber fabrics: Exports Imports Trade balance	78 89 -11	99 100 -1	84 104 -20	87 105 -18	118 96 21	31 -9 39	35.5 -8.2 (³)		
	Other fabrics: Exports Imports Trade balance	588 285 302	688 362 326	696 374 322	744 432 312	914 543 371	170 111 59	22.8 25.6 18.9		
CH047	Carpets and rugs: Exports Imports Trade balance	772 1,248 -475	791 1,464 -674	711 1,410 -699	684 1,531 -846	681 1,662 -981	-3 131 -134	-0.5 8.6 -15.9		
CH048	Home furnishings: Exports	398 2,652 -2,254	418 3,215 -2,797	403 3,332 -2,929	363 4,226 -3,863	339 5,021 -4,682	-24 795 -819	-6.6 18.8 -21.2		
CH048A	Blankets: Exports Imports Trade balance	36 149 -113	36 214 -178	34 230 -196	32 353 -321	29 391 -362	-4 38 -41	-11.0 10.6 -12.8		
CH048B	Pillowcases and sheets: Exports Imports Trade balance	111 658 -547	94 723 -629	90 765 -675	76 903 -826	78 1,046 -968	1 144 -142	1.8 15.9 -17.2		

Table TX-4--*Continued*Textiles, apparel, and footwear: U.S. trade for industry/commodity groups and subgroups, 1999-2003¹

USITC							Change, 200	3 from 2002
code ²	Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent
				——— Million	dollars ——	·····		
CH048C	Table/kitchen linens and towels: Exports Imports Trade balance	108 891 -783	113 1,039 -926	109 1,080	93 1,236	85 1,418 -1.333	-8 182	-8.7 14.7 -16.6
CH048D	Curtains: Exports Imports	38 267	40 361	-970 35 397	-1,143 39 576	-1,333 30 725	-190 -9 148	-10.6 -22.5 25.8
CH048E	Trade balance	-230 27	-321 45	-362 _43	-537 -41	-695 43	-157 2	-29.2 4.2
CH048F	Imports Trade balance Pillows, cushions, and sleeping bags: Exports	376 -350 78	547 -502 90	515 -472 91	735 -694 81	1,001 -958 74	26 6 -264 -7	36.2 -38.1 -8.3
CH048G	Imports Trade balance Tapestries and other wall hangings:	307 -228	326 -237	340 -250	417 -336	437 -363	20 -27	4.8 -8.0
CH049	Exports	1 4 -3	1 5 -4	1 5 -4	1 6 -5	1 4 -2	(⁴) -3 3	3.3 -42.8 52.1
	Exports Imports Trade balance		8,177 64,402 -56,225	6,537 63,995 -57,458	5,491 63,927 -58,436	4,965 68,274 -63,308	-525 4,347 -4,872	-9.6 6.8 -8.3
	Men's and boys' suits and sports coats: Exports Imports Trade balance Men's and boys' coats and jackets:	61 1,157 -1,095	82 1,196 -1,114	66 1,026 -960	46 974 -928	39 1,143 -1,104	-7 169 -176	-15.7 17.3 -19.0
	Exports Imports Trade balance	120 1,739 -1,619	114 1,976 -1,862	99 1,992 -1,893	92 1,876 -1,784	91 2,001 -1,910	-1 125 -126	-1.2 6.6 -7.0
	Men's and boys' trousers: Exports Imports Trade balance	1,056 6,381 -5,325	997 7,321 -6,324	728 6,980 -6,252	625 6,973 -6,348	573 7,459 -6,887	-52 486 -538	-8.3 7.0 -8.5
	Women's and girls' trousers: Exports Imports Trade balance	595 6,241 -5,646	587 7,419 -6,832	454 7,668 -7,214	357 7,996 -7,639	287 8,923 -8,636	-70 927 -997	-19.6 11.6 -13.1
CH049E	Shirts and blouses: Exports Imports Trade balance	18,213	2,052 20,159 -18.107	1,533 19,676 -18,143	1,219 19,765 -18,546	1,097 21,285 -20,188	-122 1,520 -1,642	-10.0 7.7 -8.9
CH049F	Sweaters: Exports Imports Trade balance	29 2,033	37 2,506 -2,469	36 2,933 -2,897	38 2,959 -2,921	32 2,729 -2,697	-6 -230 224	-16.1 -7.8 7.7

Table TX-4--*Continued*Textiles, apparel, and footwear: U.S. trade for industry/commodity groups and subgroups, 1999-2003¹

USITC			Change, 200	Change, 2003 from 2002				
code ²	Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent
CHUVOC	Women's and girls' suits, skirts, and coats:	V		Million	dollars ——			
	Exports	239 3,870 -3,631	249 4,304 -4,055	211 4,417 -4,206	154 4,235 -4,081	136 4,803 -4,667	-18 568 -587	-11.8 13.4 -14.4
	ExportsImports	102 1,800 -1,699	106 1,889 -1,783	81 1,675 -1,594	62 1,470 -1,409	59 1,550 -1,491	-3 79 -82	-4.4 5.4 -5.8
CH049I	Robes, nightwear, and underwear: Exports Imports Trade balance	923 4,601 -3,678	1,028 4,842 -3,814	906 4,796 -3,889	744 4,961 -4,218	715 5,044 -4,329	-29 83 -111	-3.9 1.7 -2.6
CH049J	ExportsImportsTrade balance	445 847 -402	423 950 -527	362 923 -560	344 1,031 -687	339 1,091 -751	-5 59 -64	-1.5 5.8 -9.4
	Body-supporting garments: Exports Imports Trade balance	543 1,370 -828	445 1,439 -993	330 1,434 -1,104	385 1,648 -1,263	289 1,579 -1,290	-97 -70 -27	-25.1 -4.2 -2.1
	Neckwear, handkerchiefs, and scarves: Exports Imports Trade balance Clause including glaves for poorts:	38 428 -390	40 510 -470	28 457 -429	24 432 -408	23 494 -471	-1 62 -63	-5.9 14.3 -15.4
	Gloves, including gloves for sports: Exports Imports Trade balance Headwear:	180 1,991 -1,811	185 2,076 -1,891	181 2,119 -1,938	122 2,176 -2,054	109 2,386 -2,277	-13 210 -222	-10.5 9.6 -10.8
	Exports Imports Trade balance	92 1,063 -971	107 1,245 -1,138	116 1,288 -1,172	91 1,279 -1,188	89 1,358 -1,269	-2 79 -81	-1.9 6.2 -6.8
	Leather apparel and accessories: Exports Imports Trade balance	90 1,275 -1,185	94 2,028 -1,934	100 2,121 -2,021	95 1,869 -1,775	92 1,743 -1,651	-3 -126 123	-2.9 -6.8 7.0
	Fur apparel and other fur articles: Exports Imports Trade balance	54 151 -97	48 241 -193	34 264 -230	25 245 -220	19 285 -265	-5 40 -45	-21.0 16.4 -20.5
	Rubber, plastic, and coated-fabric apparel: Exports Imports Trade balance	83 251 -168	102 390 -288	123 381 -258	99 349 -250	95 371 -276	-5 22 -27	-4.6 6.4 -10.8
CH049R	Nonwoven apparel: Exports Imports Trade balance	48 320 -271	42 373 -330	52 411 -360	47 401 -353	37 401 -364	-10 (⁴) -10	-21.1 (⁵) -2.9

Table TX-4--*Continued*Textiles, apparel, and footwear: U.S. trade for industry/commodity groups and subgroups, 1999-2003¹

USITC							Change, 2003 from 2002	
code ²	Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent
CHUVOS	Other wearing apparel:			——— Millio	on dollars ——			
CH050	Exports	2.833	1,437 3,539 -2,102	1,095 3,433 -2,338	922 3,287 -2,366	845 3,630 -2,785	-77 343 -420	-8.3 10.4 -17.7
	Miscellaneous textile products: Exports Imports Trade balance	1,589 2,696 -1,106	1,774 3,005 -1,231	1,666 3,198 -1,532	1,619 3,340 -1,721	1,534 3,754 -2,220	-85 414 -499	-5.2 12.4 -29.0
CH051	Footwear: Exports Imports Trade balance	693 14,074 -13,380	664 14,856 -14,192	638 15,249 -14,611	520 15,379 -14,860	495 15,560 -15,065	-25 180 -205	-4.8 1.2 -1.4

¹Import values are based on customs value; export values are based on f.a.s. value, U.S. port of export.

Note.—Calculations based on unrounded data.

²This coding system is used by the U.S. International Trade Commission to identify major groupings and subgroupings of HTS import and export items for trade monitoring purposes

³Not meaningful for purposes of comparison.

⁴Less than \$500,000.

⁵Less than 0.05 percent.

Table TX-5
Textiles, apparel, and footwear sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC	la destruta arranga dita arranga						Percent change,
code	Industry/commodity group	1999	2000	2001	2002	2003	2003 from 2002
CH045	Fibers and yarns, except raw cotton and raw wool:						
	Number of establishments	871	904	900	896	891	-0.6
	Employees (thousands)	166.0	162.0	150.0	140.0	133.0	-5.0
	Capacity utilization (percent)	69	77	75	69	64	-7.2
	U.S. shipments (million dollars)	23,540	22,630	21,675	20,801	19,969	-4.0
	U.S. exports (million dollars)	2,830	3,126	2,640	2,656	2,872	8.1
	U.S. imports (million dollars)	2,547	2,771	2,545	2,641	2,676	1.3
	Apparent U.S. consumption (million dollars)	23,258	22,275	21,580	20,785	19,773	-4.9
	Trade balance (million dollars)	282	355	95	16	196	1,159.7
	Ratio of imports to consumption (percent)	11.0	12.4	11.8	12.7	13.5	6.3
	Ratio of exports to shipments (percent)	12.0	13.8	12.2	12.8	14.4	12.5
CH046	Fabrics:						
	Number of establishments	3,716	3,589	3,595	3,128	2,799	-10.5
	Employees (thousands)	314.0	297.0	262.0	228.0	204.0	-10.5
	Capacity utilization (percent)	79	76	71	67	(¹)	(¹)
	U.S. shipments (million dollars)	38,894	37,478	32,385	30,600	28,050	-8.3
	U.S. exports (million dollars)	5,170	6,067	6,162	6,485	6,641	2.4
	U.S. imports (million dollars)	5,563	6,052	5,466	5,922	5,854	-1.1
	Apparent U.S. consumption (million dollars)	39,287	37,463	31,689	30,037	27,264	-9.2
	Trade balance (million dollars)	-393	15	696	563	786	39.7
	Ratio of imports to consumption (percent)	14.2	16.2	17.2	19.7	21.5	9.1
	Ratio of exports to shipments (percent)	13.3	16.2	19.0	21.2	23.7	11.8
CH047	Carpets and rugs:						
	Number of establishments	478	441	437	437	397	-9.2
	Employees (thousands)	56.0	57.0	55.0	55.0	50.0	-9.1
	Capacity utilization (percent)	83	79	77	75	(¹)	(¹)
	U.S. shipments (million dollars)	11,690	11,983	12,176	12,176	12,480	2.5
	U.S. exports (million dollars)	772	791	711	684	681	-0.5
	U.S. imports (million dollars)	1,248	1,464	1,410	1,531	1,662	8.6
	Apparent U.S. consumption (million dollars)	12,165	12,657	12,875	13,022	13,461	3.4
	Trade balance (million dollars)	-475	-674	-699	-846	-981	-15.9
	Ratio of imports to consumption (percent)	10.3	11.6	11.0	11.8	12.3	4.2
	Ratio of exports to shipments (percent)	6.6	6.6	5.8	5.6	5.5	-1.8
	rate of experts to shipments (percently	3.0	0.0	0.0	0.0	Ţ. Ū	

Table TX-5—Continued
Textiles, apparel, and footwear sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
CH048	Home furnishings:						
	Number of establishments	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	Employees (thousands)	75 <u>.</u> 0	73.Ó	66.Ó	60.Ó	57.Ó	-5.Ó
	Capacity utilization (percent)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	U.S. shipments (million dollars)	9,433	9,688	9,134	9,800	10,0ÒÓ	2.0
	U.S. exports (million dollars)	398	418	403	363	339	-6.6
	U.S. imports (million dollars)	2,652	3,215	3,332	4,226	5,021	18.8
	Apparent U.S. consumption (million dollars)	11,687	12,485	12,063	13,663	14,682	7.5
	Trade balance (million dollars)	-2,254	-2,797	-2,929	-3,863	-4,682	-21.2
	Ratio of imports to consumption (percent)	22.7	25.7	27.6	30.9	34.2	10.7
	Ratio of exports to shipments (percent)	4.2	4.3	4.4	3.7	3.4	-8.1
CH049	Apparel:						
	Number of establishments	16,721	16,505	15,478	14,182	13,736	-3.1
	Employees (thousands)	578.0	520.0	426.0	354.0	321.0	- 9.3
	Capacity utilization (percent)	77	75	(¹)	(¹)	(¹)	(¹)
	U.S. shipments (million dollars)	62,305	60,339	54,598	46,954	41,789	-11.0
	U.S. exports (million dollars)	7,964	8,177	6,537	5,491	4,965	-9.6
	U.S. imports (million dollars)	56,565	64,402	63,995	63,927	68,274	6.8
	Apparent U.S. consumption (million dollars)	110,906	116,564	112,056	105,390	105,097	-0.3
	Trade balance (million dollars)	-48,601	-56,225	-57,458	-58,436	-63,308	-8.3
	Ratio of imports to consumption (percent)	51.0	55.3	57.1	60.7	65.0	7.1
	Ratio of exports to shipments (percent)	12.8	13.6	12.0	11.7	11.9	1.7
CH051	Footwear:						
	Number of establishments	400	389	381	364	339	-6.9
	Employees (thousands)	35.0	31.0	26.0	21.0	20.0	-4.8
	Capacity utilization (percent)	67	64	(¹)	(¹)	(¹)	(¹)
	U.S. shipments (million dollars)	3,797	3,760	3,511	3,498	2,718	-22.3
	U.S. exports (million dollars)	693	664	638	520	495	-4.8
	U.S. imports (million dollars)	14,074	14,856	15,249	15,379	15,560	1.2
	Apparent U.S. consumption (million dollars)	17,177	17,952	18,122	18,358	17,783	-3.1
	Trade balance (million dollars)	-13,380	-14,192	-14,611	-14,860	-15,065	-1.4
	Ratio of imports to consumption (percent)	81.9	82.8	84.1	83.8	87.5	4.4
	Ratio of exports to shipments (percent)	18.3	17.6	18.2	14.9	18.2	22.1

¹Not available.

Note.-Calculations based on unrounded data.

Source: These data have been estimated by the Commission's international trade analysts on the basis of primary and secondary data sources including discussions with various Government and industry contacts. These estimated data are subject to change either from secondary sources or from detailed surveys the Commission often conducts in the course of statutory investigations or other work. Further, these data may undergo adjustments based on revisions in tariff nomenclature, classification practices, or redefinitions of industry classes.

Minerals and Metals

Christopher B. Mapes, Coordinator (202) 205-3034 christopher.mapes@usitc.gov

Change in 2003 from 2002:

U.S. trade deficit: Increased by \$532 million (1 percent) to \$46.2 billion U.S. exports: Increased by \$3.1 billion (8 percent) to \$43.0 billion U.S. imports: Increased by \$3.6 billion (4 percent) to \$89.2 billion

There was a relatively small change in the U.S. trade deficit for the minerals and metals sector, although both imports and exports increased substantially in 2003 (see table MM-1). The increase in trade values was largely owing to the rebound of world prices for metals and semifabricated metal products; accelerating materials consumption in China was a significant factor in rising prices. The largest contribution to the sector deficit was trade in natural and synthetic gemstones, with exports declining and imports increasing for a net \$1.7 billion trade deficit increase. However, the sector deficit was largely moderated by a 7-percent trade deficit reduction (\$945 million) in unrefined and refined gold and a 35-percent (\$712 million) trade deficit reduction in steel mill products (see table MM-2).

Overall, most metal commodities experienced significant price increases in 2003, primarily in the latter half of the year, largely owing to increased consumption following the production declines of the past few years. These price increases were major contributors to the 5.3-percent (\$6.6 billion) increase in the total value of minerals and metals trade, reversing the trend of the past 2 years when metal prices were at cyclical lows. Both import and export values increased for refined and unrefined copper forms and related articles, as the spot price of refined copper rose 50 percent during the year. Worldwide inventory stocks of refined copper fell to their lowest levels since the late 1980s as the result of increased consumption, primarily in China, coupled with the cumulative effects of worldwide production rationalization during the past seven years and production interruptions in Indonesia (mine forced to shut down) and Chile (owing to labor issues) in 2003. Several other nonferrous metals experienced similar average annual price increases. These products included nickel (up 39 percent, to \$4.29 per pound) and molybdenum (up 40 percent, to \$11.57 per pound), which both feed the increasing steel demands of China and the United States. Gold continued its recent price rise (up 13 percent, to \$350 per ounce), as the weakening dollar sustained a gold demand surge.

The turnaround in metal prices caused many miners, refiners, and manufacturers to begin to increase production at facilities that had been idled during the price lows of the past several years. Exports of many mine products, such as ores and concentrates (notably copper, iron, silver, and preciousmetals), and semirefined products, such as unrefined copper anodes, declined as domestic refining capacity was redeployed in response to rising metal prices. Thus, refined product exports increased for

¹ For additional information, see Natural and Synthetic Gemstones and Steel Mill Products.

² The London Metal Exchange (LME) Grade A Cash price, available at historical.asp, rose from a low of \$0.70 per pound on Jan. 2, 2003, to a high of \$1.05 per pound on Dec. 31, 2003.

³ Varied *Mineral Commodity Summaries*, U.S. Geological Survey (USGS), available at http://minerals.usgs.gov/minerals/pubs/commodity.

Table MM-1
Minerals and metals: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1999-2003¹

Item						Change, 2003 from 2002	
	1999	2000	2001	2002	2003	Absolute	Percent
-			— Million dolla	ars ———			
U.S. exports of domestic merchandise: Canada Mexico China Israel Japan United Kingdom Germany India Taiwan Switzerland	13,578 6,528 7133 225 1,890 3,079 1,194 195 590 2,787	15, 421 8, 210 1, 5373 2,3374 3,380 1,3823 7,53 3,753	13,262 6,956 1,492 1,919 3,030 1,442 5949	13,447 6,671 1,539 1,590 2,690 2,196 1,196 647 2,179	13,820 6,454 2,6331 1,654 3,1338 1,3338 7,507	373 -217 1,097 -445 64 490 141 29 111 828	2.8 -3.3 71.3 -65.1 18.7 11.8 14.1 17.2 38.0
All other Total EU-15 OPEC Latin America CBERA Asia Sub-Saharan Africa Central and Eastern Europe	9,112 39,890 7,135 728 8,619 708 5,783 222 87	9,995 47,280 8,015 751 10,368 7,70 7,596 219 133	10,278 43,507 8,171 805 9,030 777 7,177 250 159	9,149 39,924 6,951 8,394 749 6,622 265 121	9,733 42,980 7,589 687 8,233 846 8,346 269 115	584 3,056 637 -67 -162 98 1,724 3 -6	6.4 7.7 9.2 -8.9 -1.9 13.0 26.0 1.3 -4.9
U.S. imports of merchandise for consumption: Canada Mexico China Israel Japan United Kingdom Germany India Taiwan Switzerland All other	17,285 5,997 5,520 4,588 5,159 2,584 3,444 3,103 3,264 992 29,780	19,215 6,767 6,947 5,693 5,339 3,086 3,998 3,644 3,629 1,013 35,684	16,916 6,528 7,250 5,412 4,634 2,946 3,724 2,770 2,950 937 29,781	17,797 7,013 8,656 6,073 4,123 2,174 3,438 3,799 3,003 564 28,977	18,003 7,116 10,054 6,365 4,036 2,190 3,654 3,730 3,058 670 30,329	206 103 1,398 293 -87 16 216 -69 55 106 1,351	1.2 1.5 16.2 4.8 -2.1 0.7 6.3 -1.8 18.8 4.7
Total EU-15 OPEC Latin America CBERA Asia Sub-Saharan Africa Central and Eastern Europe	81,717 16,248 1,306 11,629 536 21,447 2,637 693	95,015 18,827 1,422 13,361 628 24,558 3,201 878	83,847 17,101 1,259 12,111 552 21,771 3,082 676	85,616 15,589 1,311 13,261 657 23,501 2,705 780	89,204 16,239 1,282 14,277 689 24,657 2,995 729	3,588 650 -29 1,016 33 1,156 290 -51	4.2 4.2 -2.2 7.7 5.0 4.9 10.7 -6.6

Table MM-1--Continued

Minerals and metals: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1999-2003¹

					-	Change, 200	3 from 2002
Item	1999	2000	2001	2002	2003	Absolute	Percent
-			— Million dolla	ars ———			
U.S. merchandise trade balance: Canada Mexico China Israel Japan United Kingdom Germany India Taiwan Switzerland All other	-3,708 -531 -4,807 -4,363 -3,270 -2,250 -2,909 -2,675 1,795 -20,667	-3,795 1,443 -5,614 -5,121 -2,995 -2,618 -3,421 -2,927 2,740 -25,689	-3,654 -4,28 -5,754 -4,680 -2,716 -2,284 -2,284 -2,355 2,612 -19,503	-4,350 -342 -7,117 -5,396 -2,534 -448 -2,242 -3,592 -2,356 1,616 -19,828	-4,183 -661 -7,418 -6,134 -2,382 -2,317 -3,494 -2,300 2,338 -20,596	167 -320 -301 -738 152 474 -75 98 56 722 -767	3.8 -93.6 -4.2 -13.7 6.0 105.7 -3.3 2.7 2.4 44.7 -3.9
Total EU-15 OPEC Latin America CBERA Asia Sub-Saharan Africa Central and Eastern Europe	-41,827 -9,113 -578 -3,010 172 -15,663 -2,416 -606	-47,735 -10,812 -670 -2,993 142 -16,962 -2,982 -744	-40,341 -8,930 -453 -3,081 225 -14,594 -2,832 -517	-45,692 -8,637 -558 -4,866 92 -16,879 -2,440 -660	-46,224 -8,650 -596 -6,044 157 -16,311 -2,727 -614	-532 -12 -38 -1,178 65 568 -287 45	-1.2 -0.1 -6.9 -24.2 70.6 3.4 -11.8

¹Import values are based on customs value; export values are based on f.a.s. value, U.S. port of export.

Note.—Calculations based on unrounded data. The countries shown are those with the largest total U.S. trade (U.S. imports plus exports) in these products in 2003.

Table MM-2 Leading changes in U.S. exports and imports of minerals and metals, 1999-2003

						Change, 200	3 from 2002
Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent
			Million a	ollars			
U.S. EXPORTS:							
Increases:							
Unrefined and refined gold (MM020A)	4,795	5,099	4,186	2,639	4,130	1,491	56.5
Steel mill products (MM025)	4,291	4,911	4,756	4,533	5,525	992	21.9
Iron and steel waste and scrap (MM023)	750	1,030	1,151	1,307	1,960	653	49.9
Copper and related articles (MM036)	1,668	3,109	1,852	1,744	2,086	342	19.6
Molybdenum ores and concentrates (MM007A)	129	104	110	112	194	82	72.6
Lead ores and concentrates (MM005A)	41	54	106	117	144	27	23.0
Decreases:	4.47	4 400	4 0 40	4 004	400	000	04.0
Natural and synthetic gemstones (MM019)	447	1,466	1,840	1,331	469	-863	-64.8
Primary and secondary aluminum (MM037A)	613 40	636 34	466 85	431 68	376 32	-55 -36	-12.7 -53.3
Precious metal ores and concentrates (MM008)						-36 424	-53.3 1.5
All other	27,116	30,836	28,956	27,641	28,064	424	1.0
TOTAL	39,890	47,280	43,507	39,924	42,980	3,056	7.7
U.S. IMPORTS:							
Increases:							
Natural and synthetic gemstones (MM019)	11,021	13,234	11,577	13,063	13,854	792	6.1
Unrefined and refined gold (MM020A)	2,519	2,262	1,700	2,143	2,689	546	25.5
Cement, stone, and related products (MM009)	4,103	4,408	4,407	4,611	4,945	334	7.2
Decreases:							
Steel mill products (MM025)	12,749	15,026	11,630	12,203	10,499	-1,704	-14.0
All other	51,325	60,085	54,534	53,596	57,216	3,620	6.8
TOTAL	81,717	95,015	83,847	85,616	89,204	3,588	4.2

Note.-Calculations based on unrounded data.

some metals (e.g., refined copper product exports increased 20 percent) owing to increased refining production. Conversely, mine product exports increased in those industries for which the United States is the dominant producer (notably molybdenum and lead ores and concentrates; refined and unrefined gold; and multiple other minor metals), as mining and processing facilities increased production beyond domestic downstream capacities in response to the rising metal prices.⁴ In contrast, aluminum production declined largely because of high electricity costs and the resulting industry contraction;⁵ this led to a decline in aluminum exports, continuing a trend that began in 2000.

The generation of waste and scrap metal increased with the general improvement in the U.S. economy and the manufacturing sector. The domestic refining of secondary materials continued to decline. Secondary exports also increased (e.g., iron and steel waste and scrap, up 50 percent in value; and copper, up 31 percent in value, with a 35-percent increase in volume), largely to China and other Asian destinations as higher prices were offered by overseas secondary refiners.

Both exports to and imports from China recorded the largest bilateral increases, both in terms of absolute value and percentage gains (see table MM-1). A 71-percent increase (\$1.1 billion) in exports to China enabled it to become the fifth-largest importer of U.S. mineral and metal products, behind both NAFTA partners, the United Kingdom, and Switzerland. U.S. sector exports to China have risen almost threefold in the past 5 years. A large portion of U.S. exports to China is refined and unrefined metal and metal-bearing scrap, nonferrous and ferrous, which feeds China's double-digit metal-consumption growth rate and burgeoning manufacturing sector. U.S. sector imports from China have increased 82 percent since 1999, and increased 16 percent (\$1.4 billion) in 2003, solidifying China as the second-leading sectoral supplier to the U.S. market, only behind Canada. Imports were largely in the form of various value-added household products such as miscellaneous base metal products (largely for household

⁴ Varied *Mineral Commodity Summaries*, U.S. Geological Survey (USGS), available at http://minerals.usgs.gov/minerals/pubs/commodity.

⁵ For a discussion of the competitive challenges of the U.S. refined aluminum industry, see Judith-Anne Webster, "U.S. Primary Aluminum: Power Costs and Market Conditions Could Cause Long-term Restructuring," *Industry Trade and Technology Review*, Dec. 2001; and "Key Performance Indicators" for aluminum in subsequent publications.

⁶ The last domestic secondary smelter and refinery shut down in 2001. For a discussion of the competitive challenges of the U.S. refined copper industry, see Christopher B. Mapes, "Major Contraction of the Domestic Refined Copper Industry," *Industry Trade and Technology Review*, Dec. 2002.

⁷ China now consumes over 65 percent of U.S. copper scrap exports and purchases 10 times the copper and brass from the United States of all other nations combined. See Joseph McCann, "U.S. Copper Exports Rise in Tandem With Prices," AMM.com, found at http://www.amm.com/index2.htm, retrieved Apr. 20, 2004.

⁸ During 2002-03, U.S. exports of iron and steel waste and scrap have been largely to China (approximately 34 to 35 percent, by value) and Korea (approximately 18 percent, by value). During the same period, while exports increased, NAFTA partners received declining percentages of iron and steel waste and scrap: exports to Canada declined from 12 to 8 percent and exports to Mexico declined from 11 to 9 percent. Multiple countries received much of the increased scrap exports in 2003, to include (in order of decreasing value): Finland, Thailand, Malaysia, Turkey, and Spain.

⁹ In addition, the depreciating dollar made U.S. waste and scrap less expensive in foreign markets and the large manufacturing growth in China and other Asian countries, coupled with low production costs, enabled premium prices to be offered. In the case of many nonferrous secondary refiners, industry restructuring and closures as a consequence of regulations and high energy costs resulted in less domestic consumption (see Webster, "U.S. Primary Aluminum: Power Costs and Market Conditions Could Cause Long-term Restructuring" and Mapes, "Major Contraction of the Domestic Refined Copper Industry").

¹⁰ See, e.g., Tom Balcerek, New Math: Take Away '201' and What's Left is China, AMM.com, Dec. 12, 2003, retrieved at http://www.amm.com/index2.htm Mar. 23, 2004; Non-Ferr Metals/Mining: Global Metals and Mining Commodity Price Review - Global, Merrill Lynch Metals/Mining Group, subscriber email dated Mar. 28, 2004; and Art Miele, senior vice president-marketing, in Phelps Dodge Corp.'s Webcast of Its Management Presentations to Investment Community, Mar. 23, 2004, retrieved Mar. 23, 2004.

appliances, up 23 percent to \$2.3 billion), cooking and kitchenware (up 15 percent to \$1.1 billion), and ceramic household articles (up 6 percent to \$987 million).

Natural and synthetic gemstones recorded a 65-percent decline in export volume and value, largely in cut diamonds. The trade deficit increase continued the general trend of the recent past, where economic recovery in the U.S. market exceeded most other diamond-consuming countries, thus stifling diamond exports (see Natural and Synthetic Gemstones).

The steel mill products trade deficit declined owing to a decrease in imports and an increase in exports. Import volumes declined largely owing to U.S. import relief measures, and export volumes rose largely because of increased demand in China (up sevenfold in value) to supply the massive infrastructure projects in the fast-growing Chinese economy. The depreciating U.S. dollar relative to the euro also stifled imports from and accelerated exports to the EU, with Italy accounting for the largest (a fivefold) increase in U.S. exports to the EU (see Steel Mill Products).

The increased trade surplus in unrefined and refined gold¹¹ was owing to the increased quantities of exports (up 34 percent, to 358 metric tons) as compared with imports (up 14 percent, to 90 metric tons). The rising prices (up 17 percent)¹² sparked production and accentuated the surplus value. Exports were predominantly in the forms of bullion and doré, largely to Switzerland and the United Kingdom.¹³ Included among the 2003 U.S. exports of refined gold were an estimated 59.8 metric tons of earmarked bullion (held for confidential foreign private accounts) that were released by the U.S. Federal Reserve Bank of New York.¹⁴ Imports rose \$546 million (26 percent) to \$2.6 billion. The top U.S. import source for gold has been Canada during the past 5 years, although 2003 imports from Canada declined by \$74 million (5 percent) to account for \$1.4 billion (52 percent) of all gold imported by the United States from all sources. Imports (primarily of bullion and doré) from the top Latin American countries (Colombia, Peru, Brazil, Mexico, and Chile) are primarily attributed to significant U.S. foreign direct investment in the mining industries of these countries.¹⁵

¹¹ Unrefined and refined gold includes several unwrought forms: unrefined doré from the initial smelting of gold ores and concentrates; and refined cast bars of bullion, grains of various sizes, and other forms other than powder.

¹² The London final (p.m.) fix averaged \$363.51 per troy ounce in 2003, up from \$309.97 per troy ounce for the previous year. Earle B. Amey, "Gold in December 2003," *Mineral Industry Surveys*, U.S. Geological Survey (USGS), Mar. 2004, p. 4.

¹³ Both countries are, as is the United States, major refining, fabricating, trading, marketing, and banking centers for all precious metals.

¹⁴ In its custodial role, the U.S. Federal Reserve Bank stores private gold for foreign central banks that allow for private accounts. Amey, "Gold," *Mineral Commodity Summaries*, USGS, Jan. 2004, p. 73.

¹⁵ See e.g., Amey, "Gold in {various months} 2003," Mineral Industry Surveys, USGS, various months, 2003-04.

COMMODITY ANALYSIS

Natural and Synthetic Gemstones

Change in 2003 from 2002:

U.S. trade deficit: Increased by \$1.7 billion (14 percent) to \$13.4 billion U.S. exports: Decreased by \$863 million (65 percent) to \$469 million U.S. imports: Increased by \$792 million (6 percent) to \$13.9 billion

The expanded U.S. trade deficit for natural and synthetic gemstones during 2002-03 was principally the result of fewer and lower-valued diamond exports ¹⁶ in conjunction with higher-valued imported diamonds (see tables MM-3 and MM-4). ¹⁷ The 2003 downturn in U.S. diamond exports for the second consecutive year reflected relatively weaker global markets compared with that of the United States, ¹⁸ and strong domestic consumption of large, fine quality cut stones typically manufactured by U.S. cutters which are in high demand by U.S. consumers. Although the U.S. consumer confidence index was down by 17 points to 79.6, other economic indicators that usually correlate with a strong U.S. diamond market were favorable to increased diamond demand, including real GDP, up 3 percent to \$10.4 trillion; real disposable personal income, up 4 percent to \$8.2 trillion; and the average prime rate of interest, down a little more than half a percentage point to almost 4.1 percent.

During the past 5 years (1999-2003), the U.S. trade deficit for natural and synthetic gemstones has expanded by \$2.8 billion as a result of higher valued diamond imports.¹⁹ The exception occurred during 2000-2001 when diamond imports dropped for the first time in 10 years, causing the deficit to recede by \$2 billion to \$9.7 billion before resuming an expansionary trend.²⁰

Top U.S. diamond export markets have varied from year-to-year depending on global economic conditions, stone preferences, and product availability. In 2003, Hong Kong, Canada, and Israel were the top U.S. export markets, together accounting for \$144 million (43 percent), a decrease of \$470 million (77 percent) from 2002. In addition to trading diamonds, all three countries manufacture quality diamond jewelry. Switzerland, famous for high quality diamond-laced watches, and Belgium, also a manufacturer of quality diamond jewelry as well as a long-established diamond trading center, also have been among the top three U.S. diamond markets in previous years. Major U.S. export markets for other gemstone products included Hong Kong as the dominant market for natural colored gemstones,

¹⁶ Cut diamonds were the dominant export items, registering a decrease of \$828 million (71 percent) to almost \$335 million during 2002-03; the quantity decreased by 854,170 carats (55 percent) to 699,038 carats; and the trade weighted average unit export value decreased by \$270 (36 percent) to \$479 per carat.

¹⁷ The import value of cut diamonds (the dominant import items) increased by \$660 million (6 percent) to \$12.2 billion during 2002-03. At the same time, the quantity decreased by 829,874 carats (4 percent), thereby increasing the trade weighted average unit import value by almost \$60 (10 percent) to \$636 per carat.

¹⁸ "General Assessment of the Macroeconomic Situation, Overview: A Firming But Uneven Recovery," *OECD Economic Outlook*, No. 74, Preliminary Edition, (Nov. 2003), pp. 7-8.

¹⁹ From 1999 to 2003, cut diamonds accounted for 83 to 88 percent of total natural and synthetic gemstone imports by value. During the same period, the overall value of cut diamond imports increased by \$3 billion (33 percent), the overall quantity decreased by about 41,000 carats (less than 0.5 percent) and the trade weighted average unit import value of cut diamonds increased by \$158 (33 percent).

²⁰ The primary cause for decreased imports during 2000-2001 was uncertainty in the market following the September 11 terrorist acts on the United States. Although the value of imported cut diamonds dropped throughout 2001, the rate of decrease during September-December was greater—recording a decrease of \$598 million compared to a \$623-million decrease in the first 8 months of 2001.

²¹ More than half of the world's diamond supply is reportedly traded through Belgium. See Sayre Priddy, "A Tale of Two Cities: Antwerp and New York," *Rapaport News*, Dec. 9, 2003, found at http://www.diamonds.net/news/newsitem.asp?num=8929&type=all, retrieved Mar. 4, 2004.

accounting for \$15 million (20 percent) of exports in 2003, down by \$3 million (19 percent). Japan and Hong Kong together received \$8 million (67 percent) of pearl exports, up by \$3 million (56 percent);²² and Mexico, Japan, and Germany together received \$21 million (49 percent) of synthetic gemstones, up by \$4 million (21 percent).

Since the United States is the world's largest consumer market for diamonds but has little natural resources of its own, imports supply much of the demand.²³ In 2003, the relative strength of the U.S. economy, higher global diamond prices,²⁴ and the limited supply of larger, better quality diamonds²⁵ desired by U.S. consumers have caused upward price pressures with many in the industry reporting fewer sales transactions but higher value than in 2002.²⁶

As in previous years, Israel, Belgium, and India—the world's major diamond cutting and trading centers—continued to account for most U.S. diamond imports by value. These countries together represented \$11.3 billion (87 percent) of imported diamonds in 2003, an increase of \$581 million (5 percent) from 2002. Sources of other gemstone products included Thailand and India as the dominant suppliers of natural colored gemstones, together accounting for \$273 million (44 percent) of imports in 2003, up by nearly \$1 million (1 percent); Japan supplied \$85 million (33 percent) of pearl imports, down by \$18 million (18 percent); and Germany, China, and Switzerland together supplied \$31 million (68 percent) of synthetic products, up by \$3 million (11 percent).

Also in the past year, the United States implemented the Kimberley Process regulations effective July 30, 2003, ²⁷ to help block the trade of conflict diamonds by regulating the legitimate movement of natural rough diamonds through the international market. ²⁸ These regulations are not designed to impact the volume of trade, but rather to make the process more transparent. The U.S. regulations prohibit shipments of rough diamonds between the United States and countries that do not participate in the Kimberly Process Certification Scheme (KPCS), and permit shipments between the United States and KPCS-participating countries if they are controlled in accordance with the standards, practices, and procedures of the KPCS. ²⁹ These regulations are administered by the U.S. Department of Treasury's Office of Foreign Assets Control (OFAC) and enforced by the U.S. Customs Service. ³⁰ The U.S. Department of State maintains a website with a direct link to the Kimberley Process, an international

²² Although pearl exports to Japan (the global pearl trading center) and Hong Kong increased in 2003, overall pearl exports decreased (table MM-3).

²³ The United States reportedly accounts for half of the world's retail diamond jewelry sales. See Sayre Priddy, "A Tale of Two Cities: Antwerp and New York," *Rapaport News*, Dec. 9, 2003.

²⁴ Likely in anticipation of a strong market, De Beers raised rough diamond prices 10 percent on average in 2003 compared with 2002. See Saul Singer, "De Beers' 2003 Diamond Sales Up Seven Percent," *Rapaport News*, Feb. 5, 2004, found at http://www.diamonds.net/news/newsitem.asp?num=9167&type=all, retrieved Feb. 24, 2004.

²⁵ Large, better quality mined diamonds are more rare than are the smaller, lower quality stones. Also see "Holiday Sales: Party Like It's 1999," Section on Diamonds and Gemstones, *Jewelers' Circular Keystone (JCK)*, Feb. 2004, p. 26.

²⁶ Deborah Yonick, "Jewelers Optimistic for New Year," *Rapaport News*, Feb. 6, 2004, found at http://www.diamonds.net/news/newsitem.asp?num=9182&type=all, retrieved Feb. 24, 2004.

²⁷ U.S. Department of Treasury, Office of Foreign Assets Control, *Diamond Trading, What You Need to Know About U.S. Sanctions*, p. 1., found at http://www.treas.gov/offices/eotffc/ofac/sanctions/t11diam.pdf, retrieved Mar. 15, 2004.

²⁸ The term "conflict diamonds" refers to diamonds obtained for the purpose of financing armed conflict. See U.S. Congress, *Clean Diamond Trade Act*, 108th Cong., 1st sess., H.R. 1584, found at *http://www.state.gov/e/eb*, retrieved Mar. 15, 2004.

²⁹ U.S. Department of Treasury, Office of Foreign Assets Control, *Diamond Trading*, p. 1.

³⁰ In support of the Kimberley Process, effective Jan. 1, 2003, the World Trade Organization (WTO) granted a waiver to the WTO Agreement thereby approving of measures consistent with the KPCS to regulate the international trade of rough diamonds. See World Trade Organization, "Waiver Concerning Kimberley Process Certification Scheme For Rough Diamonds," *Rapaport News*, Mar. 27, 2003, found at http://www.diamonds.net/news/newsitem.asp?num=7902&type+all, retrieved Mar. 15, 2004.

diamond industry organization which provides a list of participating countries, and contact information for the U.S. Kimberley Process Authority, which is responsible for issuing rough diamond export certificates.

In addition to the U.S. KPCS regulations, the World Diamond Council industry organization announced the U.S. chapter's intentions to participate in a voluntary international self-regulation program, which uses warranties to state the legitimacy of the diamonds with respect to the KPCS. Warranties are to be issued by suppliers of rough, as well as polished diamonds, and diamond-containing jewelry.³¹ The World Diamond Council also provides a detailed explanation of the KPCS: *Essential Guide to Implementing the Kimberley Process.*³²

Linda White (202) 205-3427 linda.white@usitc.gov

Table MM-3 U.S. exports of natural and synthetic gemstones,1999-2003

						Change, 2003 from 2002		
Item	1999	2000	2001	2002	2003	Absolute	Percent	
			Mill	ion dollars -		_		
Diamonds	312	1,289	1,707	1,189	338	-851	-72	
Natural color gemstones	61	79	71	79	77	-2	-3	
Pearls	10	22	23	27	12	16	-59	
Synthetics and reconstructed	63	75	39	36	42	6	17	
Total	447	1,466	1,840	1,331	469	-863	-65	

Note.-Calculations based on unrounded data.

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table MM-4 U.S. imports of natural and synthetic gemstones,1999-2003

						Change, 2003	from 2002
Item	1999	2000	2001	2002	2003	Absolute	Percent
			Мі	llion dollars		_	
Diamonds	9,901	12,060	10,625	12,088	12,931	843	7
Natural color gemstones	667	711	572	629	617	-11	-2
Pearls	385	391	321	301	260	-40	-13
Synthetics and reconstructed	68	71	58	45	45	0	0
Total	11,021	13,234	11,577	13,063	13,854	792	6

Note.-Calculations based on unrounded data.

World Diamond Council, "U.S. to Complete KP Implementation by End of July," Rapaport News, July 29, 2003, found at http://www.diamonds.net/news/news/newsitem.asp?num=8306&type=all, retrieved Mar. 4, 2004.

³² World Diamond Council, Essential Guide to Implementing the Kimberley Process, found at http://www.worlddiamondcouncil.org, retrieved Mar. 4, 2004.

Steel Mill Products³³

Change in 2003 from 2002:

U.S. trade deficit: Decreased by \$2.7 billion (35 percent) to \$5.0 billion U.S. exports: Increased by \$992 million (22 percent) to \$5.5 billion U.S. imports: Decreased by \$1.7 billion (14 percent) to \$10.5 billion

The decline in the steel mill products trade deficit in 2003 was attributable to a large decrease in imports and a significant increase in exports, as U.S. import relief (safeguard) measures increased the price for certain imports from certain sources and an increase in the value of the euro resulted in certain EU steel products becoming more expensive in the U.S. market.³⁴ Rising exports reflected high demand in China and the decline in the value of the U.S. dollar relative to certain other currencies. Most of the decline in the steel mill products deficit in 2003 was attributable to shifts in trade with the EU, Canada, China, Brazil, Japan, and Korea. U.S. production returned to more historical levels in 2003 as formerly bankrupt steel firms resumed operations under new ownership during the third and fourth quarters of 2002, following lowered shipments owing to shut-downs in 2002.

U.S. exports

U.S. exports of steel mill products rose by \$992 million to over \$5.5 billion. Strong economic growth in China and its demand for steel resulted in a surge of exports from the United States to China, which rose by \$377 million, or by 727 percent over 2002. In late 2002 and through 2003, prices for steel mill products in China were higher than prices in most other countries, thus making the Chinese market attractive to global exporters. With the return to operation of idled U.S. steel production capacity, U.S. exports to Canada rose to more normal levels in 2003 as compared with weak exports to Canada in 2002. Further, the overall increase in U.S. production in 2003 along with other factors, such as rising demand in China and advantageous U.S. dollar exchange rates with other nations, allowed for increased U.S. exports. For example, U.S. exports to the EU benefitted from the lower value of the U.S. dollar relative to the euro. Much of the increase in exports to the EU were to Italy. Changes in U.S. exports of steel mill products during 2002-03 occurred principally in carbon and alloy steel flat products (see table MM-5).

U.S. imports

U.S. imports of steel mill products declined by \$1.7 billion, or by 14 percent between 2002 and 2003. This decline was owing to the declining value of the U.S. dollar resulting in foreign steel imports becoming more costly, import relief measures, and a restructuring of the U.S. steel industry that allowed the industry to become more price competitive with imports.³⁵ On March 5, 2002, pursuant to section 203 of the Trade Act of 1974 (19 U.S.C. 2253), the President imposed import relief (safeguard measures)³⁶ in

³³ This industry/commodity group includes steel products produced in steel mills and includes flat steel products, tubular steel products, bar, rod, and wire, as well as certain stainless steel products.

³⁴ American Iron and Steel Institute, "Steel Imports in 2003 Down; Higher Prices in Other Markets Cited," press release, Jan. 27, 2004, found at http://www.steel.org/news/pr/2004/pr040127_imp.htm, retrieved Mar. 31, 2004.

³⁵ Ibid.

³⁶ The Commission conducted a global safeguard action investigation on certain steel products during 2001 and sent its report to the President in December 2001 See USITC, Steel, Inv. No. TA-201-73, USITC publication 3479, Dec. 2001. The Commission made an affirmative determination with regard to certain carbon and alloy steel, including (1) slabs, (2) plate, (3) hot-rolled steel, (4) cold-rolled steel, (5) coated steel, (6) hot bar, (7) cold bar, (8) rebar, (9) welded tubular products other than oil-country tubular goods (OCTG), and (10) fittings; and stainless steel (11) bar and (12) rod. It was equally divided in its determination with regard to (1) carbon and alloy steel tin mill (continued...)

the form of tariffs and tariff-rate quotas on imports of certain steel products for a period of 3 years and 1 day, effective March 20, 2002.³⁷ Relief was imposed on imports from the EU, Japan, Korea, Brazil, China, Russia, and a number of other steel exporters. Imports from Canada, Mexico, and a large number of developing countries were excluded from these relief measures. Shortly after receiving a midcourse monitoring report, ³⁸ the President terminated the measures, effective December 5, 2003.³⁹ Approximately \$1.1 billion, or 65 percent, of the decline in imports was of steel mill products covered by the U.S. import relief measures. ⁴⁰ Imports from the EU of steel mill products covered by the relief measures declined by \$288.5 million; similar imports from Russia, Korea, Japan, and Taiwan fell by \$275.7 million, \$192.9 million, \$179.6 million, and \$66.1 million, respectively. From 2002 to 2003, the euro appreciated 28 percent, from \$0.88 per U.S. dollar in January 2002 to \$1.23 in December 2003, resulting in significantly more expensive steel imports from the EU and reducing demand for EU steel in the U.S. market. During 2002-2003, U.S. apparent consumption of finished steel mill products declined by 1 percent.⁴¹ Changes in U.S. imports of steel mill products during 2002-03 occurred principally in carbon and alloy steel flat products, semifinished steel (i.e., ingots, blooms, slabs, etc.), and bars, rods, and light shapes (see table MM-6).

Dennis Fravel (202) 205-3404 dennis.fravel@usitc.gov

³⁶ (...continued)

products, (2) tool steel, (3) stainless steel wire, and (4) stainless steel fitting. It made a negative determination with regard to certain carbon and alloy steel, including (1) grain-oriented electrical steel, (2) ingots, (3) rails, (4) wire, (5) rope, (6) nails, (7) shapes, (8) fabricated structural units, (9) seamless tubular products other than OCTG, (10) seamless OCTG, and (11) welded OCTG; and stainless steel (12) slabs/ingots, (13) plate, (14) cloth, (15) rope, (16) seamless tubular products, and (17) welded tubular products.

³⁷ Presidential Proclamation 7529, *To Facilitate Positive Adjustment to Competition From Imports of Certain Steel Products*, 67 FR 10553, Mar. 7, 2002, and Presidential Memorandum of March 5, 2002, *Action Under Section 203 of the Trade Act of 1974 Concerning Certain Steel Products*, 76 FR 10593, Mar. 7, 2002. Steel products covered by this relief were slabs, plate, hot-rolled steel, cold-rolled steel, corrosion-resistant and other coated steel, tin mill products, hot-rolled bar and light shapes, cold-finished bar, rebar, welded tubular products other than oil country tubular goods, fittings, stainless steel bar and light-shapes, stainless steel rod, and stainless steel wire

³⁸ USITC, Steel: Monitoring Developments in the Domestic Industry (Inv. No. TA-204-9) and Steel-Consuming Industries: Competitive Conditions With Respect to Steel Safeguard Measures (Inv. No. 332-452, USITC publication 3632, Sept. 2003.

³⁹ Presidential Proclamation 7741, To provide for the Termination of Action Taken With Regard to Imports of Certain Steel Products, 68 FR 68483-68484, Dec. 8, 2003.

⁴⁰ Fittings for tubular products that were covered by the import relief measures are excluded from the steel mill grouping.

⁴¹ American Iron and Steel Institute, statistical data, Apparent Supply of Steel Mill Products 2003, Dec. 2003.

Table MM-5 U.S. exports of steel mill products,1999-2003

						Change, 2003	from 2002
Item	1999	2000	2001	2002	2003	Absolute	Percent
			Mill	ion dollars -		-	
Ingots, blooms, billets, and slabs							
of carbon and alloy steels	70	82	70	56	121	66	121
Plates, sheets, and strips of							
carbon and alloy steels	1,647	2,087	1,926	1,799	2,476	677	38
Bars, rods, and light shapes of	,						
carbon and alloy steels	384	432	409	415	479	64	15
Angles, shapes, and sections of							
carbon and alloy steels	210	235	197	154	217	64	41
Wire of carbon and alloy steels	222	181	180	159	172	13	8
Ingots, blooms, billets, and slabs							
of stainless steel	33	38	37	59	27	-32	-54
Plates, sheets, and strips of							
stainless steels	357	441	403	410	575	165	40
Bars, rods, and light shapes of							
stainless steels	73	88	94	82	89	6	7
Angles, shapes, and sections of							
stainless steels	6	8	7	6	5	-1	-16
Wire of stainless steels	38	61	71	67	52	-15	-22
Rails and accessories of carbon							
and alloy steels	61	78	77	73	67	-6	-9
Pipes and tubs of carbon and	•	, •			•	•	
alloy steels	978	932	1,015	1,016	977	-39	-4
Pipes and tubes of stainless	0.0		.,	.,	· · ·		•
steels	123	148	141	118	148	30	25
Tools steels	89	100	128	118	119	0	(¹)
Total	4,291	4,911	4,756	4,533	5,525	992	22

¹ Less than 0.5 percent. Note.–Calculations based on unrounded data.

Table MM-6 U.S. imports of steel mill products,1999-2003

						Change, 2003	from 2002
Item	1999	2000	2001	2002	2003	Absolute	Percent
			Mil	llion dollars		_	
Ingots, blooms, billets, and slabs							
of carbon and alloy steels	1,402	1,705	1,056	1,601	1,078	-523	-33
Plates, sheets, and strips of							
carbon and alloy steels	4,814	5,150	3,422	3,860	3,028	-832	-22
Bars, rods, and light shapes of							
carbon and alloy steels	1,882	2,077	1,886	1,928	1,669	-259	-13
Angles, shapes, and sections of							
carbon and alloy steels	505	777	421	338	286	-52	-15
Wire of carbon and alloy steels	502	496	449	467	463	-5	-1
Ingots, blooms, billets, and slabs							
of stainless steel	315	428	299	306	242	-64	-21
Plates, sheets, and strips of							
stainless steels	700	868	512	553	624	72	13
Bars, rods, and light shapes of							
stainless steels	306	437	351	284	215	-70	-25
Angles, shapes, and sections of							
stainless steels	16	24	14	12	9	-3	-29
Wire of stainless steels	82	108	98	92	96	4	4
Rails and accessories of carbon							
and alloy steels	208	190	154	167	163	-3	-2
Pipes and tubs of carbon and							
alloy steels	1,540	2,221	2,434	2,136	2,098	-38	-2
Pipes and tubes of stainless	,	•	•	•	,		
steels	261	319	338	274	309	35	13
Tools steels	214	225	196	184	220	36	20
Total	12,749	15,026	11,630	12,203	10,499	-1,704	-14

Note.-Calculations based on unrounded data.

Table MM-7
Minerals and metals: U.S. trade for industry/commodity groups and subgroups, 1999-2003¹

USITC							Change, 200	3 from 2002
code ²	Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent
NANAOO4	Classe and related min and made store			Million a	lollars ———			
MM001	Clays and related mineral products: Exports	952	1,040	973	941	986	46	4.9
	Imports Trade balance	168 783	195 845	179 794	158 782	180 806	22 24	13.9 3.0
MM002	Fluorspar and miscellaneous mineral substances:							
	Exports	74 146	71 145	51 159	39 147	30 147	-8 (³) -8	-21.6 -0.2
MM003	Trade balance	-72	-74	-108	-109	-117	`-8	-7.4
MINIOUS	Exports	243	246	229	249	248	<u>-1</u>	-0.3
	Imports	399 -156	420 -174	293 -64	313 -64	328 -80	15 -16	4.9 -25.3
MM004	Copper ores and concentrates: Exports	81	173	84	79	73	-6	-7.5
	Imports	82	(3)	58	105	18	-87	-82.9
MM005	Trade balance	-2	173	26	-26	55	81	(')
	Exports	43 3	73 8	108	133	197 0	64	48.5 -100.0
	Imports	40	65	108	133	197	64	48.5
MM005	A Lead ores and concentrates: Exports	41	54	106	117	144	27	23.0
	Imports	3	8	(³) 105	117	0 144	(³) 27	-100.0 23.0
MM006	Trade balance	38	46					
	ExportsImports	352 53	317 38	299 38	339 53	349 68	10 15	2.9 28.0
	Trade balance	299	279	260	286	281	-5	-1.7
MM0067	A Zinc ores and concentrates: Exports	346	308	290	328	340	12	3.8
	Imports	40 306	27 281	32 259	45 283	· 60 280	15 -3	34.6 -1.1
MM007	Certain ores, concentrates, ash, and residues:						-	58.0
	Exports	237 732	232 790	248 797	183 728	289 685	106 -43	-5.9
NANAOO7/	Trade balance	-495	-558	-549	-545	-396	149	27.4
IVIIVIOO7F	Éxports	129	104	110	112	194	82	72.6
	Imports	35 94	35 68	33 77	37 76	51 143	15 67	39.6 88.7
800MM	Precious metal ores and concentrates:	40	34	85	68	32	-36	-53.3
	Exports Imports	4	10	14	43	23	-19	-45.2
NANAOORA	Trade balance	37	25	71	26	8	-17	-66.8
WIIWIOOF	Exports	2	10	7	10 28	13	3 -6	36.5 -20.8
	Imports	(³)	1 10	6	∠8 -18	22 -9	9	51.1
		` '						

Table MM-7--*Continued*Minerals and metals: U.S. trade for industry/commodity groups and subgroups, 1999-2003¹

Trade balance	ucts:	37 2 35	2000 21 (3) 21	2001 Million (2002 dollars ——— 57	2003	Absolute	Percent
Exports	ucts:	2 35	21 (³)					
Exports	ucts:	2 35	21 (³)	72	57			
Trade balance	ucts:	35	(°)			16	-41	-71.6
	ucts:			69	13 44	1 15	-12 -29	-89.6 -66.2
MM009 Cement, stone, and related prod		4 4 0 4	-		• •			
Imports		1,184 4,103	1,307 4,408	1,322 4,407	1,279 4,611	1,405 4,945	126 334	9.8 7.2
Tråde balance MM009A Cement:	• • • • • • • • • • • • • • • • • • • •	-2,919	-3,101	-3,085	-3,332	-3,540	-208	-6.2
Exports		55	64	56	58	62	4	6.7
Imports		1,145 -1,089	1,074 -1,010	987 -931	939 -881	940 -879	3	0.1 0.3
MM010 Industrial ceramics: Exports		663	748	711	645	600	-45	-7.0
<u>Imports</u>		648	827	640	497	551	54	10.9
Trade balance		14	-80	71	148	49	-99	-67.0
Exports		20 24	23 35	23 31	23 34	26 38	4 4	16.8 10.3
Trade balance		-5	-11	-8	-12	-12	$\binom{3}{1}$	2.0
MM012 Ceramic floor and wall tiles: Exports		24	26	27	28	27	(³)	-1.6
Imports Trade balance		1,019 -995	1,118 -1,092	1,112 -1.086	1,290 -1.262	1,430 -1,403	140 -140	10.8 -11.1
MM013 Ceramic household articles:			,	.,	.,	•		
Exports		109 1,671	115 1,797	96 1,635	83 1,691	88 1,757	5 66	6.1 3.9
Tråde balance		-1,563	-1,683	-1,539	-1,608	-1,669	-61	-3.8
Exports		1,506	1,807	1,791	1,694	1,747	54	3.2 9.4
Imports		1,268 238	1,473 334	1,500 291	1,553 140	1,699 4 9	145 -92	-65.3
MM015 Glass containers: Exports		173	174	211	165	161	-4	-2.7
Imports		526	585	538	608	607	-1 -3	-0.2 -0.7
Trade balance		-353	-411	-327	-443	-446	•	•
Exports		183 937	195 930	209 835	177 888	165 919	-11 30	-6.4 3.4
Trade balance		-754	-735	-625	-711	-753	-42	-5.9
MM017 Miscellaneous glass products: Exports		674	862	814	729	748	18	2.5
Imports		805 -131	856 6	769 46	653 76	701 46	48 -30	7.4 -39.1
MM018 Fiberglass insulation products:		,	<u>-</u>		. •			
Exports		71 139	59 137	74 124	75 131	88 155	13 24	17.7 18.3
Trade balance		-69	-78	-50	-56	-67	-11	-19.1

Table MM-7--*Continued*Minerals and metals: U.S. trade for industry/commodity groups and subgroups, 1999-2003¹

USITC							Change, 200	3 from 2002
code ²	Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent
MM019	Natural and synthetic gemetence:			Million	dollars			
MM020	Natural and synthetic gemstones: Exports Imports Trade balance Precious metals and non-numismatic coins:	11,021	1,466 13,234 -11,768	1,840 11,577 -9,737	1,331 13,063 -11,731	469 13,854 -13,386	-863 792 -1,655	-64.8 6.1 -14.1
	Exports	6,510 7,708 -1,198	7,685 10,082 -2,397	6,826 8,193 -1,366	5,070 6,263 -1,193	6,299 6,759 -460	1,228 496 733	24.2 7.9 61.4
MM021	Unrefined and refined gold: Exports Imports Trade balance	4,795 2,519 2,276	5,099 2,262 2,836	4,186 1,700 2,486	2,639 2,143 496	4,130 2,689 1,441	1,491 546 945	56.5 25.5 190.5
MM022	Primary iron products: Exports Imports Trade balance Ferroalloys:	14 643 -629	13 759 -746	7 632 -624	7 729 -722	11 815 -804	4 86 -82	51.2 11.8 -11.4
MM023	Exports Imports Trade balance Iron and steel waste and scrap;	80 960 -880	96 1,104 -1,008	74 660 -586	50 713 -663	51 899 -848	1 186 -185	1.7 26.0 -27.9
MM024	Exports	750 390 360	1,030 393 637	1,151 284 867	1,307 397 911	1,960 518 1,442	653 121 532	49.9 30.4 58.4
	Exports	518 765 -247	565 854 -289	476 718 -242	445 746 -301	466 769 -304	21 24 -3	4.7 3.2 -1.0
MM025	Exports	298 480 -182	315 552 -237	289 473 -184	284 505 -222	310 540 -230	27 35 -8	9.5 6.9 -3.5
	Steel mill products:	4,291 12,749 -8,458	4,911 15,026 -10,114	4,756 11,630 -6,874	4,533 12,203 -7,670	5,525 10,499 -4,974	992 -1,704 2,696	21.9 -14.0 35.2
	alloy steels: Exports Imports Trade balance Plates, sheets, and strips of carbon and alloy	70 1,402 -1,331	82 1,705 -1,623	70 1,056 -986	55 1,601 -1,546	121 1,078 -957	66 -523 590	121.1 -32.7 38.1
	steels: Exports Imports Trade balance	1,647 4,814 -3,167	2,087 5,150 -3,063	1,926 3,422 -1,495	1,799 3,860 -2,062	2,476 3,028 -552	677 -832 1,509	37.6 -21.6 73.2

Table MM-7--Continued
Minerals and metals: U.S. trade for industry/commodity groups and subgroups, 1999-2003¹

USITC							Change, 200	3 from 2002
code ²	Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent
MM025C	Bars, rods, and light shapes of carbon and alloy _ steels:	•		Million				
MM025D	Exports Imports Trade balance Angles, shapes, and sections of carbon and alloy steels:	384 1,882 -1,499	432 2,077 -1,644	409 1,886 -1,477	415 1,928 -1,513	479 1,669 -1,190	64 -259 323	15.4 -13.4 21.3
MM025E	Exports Imports Trade balance Wire of carbon and alloy steels:	210 505 -296	235 777 -543	197 421 -224	154 338 -184	217 286 -69	64 -52 115	41.4 -15.3 62.6
	Exports Imports Trade balance Ingots, blooms, billets, and slabs of stainless steels:	222 502 -280	181 496 -315	180 449 -269	159 467 -308	172 463 -291	13 -5 18	8.1 -1.0 5.7
MM025G	Exports	33 315 -282	38 428 -389	37 299 -262	59 306 -247	27 242 -214	-32 -64 32	-54.0 -21.0 13.1
	Exports Imports Trade balance Bar <u>s</u> , rods, and light shapes of stainless steels:	357 700 -343	441 868 -427	403 512 -108	410 553 -142	575 624 -49	165 72 93	40.2 13.0 65.5
MM025I	Exports Imports Trade balance Angles, shapes, and sections of stainless steels:	73 306 -233	88 437 -350	94 351 -257	82 284 -202	89 215 -126	6 -70 76	7.4 -24.5 37.5
	Exports Imports Trade balance Wire of stainless steels:	6 16 -11	8 24 -16	7 14 -7	6 12 -6	5 9 -3	-1 -3 2	-15.8 -28.9 43.7
	Exports	38 82 -44	61 108 -47	71 98 -27	67 92 -25	52 96 -44	-15 4 -19	-22.1 4.2 -75.4
	Exports Imports Trade balance Pipes and tubes of carbon and alloy steels:	61 208 -147	78 190 -112	77 154 -77	73 167 -93	67 163 -96	-6 -3 -3	-8.6 -2.1 -3.1
	Exports Imports Trade balance	978 1,540 -562	932 2,221 -1,289	1,015 2,434 -1,419	1,016 2,136 -1,120	977 2,098 -1,120	-39 -38 (³)	-3.8 -1.8 (⁵)
IVIIVIUZOIV	Pipes and tubes of stainless steels: Exports Imports Trade balance	123 261 -138	148 319 -171	141 338 -197	118 274 -156	148 309 -161	30 35 -5	25.4 12.6 -2.9

Table MM-7--*Continued*Minerals and metals: U.S. trade for industry/commodity groups and subgroups, 1999-2003¹

USITC							Change, 200	je, 2003 from 2002	
code ²	Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent	
NANAOGEN	I Taal ataala			Million	dollars ———				
MM026	I Tool steels: Exports Imports Trade balance Steel pipe and tube fittings and certain cast	89 214 -125	100 225 -125	128 196 -68	118 184 -65	119 220 -101	(³) 36 -36	0.3 19.7 -54.8	
MM027	products: Exports Imports Trade balance Fabricated structurals:	662 584 78	767 706 61	707 697 10	669 669 (³)	705 609 95	36 -60 96	5.4 -9.0 (⁴)	
MM028	Exports	186 432 -245	204 534 -329	184 638 -454	166 627 -460	160 501 -341	-7 -126 119	-3.9 -20.1 25.9	
MM029	Exports	579 693 -115	533 922 -388	505 990 -485	497 1,135 -638	561 1,212 -652	64 77 -13	12.9 6.8 -2.1	
MM030	Exports	690 527 162	697 549 148	666 570 96	661 645 16	616 660 -45	-46 16 -61	-6.9 2.4 (⁴)	
MM031	Exports	674 1,354 -681	826 1,419 -593	718 1,355 -637	732 1,416 -684	760 1,591 -831	28 175 -147	3.8 12.3 -21.5	
MM032	Exports	5,369 6,639 -1,270	5,814 7,324 -1,510	5,264 7,107 -1,843	5,283 7,773 -2,491	5,227 8,403 -3,176	-55 630 -685	-1.0 8.1 -27.5	
MM033	Exports Imports Trade balance	1,535 2,019 -484	1,663 2,325 -663	1,481 2,006 -525	1,496 2,085 -589	1,520 2,348 -828	24 263 -239	1.6 12.6 -40.5	
	Cooking and kitchen ware: Exports Imports Trade balance	214 1,585 -1,371	271 1,798 -1,527	260 1,743 -1,483	201 1,933 -1,732	199 2,070 -1,871	-2 137 -139	-1.0 7.1 -8.0	
MM034	Metal and ceramic sanitary ware: Exports Imports Trade balance	132 473 -341	141 533 -393	124 588 -464	134 742 -608	142 863 -721	9 121 -112	6.5 16.3 -18.5	
MM035	Construction castings and other cast-iron articles: Exports Imports Trade balance	27 120 -92	32 123 -91	24 110 -86	25 112 -87	23 124 -101	-2 12 -14	-8.3 10.8 -16.3	

Table MM-7--*Continued*Minerals and metals: U.S. trade for industry/commodity groups and subgroups, 1999-2003¹

USITC							Change, 2003 from 2002		
code ²	Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent	
MM036	Copper and related articles:			Million o	dollars				
	Exports	1,668 3,726 -2,058	3,109 4,881 -1,772	1,852 4,296 -2,444	1,744 3,715 -1,972	2,086 3,893 -1,807	342 178 164	19.6 4.8 8.3	
	Exports	89 1,667 -1,578	202 2,223 -2,021	69 2,140 -2,070	92 1,740 -1,648	214 1,854 -1,640	122 114 8	131.8 6.5 0.5	
MM037	Exports	156 116 40	208 182 26	155 145 9	117 118 -1	144 104 40	26 -15 41	22.5 -12.4 (⁴)	
	Exports	980 4,744 -3,764	1,130 5,085 -3,955	923 4,748 -3,825	950 4,774 -3,824	1,000 5,000 -3,999	50 225 -175	5.3 4.7 -4.6	
MM038	Exports	613 3,969 -3,356	636 4,297 -3,660	466 4,085 -3,619	431 4,188 -3,757	376 4,401 -4,025	-55 213 -267	-12.7 5.1 -7.1	
	Exports	2,943 2,283 660	3,130 2,674 456	2,784 2,305 479	2,519 2,516 3	2,564 2,768 -203	45 252 -207	1.8 10.0 (⁴)	
	Exports	226 349 -124	252 449 -197	245 352 -108	226 417 -191	243 435 -192	17 18 -1	7.4 4.4 -0.7	
	Exports	127 172 -44	122 231 -109	84 162 -78	77 190 -114	80 269 -189	3 79 -76	4.4 41.4 -66.4	
	Exports	2,059 1,255 804	2,129 1,425 703	1,872 1,242 629	1,652 1,331 321	1,655 1,411 244	4 80 -77	0.2 6.0 -23.9	
	Aluminum foil: Exports Imports Trade balance	325 400 -75	331 446 -114	328 441 -113	319 468 -150	338 500 -162	19 31 -12	5.9 6.7 -8.3	
	Aluminum tubes, pipes, and fittings: Exports Imports Trade balance	171 98 73	248 109 139	215 90 125	205 95 111	198 134 64	-7 39 -46	-3.6 40.9 -41.9	
MM039	Lead and related articles: Exports Imports Trade balance	154 201 -46	170 215 -45	78 167 -88	68 125 -57	117 113 5	50 -12 62	73.2 -9.7 (⁴)	

Table MM-7--Continued Minerals and metals: U.S. trade for industry/commodity groups and subgroups, 1999-2003¹

USITC							Change, 200	3 from 2002
code ²	Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent
				Million o	dollars ———			
MM039A	Refined lead:	4.4	4.0	•		40		000.0
	ExportsImports	11 113	16 117	8 90	14 82	48 65	34 -16	238.8 -20.1
	Trade balance	-102	-101	-83	-68	-18	-10 50	73.9
MM040	∠inc and related articles:				00		00	
	Exports	107	103	86	.84	.94	11	1 <u>2</u> .8
	Imports	1,252 -1,145	1,298 -1,195	968 -882	908 -825	845 -750	-64 74	-7.0 9.0
MM040A	Unwrought zinc:	-1,145	-1,195	-002	-020	-730	74	9.0
	Exports	2	3	1	1	2	1	45.3
	Imports	1,066	1,104	<u>786</u>	<u>731</u>	676	- <u>5</u> 5	- <u>7</u> .5
MM041	Trade balance	-1,063	-1,101	-785	-730	-674	56	7.6
MINIOTI	Exports	1.272	1.503	1.702	1,498	1,571	73	4.9
	Imports	2,226	2,873	2,467	1,952	2,248	296	15.1
N 4 N 4 O 4 4 A	Trade balance	-955	-1,371	-765	-454	-676	-222	- 48.9
WIWU41A	Titanium ingot: Exports	13	12	22	12	11	-2	-12.4
	Imports	14	17	27	13	۱۶	-2 -6	-49.0
	Trade balance	-2	-5	<u>-</u> 6	-1	4	5	(⁴)
MM042	Nonpowered handtools:	0.004	0.000	0.440	0.000	0.400	74	0.5
	ExportsImports	2,031 2.917	2,263 3,163	2,119 2,996	2,038 3,284	2,109 3.652	71 368	3.5 11.2
	Trade halance	-887	-901	-876	-1.246	-1,543	-297	-23.8
MM043	Certain cutlery, sewing implements, and related	00.	001	0.0	1,210	1,010	207	20.0
	products:	500	5.40	550	554	550		0.0
	ExportsImports	583 856	546 888	556 865	551 912	550 1.053	-1 141	-0.2 15.5
	Trade balance	-273	-342	-309	-361	-503	-142	-39.3
MM044	Table flatware and related products:		•					
	Exports	.26	_25	28	<u>,29</u>	.22	-7	-24.7
	Imports	425 -399	507 -481	463 -435	478 -450	484 -462	6 -13	1.2 -2.8
MM045	Certain builders' hardware:	-399	-4 01	-433	-430	-402	-13	-2.0
	Exports	823	1,084	961	907	911	3	0.4
	Imports	1,696	1,973	1, <u>948</u>	2,197	2,405	208	19.5
	Tràde balance	-873	-889	-987	-1,289	-1,494	-205	-15.9

Note.—Calculations based on unrounded data.

¹Import values are based on customs value; export values are based on f.a.s. value, U.S. port of export.

²This coding system is used by the U.S. International Trade Commission to identify major groupings and subgroupings of HTS import and export items for trade monitoring purposes

³Less than \$500,000.

⁴Not meaningful for purposes of comparison.

⁵Less than 0.05 percent.

Table MM-8
Minerals and metals sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
MM001	Clays and related mineral products:						
	Number of establishments	233	230	230	240	240	0.0
	Employees (thousands)	7.0	7.0	7.0	6.0	6.0	0.0
	Capacity utilization (percent)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	U.S. shipments (million dollars)	1,570́	1,5 2 0	1,5ÌÓ	1,5 è Ó	1,610	1.9
	U.S. exports (million dollars)	952	1,040	973	941	986	4.9
	U.S. imports (million dollars)	168	195	179	158	180	13.9
	Apparent U.S. consumption (million dollars)	787	675	716	798	804	0.8
	Trade balance (million dollars)	783	845	794	782	806	3.0
	Ratio of imports to consumption (percent)	21.4	28.9	25.0	19.9	22.4	12.6
	Ratio of exports to shipments (percent)	60.6	68.4	64.4	59.5	61.3	3.0
MM003	Iron ores and concentrates:						
	Number of establishments	13	13	13	12	11	-8.3
	Employees (thousands)	7.0	7.0	6.0	5.0	5.0	0.0
	Capacity utilization (percent)	89	97	83	93	95	2.2
	U.S. shipments (million dollars)	2,300	2,500	1,900	1,900	1,800	-5.3
	U.S. exports (million dollars)	243	246	229	249	248	-0.3
	U.S. imports (million dollars)	399	420	293	313	328	4.9
	Apparent U.S. consumption (million dollars)	2,456	2,674	1,964	1,964	1,880	-4.3
	Trade balance (million dollars)	-156	-174	-64	-64	-80	-25.3
	Ratio of imports to consumption (percent)	16.2	15.7	14.9	15.9	17.4	9.4
	Ratio of exports to shipments (percent)	10.6	9.8	12.1	13.1	13.8	5.3
MM004	Copper ores and concentrates:						
	Number of establishments	35	30	25	22	22	0.0
	Employees (thousands)	10.3	9.1	8.2	7.0	6.8	-2.9
	Capacity utilization (percent)	80	83	82	72	72	0.0
	U.S. shipments (million dollars)	2,143	2,251	1,816	1,512	1,618	7.0
	U.S. exports (million dollars)	81	173	84	79	73	-7.5
	U.S. imports (million dollars)	82	(²)	58	105	18	-82.9
	Apparent U.S. consumption (million dollars)	2,145	2,078	1,790	1,538	1,563	1.6
	Trade balance (million dollars)	-2	173	26	-26	55	(3)
	Ratio of imports to consumption (percent)	3.8	(⁴)	3.2	6.8	1.2	-82.4
	Ratio of exports to shipments (percent)	3.8	7.7	4.6	5.2	4.5	- 13.5

Table MM-8—Continued
Minerals and metals sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC							Percent change,
code	Industry/commodity group	1999	2000	2001	2002	2003	2003 from 2002
MM005A	A Lead ores and concentrates:						
	Number of establishments	19	19	12	11	11	0.0
	Employees (thousands)	1.0	1.0	1.0	1.0	1.0	0.0
	Capacity utilization (percent)	95	85	85	84	84	0.0
	U.S. shipments (million dollars)	160	148	143	139	140	0.7
	U.S. exports (million dollars)	41	54	106	117	144	23.0
	U.S. imports (million dollars)	3	8	(²)	(²)	(²)	0.0
	Apparent U.S. consumption (million dollars)	122	102	38	22	-4	-119.5
	Trade balance (million dollars)	38	46	105	117	144	23.0
	Ratio of imports to consumption (percent)	2.8	7.7	1.2	(⁴)	(⁴)	1,000.0
	Ratio of exports to shipments (percent)	25.8	36.6	74.0	84.4	⁵ 103.0	22.0
MM006A	A Zinc ores and concentrates:						
	Number of establishments	17	19	12	11	11	0.0
	Employees (thousands)	3.0	3.0	2.0	2.0	. 1.0	-50.0
	Capacity utilization (percent)	90	90	89	98	96	-2.0
	U.S. shipments (million dollars)	533	564	433	352	351	-0.3
	U.S. exports (million dollars)	346	308	290	328	340	3.8
	U.S. imports (million dollars)	40	27	32	45	60	34.6
	Apparent U.S. consumption (million dollars)	227	283	174	69	71	3.0
	Trade balance (million dollars)	306	281	259	283	280	-1.1
	Ratio of imports to consumption (percent)	17.8	9.5	18.1	64.6	84.4	30.7
	Ratio of exports to shipments (percent)	65.0	54.6	67.0	93.1	96.8	4.0
MM007/	A Molybdenum ores and concentrates:						
	Number of establishments	8	7	6	6	6	0.0
	Employees (thousands)	0.6	0.6	0.5	0.5	0.5	0.0
	Capacity utilization (percent)	47	45	42	43	45	4.7
	U.S. shipments (million dollars)	250	231	196	270	395	46.3
	U.S. exports (million dollars)	129	104	110	112	194	72.6
	U.S. imports (million dollars)	35	35	33	37	51	39.6
	Apparent U.S. consumption (million dollars)	156	163	119	194	252	29.8
	Trade balance (million dollars)	94	68	77	76	143	88.7
	Ratio of imports to consumption (percent)	22.7	21.7	27.6	18.9	20.3	7.4
	Ratio of exports to shipments (percent)	51.7	44.8	56.2	41.6	49.1	18.0

Table MM-8—Continued
Minerals and metals sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC							Percent change,
code	Industry/commodity group	1999	2000	2001	2002	2003	2003 from 2002
MM008A	A Gold ores and concentrates:						
	Number of establishments	296	289	283	279	277	-0.7
	Employees (thousands)	11.0	11.0	10.0	8.0	8.0	0.0
	Capacity utilization (percent)	86	90	89	84	85	1.2
	U.S. shipments (million dollars)	2,445	2,534	2,335	2,376	2,487	4.7
	U.S. exports (million dollars)	2	10	7	10	13	36.5
	U.S. imports (million dollars)	1	1	1	28	22	-20.8
	Apparent U.S. consumption (million dollars)	2,445	2,524	2,329	2,394	2,496	4.2
	Trade balance (million dollars)	(²)	10	6	-18	-9	51.1
	Ratio of imports to consumption (percent)	(4)	(⁴)	0.1	1.2	0.9	-25.0
	Ratio of exports to shipments (percent)	0.1	0.4	0.3	0.4	0.5	25.0
MM008E	Silver ores and concentrates:						
	Number of establishments	16	15	14	14	14	0.0
	Employees (thousands)	·1.0	1.0	1.0	1.0	0.5	-50.0
	Capacity utilization (percent)	86	90	89	84	85	1.2
	U.S. shipments (million dollars)	229	207	171	147	143	-2.7
	U.S. exports (million dollars)	37	21	72	57	16	-71.6
	U.S. imports (million dollars)	2	(²)	3	13	1	-89.6
	Apparent U.S. consumption (million dollars)	194	186	102	103	128	24.7
	Trade balance (million dollars)	35	21	69	44	15	-66.2
	Ratio of imports to consumption (percent)	1.1	0.1	2.7	12.8	1.1	-91.4
	Ratio of exports to shipments (percent)	16.1	10.2	42.2	39.1	11.4	-70.8
MM009A	A Cement:						
	Number of establishments	116	116	116	116	116	0.0
	Employees (thousands)	18.0	18.0	18.0	18.0	18.0	0.0
	Capacity utilization (percent)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	U.S. production (million dollars)	7,400	7,200	7,100	7,000	7,000	0.0
	U.S. exports (million dollars)	55	64	56	58	62	6.7
	U.S. imports (million dollars)	1,145	1,074	987	939	940	(4)
	Apparent U.S. consumption (million dollars)	8,489	8,210	8,031	7,881	7,879	0.0
	Trade balance (million dollars)	-1,089	-1,010	-931	-881	-879	(4)
	Ratio of imports to consumption (percent)	13.5	13.1	12.3	11.9	11.9	0.0
	Ratio of exports to production (percent)	0.7	0.9	0.8	0.8	0.9	12.5

Table MM-8—Continued

Minerals and metals sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
MM010	Industrial ceramics:						
	Number of establishments	200	200	200	190	190	0.0
	Employees (thousands)	12.0	12.0	12.0	11.0	10.0	-9.1
	Capacity utilization (percent)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	U.S. shipments (million dollars)	3,040	3,0ÒÓ	2,9ŠÓ	2,8ÒÓ	2,900	3.6
	U.S. exports (million dollars)	663	748	711	645	600	-7.0
	U.S. imports (million dollars)	648	827	640	497	551	10.9
	Apparent U.S. consumption (million dollars)	3,026	3,080	2,879	2,652	2,851	7.5
	Trade balance (million dollars)	14	-80	71	148	49	-67.0
	Ratio of imports to consumption (percent)	21.4	26.9	22.2	18.7	19.3	3.2
	Ratio of exports to shipments (percent)	21.8	24.9	24.1	23.0	20.7	-10.0
MM011	Ceramic bricks and similar articles:						
	Number of establishments	225	225	225	225	225	0.0
	Employees (thousands)	14.0	14.0	14.0	14.0	14.0	0.0
	Capacity utilization (percent)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	U.S. shipments (million dollars)	1,700	1,775	1,765	1,785	1,900	6.4
	U.S. exports (million dollars)	20	23	23	23	26	16.8
	U.S. imports (million dollars)	24	35	31	34	38	10.3
	Apparent U.S. consumption (million dollars)	1,705	1,786	1,773	1,797	1,912	6.4
	Trade balance (million dollars)	-5	-11	-8	-12	-12	2.0
	Ratio of imports to consumption (percent)	1.4	1.9	1.7	1.9	2.0	5.3
	Ratio of exports to shipments (percent)	1.2	1.3	1.3	1.3	1.4	7.7
MM012	Ceramic floor and wall tiles:						
	Number of establishments	169	169	169	169	169	0.0
	Employees (thousands)	9.0	9.0	9.0	9.0	9.0	0.0
	Capacity utilization (percent)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	U.S. shipments (million dollars)	843	867	776	825	812	-1.6
	U.S. exports (million dollars)	24	26	27	28	27	-1.6
	U.S. imports (million dollars)	1,019	1,118	1,112	1,290	1,430	10.8
	Apparent U.S. consumption (million dollars)	1,838	1,959	1,862	2,087	2,215	6.1
	Trade balance (million dollars)	-995	-1,092	-1,086	-1,262	-1,403	-11.1
	Ratio of imports to consumption (percent)	55.4	57.1	59.7	61.8	64.6	4.5
	Ratio of exports to shipments (percent)	2.8	3.0	3.4	3.4	3.4	0.0

Table MM-8—Continued
Minerals and metals sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC		uudu y/ddiiiiidu		,			Percent change,
code	Industry/commodity group	1999	2000	2001	2002	2003	2003 from 2002
MM013	Ceramic household articles:						
	Number of establishments	63	63	60	60	60	0.0
	Employees (thousands)	6.0	6.0	6.0	6.0	6.0	0.0
	Capacity utilization (percent)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	U.S. shipments (million dollars)	396	344	3 3 0	3 2 0	315	-1.6
	U.S. exports (million dollars)	109	115	96	83	88	6.1
	U.S. imports (million dollars)	1,671	1,797	1,635	1,691	1,757	3.9
	Apparent U.S. consumption (million dollars)	1,959	2,027	1,869	1,928	1,984	2.9
	Trade balance (million dollars)	-1,563	-1,683	-1,539	-1,608	-1,669	-3.8
	Ratio of imports to consumption (percent)	85.3	88.7	87.5	87.7	88.6	1.0
	Ratio of exports to shipments (percent)	27.5	33.3	29.1	25.9	28.0	8.1
MM014	Flat glass:						
	Number of establishments	900	900	900	900 .	900	0.0
	Employees (thousands)	45.0	46.0	44.0	46.0	46.0	0.0
	Capacity utilization (percent)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	U.S. shipments (million dollars)	8,400	7,920	7,647	8,030	8,430	5.0
	U.S. exports (million dollars)	1,506	1,807	1,791	1,694	1,747	3.2
	U.S. imports (million dollars)	1,268	1,473	1,500	1,553	1,699	9.4
	Apparent U.S. consumption (million dollars)	8,162	7,586	7,356	7,890	8,381	6.2
	Trade balance (million dollars)	238	334	291	140	49	-65.3
	Ratio of imports to consumption (percent)	15.5	19.4	20.4	19.7	20.3	3.0
	Ratio of exports to shipments (percent)	17.9	22.8	23.4	21.1	20.7	-1.9
MM015	Glass containers:						
	Number of establishments	61	61	61	61	61	0.0
	Employees (thousands)	19.0	17.0	16.0	16.0	16.0	0.0
	Capacity utilization (percent)	91	92	94	(¹)	(¹)	(1)
	U.S. shipments (million dollars)	4,190	4,106	4,209	4,200	4,190	-0.2
	U.S. exports (million dollars)	173	174	211	165	161	-2.7
	U.S. imports (million dollars)	526	585	538	608	607	-0.2
	Apparent U.S. consumption (million dollars)	4,543	4,517	4,536	4,643	4,636	-0.1
	Trade balance (million dollars)	-353	-411	-327	-443	-446	-0.7
	Ratio of imports to consumption (percent)	11.6	13.0	11.9	13.1	13.1	0.0
	Ratio of exports to shipments (percent)	4.1	4.2	5.0	3.9	3.8	-2.6

Table MM-8—Continued
Minerals and metals sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
MM016	Household glassware:						
	Number of establishments	240	240	240	240	240	0.0
	Employees (thousands)	13.0	14.0	13.0	13.0	13.0	0.0
	Capacity utilization (percent)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	U.S. shipments (million dollars)	1,9ÒÓ	2,0ÒÓ	1,8ÒÓ	1,9ÒÓ	1,9ŠÓ	2.6
	U.S. exports (million dollars)	183	195	209	177	165	-6.4
	U.S. imports (million dollars)	937	930	835	888	919	3.4
	Apparent U.S. consumption (million dollars)	2,654	2,735	2,425	2,611	2,703	3.5
	Trade balance (million dollars)	-754	-735	-625	-711	-753	-5.9
	Ratio of imports to consumption (percent)	35.3	34.0	34.4	34.0	34.0	0.0
	Ratio of exports to shipments (percent)	9.6	9.7	11.6	9.3	8.5	-8.6
MM018	Fiberglass insulation products:						
	Number of establishments	298	298	298	298	298	0.0
	Employees (thousands)	18.0	17.0	17.0	18.0	18.0	0.0
	Capacity utilization (percent)	88	83	86	(¹)	(¹)	(1)
	U.S. shipments (million dollars)	3,800	3,700	3,700	3,900	4,000	2.6
	U.S. exports (million dollars)	71	59	74	75	88	17.7
	U.S. imports (million dollars)	139	137	124	131	155	18.3
	Apparent U.S. consumption (million dollars)	3,869	3,778	3,750	3,956	4,067	2.8
	Trade balance (million dollars)	-69	-78	-50	-56	-67	<i>-</i> 19.1
	Ratio of imports to consumption (percent)	3.6	3.6	3.3	3.3	3.8	15.2
	Ratio of exports to shipments (percent)	1.9	1.6	2.0	1.9	2.2	15.8
MM019	Natural and synthetic gemstones:						
	Number of establishments	235	235	235	235	235	0.0
	Employees (thousands)	2.0	2.0	2.0	2.0	2.0	0.0
	Capacity utilization (percent)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	U.S. production (million dollars)	620	540	340	430	680	58.1
	U.S. exports (million dollars)	447	1,466	1,840	1,331	469	-64.8
	U.S. imports (million dollars)	11,021	13,234	11,577	13,063	13,854	6.1
	Apparent U.S. consumption (million dollars)	11,195	12,308	10,077	12,161	14,066	15.7
	Trade balance (million dollars)	-10,575	-11,768	-9,737	-11,731	-13,386	-14.1
	Ratio of imports to consumption (percent)	98.5	⁵107.5	⁵114.9	⁵107.4	98.5	-8.3
	Ratio of exports to production (percent)	72.0	⁵271.5	⁵541.0	⁵309.6	68.9	-77.7

Table MM-8—Continued
Minerals and metals sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
		1000	2000	2001	2002	2000	2000 110111 2002
MMU20	A Unrefined and refined gold:	0.4	0.4	0.4	0.4	0.4	0.0
	Number of establishments	24	24	24	24	24	0.0
	Employees (thousands)	2.0	2.0	2.0	2.0	2.0	0.0
	Capacity utilization (percent)	73	77	69	67	66	-1.5
	U.S. shipments (million dollars)	7,051	7,095	5,903	4,251	4,918	15.7
	U.S. exports (million dollars)	4,795	5,099	4,186	2,639	4,130	56.5
	U.S. imports (million dollars)	2,519	2,262	1,700	2,143	2,689	25.5
	Apparent U.S. consumption (million dollars)	4,775	4,259	3,417	3,755	3,477	-7.4
	Trade balance (million dollars)	2,276	2,836	2,486	496	1,441	190.5
	Ratio of imports to consumption (percent)	52.8	53.1	49.7	57.1	77.3	35.4
	Ratio of exports to shipments (percent)	68.0	71.9	70.9	62.1	84.0	35.3
MM021	Primary iron products:						
	Number of establishments	23	23	21	16	16	0.0
	Employees (thousands)	22.0	22.0	20.0	15.0	15.0	0.0
	Capacity utilization (percent)	85	88	79	84	81	-3.6
	U.S. shipments (million dollars)	7,300	7,300	6,300	5,000	6,400	28.0
	U.S. exports (million dollars)	14	13	7	7	11	51.2
	U.S. imports (million dollars)	643	759	632	729	815	11.8
	Apparent U.S. consumption (million dollars)	7,929	8,046	6,924	5,722	7,204	25.9
	Trade balance (million dollars)	-629	-746	-624	-722	-804	-11.4
	Ratio of imports to consumption (percent)	8.1	9.4	9.1	12.7	11.3	-11.0
	Ratio of exports to shipments (percent)	0.2	0.2	0.1	0.1	0.2	100.0
MM022							
	Number of establishments	23	23	23	20	20	0.0
	Employees (thousands)	3.0	3.0	3.0	3.0	3.0	0.0
	Capacity utilization (percent)	(⁶)	(⁶)	(¹)	(¹)	(¹)	(¹)
	U.S. shipments (million dollars)	941	968	8 <u>2</u> 0	689	6 7 0	-2.8
	U.S. exports (million dollars)	80	96	74	50	51	1.7
	U.S. imports (million dollars)	960	1.104	660	713	899	26.0
	Apparent U.S. consumption (million dollars)	1,821	1,976	1,406	1,352	1,518	12.3
	Trade balance (million dollars)	-880	-1,008	-586	-663	-848	-27.9
	Ratio of imports to consumption (percent)	52.7	55.9	46.9	52.8	59.2	12.1
	Ratio of exports to shipments (percent)	8.5	9.9	9.0	7.3	7.6	4.1
	Maile of experts to shipments (percent)	0.0	0.0	5.0	7.0		,

Table MM-8—Continued
Minerals and metals sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC	sala metale sector. I folice of e.g. madea y and market by					2002	Percent change,
code	Industry/commodity group	1999	2000	2001	2002	2003	2003 from 2002
MM023	Iron and steel waste and scrap:						
	Number of establishments	5,000	5,000	5,000	5,000	5,000	0.0
	Employees (thousands)	28.0	28.0	28.0	28.0	28.0	0.0
	Capacity utilization (percent)	80	75	75	75	77	2.7
	U.S. shipments (million dollars)	4,800	5,200	4,100	4,900	6,200	26.5
	U.S. exports (million dollars)	750	1,030	1,151	1,307	1,960	49.9
	U.S. imports (million dollars)	390	393	284	397	518	30.4
	Apparent U.S. consumption (million dollars)	4,440	4,563	3,233	3,989	4,758	19.3
	Trade balance (million dollars)	360	637	867	911	1,442	58.4
	Ratio of imports to consumption (percent)	8.8	8.6	8.8	9.9	10.9	10.1
	Ratio of exports to shipments (percent)	15.6	19.8	28.1	26.7	31.6	18.4
MM024	A Abrasive products:						
	Number of establishments	50	50	50	50	50	0.0
	Employees (thousands)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	Capacity utilization (percent)	(¹)	(¹)	(1)	(¹)	(¹)	(1)
	U.S. shipments (million dollars)	3,835	3,781	3,202	3,000	3,100	3.3
	U.S. exports (million dollars)	298	315	289	284	310	9.5
	U.S. imports (million dollars)	480	552	473	505	540	6.9
	Apparent U.S. consumption (million dollars)	4,017	4,018	3,386	3,222	3,330	3.3
	Trade balance (million dollars)	-182	-237	-184	-222	-230	-3.5
	Ratio of imports to consumption (percent)	12.0	13.7	14.0	15.7	16.2	3.2
	Ratio of exports to shipments (percent)	7.8	8.3	9.0	9.5	10.0	5.3
MM025	Steel mill products:						
	Number of establishments	850	820	820	810	790	-2.5
	Employees (thousands)	195.0	195.0	185.0	170.0	160.0	-5.9
	Capacity utilization (percent)	84	86	79	89	82	-7.9
	U.S. shipments (million dollars)	59,200	60,300	51,100	54,600	52,200	-4.4
	U.S. exports (million dollars)	4,291	4,911	4,756	4,533	5,525	21.9
	U.S. imports (million dollars)	12,749	15,026	11,630	12,203	10,499	-14.0
	Apparent U.S. consumption (million dollars)	67,658	70,414	57,974	62,270	57,174	-8.2
	Trade balance (million dollars)	-8,458	-10,114	-6,874	-7,670	-4,974	35.2
	Ratio of imports to consumption (percent)	18.8	21.3	20.1	19.6	18.4	-6.1
	Ratio of exports to shipments (percent)	7.2	8.1	9.3	8.3	10.6	27.7

Table MM-8—Continued
Minerals and metals sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
MM026	Steel pipe and tube fittings and certain cast products:						
	Number of establishments	62	62	62	62	62	0.0
	Employees (thousands)	12.0	12.0	12.0	12.0	12.0	0.0
	Capacity utilization (percent)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	U.S. shipments (million dollars)	2,100´	2,100	2,100	2,100	2,100	0.0
	U.S. exports (million dollars)	662	767	707	669	705	5.4
	U.S. imports (million dollars)	584	706	697	669	609	-9.0
	Apparent U.S. consumption (million dollars)	2,022	2,039	2,090	2,100	2,005	-4.6
	Trade balance (million dollars)	78	61	10	(²)	95	(³)
	Ratio of imports to consumption (percent)	28.9	34.6	33.3	31.9	30.4	-4.7
	Ratio of exports to shipments (percent)	31.5	36.5	33.7	31.8	33.6	5.7
MM027	Fabricated structurals:						
	Number of establishments	2,953	2,931	2,888	2,844	2,801	-1.5
	Employees (thousands)	102.0	99.0	94.0	87.0	83.0	-4.6
	Capacity utilization (percent)	75	73	64	63	63	0.0
	U.S. shipments (million dollars)	15,596	16,450	16,105	16,023	15,577	-2.8
	U.S. exports (million dollars)	186	204	184	166	160	-3.9
	U.S. imports (million dollars)	432	534	638	627	501	-20.1
	Apparent U.S. consumption (million dollars)	15,841	16,779	16,559	16,483	15,918	-3.4
	Trade balance (million dollars)	-245	-329	-454	-460	-341	25.9
	Ratio of imports to consumption (percent)	2.7	3.2	3.9	3.8	3.1	-18.4
	Ratio of exports to shipments (percent)	1.2	1.2	1.1	1.0	1.0	0.0
MM028	Metal construction components:						
	Number of establishments	2,711	2,650	2,530	2,500	2,430	- 2.8
	Employees (thousands)	151.0	157.0	150.0	154.0	150.0	-2.6
	Capacity utilization (percent)	65	70	67	70	68	-2.9
	U.S. shipments (million dollars)	18,888	19,666	18,800	19,400	19,000	-2.1
	U.S. exports (million dollars)	. 579	533	505	497	561	12.9
	U.S. imports (million dollars)	693	922	990	1,135	1,212	6.8
	Apparent U.S. consumption (million dollars)	19,003	20,054	19,285	20,038	19,652	-1.9
	Trade balance (million dollars)	<i>-</i> 115	-388	-485	-638	-652	-2.1
	Ratio of imports to consumption (percent)	3.6	4.6	5.1	5.7	6.2	8.8
	Ratio of exports to shipments (percent)	3.1	2.7	2.7	2.6	3.0	15.4

Table MM-8—Continued
Minerals and metals sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
MM029	Metallic containers:						
	Number of establishments	520	520	520	520	510	-1.9
	Employees (thousands)	58.0	54.0	52.0	50.0	48.0	-4.0
	Capacity utilization (percent)	82	82	82	80	79	-1.3
	U.S. shipments (million dollars)	18,285	18,485	17,415	16,900	16,430	-2.8
	U.S. exports (million dollars)	690	697	666	661	616	-6.9
	U.S. imports (million dollars)	527	549	570	645	660	2.4
	Apparent U.S. consumption (million dollars)	18,123	18,337	17,319	16,884	16,475	-2.4
	Trade balance (million dollars)	162	148	96	16	-45	(³)
	Ratio of imports to consumption (percent)	2.9	3.0	3.3	3.8	4.0	5.3
	Ratio of exports to shipments (percent)	3.8	3.8	3.8	3.9	3.7	-5.1
MM030	Wire products of base metal:						
	Number of establishments	1,500	1,500	1,470	1,470	1,430	-2.7
	Employees (thousands)	96.0	96.0	92.0	94.0	91.0	-3.2
	Capacity utilization (percent)	(¹)	(¹)	(¹)	(¹)	(¹)	. (1)
	U.S. shipments (million dollars)	16,700	17,300	16,500	17,000	16,500	-2.9
	U.S. exports (million dollars)	674	826	718	732	760	3.8
	U.S. imports (million dollars)	1,354	1,419	1,355	1,416	1,591	12.3
	Apparent U.S. consumption (million dollars)	17,381	17,893	17,137	17,684	17,331	-2.0
	Trade balance (million dollars)	-681	-593	-637	-684	-831	-21.5
	Ratio of imports to consumption (percent)	7.8	7.9	7.9	8.0	9.2	15.0
	Ratio of exports to shipments (percent)	4.0	4.8	4.3	4.3	4.6	7.0
MM032	Industrial fasteners of base metal:						
	Number of establishments	925	920	880	860	840	-2.3
	Employees (thousands)	47.0	47.0	45.0	46.0	45.0	-2.2
	Capacity utilization (percent)	73	74	71	73	71	-2.7
	U.S. shipments (million dollars)	6,940	7,009	6,700	7,000	6,800	-2.9
	U.S. exports (million dollars)	1,535	1,663	1,481	1,496	1,520	1.6
	U.S. imports (million dollars)	2,019	2,325	2,006	2,085	2,348	12.6
	Apparent U.S. consumption (million dollars)	7,424	7,672	7,225	7,589	7,628	0.5
	Trade balance (million dollars)	-484	-663	-525	-589	-828	-40.5
	Ratio of imports to consumption (percent)	27.2	30.3	27.8	27.5	30.8	12.0
	Ratio of exports to shipments (percent)	22.1	23.7	22.1	21.4	22.4	4.7

Table MM-8—Continued
Minerals and metals sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
	Industry/commodity group	1333	2000	2001	2002	2003	2003 110111 2002
MM033	Cooking and kitchen ware:						
	Number of establishments	87	87	87	88	88	0.0
	Employees (thousands)	8.0	7.0	6.0	6.0	6.0	0.0
	Capacity utilization (percent)	(¹)	(¹)	(¹)	(¹)	(¹)	. (1)
	U.S. shipments (million dollars)	1,500	1,500	1,500	1,500	1,500	0.0
	U.S. exports (million dollars)	214	271	260	201	199	-1.0
	U.S. imports (million dollars)	1,585	1,798	1,743	1,933	2,070	7.1
	Apparent U.S. consumption (million dollars)	2,871	3,027	2,983	3,232	3,371	4.3
	Trade balance (million dollars)	-1,371	-1,527	-1,483	-1,732	<i>-</i> 1,871	-8.0
	Ratio of imports to consumption (percent)	55.2	59.4	58.4	59.8	61.4	2.7
	Ratio of exports to shipments (percent)	14.3	18.1	17.3	13.4	13.3	-0.7
MM034	Metal and ceramic sanitary ware:						
	Number of establishments	140	140	140	140	140	0.0
	Employees (thousands)	18.0	18.0	17.0	17.0	17.0	0.0
	Capacity utilization (percent)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	U.S. shipments (million dollars)	2,600	2,800	2,600	2,700	2,700	0.0
	U.S. exports (million dollars)	132	141	124	134	142	6.5
	U.S. imports (million dollars)	473	533	588	742	863	16.3
	Apparent U.S. consumption (million dollars)	2,941	3,193	3,064	3,308	3,421	3.4
	Trade balance (million dollars)	-341	-393	-464	-608	-721	-18.5
	Ratio of imports to consumption (percent)	16.1	16.7	19.2	22.4	25.2	12.5
	Ratio of exports to shipments (percent)	5.1	5.0	4.8	4.9	5.3	8.2
MM035	Construction castings and other cast-iron articles:						
	Number of establishments	50	50	50	50	50	0.0
	Employees (thousands)	7.0	5.0	6.0	5.0	5.0	0.0
	Capacity utilization (percent)	85	85	85	85	85	0.0
	U.S. shipments (million dollars)	1,000	800	900	800	800	0.0
	U.S. exports (million dollars)	27	32	24	25	23	-8.3
	U.S. imports (million dollars)	120	123	110	112	124	10.8
	Apparent U.S. consumption (million dollars)	1,092	891	986	887	901	1.6
	Trade balance (million dollars)	-92	-91	-86	-87	-101	-16.3
	Ratio of imports to consumption (percent)	11.0	13.8	11.1	12.6	13.8	9.5
	Ratio of exports to shipments (percent)	2.7	4.0	2.7	3.2	2.9	-9.4
	Mailo of exports to shipments (percently	2.1	7.0	۷.,	V. -		• • •

Table MM-8—Continued
Minerals and metals sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC		4000	2022	0004	0000	0000	Percent change,
code	Industry/commodity group	1999	2000	2001	2002	2003	2003 from 2002
MM036A	Unrefined and refined copper:						
	Number of establishments	32	28	26	22	22	0.0
	Employees (thousands)	5.3	4.4	4.5	3.9	3.4	-12.8
	Capacity utilization (percent)	81	68	69	62	55	-11.3
	U.S. shipments (million dollars)	3,728	3,886	3,178	2,620	2,506	-4.4
	U.S. exports (million dollars)	89	202	69	92	214	131.8
	U.S. imports (million dollars)	1,667	2,223	2,140	1,740	1,854	6.5
	Apparent U.S. consumption (million dollars)	5,306	5,907	5,248	4,268	4,146	-2.9
	Trade balance (million dollars)	-1,578	-2,021	-2,070	-1,648	-1,640	0.5
	Ratio of imports to consumption (percent)	31.4	37.6	40.8	40.8	44.7	9.6
	Ratio of exports to shipments (percent)	2.4	5.2	2.2	3.5	8.5	142.9
MM036E	Copper alloy plate, sheet, and strip:						
	Number of establishments	103	73	98	83	89	7.2
	Employees (thousands)	6.4	6.4	6.4	5.4	5.8	7.4
	Capacity utilization (percent)	90	86	61	63	68	7.9
	U.S. shipments (million dollars)	1,061	1,184	765	785	888	13.1
	U.S. exports (million dollars)	156	208	155	117	144	22.5
	U.S. imports (million dollars)	116	182	145	118	104	-12.4
	Apparent U.S. consumption (million dollars)	1,021	1,158	756	786	848	7.9
	Trade balance (million dollars)	40	26	9	-1	40	(³)
	Ratio of imports to consumption (percent)	11.4	15.7	19.2	15.1	12.2	-19.2
	Ratio of exports to shipments (percent)	14.7	17.6	20.2	14.9	16.2	8.7
MM037A	Primary and secondary aluminum:						
	Number of establishments	106	108	98	100	98	-2.0
	Employees (thousands)	25.0	25.0	23.0	21.0	21.0	0.0
	Capacity utilization (percent)	86	77	69	69	71	2.9
	U.S. shipments (million dollars)	7,750	8,286	5,835	5,589	5,730	2.5
	U.S. exports (million dollars)	613	636	466	431	376	-12.7
	U.S. imports (million dollars)	3,969	4,297	4,085	4,188	4,401	5.1
	Apparent U.S. consumption (million dollars)	11,106	11,946	9,454	9,346	9,755	4.4
	Trade balance (million dollars)	-3,356	-3,660	-3,619	-3,757	-4,025	-7.1
	Ratio of imports to consumption (percent)	35.7	36.0	43.2	44.8	45.1	0.7
	Ratio of exports to shipments (percent)	7.9	7.7	8.0	7.7	6.6	-14.3

Table MM-8—Continued
Minerals and metals sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
		1000			2002		2000 11 0111 2002
MM038	Aluminum mill products: Number of establishments	250	202	070	070	204	2.4
		358	363	379 50.0	372	381	2.4
	Employees (thousands)	57.0	57.0	59.0	58.0	58.0	0.0
	Capacity utilization (percent)	86	80	79	80	81	1.3
	U.S. shipments (million dollars)	19,316	19,632	17,489	17,960	18,320	2.0
	U.S. exports (million dollars)	2,943	3,130	2,784	2,519	2,564	1.8
	U.S. imports (million dollars)	2,283	2,674	2,305	2,516	2,768	10.0
	Apparent U.S. consumption (million dollars)	18,656	19,176	17,010	17,957	18,523	3.2
	Trade balance (million dollars)	660	456	479	3	-203	(3)
	Ratio of imports to consumption (percent)	12.2	13.9	13.6	14.0	14.9	6.4
	Ratio of exports to shipments (percent)	15.2	15.9	15.9	14.0	14.0	0.0
MM039A	Refined lead:						
	Number of establishments	31	30	29	26	25	-3.8
	Employees (thousands)	2.0	2.0	2.0	2.0	2.0	0.0
	Capacity utilization (percent)	88	89	87	91	90	-1.1
	U.S. shipments (million dollars)	1,358	1,366	1,278	1,280	1,261	-1.5
	U.S. exports (million dollars)	11	16	8	14	48	238.8
	U.S. imports (million dollars)	113	117	90	82	65	-20.1
	Apparent U.S. consumption (million dollars)	1,460	1,467	1,361	1,348	1,279	-5.1
	Trade balance (million dollars)	-102	-101	-83	-68	-18	73.9
	Ratio of imports to consumption (percent)	7.7	8.0	6.6	6.1	5.1	-16.4
	Ratio of exports to shipments (percent)	0.8	1.2	0.6	1.1	3.8	245.5
MM040A	Unwrought zinc:						
	Number of establishments	11	15	15	15	14	-6.7
	Employees (thousands)	2.0	2.0	1.0	1.0	1.0	0.0
	Capacity utilization (percent)	83	83	69	64	74	15.6
	U.S. shipments (million dollars)	439	455	302	251	284	13.1
	U.S. exports (million dollars)	2	3	1	1	2	45.3
	U.S. imports (million dollars)	1,066	1,104	786	731	676	-7.5
	Apparent U.S. consumption (million dollars)	1,502	1,556	1,087	981	958	-2.3
	Trade balance (million dollars)	-1,063	-1,101	-785	-730	-674	7.6
	Ratio of imports to consumption (percent)	70.9	71.0	72.3	74.5	70.6	-5.2
	Ratio of exports to shipments (percent)	0.5	0.7	0.4	0.5	0.6	20.0

Table MM-8—Continued
Minerals and metals sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
MM041	A Titanium ingot:						
	Number of establishments	9	9	5	5	5	0.0
	Employees (thousands)	0.3	0.3	0.3	0.3	0.3	0.0
	Capacity utilization (percent)	44	43	49	45	(¹)	(¹)
	U.S. shipments (million dollars)	718	870	600	420	470	11.9
	U.S. exports (million dollars)	13	12	22	12	11	-12.4
	U.S. imports (million dollars)	14	17	27	13	7	<i>-</i> 49.0
	Apparent U.S. consumption (million dollars)	720	875	606	421	466	10.7
	Trade balance (million dollars)	-2	-5	-6	-1	4	(³)
	Ratio of imports to consumption (percent)	2.0	1.9	4.5	3.1	1.4	-54.8
	Ratio of exports to shipments (percent)	1.8	1.4	3.6	3.0	2.3	-23.3
MM042	Nonpowered handtools:						
	Number of establishments	1,100	1,000	950	900	850	-5.6
	Employees (thousands)	121.0	120.0	115.0	110.0	105.0	-4.5
	Capacity utilization (percent)	70	71	70	70	68	-2.9
	U.S. shipments (million dollars)	13,931	14,139	12,433	11,812	11,457	-3.0
	U.S. exports (million dollars)	2,031	2,263	2,119	2,038	2,109	3.5
	U.S. imports (million dollars)	2,917	3,163	2,996	3,284	3,652	11.2
	Apparent U.S. consumption (million dollars)	14,818	15,040	13,309	13,058	13,000	-0.4
	Trade balance (million dollars)	-887	-901	-876	-1,246	-1,543	-23.8
	Ratio of imports to consumption (percent)	19.7	21.0	22.5	25.1	28.1	12.0
	Ratio of exports to shipments (percent)	14.6	16.0	17.0	17.3	18.4	6.4
MM043	Certain cutlery, sewing implements, and related products:						
	Number of establishments	175	176	177	178	178	0.0
	Employees (thousands)	10.0	10.0	9.0	9.0	9.0	0.0
	Capacity utilization (percent)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	U.S. shipments (million dollars)	2,000	2,000	1,900	1,800	1,800	0.0
	U.S. exports (million dollars)	583	546	556	551	550	-0.2
	U.S. imports (million dollars)	856	888	865	912	1,053	15.5
	Apparent U.S. consumption (million dollars)	2,273	2,342	2,209	2,161	2,303	6.6
	Trade balance (million dollars)	-273	-342	-309	-361	-503	-39.3
	Ratio of imports to consumption (percent)	37.7	37.9	39.2	42.2	45.7	8.3
	Ratio of exports to shipments (percent)	29.2	27.3	29.3	30.6	30.6	0.0

Table MM-8—Continued
Minerals and metals sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
MM044	Table flatware and related products:						
	Number of establishments	5	5	5	5	4	-20.0
	Employees (thousands)	1.0	1.0	1.0	1.0	1.0	0.0
	Capacity utilization (percent)	95	90	90	90	90	0.0
	U.S. shipments (million dollars)	253	253	205	200	200	0.0
	U.S. exports (million dollars)	26	25	28	29	22	-24.7
	U.S. imports (million dollars)	425	507	463	478	484	1.2
	Apparent U.S. consumption (million dollars)	652	734	640	650	662	2.0
	Trade balance (million dollars)	-399	-481	-435	-450	-462	-2.8
	Ratio of imports to consumption (percent)	65.2	69.0	72.3	73.6	73.1	-0.7
	Ratio of exports to shipments (percent)	10.4	9.9	13.5	14.3	10.8	-24.5
MM045	Certain builders' hardware:						
	Number of establishments	290	286	282	278	275	-1.1
	Employees (thousands)	40.0	41.0	37.0	34.0	33.0	-2.9
	Capacity utilization (percent)	76	75	71	69	69	0.0
	U.S. shipments (million dollars)	5,843	5,898	5,797	5,447	5,179	-4.9
	U.S. exports (million dollars)	823	1,084	961	907	911	(⁴)
	U.S. imports (million dollars)	1,696	1,973	1,948	2,197	2,405	9.5
	Apparent U.S. consumption (million dollars)	6,716	6,787	6,784	6,736	6,673	-0.9
	Trade balance (million dollars)	-873	-889	-987	-1,289	-1,494	-15.9
	Ratio of imports to consumption (percent)	25.3	29.1	28.7	32.6	36.0	10.4
	Ratio of exports to shipments (percent)	14.1	18.4	16.6	16.7	17.6	5.4

¹Not available.

Note.-Calculations based on unrounded data.

Source: These data have been estimated by the Commission's international trade analysts on the basis of primary and secondary data sources including discussions with various Government and industry contacts. These estimated data are subject to change either from secondary sources or from detailed surveys the Commission often conducts in the course of statutory investigations or other work. Further, these data may undergo adjustments based on revisions in tariff nomenclature, classification practices, or redefinitions of industry classes.

²Less than 500,000.

³Not meaningful.

⁴Less than 0.05 percent.

⁵Inventory changes, for which data are not available, likely account for ratios that exceed 100 percent.

⁶Capacity utilization could not be meaningfully calculated for this industry.

			,
			1
			, , , ,
			, , , , ,
			; ; ; ; ;
			, , , , , ,
			, , , , , ,
			, , , , , ,
			1
			! ! ! !
			1
			! ! ! !
			, , , ,
			,

Machinery

Judith-Anne Webster, Coordinator (202) 205-3489 judith-anne.webster@usitc.gov

Change in 2003 from 2002:

U.S. trade deficit: Increased by \$7.8 billion (35 percent) to \$29.7 billion U.S. exports: Increased by \$200 million (0.3 percent) to \$63.5 billion U.S. imports: Increased by \$8.0 billion (9 percent) to \$93.1 billion

The U.S. trade deficit in machinery increased significantly in 2003, for the third consecutive year, as imports grew 9 percent (see table MT-1). Over one-third of the import growth was accounted for by multifunctional digital (MFD) office machines and related parts, imports of which grew from \$375 million to \$3.2 billion in 2003. MFD's can print, scan, and fax, and have become increasingly popular in the U.S. market (see Printing and Related Machinery). After a significant decrease in exports from 2001 to 2002, exports of machinery remained stable in 2003, increasing less than 1 percent.

The market for durable goods expanded as the U.S. economy improved in 2003, contributing to higher imports of both household appliances (up \$1.2 billion in 2003) and air-conditioning units (an increase of \$730 million - see table MT-2). Growth in these product areas was driven by purchases for new and remodeled homes, as the market for homes remained strong and home refinancing resulting from low mortgage rates left consumers with money for home improvements.² In addition, a shift in consumer taste in appliance styles to appliances in new colors and finishes, such as stainless steel, and new more efficient products, such as hanging rack dryers, also encouraged consumers to spend money.³ Imports from China gained strength, reflecting the growing consumer acceptance of Chinese brands such as Haier, a leading supplier of household appliances to Wal-Mart and Costco in the United States.⁴ Finally, according to the Air-Conditioning and Refrigeration Institute, unusually hot weather in the West and Southwest created strong demand for replacement air conditioners.⁵

Despite a growing deficit in the machinery sector, imports decreased for certain power generating components and semiconductor manufacturing machinery. Boilers, turbines and related machinery imports decreased 42 percent (\$633 million) in 2003, the first downturn in over 5 years, particularly apparent for steam turbines and parts sourced from Korea. This shift reportedly was

¹ Customs Ruling, HQ 963680, Aug. 30, 2002,

² "Unitary Shipments Set Record in 2003," Air Conditioning Heating & Refrigeration News, Feb. 23 2004, Vol. 221 Issue 8, p. 1, found at http://search.epnet.com/direct.asp?an=12388604&db=buh, retrieved Apr. 5, 2004.

³ Daniel Lee, "Appliance Competition Intensifies," Appliance Manufacturer; Dec. 2003, Vol. 51 Issue 12, p 14, found at http://search.epnet.com/direct.asp?an=11716791&db=buh and "Reliable Dealer Makes a Difference in Choosing Appliances," NH Business Review, Feb. 20 - Mar. 4, 2004, p. 13C, found at www.nhbr.com.

⁴ "Haier Tops China's Brand-name List," Forbes, Feb. 8, 2004 found at

htttp://search.epnet.com/direct.asp?an=CX2004039H1213&db=bwb, retrieved Apr. 5, 2004.

⁵ "Unitary Shipments Set Record in 2003," Air Conditioning Heating & Refrigeration News, Feb. 23 2004, Vol. 221 Issue 8, p 1, found at http://search.epnet.com/direct.asp?an=12388604&db=buh, retrieved Apr. 5, 2004.

Table MT-1
Machinery: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1999-2003¹

						Change, 2003 from 2002		
Item	1999	2000	2001	2002	2003	Absolute	Percent	
-			— Million dolla	ars ———				
U.S. exports of domestic merchandise: Mexico Canada Japan China Germany United Kingdom Korea Taiwan Italy France All other	10,546 16,297 3,618 1,720 3,023 2,059 2,511 1,937 20,647	11,199 604 17,1998 5,1898 3,4682 3,46814 1,793 23,23 23,23 23,23 23,23 23,23 23,23 23,23	10,263 15,449 4,1336 3,4133 2,4493 2,995 2,9554 1,828	9.183 15.207 33.7625 27.625 27.521 3.7826 19.312	9.53.4991 9.53.4991 9.53.32.47.7.8953 2.22.22 1.93.8	-96 1061 1661 -2593 -2593 -153 -36	-1.0 0.70 53.7 -9.46 -25.88 -2.95.8 -2.19.5.8	
Total EU-15 OPEC Latin America CBERA Asia Sub-Saharan Africa Central and Eastern Europe	67,201 13,052 2,352 16,052 1,737 15,742 527 371	79,508 15,745 2,463 17,171 1,645 23,461 561 379	69,552 13,998 2,717 16,223 1,577 17,215 669 397	63,262 11,669 2,476 13,627 1,357 16,799 672 395	63,462 11,671 2,307 13,408 1,366 16,692 714 432	200 2 -169 -219 9 -107 43 38	0.3 -6.8 -1.6 0.6 -0.6 9.5	
U.S. imports of merchandise for consumption: Mexico Canada Japan China Germany United Kingdom Korea Taiwan Italy France All other	13,899 9,637 13,230 6,285 9,679 3,449 1,969 3,029 3,580 2,100 12,386	15,487 10,419 16,537 7,742 9,857 3,636 3,336 3,699 3,6996 14,326	14,821 9,876 14,286 8,620 9,648 3,420 2,297 2,872 3,499 2,027 13,500	16,321 9,810 12,689 10,467 8,902 3,002 2,554 2,743 3,519 1,919 13,254	16,596 10,071 14,013 13,922 9,985 2,955 2,505 2,800 3,952 1,980 14,359	276 260 1,324 3,454 1,082 -46 -50 57 434 60 1,105	1.7 2.7 10.4 33.0 12.2 -1.5 -1.9 2.1 12.3 3.1 8.3	
Total EU-15 OPEC Latin America CBERA Asia Sub-Saharan Africa Central and Eastern Europe	79,244 24,426 211 14,832 190 26,943 128 544	89,407 25,548 248 16,636 279 32,761 178 714	84,867 24,642 233 15,899 220 30,675 264 789	85,181 23,076 219 17,469 235 31,163 231 836	93,138 25,086 221 18,018 324 36,166 182 914	7,957 2,010 2 548 88 5,003 -49 78	9.3 8.7 0.8 3.1 37.6 16.1 -21.2 9.3	

Table MT-1--Continued

Machinery. U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1999-2003¹

						Change, 200	3 from 2002
Item	1999	2000	2001	2002	2003	Absolute	Percent
-			— Million dolla	ars ———			
U.S. merchandise trade balance: Mexico Canada Japan China Germany United Kingdom Korea Taiwan Italy France All other	-3,353 6,660 -9,613 -4,659 -6,960 -390 262 482 -2,569 -164 8,261	-3,883 6,760 -11,347 -5,844 -6,368 -145 1,380 2,678 -2,520 486 8,902	-4,558 6,073 -10,153 -6,265 -6,235 -127 154 82 -2,542 -72 8,328	-7,138 5,396 -9,361 -7,737 -6,278 -271 -33 474 -2,732 -297 6,058	-7,510 5,240 -10,520 -10,831 -7,404 -480 208 -416 -3,011 -441 5,489	-372 -157 -1,159 -3,094 -1,126 -210 242 -890 -278 -144 -569	-5.2 -2.9 -12.4 -40.0 -17.9 -77.4 (3) (3) -10.2 -48.4 -9.4
Total EU-15 OPEC Latin America CBERA Asia Sub-Saharan Africa Central and Eastern Europe	-12,043 -11,374 2,141 1,220 1,547 -11,200 400 -173	-9,899 -9,803 2,214 535 1,366 -9,300 382 -335	-15,315 -10,644 2,484 324 1,357 -13,460 406 -392	-21,919 -11,408 2,257 -3,842 1,122 -14,364 441 -441	-29,676 -13,415 2,086 -4,610 1,043 -19,474 532 -481	-7,757 -2,008 -171 -768 -79 -5,110 92 -40	-35.4 -17.6 -7.6 -20.0 -7.1 -35.6 20.8 -9.1

¹Import values are based on customs value; export values are based on f.a.s. value, U.S. port of export.

Note.—Calculations based on unrounded data. The countries shown are those with the largest total U.S. trade (U.S. imports plus exports) in these products in 2003.

²Less than 0.05 percent.

³Not meaningful for purposes of comparison.

Table MT-2 Leading changes in U.S. exports and imports of machinery, 1999-2003

						Change, 200	3 from 2002
Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent
	· · · · · · · · · · · · · · · · · · ·		Million a	ollars ———			
U.S. EXPORTS:							
Increases:							
Farm and garden machinery and							
equipment (MM078)	4,757	4,945	4,565	4,747	5,109	362	7.6
Semiconductor manufacturing machinery (MM087A)	7,907	13,866	8,044	6,972	7,242	269	3.9
Household appliances, including commercial				•			
applications (MM073)	5,216	5,563	5,226	4,892	4,810	-82	-1.7
Decreases:				,			
Nonautomotive insulated electrical wire and related							
products (MM097)	3,102	4,040	3,286	2,856	2,660	-196	-6.9
All other	46,219	51,093	48,431	43,796	43,641	-154	-0.4
TOTAL	67,201	79,508	69,552	63,262	63,462	200	0.3
U.S. IMPORTS:							
Increases:							
Printing and related machinery (MM081)	2,304	2,157	1,929	2,001	4,844	2,843	142.1
Household appliances, including commercial	2,504	2,107	1,323	2,001	4,044	2,040	172.1
applications (MM073)	6,718	7,689	8,356	9,587	10,782	1,195	12.5
Farm and garden machinery and	0,710	1,009	0,330	9,301	10,702	1,195	12.0
equipment (MM078)	3,396	3,740	3,602	3.898	4,645	747	19.2
Air-conditioning equipment and parts (MM071)	5,604	6,332	6,081	6,674	7,403	730	10.9
Decreases:	3,004	0,332	0,001	0,074	7,403	730	10.3
Boilers, turbines, and related machinery (MM090)	484	833	1,204	1,514	881	-633	-41.8
Semiconductor manufacturing machinery (MM087A)	2,600	4,597	3,947	3,304	2,750	-555	-16.8
Electric motors, generators, and related equipment	2,000	4,531	3,341	3,304	2,100	-555	-10.0
(MM091)	6.089	6,494	7.646	7.177	6.811	-366	-5.1
All other	52,048	57,565	52,102	51,026	55,023	3,997	7.8
All Ould:	32,040	37,303	JZ, I UZ	31,020	33,023	0,001	7.0
TOTAL	79,244	89,407	84,867	85,181	93,138	7,957	9.3

Note.-Calculations based on unrounded data.

attributable to reduced capital expenditures by a domestic industry which had over-expanded power generating capacity in the past few years.⁶ Imports also decreased for the U.S. semiconductor manufacturing equipment industry for the third straight year as low capacity utilization within the industry reduced the need for new equipment. However, U.S. exports of semiconductor manufacturing machinery increased to \$7.2 billion in 2003, largely reflecting industry growth in certain markets, as Korea's market for semiconductor manufacturing machinery grew 91 percent and Japan's market grew 43 percent in 2003.⁷ Samsung Electronics, for example, doubled its capital spending to \$3.6 billion in 2003.

Strong two-way trade of farm and garden machinery and equipment occurred in 2003. Imports increased by \$747 million, particularly for tractors and related parts from Canada and Japan. According to the Department of Agriculture, farm income in the United States, a primary driver of farm equipment sales, rose owing to additional government price supports and high crop yields in 2003. The leading export gain for these products was to Canada, the largest U.S. market for farm and garden machinery and equipment. Export decreases were relatively minor, occurring primarily in nonautomotive insulated electrical wire and related products (down \$196 million) and an aggregate product group (miscellaneous machinery). Thirty-four percent of the decrease in exports of miscellaneous machinery was attributable to the decline in exports of physical vapor deposition equipment (used for giving materials, such as semiconductors, an electric charge), particularly to Korea.

⁶ Representative of General Electric, telephone interview with USITC staff, Mar. 29, 2004.

⁷ "SEMI Reports 2003 Global Semiconductor Equipment Sales of \$22.2 billion," SEMI press release, Mar. 10, 2004, found at *http://itc.newsedge-web.com*, retrieved Mar. 11, 2004.

⁸ "Korea was the Fastest Growth Market for Semiconductor Capital Spending in 2003," SEMI press release, found at *www.semi.org*, retrieved Dec. 9, 2003.

⁹ Sam Stovall, "Heavy Machinery's Fork in the Road," Business Week Online, Nov. 5, 2003.

COMMODITY ANALYSIS OF PRINTING AND RELATED MACHINERY¹⁰

Change in 2003 from 2002:

U.S. trade deficit: Increased by \$2.8 billion (320 percent) to \$3.6 billion U.S. exports: Increased by \$79 million (7 percent) to \$1.2 billion U.S. imports: Increased by \$2.8 billion (142 percent) to \$4.8 billion

The trade deficit increase in printing and related machinery was almost exclusively a result of increased imports of multifunction digital printers (MFD), including parts, that print, copy, scan, and transmit documents. The largest increases were from China and Japan (see table MT-3). In contrast, exports rose only slightly in relative terms, with the largest absolute increase in exports going to the Netherlands, which accounted for almost one-half of the overall export increase. This gain in exports was moderated by the continued decline in exports of large printing press devices and parts as the domestic industry continued to contract. The 2003 deficit reached its highest level during the last 5 years, eclipsing the previous largest deficit of \$958 million in 1999.

U.S. imports

MFD¹³ machine imports increased sixfold (up \$1.9 billion) and related parts (mostly ink cartridges) increased tenfold (up \$1.0 billion). The import demand was largely attributable to a 64-percent increase in sales of digital cameras in 2003, which led to a 21-percent increase in worldwide sales of MFDs and their parts, displacing stand-alone inkjet printers.¹⁴ The increasing popularity of digital cameras, along with rapid domestic conversion of analog electronics applications to digital electronics (and formerly conventional photographs to digital images), combined with improved driver technologies for laser and inkjet printers, multifunction devices, and digital presses, ¹⁵ has increased the market for digital printers and scanners both in Small Office Home Office (SOHO) and Small Medium

¹⁰ This industry/commodity group includes machinery and parts for letterpress; flexographic; gravure; ink-jet; reel-and sheet-fed offset; textile; and office printers. Also included are bookbinding machinery; phototypesetting and composing machines; and printing plates, type, and other printing components.

¹¹ In 2003, Netherlands-based Aurelon announced the release of new software for large format printing using Windows and Mac systems and inkjet printers. This accelerated the recent growth in the purchase of parts for MFDs and other nontextile applications, as well as the machines used ancillary to printing. CMYKPages, "Aurelon Brings to Market New Generation of Aurelon RIP," July 2, 2003, found at

http://www.cmykpages.com/default.asp?hndlr=ORIGIN&itmid=451A772EDE2846AB8B9AFCA445A64EB1, retrieved Mar. 23, 2004. The Netherlands also moved toward the digitization of magazine and other printed matter, further facilitated by U.S. technology contributions and the decline of the dollar versus the euro. See, e.g., Erik van Erp, "The Long Road to Digital Ads for Magazines and Newspapers in The Netherlands," found at http://seminars.seyboldreports.com/2003_amsterdam/files/pfc1_erik_vanerp.pdf, retrieved Apr. 6, 2004.

¹² The chapter 11 reorganization of Goss Graphic Systems, the last major domestic large newspaper printing press manufacturer, continued through the period, leading to decreased exports of large printing press devices and parts.

¹³ All Multi-functional digital ("MFD") office machines are capable of scanning documents and printing, and can be used to print digital camera images. Some of the machines also have fax capabilities through use of a connected modem. All of the machines are designed to operate in local area networks or in client/server environments. In 2002, U.S. Customs ruled that digital scanners and copiers with printing capability were to be classified as printing machinery. This likely led to some devices being moved from alternate classifications into printing machinery. Bureau of Customs and Border Protection Headquarters Ruling HQ 963680 issued Aug. 30, 2002.

¹⁴ Olga Kharif, "Printing a Record of Growth", *Business Week Online*, Feb. 17, 2004, found at http://www.businessweek.com/technology/content/feb2004/tc20040217_8510_tc055.htm.

¹⁵ "Consolidation Beat Goes On: Agfa Acquires Granite", Print On Demand.com, July 15, 2003, found at http://www.printondemand.com/MT/archives/000613.html.

Enterprises (SME) applications.¹⁶ These advances have allowed SOHO and SME users to apply a single MFD device to print, scan, copy, and fax.

The majority of MFDs are produced in Asia,¹⁷ and almost the entire increase of U.S. imports came from Japan (up \$1.5 billion, or 368 percent) and China (up \$1.1 billion, or 754 percent). Multiple electronics companies are launching new MFD product lines,¹⁸ as are camera and film companies,¹⁹ and multiple printer manufacturers have implemented multifunction drivers.²⁰

Christopher B. Mapes (202) 205-3034 christopher.mapes@usitc.gov

Table MT-3
U.S. imports of printing and related machinery, 1999-2003

						Change, 2003	from 2002
Item	1999	2000	2001	2002	2003	Absolute	Percent
			Mill	ion dollars -		_	
Office printing machines Parts and accessories for office	16	18	13	265	1,929	1,664	629
printing machines	34	31	32	111	1,239	1,128	1,020
Offset printing machinery	867	731	591	425	411	-14	-3
Flexographic printing machinery Bookbinding machinery, including	78	74	67	81	125	44	53
book-sewing machines	118	125	111	73	100	27	38
Other printing machinery	1,192	1,177	1,114	1,047	1,040	-7	-1
Total	2,304	2,157	1,929	2,001	4,844	2,843	142

Note.-Calculations based on unrounded data.

¹⁶ Calvin Siew, "Lexmark's multifunction galore", C/NET Asia, Oct. 16, 2003, found at http://asia.cnet.com/reviews/hardware/printers/0,39001759,39154954,00.htm.

¹⁷ China's consumption is approximately one million per year, second only to the United States. From "Japanese Ricoh to Snatch China's Digital Network Market," People's Daily, Sept. 4, 2001, found at http://fpeng.peopledaily.com.cn/200109/04/eng20010904 79286.html.

¹⁸ For example, Hewlett-Packard; see

http://www.hp.com/united-states/consumer/gateway/printing multifunction.html.

¹⁹ "Fuji Xerox and Fuji Photo Film Team Up to Launch "inter-Graphics" Service," JCN Newswire,

Mar. 12, 2004, available at http://www.japancorp.net/Article.Asp?Art ID=6826.

²⁰ For example, companies that have implemented Granite Systems drivers include Minolta, Minolta-QMS, Seiko-Epson, Toshiba, Fujitsu, and Panasonic, all of which are Asian-based. From "Consolidation Beat Goes On", ibid. Another printer migrating to MFDs is Xerox; see

http://www.xerox.com/go/xrx/equipment/product_landing.jsp?Xcntry=USA&Xlang=en_US.

Table MT-4
Machinery: U.S. trade for industry/commodity groups and subgroups, 1999-2003¹

USITC							Change, 200	3 from 2002
code ²	Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent
MM068	AAP de la la companya (Companya de la			——— Million o	dollars ———			
MINIOR	Wiring harnesses for motor vehicles: Exports Imports Trade balance	993 4,868 -3,875	938 5,132 -4,194	866 4,684 -3,818	961 5,302 -4.341	868 5,272 -4,404	-93 -30 -63	-9.7 -0.6 -1.5
MM069	Pumps for motor vehicles: Exports Imports	546 776	680 863	642 788	681 913	690 992	9 78	1.4 8.6
MM070	Trade balance	-230 2.325	-183 2.461	-1 47 2.561	-232	-302	-69 18	-29.7 0.8
MM071	Exports Imports Trade balance Air-conditioning equipment and parts:	1,643 683	1,809 652	1,801 760	2,393 1,883 510	2,412 2,180 232	296 -278	15.7 -54.5
	Exports	5,641 5,604 37	5,884 6,332 -449	5,694 6,081 -387	5,318 6,674 -1,356	5,334 7,403 -2,070	16 730 -714	0.3 10.9 -52.6
MM072	Industrial thermal-processing equipment and furnaces: Exports	2,292 1,483 809	2,631 1,663 968	2,496 1,641 855	2,064 1,671 393	2,099 1,660 439	35 -11 46	1.7 -0.7 11.6
MM073	Trade balance							11.0
	Exports Imports Trade balance	5,216 6,718 -1,503	5,563 7,689 -2,126	5,226 8,356 -3,130	4,892 9,587 -4,695	4,810 10,782 -5,971	-82 1,195 -1,277	-1.7 12.5 -27.2
MM073A	Major household appliances and parts: Exports Imports Trade balance	1,652 1,477 176	1,717 1,642 75	1,708 1,986 -278	1,610 2,444 -834	1,655 2,868 -1,212	45 423 -378	2.8 17.3 -45.3
MM074	Centrifuges and filtering and purifying equipment Exports Imports	2,564 1,783	3,031 2,010	3,208 2,275	3,045 2,403	3,022 2,663	-24 260	-0.8 10.8
MM075	Trade balance	781	1,021	933	642	358	-284	-44.2
NANAO70	Exports	766 1,117 -351	804 1,246 -442	711 1,302 -591	639 1,333 -694	637 1,505 -868	-2 173 -174	-0.3 12.9 -25.1
MM076	Scales and weighing machinery: Exports Imports Trade balance	145 265 -121	163 294 -131	175 279 -104	164 293 -129	155 375 -220	-9 82 -91	-5.6 27.9 -70.6
MM077	Mineral processing machinery: Exports Imports Trade balance	590 667 -78	582 723 -142	582 576 6	485 565 -81	545 627 -82	60 61 -1	12.4 10.8 -1.3

Table MT-4--*Continued*Machinery: U.S. trade for industry/commodity groups and subgroups, 1999-2003¹

USITC							Change, 200	3 from 2002
code ²	Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent
1414070				Million o	dollars ———			
MM078	Farm and garden machinery and equipment: Exports	4.757	4.945	4,565	4.747	5.109	362	7.6
	Imports	3,396 1.361	4,945 3,740 1,205	3,602 963	3,898	4,645	747 -384	19.2 -45.3
MM079	Trade balance	.,	.,		848	464		
	ExportsImports	611 621	627 543	576 537	606 570	558 684	-48 114	-8.0 20.0
MM080	Trade balance	-9	83	40	36	-126	-162	$\binom{3}{3}$
IVIIVIUOU	Pulp, paper, and paperboard machinery: Exports	743	779	678	560	648	88	15.7
	Imports	1,003 -260	1,127 -348	1,091 -41.4	719 -159	867 -219	148 -60	20.6 -37.8
MM081	Printing and related machinery:							
	ExportsImports	1,347 2,304	1,583 2,157	1,232 1,929	1,136 2,001	1,215 4,844	79 2,843	7.0 142.1
MM082	Trade balance	-958	-574	-697	-865	-3,628	-2,763	-319.5
111111002	Exports	974	978	897	871	810	-61	-7.0
	Imports	2,073 -1,099	1,873 -895	1,411 -515	1,314 -442	1,316 -506	2 -63	0.2 -14.3
MM083	Metal rolling mills: Exports	153	164	210	169	182	13	7.7
	Imports	321	261	180	163	210	47	28.9
MM084	Trade balance	-168	-97	30	7	-27	-34	(*)
	accessories: Exports	1.773	2.264	1.809	1,634	1.585	-48	-2.9
	Imports	3,921	4,240	3,407	2,558	2,704	146	5.7
MM085	Trade balance	-2,148	-1,977	-1,598	-924	-1,118	-194	-21.0
	Exports	934 1,312	876 1.474	743 1.331	652 846	691 933	39 87	6.0 10.3
	Imports	-378	-598	-588	-194	-242	-49	-25.0
MM086	Non-metalworking machine tools: Exports	772	1.080	807	768	711	-57	-7.4
	Imports	1,318 -546	1,524 -443	1,276 -468	1,242 -474	1,330 -619	88 -145	7.1 -30.6
MM087	Trade balance	-540	-443	-400	-4/4	-019	-145	-30.0
	robotics: Exports	8.176	14,585	8,553	7,341	7,599	258	3.5
	Imports	3,123 5.052	5,167	4,389 4.164	3,679 3,662	3,152 4,446	-526 784	-14.3 21.4
MM087A	Trade balance	5,052	9,418		-,	.,		
	ExportsImports	7,907 2,600	13,866 4.597	8,044 3.947	6,972 3.304	7,242 2.750	269 -555	3.9 -16.8
	Trade balance	5,307	9,269	4,096	3,668	4,492	824	22.5

Table MT-4--*Continued*Machinery: U.S. trade for industry/commodity groups and subgroups, 1999-2003¹

USITC							Change, 200	3 from 2002
code ²	Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent
MM088	Taps, cocks, valves, and similar devices:			Million	dollars ———			
MINIOGO	Exports	2,959	3,284	3,351	3,202	3,329	127	4.0
	Imports		5,021 -1,737	4,809 -1,458	5,156 -1,954	5,500 -2,171	345 -217	6.7 -11.1
MM089	Mechanical power transmission equipment: Exports	942	1,029	939	936	1.054	118	12.6
	Imports	2,008 -1,066	2,134 -1,105	2,004 -1,066	1,994 -1,057	2,222 -1,168	228 -110	11.5 -10.4
MM090	Boilers, turbines, and related machinery: Exports	1,290	1,117	1,106	892	875	-17	-1.9
	Imports	484	833	1,204	1,514	881	-633	-41.8
MM091	Trade balance	806	284	-98	-622	-6	616	99.1
	equipment = Exports	3,728	3,748	4,691	3,923	4,031	108	2.8
	Imports	6,089 -2.362	6,494 -2,746	7,646 -2.954	7,177 -3.255	6,811 -2,780	-366 474	-5.1 14.6
MM092	Electrical transformers, static converters, and inductors:	2,002	_,	2,00	0,200	_,		,
	Exports	2,379 4.950	2,752 6.156	2,436 5,134	1,784 4,707	1,767 4,680	-17 -27	-0.9 -0.6
1414000	Imports Trade balance	-2,571	-3,404	-2,698	-2,923	-2,912	10	0.3
MM093	Portable electric handtools: Exports	392	359	291	212	191	-21	-9.9
	Imports	992 -600	1,166 -808	1,185 -894	1,434 -1,222	1,777 -1,586	344 -365	24.0 -29.8
MM094	Nonelectrically powered handtools and parts thereof:							
	Exports	537 890	563 933	563 901	549 961	578 992	29 30	5.2 3.2
NANAOOE	Trade balance	-353	-370	-338	-412	-414	-2	-0.4
MM095	Electric lamps (bulbs) and portable electric lights: Exports	894	897	799	750	721	-29	-3.9
	Imports	1,454 -561	1,579 -682	1,785 -986	1,687 -937	1,748 -1,028	61 -90	3.6 -9.6
MM096	Welding and soldering equipment Exports	989	1.050	703	635	618	-17	-2.6
	Imports Trade balance	702 287	803 247	803 -101	761 -126	996 -378	235 -252	30.9 -199.5
MM097	Nonautomotive insulated electrical wire and related products:	201	-		. 20			
	Exports :	3,102	4,040	3,286	2,856	2,660 3,208	-196 132	-6.9 4.3
	Imports	3,078 24	3,566 474	3,203 83	3,076 -220	-548	-328	-1 4 9.0
MM098	Miscellaneous machinery: Exports	6,792	7,922	7,366	6,793	6,409	-384	-5.7
	Imports	6,220 572	7,241 682	6,455 911	6,133 660	6,917 -508	785 -1,169	12.8 (³)
				* * *			•	. ,

Table MT-4--Continued Machinery: U.S. trade for industry/commodity groups and subgroups, 1999-2003¹

USITC							Change, 200	3 from 2002
code ²	Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent
				Million o	Iollars ———			
MM099	Molds and molding machinery: Exports Imports Trade balance	1,879 3,723 -1,844	2,129 3,613 -1,484	1,791 2,803 -1,012	1,605 2,969 -1,363	1,550 3,262 -1,712	-55 293 -348	-3.4 9.9 -25.6

¹Import values are based on customs value; export values are based on f.a.s. value, U.S. port of export.

Note.—Calculations based on unrounded data.

²This coding system is used by the U.S. International Trade Commission to identify major groupings and subgroupings of HTS import and export items for trade monitoring purposes

³Not meaningful for purposes of comparison.

Table MT-5
Machinery sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
MM068	Wiring harnesses for motor vehicles:						
	Number of establishments	· (1)	$\binom{1}{1}$	(¹)	(¹)	(¹)	(¹)
	Employees (thousands)	(¹)	(¹)	(¹)	(¹)	(¹)	(1)
	Capacity utilization (percent)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	U.S. shipments (million dollars)	6,150	6,240	5,740	6,450	6,100	-5.4
	U.S. exports (million dollars)	993	938	866	961	868	-9.7
	U.S. imports (million dollars)	4,868	5,132	4,684	5,302	5,272	-0.6
	Apparent U.S. consumption (million dollars)	10,025	10,434	9,558	10,791	10,504	-2.7
	Trade balance (million dollars)	-3,875	-4,194	-3,818	-4,341	-4,404	-1 .5
	Ratio of imports to consumption (percent)	48.6	49.2	49.0	49.1	50.2	2.2
	Ratio of exports to shipments (percent)	16.1	15.0	15.1	14.9	14.2	-4.7
MM069	Pumps for motor vehicles:						
	Number of establishments	202	195	215	225	202	-10.2
	Employees (thousands)	27.0	25.0	28.0	30.0	27.0	-10.0
	Capacity utilization (percent)	72	72	76	78	72	-7.7
	U.S. shipments (million dollars)	2,982	3,012	3,223	3,384	3,046	-10.0
	U.S. exports (million dollars)	546	680	642	681	690	1.4
	U.S. imports (million dollars)	776	863	788	913	992	8.6
	Apparent U.S. consumption (million dollars)	3,212	3,195	3,370	3,616	3,348	-7.4
	Trade balance (million dollars)	-230	-183	-147	-232	-302	-29.7
	Ratio of imports to consumption (percent)	24.2	27.0	23.4	25.3	29.6	17.0
	Ratio of exports to shipments (percent)	18.3	22.6	19.9	20.1	22.7	12.9
MM070	Pumps for liquids:						
	Number of establishments	450	460	485	475	453	-4.6
	Employees (thousands)	36.0	37.0	37.0	35.0	31.0	-11.4
	Capacity utilization (percent)	69	70	70	69	66	-4.3
	U.S. shipments (million dollars)	6,603	6,800	6,936	6,867	6,660	-3.0
	U.S. exports (million dollars)	2,325	2,461	2,561	2,393	2,412	0.8
	U.S. imports (million dollars)	1,643	1,809	1,801	1,883	2,180	15.7
	Apparent U.S. consumption (million dollars)	5,920	6,148	6,176	6,357	6,428	1.1
	Trade balance (million dollars)	683	652	760	510	232	-54.5
	Ratio of imports to consumption (percent)	27.7	29.4	29.2	29.6	33.9	14.5
	Ratio of exports to shipments (percent)	35.2	36.2	36.9	34.8	36.2	4.0

Table MT-5—Continued

Machinery sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
MM071		1555	2000	2001		2000	2000 110111 2002
IVIIVIO / I	Air-conditioning equipment and parts:	1 225	1 262	1 205	1 240	1,265	2.0
	Number of establishments	1,225 148.0	1,262 151.0	1,295 155.0	1,240	1,205	-5.6
	Employees (thousands)				142.0		
	Capacity utilization (percent)	73	75	76	71	71	0.0 2.0
	U.S. shipments (million dollars)	26,500	27,030	28,111	23,894	24,372	
	U.S. exports (million dollars)	5,641	5,884	5,694	5,318	5,334	(²)
	U.S. imports (million dollars)	5,604	6,332	6,081	6,674	7,403	10.9
	Apparent U.S. consumption (million dollars)	26,463	27,479	28,498	25,250	26,442	4.7
	Trade balance (million dollars)	37	-449	-387	-1,356	-2,070	-52.6
	Ratio of imports to consumption (percent)	21.2	23.0	21.3	26.4	28.0	6.1
	Ratio of exports to shipments (percent)	21.3	21.8	20.3	22.3	21.9	- 1.8
MM072	Industrial thermal-processing equipment and furnaces:						
	Number of establishments	329	331	320	325	323	-0.6
	Employees (thousands)	33.0	34.0	32.0	32.0	32.0	0.0
	Capacity utilization (percent)	67	68	66	67	66	-1.5
	U.S. shipments (million dollars)	3,715	3,752	3,564	3,599	3,675	2.1
	U.S. exports (million dollars)	2,292	2,631	2,496	2,064	2,099	1.7
	U.S. imports (million dollars)	1,483	1,663	1,641	1,671	1,660	-0.7
	Apparent U.S. consumption (million dollars)	2,906	2,784	2,709	3,206	3,236	0.9
	Trade balance (million dollars)	809	968	855	393	439	11.6
	Ratio of imports to consumption (percent)	51.0	59.7	60.6	52.1	51.3	-1.5
	Ratio of exports to shipments (percent)	61.7	70.1	70.0	57.4	57.1	-0.5
MM073	Household appliances, including commercial applications:						
	Number of establishments	100	87	98	95	99	4.2
	Employees (thousands)	57.0	50.0	55.0	53.0	53.0	0.0
	Capacity utilization (percent)	71	67	70	69	70	1.4
	U.S. shipments (million dollars)	15,867	15,111	15,741	15,427	15,736	2.0
	U.S. exports (million dollars)	5,216	5,563	5,226	4,892	4,810	-1.7
	U.S. imports (million dollars)	6,718	7,689	8,356	9,587	10,782	12.5
	Apparent U.S. consumption (million dollars)	17,370	17,237	18,871	20,122	21,707	7.9
	Trade balance (million dollars)	-1,503	-2,126	-3,130	-4,695	-5,971	-27.2
	Ratio of imports to consumption (percent)	38.7	44.6	44.3	47.6	49.7	4.4
	Ratio of exports to shipments (percent)	32.9	36.8	33.2	31.7	30.6	-3.5
	nation of exports to shipments (percent)	32.9	50.0	33.2	51.7	00.0	0.0

Table MT-5—*Continued*Machinery sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
MM073	A Major household appliances and parts:						
	Number of establishments	197	238	251	255	282	10.6
	Employees (thousands)	66.0	73.0	75.0	76.0	78.0	2.6
	Capacity utilization (percent)	67	69	70	71	75	5.6
	U.S. shipments (million dollars)	13,171	13,981	14,259	14,544	15,126	4.0
	U.S. exports (million dollars)	1,652	1,717	1,708	1,610	1,655	2.8
	U.S. imports (million dollars)	1,477	1,642	1,986	2,444	2,868	17.3
	Apparent U.S. consumption (million dollars)	12,995	13,906	14,537	15,378	16,338	6.2
	Trade balance (million dollars)	176	75	-278	-834	-1,212	-45.3
	Ratio of imports to consumption (percent)	11.4	11.8	13.7	15.9	17.6	10.7
	Ratio of exports to shipments (percent)	12.5	12.3	12.0	11.1	10.9	-1 .8
MM075	Wrapping, packaging, and can-sealing machinery:						
	Number of establishments	756	784	813	813	813	0.0
	Employees (thousands)	31.0	29.0	28.0	29.0	30.0	3.4
•	Capacity utilization (percent)	67	62	59	72	75	4.2
	U.S. shipments (million dollars)	4,119	4,202	3,939	4,807	4,951	3.0
	U.S. exports (million dollars)	766	804	711	639	637	-0.3
	U.S. imports (million dollars)	1,117	1,246	1,302	1,333	1,505	12.9
	Apparent U.S. consumption (million dollars)	4,470	4,644	4,530	5,501	5,819	5.8
	Trade balance (million dollars)	-351	-442	-591	-694	-868	-25.1
	Ratio of imports to consumption (percent)	25.0	26.8	28.7	24.2	25.9	7.0
	Ratio of exports to shipments (percent)	18.6	19.1	18.1	13.3	12.9	-3.0
MM076	Scales and weighing machinery:					-	
	Number of establishments	119	117	121	120	119	-0.8
	Employees (thousands)	4.9	4.9	5.0	4.8	4.6	-4.2
	Capacity utilization (percent)	66	56	57	58	60	3.4
	U.S. shipments (million dollars)	752	765	756	784	814	3.8
	U.S. exports (million dollars)	145	163	175	164	155	-5.6
	U.S. imports (million dollars)	265	294	279	293	375	27.9
	Apparent U.S. consumption (million dollars)	873	896	860	913	1,034	13.3
	Trade balance (million dollars)	-1 21	-131	-104	-129	-220	-70.6
	Ratio of imports to consumption (percent)	30.4	32.8	32.4	32.1	36.3	13.1
	Ratio of exports to shipments (percent)	19.3	21.4	23.2	21.0	19.1	-9.0

Table MT-5—*Continued*Machinery sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
MM077	Mineral processing machinery:						
	Number of establishments	89	85	84	83	82	-1.2
	Employees (thousands)	6.0	6.0	5.0	5.0	5.0	0.0
	Capacity utilization (percent)	64	57	59	53	53	0.0
	U.S. shipments (million dollars)	1,563	1,542	1,542	1,286	1,285	-0.1
	U.S. exports (million dollars)	590	582	582	485	545	12.4
	U.S. imports (million dollars)	667	723	576	565	627	10.8
	Apparent U.S. consumption (million dollars)	1,641	1,684	1,536	1,367	1,367	0.0
	Trade balance (million dollars)	-78	-142	6	-81	-82	-1.3
	Ratio of imports to consumption (percent)	40.7	43.0	37.5	41.4	45.8	10.6
	Ratio of exports to shipments (percent)	37.7	37.7	37.7	37.7	42.4	12.5
MM078	Farm and garden machinery and equipment:						
	Number of establishments	1,870	1,800	1,700	1,500	1,450	-3.3
	Employees (thousands)	98.0	97.0	95.0	90.0	87.0	-3.3
	Capacity utilization (percent)	63	67	67	67	75	11.9
	U.S. shipments (million dollars)	18,013	19,676	18,582	17,653	19,418	10.0
	U.S. exports (million dollars)	4,757	4,945	4,565	4,747	5,109	7.6
	U.S. imports (million dollars)	3,396	3,740	3,602	3,898	4,645	19.2
	Apparent U.S. consumption (million dollars)	16,652	18,471	17,619	16,805	18,954	12.8
	Trade balance (million dollars)	1,361	1,205	963	848	464	-45.3
	Ratio of imports to consumption (percent)	20.4	20.2	20.4	23.2	24.5	5.6
	Ratio of exports to shipments (percent)	26.4	25.1	24.6	26.9	26.3	-2.2
MM079	Industrial food-processing and related machinery:						
	Number of establishments	582	591	600	615	616	(²)
	Employees (thousands)	19.0	18.0	18.0	18.0	19.0	5.6
	Capacity utilization (percent)	72	67	66	68	71	4.4
	U.S. shipments (million dollars)	2,614	2,563	2,404	2,514	2,600	3.4
	U.S. exports (million dollars)	611	627	576	606	558	-8.0
	U.S. imports (million dollars)	621	543	537	570	684	20.0
	Apparent U.S. consumption (million dollars)	2,623	2,480	2,364	2,478	2,726	10.0
	Trade balance (million dollars)	-9	83	40	36	-126	(³)
	Ratio of imports to consumption (percent)	23.7	21.9	22.7	23.0	25.1	9.1
	Ratio of exports to shipments (percent)	23.4	24.5	24.0	24.1	21.5	-10.8

Table MT-5—Continued

Machinery sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
MM080	Pulp, paper, and paperboard machinery:						
	Number of establishments	351	335	319	297	305	2.7
	Employees (thousands)	16.8	14.2	13.2	12.4	12.7	2.4
	Capacity utilization (percent)	60	64	72	82	82	0.0
	U.S. shipments (million dollars)	2,941	2,761	2,708	2,597	2,747	5.8
	U.S. exports (million dollars)	743	779	678	560	648	15.7
	U.S. imports (million dollars)	1,003	1,127	1,091	719	867	20.6
	Apparent U.S. consumption (million dollars)	3,201	3,109	3,122	2,756	2,966	7.6
	Trade balance (million dollars)	-260	-348	-414	-159	-219	-37.8
	Ratio of imports to consumption (percent)	31.3	36.2	35.0	26.1	29.2	11.9
	Ratio of exports to shipments (percent)	25.3	28.2	25.0	21.5	23.6	9.8
MM081	Printing and related machinery:						
	Number of establishments	523	520	499	484	470	-2.9
	Employees (thousands)	19.5	18.6	18.2	17.7	17.3	-2.3
	Capacity utilization (percent)	67	69	63	59	64	8.5
	U.S. shipments (million dollars)	3,606	3,827	3,865	3,919	3,973	1.4
	U.S. exports (million dollars)	1,347	1,583	1,232	1,136	1,215	7.0
	U.S. imports (million dollars)	2,304	2,157	1,929	2,001	4,844	142.1
	Apparent U.S. consumption (million dollars)	4,564	4,401	4,562	4,784	7,601	58.9
	Trade balance (million dollars)	-958	-574	-697	-865	-3,628	-319.5
	Ratio of imports to consumption (percent)	50.5	49.0	42.3	41.8	63.7	52.4
	Ratio of exports to shipments (percent)	37.3	41.4	31.9	29.0	30.6	5.5
MM082	Textile machinery:						
	Number of establishments	500	500	500	420	400	-4.8
	Employees (thousands)	13.0	13.0	12.0	10.0	8.0	-20.0
	Capacity utilization (percent)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	U.S. shipments (million dollars)	1,546	1,648	1,417	1,377	1,308	-5.0
	U.S. exports (million dollars)	974	978	897	871	810	<i>-</i> 7.0
	U.S. imports (million dollars)	2,073	1,873	1,411	1,314	1,316	(²)
	Apparent U.S. consumption (million dollars)	2,645	2,543	1,932	1,819	1,814	-0.3
	Trade balance (million dollars)	-1,099	-895	-515	-442	-506	-14.3
	Ratio of imports to consumption (percent)	78.4	73.6	73.1	72.2	72.5	(²)
	Ratio of exports to shipments (percent)	63.0	59.3	63.3	63.3	61.9	-2.2

Table MT-5—Continued

Machinery sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC		toos					Percent change,
code	Industry/commodity group	1999	2000	2001	2002	2003	2003 from 2002
MM083	Metal rolling mills:						
	Number of establishments	15	15	15	15	15	0.0
	Employees (thousands)	3.0	3.0	3.0	3.0	3.0	0.0
	Capacity utilization (percent)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	U.S. shipments (million dollars)	511	545	699	584	570	-2.4
	U.S. exports (million dollars)	153	164	210	169	182	7.7
	U.S. imports (million dollars)	321	261	180	163	210	28.9
	Apparent U.S. consumption (million dollars)	679	642	669	577	597	3.5
	Trade balance (million dollars)	-168	-97	30	7	-27	(³)
	Ratio of imports to consumption (percent)	47.3	40.7	26.9	28.2	35.1	24.5
	Ratio of exports to shipments (percent)	30.0	30.0	30.1	29.0	32.0	10.3
MM084	Metal cutting machine tools and machine tool						
	accessories:						
	Number of establishments	700	650	600	400	370	- 7.5
	Employees (thousands)	84.0	81.0	75.0	66.0	62.0	-6.1
	Capacity utilization (percent)	70	68	63	60	60	0.0
	U.S. shipments (million dollars)	6,825	6,933	5,877	3,838	3,728	-2.9
	U.S. exports (million dollars)	1,773	2,264	1,809	1,634	1,585	-2.9
	U.S. imports (million dollars)	3,921	4,240	3,407	2,558	2,704	5.7
	Apparent U.S. consumption (million dollars)	8,973	8,910	7,475	4,762	4,846	1.8
	Trade balance (million dollars)	-2,148	-1,977	-1,598	-924	-1,118	-21.0
	Ratio of imports to consumption (percent)	43.7	47.6	45.6	53.7	55.8	3.9
	Ratio of exports to shipments (percent)	26.0	32.6	30.8	42.6	42.5	-0.2
MM085	Metal forming machine tools:						
	Number of establishments	250	250	220	200	175	-12.5
	Employees (thousands)	28.0	27.0	20.0	15.0	14.0	-6.7
	Capacity utilization (percent)	75	66	62	60	60	0.0
	U.S. shipments (million dollars)	2,980	2,890	2,185	1,647	1,616	-1.9
	U.S. exports (million dollars)	934	876	743	652	691	6.0
	U.S. imports (million dollars)	1,312	1,474	1,331	846	933	10.3
	Apparent U.S. consumption (million dollars)	3,358	3,488	2,773	1,841	1,858	1.0
	Trade balance (million dollars)	-378	-598	-588	-194	-242	-25.0
	Ratio of imports to consumption (percent)	39.1	42.3	48.0	46.0	50.2	9.1
	Ratio of exports to shipments (percent)	31.3	30.3	34.0	39.6	42.8	8.1
	Ratio of exports to snipments (percent)	31.3	30.3	34.0	38.0	42.0	C

Table MT-5—Continued

Machinery sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
MM086	Non-metalworking machine tools:						
WIIWIOGO	Number of establishments	280	260	240	200	190	-5.0
	Employees (thousands)	41.0	42.0	36.0	34.0	33.0	-2.9
	Capacity utilization (percent)	80	77	75	70	68	-2.9
	U.S. shipments (million dollars)	6,170	6,320	5,396	5,126	5,023	-2.0
	U.S. exports (million dollars)	772	1,080	807	768	711	-7.4
	U.S. imports (million dollars)	1,318	1,524	1,276	1,242	1,330	7.1
	Apparent U.S. consumption (million dollars)	6,716	6,763	5,864	5,600	5,642	0.8
	Trade balance (million dollars)	-546	-443	-468	-474	-619	-30.6
	Ratio of imports to consumption (percent)	19.6	22.5	21.7	22.2	23.6	6.3
	Ratio of exports to shipments (percent)	12.5	17.1	15.0	15.0	14.1	-6.0
MM087	A Semiconductor manufacturing machinery:						
	Number of establishments	390	410	405	400	400	0.0
	Employees (thousands)	37.0	48.0	36.0	34.0	34.0	0.0
	Capacity utilization (percent)	75	90	72	81	82	1.2
	U.S. shipments (million dollars)	11,231	16,846	11,850	10,200	10,600	3.9
	U.S. exports (million dollars)	7,907	13,866	8,044	6,972	7,242	3.9
	U.S. imports (million dollars)	2,600	4,597	3,947	3,304	2,750	- 16.8
	Apparent U.S. consumption (million dollars)	5,924	7,577	7,754	6,532	6,108	-6.5
	Trade balance (million dollars)	5,307	9,269	4,096	3,668	4,492	22.5
	Ratio of imports to consumption (percent)	43.9	60.7	50.9	50.6	45.0	-11.1
	Ratio of exports to shipments (percent)	70.4	82.3	67.9	68.4	68.3	-0.1
880MM	Taps, cocks, valves, and similar devices:						
	Number of establishments	797	785	725	695	666	-4.2
	Employees (thousands)	70.0	70.0	67.0	64.0	62.0	-3.1
	Capacity utilization (percent)	75	74	70	68	64	-5.9
	U.S. shipments (million dollars)	11,687	11,804	11,450	11,221	10,772	-4.0
	U.S. exports (million dollars)	2,959	3,284	3,351	3,202	3,329	4.0
	U.S. imports (million dollars)	4,335	5,021	4,809	5,156	5,500	6.7
	Apparent U.S. consumption (million dollars)	13,063	13,541	12,908	13,175	12,943	<i>-</i> 1.8
	Trade balance (million dollars)	-1,376	-1,737	-1,458	-1,954	-2,171	-11.1
	Ratio of imports to consumption (percent)	33.2	37.1	37.3	39.1	42.5	8.7
	Ratio of exports to shipments (percent)	25.3	27.8	29.3	28.5	30.9	8.4

Table MT-5—*Continued*Machinery sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
MM089	Mechanical power transmission equipment:						
	Number of establishments	200	170	140	130	130	0.0
	Employees (thousands)	37.0	37.0	35.0	32.0	31.0	-3.1
	Capacity utilization (percent)	65	62	62	60	60	0.0
	U.S. shipments (million dollars)	4,942	5,051	4,441	4,219	4,092	-3.0
	U.S. exports (million dollars)	942	1,029	939	936	1,054	12.6
	U.S. imports (million dollars)	2,008	2,134	2,004	1,994	2,222	11.5
	Apparent U.S. consumption (million dollars)	6,008	6,156	5,507	5,276	5,260	-0.3
	Trade balance (million dollars)	-1,066	-1,105	-1,066	-1,057	-1,168	-10.4
	Ratio of imports to consumption (percent)	33.4	34.7	36.4	37.8	42.2	11.6
	Ratio of exports to shipments (percent)	19.1	20.4	21.1	22.2	25.8	16.2
MM090	Boilers, turbines, and related machinery:						
	Number of establishments	28	28	28	28	26	-7.1
	Employees (thousands)	8.0	8.0	8.0	8.0	7.0	-12.5
	Capacity utilization (percent)	65	65	65	70	65	-7.1
	U.S. shipments (million dollars)	1,465	1,543	1,648	2,240	2,050	-8.5
	U.S. exports (million dollars)	1,290	1,117	1,106	892	875	-1.9
	U.S. imports (million dollars)	484	833	1,204	1,514	881	-41.8
	Apparent U.S. consumption (million dollars)	659	1,259	1,746	2,862	2,056	-28.2
	Trade balance (million dollars)	806	284	-98	-622	-6	99.1
	Ratio of imports to consumption (percent)	73.5	66.2	68.9	52.9	42.8	-19.1
	Ratio of exports to shipments (percent)	88.1	72.4	67.1	39.8	42.7	7.3
MM091	Electric motors, generators, and related equipment:						
	Number of establishments	510	505	505	500	495	-1.0
	Employees (thousands)	95.0	93.0	95.0	92.0	90.0	-2.2
	Capacity utilization (percent)	75	73	76	72	70	-2.8
	U.S. shipments (million dollars)	19,150	19,020	20,540	18,700	18,000	-3.7
	U.S. exports (million dollars)	3,728	3,748	4,691	3,923	4,031	2.8
	U.S. imports (million dollars)	6,089	6,494	7,646	7,177	6,811	-5.1
	Apparent U.S. consumption (million dollars)	21,512	21,766	23,494	21,955	20,780	-5.3
	Trade balance (million dollars)	-2,362	-2,746	-2,954	-3,255	-2,780	14.6
	Ratio of imports to consumption (percent)	28.3	29.8	32.5	32.7	32.8	(²)
	Ratio of exports to shipments (percent)	19.5	19.7	22.8	21.0	22.4	6.7

Table MT-5—Continued

Machinery sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
MM092	Electrical transformers, static converters, and						
	inductors:						
	Number of establishments	420	415	410	405	400	-1.2
	Employees (thousands)	57.0	55.0	53.0	52.0	50.0	-3.8
	Capacity utilization (percent)	76	73	71	70	· 72	2.9
	U.S. shipments (million dollars)	8,600	8,470	7,625	6,520	6,300	-3.4
	U.S. exports (million dollars)	2,379	2,752	2,436	1,784	1,767	-0.9
	U.S. imports (million dollars)	4,950	6,156	5,134	4,707	4,680	-0.6
	Apparent U.S. consumption (million dollars)	11,171	11,874	10,323	9,443	9,212	-2.4
	Trade balance (million dollars)	-2,571	-3,404	-2,698	-2,923	-2,912	(2)
	Ratio of imports to consumption (percent)	44.3	51.8	49.7	49.8	50.8	2.0
	Ratio of exports to shipments (percent)	27.7	32.5	31.9	27.4	28.1	2.6
MM093	Portable electric handtools:				•		
	Number of establishments	28	27	25	24	21	-12.5
	Employees (thousands)	9.0	9.0	8.0	7.0	5.0	-28.6
	Capacity utilization (percent)	81	83	80	75	70	-6.7
	U.S. shipments (million dollars)	2,280	2,390	2,080	1,950	1,900	-2.6
	U.S. exports (million dollars)	392	359	291	212	191	-9.9
	U.S. imports (million dollars)	992	1,166	1,185	1,434	1,777	24.0
	Apparent U.S. consumption (million dollars)	2,880	3,198	2,974	3,172	3,486	9.9
	Trade balance (million dollars)	-600	-808	-894	-1,222	-1,586	-29.8
	Ratio of imports to consumption (percent)	34.5	36.5	39.8	45.2	51.0	12.8
	Ratio of exports to shipments (percent)	17.2	15.0	14.0	10.9	10.1	-7.3
MM094	Nonelectrically powered handtools and parts thereof:						
	Number of establishments	38	35	30	25	25	0.0
	Employees (thousands)	12.0	13.0	13.0	12.0	11.0	-8.3
	Capacity utilization (percent)	78	77	75	70	68	-2.9
	U.S. shipments (million dollars)	1,878	1,974	1,916	1,840	1,803	-2.0
	U.S. exports (million dollars)	537	563	563	549	578	5.2
	U.S. imports (million dollars)	890	933	901	961	992	3.2
	Apparent U.S. consumption (million dollars)	2,231	2,344	2,254	2,252	2,217	-1.6
	Trade balance (million dollars)	-353	-370	-338	-412	-414	-0.4
	Ratio of imports to consumption (percent)	39.9	39.8	40.0	42.7	44.7	4.7
	Ratio of exports to shipments (percent)	28.6	28.5	29.4	29.8	32.0	7.4
	Ratio of exports to shipments (percent)	28.6	28.5	29.4	29.8	3∠.0	

Table MT-5—Continued

Machinery sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
MM095	Electric lamps (bulbs) and portable electric lights:						
	Number of establishments	120	115	110	105	100	-4.8
	Employees (thousands)	22.0	21.0	20.0	19.0	17.0	-10.5
	Capacity utilization (percent)	70	68	65	64	62	-3.1
	U.S. shipments (million dollars)	3,400	3,500	3,300	3,250	3,100	-4.6
	U.S. exports (million dollars)	894	897	799	750	721	-3.9
	U.S. imports (million dollars)	1,454	1,579	1,785	1,687	1,748	3.6
	Apparent U.S. consumption (million dollars)	3,961	4,182	4,286	4,187	4,128	-1.4
	Trade balance (million dollars)	-561	-682	-986	-937	-1,028	-9.6
	Ratio of imports to consumption (percent)	36.7	37.8	41.7	40.3	42.4	5.2
	Ratio of exports to shipments (percent)	26.3	25.6	24.2	23.1	23.2	(2)
MM096	Welding and soldering equipment:						
	Number of establishments	250	250	240	225	200	-11.1
	Employees (thousands)	18.0	18.0	17.0	16.0	13.0	-18.8
	Capacity utilization (percent)	78	78	77	75	60	-20.0
	U.S. shipments (million dollars)	4,500	4,770	4,250	3,930	3,200	-18.6
	U.S. exports (million dollars)	989	1,050	703	635	618	-2.6
	U.S. imports (million dollars)	702	803	803	761	996	30.9
	Apparent U.S. consumption (million dollars)	4,213	4,523	4,351	4,056	3,578	- 11.8
	Trade balance (million dollars)	287	247	-101	-126	-378	-199.5
	Ratio of imports to consumption (percent)	16.7	17.7	18.5	18.8	27.8	47.9
	Ratio of exports to shipments (percent)	22.0	22.0	16.5	16.2	19.3	19.1
MM097	Nonautomotive insulated electrical wire and related products:						
	Number of establishments	525	520	500	490	475	-3.1
	Employees (thousands)	91.0	90.0	85.0	83.0	79.0	-4.8
	Capacity utilization (percent)	80	78	73	71	69	-2.8
	U.S. shipments (million dollars)	16,750	17,500	15,000	13,380	12,850	-4.0
	U.S. exports (million dollars)	3,102	4,040	3,286	2,856	2,660	-6.9
	U.S. imports (million dollars)	3,078	3,566	3,203	3,076	3,208	4.3
	Apparent U.S. consumption (million dollars)	16,726	17,026	14,917	13,600	13,398	-1.5
	Trade balance (million dollars)	24	474	83	-220	-548	-149.0
	Ratio of imports to consumption (percent)	18.4	20.9	21.5	22.6	23.9	5.8
	Ratio of exports to shipments (percent)	18.5	23.1	21.9	21.3	20.7	-2.8

Table MT-5—Continued

Machinery sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
MM099	Molds and molding machinery:						
	Number of establishments	120	120	120	120	115	-4.2
	Employees (thousands)	8.0	. 8.0	8.0	8.0	8.0	0.0
	Capacity utilization (percent)	(¹)	(¹)	(¹)	(¹)	(¹)	(1)
	U.S. shipments (million dollars)	5,233	5,929	5,001	4,486	4,396	-2.0
	U.S. exports (million dollars)	1,879	2,129	1,791	1,605	1,550	-3.4
	U.S. imports (million dollars)	3,723	3,613	2,803	2,969	3,262	9.9
	Apparent U.S. consumption (million dollars)	7,077	7,413	6,013	5,849	6,108	. 4.4
	Trade balance (million dollars)	-1,844	-1,484	-1,012	-1,363	-1,712	-25.6
	Ratio of imports to consumption (percent)	52.6	48.7	46.6	50.8	53.4	5.1
	Ratio of exports to shipments (percent)	35.9	35.9	35.8	35.8	35.3	-1.4

¹Not available.

Note.-Calculations based on unrounded data.

Source: These data have been estimated by the Commission's international trade analysts on the basis of primary and secondary data sources including discussions with various Government and industry contacts. These estimated data are subject to change either from secondary sources or from detailed surveys the Commission often conducts in the course of statutory investigations or other work. Further, these data may undergo adjustments based on revisions in tariff nomenclature, classification practices, or redefinitions of industry classes.

²Less than 0.05 percent.

³Not meaningful.

Transportation Equipment

Laura Polly, Coordinator (202) 205-3408 laura.polly@usitc.gov

Change in 2003 from 2002:

U.S. trade deficit: Increased by \$6.8 billion (8 percent) to \$89.3 billion U.S. exports: Decreased by \$1.7 billion (1 percent) to \$142.9 billion U.S. imports: Increased by \$5.1 billion (2 percent) to \$232.2 billion

The transportation equipment trade deficit increased over 8 percent in 2003, and the sectors that contributed significantly to this shift include motor vehicle parts, aircraft, and internal combustion engines (see tables TE-1 and TE-2). U.S. imports of motor vehicles increased in 2003, but were offset by increased exports; therefore, the deficit in motor vehicles decreased slightly in 2003 (see Motor Vehicles). A decline in U.S. aircraft exports reflected the depressed demand for air travel and the poor financial condition of many of the world's airlines (see Aircraft, Spacecraft, and Related Equipment). Trade shifts in the motor-vehicle parts and engine sectors are reflective of the U.S. and foreign automotive firms' global production and sourcing strategies (see Certain Motor-Vehicle Parts and Internal Combustion Engines, Other Than For Aircraft).

Canada continued to be the largest bilateral trading partner in transportation equipment, accounting for 29 percent of U.S. transportation equipment imports and 34 percent of U.S. transportation equipment exports in 2003 (see table TE-1). The automotive industries in the United States and Canada are highly integrated, leading to large volumes of two-way trade in motor vehicles and motor-vehicle parts. Japan and Mexico are also leading U.S. trading partners in transportation equipment. Japan is a leading motor vehicle and motor-vehicle parts producer; U.S. demand for vehicles from Japan, as well as demand for Japanese motor-vehicle parts for use in vehicle assembly in the United States by "transplants" from Japan, accounts for a significant portion of transportation equipment trade with Japan. Over the last decade, Mexico has grown both as a global automotive producer and as a U.S. trading partner in the automotive sector.

During 1999-2003, U.S. transportation equipment imports from Korea grew by an average annual rate of 25 percent. Imports of motor vehicles displayed a similar trend during the period, growing by an average annual rate of 29 percent. Moreover, motor vehicles as a percentage of transportation equipment imports from Korea grew from 71 percent in 1999 to 80 percent in 2003. Quality improvements and competitive pricing have helped Korean automakers increase their share of the U.S. passenger vehicle market.

Table TE-1

Transportation equipment: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1999-2003¹

					<u> </u>	Change, 200	3 from 2002
Item	1999	2000	2001	2002	2003	Absolute	Percent
			— Million doll	ars ———			
U.S. exports of domestic merchandise: Canada Japan Mexico Germany United Kingdom Korea France China Brazil	48,155060 11,55060 11,55060 12,5784 5,7883 22,7	47755 3828357 1668257648 252525	4.647.7 2.859.453.2 1.7.7.25.7 1.5.7.1.855.7 1.5.7.1.855.7 1.5.7.1.855.7 1.5.7.1.855.7 1.5.7.1.855.7	46,733 8,7999 14,5241 6,9670 63,042 4,116 4,116	48,568 48,402 13,725 7,9526 2,5809 4,745 2,745 2,745 3	1,835 -798 -7971 -555 -1,754 -658	37,590 -53,905,005 -109,21,7 -21,605,005
Italy All other Total EU-15 OPEC Latin America CBERA Asia Sub-Saharan Africa Central and Eastern Europe	1,869 45,117 145,716 36,792 7,510 19,980 1,709 22,938 1,695 427	41,416 143,393 34,148 5,750 23,446 1,916 20,726 1,796 450	43,789 144,325 33,844 5,832 23,859 1,473 24,123 2,856 523	2,903 41,903 144,655 31,778 5,641 22,226 1,756 25,073 1,877 389	20,759 142,948 32,237 4,769 20,303 1,700 24,576 2,284 751	-1,144 -1,707 459 -872 -1,922 -1,922 -56 -497 408 363	-2.7 -1.2 1.4 -15.5 -8.6 -3.2 -2.0 21.7 93.3
U.S. imports of merchandise for consumption: Canada Japan Mexico Germany United Kingdom Korea France China Brazil Italy All other	68,517 49,425 24,798 21,225 9,681 4,093 7,800 1,220 2,475 2,076 12,249	69,296 54,226 31,373 22,973 9,408 6,152 9,696 1,991 2,727 2,230 13,169	64, 781 52, 200 31, 046 23, 916 9, 831 7, 810 10, 437 1, 773 3, 463 2, 388 14, 264	65,462 55,583 31,117 24,978 10,147 8,282 9,161 2,302 3,739 2,395 13,980	66,727 53,274 30,664 27,346 10,485 9,836 7,941 3,072 3,877 2,425 16,567	1, 265 -2,309 -453 2,368 337 1,554 -1,221 769 138 30 2,587	1.9 -4.2 -1.5 9.5 3.8 -13.3 33.4 1.3 18.5
Total EU-15 OPEC Latin America CBERA Asia Sub-Saharan Africa Central and Eastern Europe	203,560 47,863 350 27,602 50 57,097 201 397	223,242 51,499 355 34,465 58 64,947 185 609	221,907 54,414 339 34,821 60 64,395 399 799	227,147 53,599 344 35,223 70 69,115 621 842	232,212 56,103 501 34,929 69 69,476 823 1,769	5,065 2,504 157 -294 -1 361 202 927	2.2 4.7 45.6 -0.8 -2.0 0.5 32.6 110.1

Table TE-1--Continued
Transportation equipment: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1999-2003¹

						Change, 2003 from 2003	
Item	1999	2000	2001	2002	2003	Absolute	Percent
-			— Million dolla	ars ———			
U.S. merchandise trade balance: Canada Japan Mexico Germany United Kingdom Korea France China Brazil Italy All other	-20,385 -40,968 -13,210 -14,710 -621 -1,428 -2,100 1,668 8 -207 32,869	-20,908 -46,400 -16,088 -16,039 -451 -3,182 -4,531 377 -116 -756 28,247	-20,574 -45,388 -16,093 -16,464 -597 -4,300 -4,677 1,425 392 -833 29,526	-18,730 -47,484 -16,593 -18,017 -3,177 -4,918 -3,119 1,990 -623 256 27,923	-18,159 -44,872 -16,939 -19,414 -2,958 -7,027 -3,652 686 -1,419 297 24,192	571 2,612 -345 -1,397 219 -2,109 -533 -1,304 -796 41 -3,731	3.0 5.5 -2.1 -7.8 6.9 -42.9 -17.1 -65.5 -127.8 16.2 -13.4
Total EU-15 OPEC Latin America CBERA Asia Sub-Saharan Africa Central and Eastern Europe	-57,843 -11,072 7,160 -7,622 -1,659 -34,159 1,494	-79,849 -17,350 5,394 -11,019 1,858 -44,221 1,610 -159	-77,583 -20,570 5,492 -10,961 1,414 -40,272 2,457 -276	-82,492 -21,820 5,297 -12,997 -1,686 -44,042 1,256 -453	-89,264 -23,866 4,269 -14,625 -1,631 -44,900 1,461 -1,017	-6,772 -2,045 -1,029 -1,628 -55 -857 206 -564	-8.2 -9.4 -19.5 -12.5 -3.3 -1.9 16.4 -124.6

¹Import values are based on customs value; export values are based on f.a.s. value, U.S. port of export.

Note.—Calculations based on unrounded data. The countries shown are those with the largest total U.S. trade (U.S. imports plus exports) in these products in 2003

Table TE-2 Leading changes in U.S. exports and imports of transportation equipment, 1999-2003

						Change, 200	3 from 2002
Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent
			Million o	dollars ———			
U.S. EXPORTS:							
Increases: Motor vehicles (ET009)	22,116	22,865	22,651	26,209	29,379	3,170	12.1
Miscellaneous vehicles and transportation-related	22,110	22,000	22,001	20,200	20,010	0,170	12.1
equipment (ET012)	2,759	2,939	2,658	2,725	3,187	462	16.9
Rail locomotive and rolling stock (ET008)	1,558	1,336	1,422	1,006	1,386	381	37.8
Decreases: Aircraft, spacecraft, and related equipment (ET013)	47,762	39,696	42,535	41,447	37,835	-3,612	-8.7
All other	71,521	76,557	75,059	73,268	71,160	-2,107	-2.9
TOTAL	145,716	143,393	144,325	144,655	142,948	-1,707	-1.2
	140,710	140,000	144,020	144,000	142,540	-1,707	1.2
U.S. IMPORTS:		4					
Increases:	22,615	25.011	23,977	27,761	30,897	3,135	11.3
Certain motor-vehicle parts (ET010)	22,015	25,011	23,911	27,701	30,091	3,133	11.5
aircraft (ET002)	14,052	15,532	13,657	14,841	16,250	1,409	9.5
Ships, tugs, pleasure boats, and similar vessels	•	ŕ	•	,	,	•	
(ET014)	1,246	1,223	1,411	1,413	1,932	519	36.8
Decreases:	10 220	10.020	12 5 40	10.993	0 024	-2,159	-19.6
Aircraft engines and gas turbines (ET001)	10,328 155,319	10,939 170,537	13,548 169,315	172,139	8,834 174,300	-2,159 2,161	1.3
	100,010	170,007	100,010	172,100	17-7,000	۷,۱۰۱	
TOTAL	203,560	223,242	221,907	227,147	232,212	5,065	2.2

Note.-Calculations based on unrounded data.

COMMODITY ANALYSIS

Aircraft, Spacecraft, and Related Equipment

Change in 2003 from 2002:

U.S. trade surplus: Decreased by \$2.9 billion (12 percent) to \$20.9 billion
U.S. exports: Decreased by \$3.6 billion (9 percent) to \$37.8 billion
U.S. imports: Decreased by \$726 million (4 percent) to \$16.9 billion

The U.S. trade surplus for aircraft, spacecraft, and related equipment declined primarily because of a sharp decline in U.S. exports. Decreased exports reflected diminished demand in certain markets for large civil aircraft (LCA). This reduced demand is attributable to the poor financial condition of the world's airlines, owing in part to the decrease in passenger air traffic. The decrease in passenger loads is owing to several factors including concerns over terrorism and contagious diseases such as Severe Acute Respiratory Syndrome and avian influenza. Over the past 5 years, the U.S. trade surplus has fluctuated downward as the market for LCA and parts, the principal goods in this trade, contracted because of the aforementioned concerns as well as increased U.S. imports of foreign LCA.

U.S. exports

U.S. exports of aircraft, spacecraft, and related equipment to Canada, China, and the EU fell in 2003, largely owing to the reduced need for new LCA, given the wide availability of used aircraft¹ and sustained lack of passenger demand for air travel. Taken together, U.S. exports to these markets declined by \$1.6 billion (to \$15.8 billion) and represented 42 percent of all such U.S. exports. The EU accounted for \$11.9 billion, about three-fourths of the total exports to these nations. However, Japan and Mexico increased their consumption of these U.S. goods in 2003 by \$989 million and \$283 million, respectively. The principal exports to Japan and Mexico were LCA; LCA shipments to Japan increased by \$1.1 billion (to \$2.5 billion), while Mexico imported an additional \$266 million worth of LCA, an increase of 885 percent.² Japan purchased some of these aircraft to replace their McDonnell Douglas MD11s, while Mexico's new aircraft will replace some of their aging DC9s.

Peder Andersen (202) 205-3388 peder.andersen@usitc.gov

¹ As of December 14, 2003, there were 2,093 LCA in storage. Byron Callan, *Commercial Aerospace: Latest Parked Fleet Data - Still Stagnant* (New York: Merrill Lynch, Mar. 19, 2004), p. 3.

² Japan accepted 17 new Boeing aircraft, while Mexico took delivery of 5 aircraft. Boeing Commercial Airplanes Orders and Deliveries, found at http://active.boeing.com/commercial/orders/, retrieved Mar. 29, 2004.

Aircraft Engines, Other Gas Turbines, and Parts Thereof

Change in 2003 from 2002:

U.S. trade surplus: Increased by \$1.4 billion (31 percent) to \$5.9 billion U.S. exports: Decreased by \$757 million (5 percent) to \$14.7 billion U.S. imports: Decreased by \$2.2 billion (20 percent) to \$8.8 billion

In 2003, the U.S. trade surplus in aircraft engines, other gas turbines, and parts increased because of a steep decline in all U.S. imports of aircraft turbine engine parts and large turbojet engines for aircraft. In addition to reduced U.S. shipments of large civil aircraft (LCA), the principal market for large turbojet engines, the active U.S. fleet has shrunk;³ therefore, maintenance needs have declined, resulting in diminished demand for parts. Over the past 5 years, the U.S. trade surplus for aircraft engines, other gas turbines, and parts fluctuated for several reasons. First, rising production of foreign LCA increased sales and exports of U.S.-made engines. Second, declining fleet usage for airlines throughout the world led to a reduced demand for new engines. Finally, the decline in U.S. production of LCA reduced demand for both domestic- and foreign-built engines.

U.S. imports

Canada, China, Japan, Mexico, and the EU accounted for \$8 billion (91 percent) of all U.S. imports of aircraft engines, other gas turbines, and parts; imports from these countries declined by \$2.1 billion (21 percent) from 2002. In 2003, the largest dollar decline occurred between the EU and the United States and, as a result, bilateral trade between these partners declined by \$1.5 billion (21 percent) to \$5.6 billion. This decline is largely attributable to a significant drop in U.S. imports of large turbojet engines and parts for such engines from the EU, mirroring the decline in production of U.S. LCA. In addition, trade in used aircraft parts and engines may have also affected overall U.S. demand for imported engines and parts.

Peder Andersen (202) 205-3388 peder.andersen@usitc.gov

³ The number of passenger jet aircraft is estimated to have decreased by 120 in 2003. *FAA Aerospace Forecasts, Fiscal Years 2004-2015* (Washington, DC: U.S. Department of Transportation, Federal Aviation Administration, Mar. 2004), p. III-51.

⁴ U.S. imports from subject countries amounted to \$10.1 billion in 2002. Compiled from official statistics of the U.S. Department of Commerce.

Motor Vehicles⁵

Change in 2003 from 2002:

U.S. trade deficit: Decreased by \$2.1 billion (2 percent) to \$104.9 billion U.S. exports: Increased by \$3.2 billion (12 percent) to \$29.4 billion U.S. imports: Increased by \$1.0 billion (0.8 percent) to \$134.3 billion

The U.S. trade deficit in motor vehicles was reduced in 2003, entirely owing to the 12-percent increase in U.S. exports.⁶ However, U.S. motor vehicle production declined nearly 2 percent in 2003,⁷ and U.S. vehicle sales declined 1 percent.⁸ The most notable deficit decreases were with Canada and Japan whereas the deficit with the EU increased, despite a sizeable increase in U.S. vehicle exports to the EU. Motor vehicle exports showed steady growth during the 5-year period 1999-2003, aside from a slight decrease in 2001. Markets to which U.S. automakers expanded exports included Canada, Germany, Mexico, and more recently, the United Kingdom. However, the deficit fluctuated upward during 1999-2003, beginning the period at \$97.6 billion and reaching \$104.9 billion in 2003, as imports also followed an increasing 5-year trend particularly for popular nameplates from Germany, Korea, and the United Kingdom.

U.S. exports

U.S. exports of motor vehicles continued to register an increase in 2003, of which Canada, the leading market for U.S. exports of motor vehicles, accounted for 59 percent of the growth in value fo these exports. Although the value of U.S. exports to Canada increased 11 percent in 2003, the quantity of vehicle exports to Canada decreased 10 percent, indicating that fewer but more expensive vehicles were exported to Canada in 2003. In fact, sales of passenger vehicles in Canada declined by nearly 7 percent in 2003. The U.S. Big Three automakers (General Motors, Ford, and the Chrysler Division of DaimlerChrysler), combined, registered an 11-percent decline in Canadian market share by value, while Japanese automakers with production facilities in the United States increased their share. The luxury vehicle segment is one of the fastest growing segments of the Canadian passenger car and light truck markets, and Japanese nameplate vehicles have the highest customer satisfaction and loyalty ratings. U.S. motor vehicle exports to the second-leading market, the EU, accounted for 18 percent of the total. Exports to the EU increased 41 percent in 2003, with Germany accounting for 72 percent of these exports. These exports are largely shipments of Mercedes-Benz and BMW models that are produced only in the United States.

Laura Polly (202) 205-3408 laura.polly@usitc.gov

⁵ This industry group includes passenger vehicles, trucks, and buses.

⁶ Imports increased by a modest 0.8 percent in 2003.

⁷ Ward's Automotive Reports, Jan. 12, 2004, p. 8.

⁸ Automotive News, Jan. 12, 2004, p. 51.

⁹ Bob English, "Incentives couldn't help Canada sales in 2003," Automotive News, Jan. 19, 2004, p. 42.

¹⁰ Dennis DesRosiers, "Emerging Trends in the Automotive Sector," *Observations 2003*, vol. 17, issue 09, May 15, 2003, found at *http://www.desrosiers.ca/*, retrieved Apr. 21, 2004.

Ward's Automotive Yearbook 2003 (Southfield, MI: Ward's Communications, 2003), pp. 167 and 190.

Internal Combustion Piston Engines, Other Than for Aircraft

Change in 2003 from 2002:

U.S. trade deficit: Increased by \$1.7 billion (98 percent) to \$3.5 billion U.S. exports: Decreased by \$329 million (3 percent) to \$12.7 billion U.S. imports: Increased by \$1.4 billion (10 percent) to \$16.3 billion

The trade deficit in motor-vehicle engines and related components nearly doubled to \$3.5 billion in 2003, in part as the result of increased foreign sourcing by U.S.-based vehicle producers from related operations. Similar to the larger automotive industry, trade shifts in the engine sector often reflect U.S. and foreign automotive firms' global production/sourcing strategies, intracompany shipments, vehicle model changes, and increased internationalization of the industry. Extensive U.S. industry linkages with counterparts in Canada, Mexico, Japan, and Germany contribute to their dominance of sector trade. These four countries accounted for 84 percent (\$13.6 billion) of U.S. imports and 74 percent (\$9.5 billion) of U.S. exports in 2003.

The NAFTA created a highly integrated North American motor vehicle industry, with NAFTA partners Canada and Mexico consistently ranking as leading U.S. trade partners. During 2002-03, U.S. imports of engines and related parts from Canada increased nearly 10 percent to \$3.8 billion, and imports from Mexico increased 15 percent to \$3.0 billion. Expansions of engine facilities in Canada by Ford¹² and increased sourcing of engine parts from Mexico, ¹³ for example, have contributed to this import increase. The sourcing of engines and related parts from facilities in Japan for the growing U.S. motor vehicle and engine output of Japanese transplants is one of the principal factors contributing to Japan's role as a leading trade partner in these products. Increased collaboration among U.S. vehicle makers in the development and production of motor-vehicle engines has also impacted bilateral trade in these products. U.S. imports from Japan remained fairly stable during the period, totaling nearly \$5 billion in 2003. The growth in sector imports from Germany is largely attributable to the increase in the number of models produced at U.S. vehicle assembly plants owned by BMW and Mercedes-Benz, which source engines from their operations in Germany. U.S. imports from Germany rose 13 percent in 2003 to \$1.8 billion.

Deborah A. McNay (202) 205-3425 deborah.mcnay@usitc.gov

¹² "Ford V-8 Production Not Letting Up," Ward's Automotive Reports, May 8, 2003, p. 2.

¹³ "Metaldyne Open to Low-Volume Engine Job," Ward's Automotive Reports, Feb. 3, 2003, p. 7.

Certain Motor-Vehicle Parts14

Change in 2003 from 2002:

U.S. trade deficit: Increased by \$4.2 billion (375 percent) to \$5.3 billion
U.S. exports: Decreased by \$1.0 billion (4 percent) to \$25.6 billion
U.S. imports: Increased by \$3.1 billion (11 percent) to \$30.9 billion

The trade deficit in certain motor-vehicle parts nearly quintupled to \$5.3 billion in 2003, as imports from leading suppliers with strong links to the U.S.-based motor-vehicle industry experienced further growth. The NAFTA continues to facilitate motor-vehicle parts trade within the North American industry, which in 2003 reported a 3-percent decline in motor vehicle production to 16.3 million units, following a 5-percent rise in vehicle production in 2002. Producers in Canada and Mexico manufacture a wide variety of vehicle components that not only incorporate significant U.S. content, but are often used in the assembly of U.S.-made vehicles, contributing to large bilateral trade flows with the United States. Japan and Germany remain leading trade partners in vehicle components, in part because of the numerous Japanese and German transplants that incorporate motor-vehicle parts from their home supplier networks in their U.S.-produced motor vehicles.

U.S. imports

The 11-percent increase in U.S. imports of motor-vehicle parts in 2003 was led by growth in miscellaneous motor-vehicle body parts (up 14 percent to \$6.4 billion), miscellaneous motor-vehicle parts (up 14 percent to \$5.0 billion), and gear boxes for passenger vehicles (up 12 percent to \$3.2 billion). Canada, Mexico, Japan, and Germany, which accounted for 80 percent of total U.S. imports of motor-vehicle parts, were the leading suppliers to the U.S. market.

NAFTA partners Canada and Mexico accounted for 52 percent of total U.S. imports of motorvehicle parts in 2003, reflecting their critical role in the highly integrated North American automotive industry. U.S. imports from Canada increased 9 percent to \$10.6 billion during 2002-03, despite a stronger Canadian dollar. The motor-vehicle parts industry in Canada reportedly benefits from an emphasis on the manufacture of value-added components and a decade of investments in equipment and technology focused on productivity improvements, ¹⁶ as well as a 15-percent labor-cost advantage over its U.S. counterpart. ¹⁷ Imports from Mexico rose at a slower rate of 7 percent during the same period, to \$5.5 billion. According to industry sources, the continued depreciation of the Mexican peso compared with the U.S. dollar in 2003, and increased demand for replacement parts, boosted U.S. imports from Mexico. ¹⁸ Imports from Japan, the second leading supplier of U.S. motor-vehicle components with 23 percent of imports, increased 12 percent to \$7.1 billion. The large base of transplant producers from Japan in the United States manufacturing a greater volume of motor vehicles, increased efforts by component producers in Japan to diversify their customer base, and the relatively weak yen in 2003 contributed to the growth in the level of imports from Japan. The growth of U.S. imports from Germany,

¹⁴ This commodity group includes body stampings, bumpers, brakes and parts, gear boxes, axles, wheels, shock absorbers, radiators, exhaust systems, clutches, steering wheels, and miscellaneous parts and accessories.

¹⁵ "North America Car and Truck Production," found at http://www.autonews.com/images/dataCenter/1972.pdf, retrieved Mar. 10, 2004.

¹⁶ "Canadian Auto Report," Scotia Economics, Feb. 27, 2004, found at http://www.scotiabank.com, retrieved Mar. 10, 2004.

¹⁷ AutoBriefs, Mar. 5, 2004, electronic newspaper published by KPMG Corporate Finance Inc., p. 1.

¹⁸ "Mexico's Auto Parts Exports to Get Boost From Weak Peso," The AutoParts Report, Mar. 19, 2003, p. 4.

which increased 31 percent to \$1.6 billion in 2003, reflects sourcing from component suppliers in Germany for the expanding U.S.-based vehicle assembly plants of BMW and Mercedes-Benz.

Deborah A. McNay (202) 205-3425 deborah.mcnay@usitc.gov

Table TE-3
Transportation equipment: U.S. trade for industry/commodity groups and subgroups, 1999-2003¹

USITC							Change, 200	03 from 2002
code ²	Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent
ET001	Aircraft engines and gas turbines:			Millio	on dollars ——			
ET002	Exports Imports Trade balance Internal combustion piston engines, other than for	10,328	15,011 10,939 4,072	16,524 13,548 2,976	15,498 10,993 4,505	14,742 8,834 5,907	-757 -2,159 1,402	-4.9 -19.6 31.1
ET003	aircraft: Exports Imports Trade balance Forklift trucks and similar industrial vehicles:	14,052	13,808 15,532 -1,724	12,408 13,657 -1,249	13,069 14,841 -1,771	12,741 16,250 -3,509	-329 1,409 -1,738	-2.5 9.5 -98.1
ET004	Exports Imports Trade balance Construction and mining equipment	1,243 1,527 -284	1,332 1,668 -337	1,341 1,423 -82	1,090 1,266 -176	1,028 1,408 -381	-62 142 -205	-5.7 11.2 -116.1
ET005	Exports	8,646 5,919 2,727	9,507 5,643 3,864	9,903 5,260 4,643	9,504 5,302 4,202	9,461 5,904 3,557	-43 602 -645	-0.4 11.4 -15.3
ET006	Exports	1,098 1,622 -524	1,242 1,804 -562	1,197 1,579 -381	1,249 1,598 -349	1,320 1,680 -360	71 82 -11	5.7 5.1 -3.1
ET007	batteries: Exports Imports Trade balance Ignition, starting, lighting, and other electrical		2,655 2,656 -1	2,270 2,342 -72	1,807 2,196 -389	1,786 2,175 -389	-21 -21 (³)	-1.1 -0.9 (⁴)
ET008	equipment: Exports Imports Trade balance Rail locomotive and rolling stock:	1,947 2,817 -870	1,986 3,076 -1,090	1,824 3,052 -1,228	1,894 3,467 -1,574	1,822 3,858 -2,036	-72 391 -462	-3.8 11.3 -29.4
ET009	ExportsImportsTrade balance	1,558 2,307 -749	1,336 1,828 -492	1,422 1,357 65	1,006 1,039 -33	1,386 1,105 282	381 65 315	37.8 6.3 (⁵)
	Motor vehicles: Exports Imports Trade balance	119.675	22,865 129,568 -106,703	22,651 127,257 -104,606	26,209 133,264 -107,054	29,379 134,286 -104,907	3,170 1,022 2,148	12.1 0.8 2.0
ET010	Certain motor-vehicle parts: Exports Imports Trade balance	22,615	28,917 25,011 3,907	26,521 23,977 2,544	26,651 27,761 -1,110	25,625 30,897 -5,272	-1,027 3,135 -4,162	-3.9 11.3 -374.9
ET011	Motorcycles, mopeds, and parts: Exports Imports Trade balance	468 1,755 -1,287	563 2,519 -1,956	742 2,870 -2,128	793 2,927 -2,134	864 3,213 -2,349	71 286 -216	8.9 9.8 -10.1

Table TE-3--Continued Transportation equipment: U.S. trade for industry/commodity groups and subgroups, 1999-2003¹

USITC							Change, 200	3 from 2002
code ²	Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent
				Million	dollars ———			
ET012	Miscellaneous vehicles and transportation-related equipment:							
ET04.2	Exports Imports Trade balance Aircraft, spacecraft, and related equipment:	2,759 2,056 703	2,939 2,982 -43	2,658 2,364 293	2,725 2,744 -19	3,187 2,926 261	462 182 279	16.9 6.6 (⁵)
ET013	Exports Imports Trade balance	47,762 14,592	39,696 18,019 21,677	42,535 21,027 21,508	41,447 17,636 23,811	37,835 16,910 20,924	-3,612 -726 -2,886	-8.7 -4.1 -12.1
ET014	Ships, tugs, pleasure boats, and similar vessels: Exports Imports Trade balance	1,682	1,083 1,223 -140	1,820 1,411 410	1,234 1,413 -179	1,195 1,932 -736	-39 519 -558	-3.1 36.8 -312.3
ET015	Motors and engines, except internal combustion, aircraft, or electric: Exports Imports Trade balance	394 658 -264	453 772 -319	508 784 -276	479 700 -221	578 834 -256	99 134 -35	20.7 19.1 -15.8

Note.—Calculations based on unrounded data.

¹Import values are based on customs value; export values are based on f.a.s. value, U.S. port of export.

²This coding system is used by the U.S. International Trade Commission to identify major groupings and subgroupings of HTS import and export items for trade monitoring purposes

³Less than \$500,000.

⁴Less than 0.05 percent.

⁵Not meaningful for purposes of comparison.

Table TE-4
Transportation equipment sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

	ndustry/commodity group Aircraft engines and gas turbines: Number of establishments	1999	2000	2001	2002	2003	
ET001	Number of establishments					2000	2003 from 2002
		28	28	27	27	25	-7.4
	Employees (thousands)	110.0	103.0	109.0	99.0	94.0	-5.1
	Capacity utilization (percent)	(¹)	(¹)	80	75	75	'0.0
	U.S. shipments (million dollars)	26,642	29,226	35,051	45,000	40,996	-8.9
	U.S. exports (million dollars)	14,218	15,011	16,524	15,498	14,742	-4.9
	U.S. imports (million dollars)	10,328	10,939	13,548	10,993	8,834	-19.6
	Apparent U.S. consumption (million dollars)	22,753	25,154	32,075	40,495	35,089	-13.3
	Trade balance (million dollars)	3,889	4,072	2,976	4,505	5,907	31.1
	Ratio of imports to consumption (percent)	45.4	43.5	42.2	27.1	25.2	-7.0
	Ratio of exports to shipments (percent)	53.4	51.4	47.1	34.4	36.0	4.7
ET002	Internal combustion piston engines, other than for aircraft:						
	Number of establishments	1,500	1,500	1,450	1,450	1,450	0.0
	Employees (thousands)	157.0	157.0	156.0	155.0	150.0	-3.2
	Capacity utilization (percent)	83	75	75	78	(²)	(²)
	U.S. shipments (million dollars)	54,000	54,000	48,000	50,500	49,000	-3.0
	U.S. exports (million dollars)	12,522	13,808	12,408	13,069	12,741	-2.5
	U.S. imports (million dollars)	14,052	15,532	13,657	14,841	16,250	9.5
	Apparent U.S. consumption (million dollars)	55,530	55,724	49,249	52,271	52,509	0.5
	Trade balance (million dollars)	-1,530	-1,724	-1,249	-1,771	-3,509	-98.1
	Ratio of imports to consumption (percent)	25.3	27.9	27.7	28.4	30.9	8.8
	Ratio of exports to shipments (percent)	23.2	25.6	25.9	25.9	26.0	(³)
ET003	Forklift trucks and similar industrial vehicles:						, ,
	Number of establishments	453	451	451	450	448	-0.4
	Employees (thousands)	27.0	26.0	26.0	25.0	24.0	-4.0
	Capacity utilization (percent)	67	64	60	60	58	-3.3
	U.S. shipments (million dollars)	5,155	5,493	4.763	4,525	4,072	-10.0
	U.S. exports (million dollars)	1,243	1,332	1,341	1,090	1,028	-5.7
	U.S. imports (million dollars)	1,527	1,668	1,423	1,266	1,408	11.2
	Apparent U.S. consumption (million dollars)	5,439	5,830	4,845	4,701	4,453	-5.3
	Trade balance (million dollars)	-284	-337	-82	-176	-381	-116.1
	Ratio of imports to consumption (percent)	28.1	28.6	29.4	26.9	31.6	17.5
	Ratio of exports to shipments (percent)	24.1	24.2	28.2	24.1	25.2	4.6

Table TE-4—Continued
Transportation equipment sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
ET004		1555	2000	2001	2002	2000	2000 110111 2002
E1004	Construction and mining equipment: Number of establishments	1,664	1,667	1,655	1,655	1,650	-0.3
	Employees (thousands)	1,004	1,007	130.0	130.0	1,050	-0.3 -1.5
	Capacity utilization (percent)	63	61	59	130.0 58	57	-1.3 -1.7
			26,112			21,520	-10.0
	U.S. shipments (million dollars) U.S. exports (million dollars)	25,783 8,646	9,507	25,169 9,903	23,911 9,504	9,461	-10.0
	U.S. imports (million dollars)	5,919	5,643	9,903 5,260	5,30 4 5,302	5,904	11.4
					19,709	17,963	-8.9
	Apparent U.S. consumption (million dollars)	23,056 2,727	22,248 3,864	20,526 4,643	4,202	3,557	-15.3
	Trade balance (million dollars)	•	•	4,643 25.6	4,202 26.9	32.9	22.3
	Ratio of imports to consumption (percent)	25.7	25.4		26.9 39.7	32.9 44.0	10.8
ET005	Ratio of exports to shipments (percent)	33.5	36.4	39.3	39.7	44.0	10.0
E 1005	Ball and rollers bearings:	400	400	102	1 01	181	0.0
	Number of establishments	183	183	183	181	35.0	0.0
	Employees (thousands)	37.0	36.0 73	36.0 74	35.0 62	35.0 64	3.2
	Capacity utilization (percent)	80			-		5.0
	U.S. shipments (million dollars)	6,331	6,500	5,766	5,881	6,175	5.7
	U.S. exports (million dollars)	1,098	1,242	1,197	1,249	1,320	5. <i>1</i> 5.1
	U.S. imports (million dollars)	1,622	1,804	1,579	1,598	1,680	
	Apparent U.S. consumption (million dollars)	6,855	7,062	6,147	6,230	6,535	4.9
	Trade balance (million dollars)	-524	-562	-381	-349	-360	-3.1
	Ratio of imports to consumption (percent)	23.7	25.5	25.7	25.6	25.7	(³)
	Ratio of exports to shipments (percent)	17.3	19.1	20.8	21.2	21.4	0.9
ET006	Primary cells and batteries and electric storage batteries:						
	Number of establishments	180	180	170	165	165	0.0
	Employees (thousands)	32.0	32.0	30.0	28.0	28.0	0.0
	Capacity utilization (percent)	81	71	71	. 75	(²)	(²)
	U.S. shipments (million dollars)	7,600	7,800	7,000	7,350	7,100	-3.4
	U.S. exports (million dollars)	2,307	2,655	2,270	1,807	1,786	-1.1
	U.S. imports (million dollars)	2,392	2,656	2,342	2,196	2,175	-0.9
	Apparent U.S. consumption (million dollars)	7,684	7,801	7,072	7,739	7,489	-3.2
	Trade balance (million dollars)	-84	-1	-72	-389	-389	0.0
	Ratio of imports to consumption (percent)	31.1	34.0	33.1	28.4	29.0	2.1
	Ratio of exports to shipments (percent)	30.4	34.0	32.4	24.6	25.2	2.4

Table TE-4—Continued
Transportation equipment sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC							Percent change,
code	Industry/commodity group	1999	2000	2001	2002	2003	2003 from 2002
ET007	Ignition, starting, lighting, and other electrical						
	equipment						
	Number of establishments	700	700	670	670	670	0.0
	Employees (thousands)	77.0	80.0	80.0	80.0	80.0	0.0
	Capacity utilization (percent)	79	73	73	75	(²)	(²)
	U.S. shipments (million dollars)	17,600	17,500	15,600	16,400	15,900	-3.0
	U.S. exports (million dollars)	1,947	1,986	1,824	1,894	1,822	-3.8
	U.S. imports (million dollars)	2,817	3,076	3,052	3,467	3,858	11.3
	Apparent U.S. consumption (million dollars)	18,470	18,590	16,828	17,974	17,936	-0.2
	Trade balance (million dollars)	-870	-1,090	-1,228	-1,574	-2,036	-29.4
	Ratio of imports to consumption (percent)	15.3	16.5	18.1	19.3	21.5	11.4
	Ratio of exports to shipments (percent)	11.1	11.3	11.7	11.5	11.5	0.0
ET008	Rail locomotive and rolling stock:						
	Number of establishments	190	190	180	180	180	0.0
	Employees (thousands)	32.0	30.0	26.0	27.0	27.0	0.0
	Capacity utilization (percent)	76	69	65	65	70	7.7
	U.S. shipments (million dollars)	7,600	7,400	4,500	4,500	4,700	4.4
	U.S. exports (million dollars)	1,558	1,336	1,422	1,006	1,386	37.8
	U.S. imports (million dollars)	2,307	1,828	1,357	1,039	1,105	6.3
	Apparent U.S. consumption (million dollars)	8,349	7,892	4,435	4,533	4,418	-2.5
	Trade balance (million dollars)	-749	-492	65	-33	282	(4)
	Ratio of imports to consumption (percent)	27.6	23.2	30.6	22.9	25.0	9.2
	Ratio of exports to shipments (percent)	20.5	18.0	31.6	22.4	29.5	31.7
ET009	Motor vehicles:						
	Number of establishments	1,290	1,295	1,300	1,305	1,307	(³)
	Employees (thousands)	291.0	291.0	279.0	265.0	275.0	3.8
	Capacity utilization (percent)	96	95	84	85	85	0.0
	U.S. shipments (million dollars)	279,018	251,031	227,002	242,892	238,034	-2.0
	U.S. exports (million dollars)	22,116	22,865	22,651	26,209	29,379	12.1
	U.S. imports (million dollars)	119,675	129,568	127,257	133,264	134,286	0.8
	Apparent U.S. consumption (million dollars)	376,577	357,734	331,608	349,946	342,941	-2.0
	Trade balance (million dollars)	-97,559	-106,703	-104,606	-107,054	-104,907	2.0
	Ratio of imports to consumption (percent)	31.8	36.2	38.4	38.1	39.2	2.9
	Ratio of exports to shipments (percent)	7.9	9.1	10.0	10.8	12.3	13.9
	reads of supplied to simplification (por solid) first first		•				

Table TE-4—Continued
Transportation equipment sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC	In decades to a manage of the second	4000	2000	2004	2002	2003	Percent change,
code	Industry/commodity group	1999	2000	2001	2002	2003	2003 from 2002
ET010	Certain motor-vehicle parts:						
	Number of establishments	3,300	3,300	3,150	3,125	3,125	0.0
	Employees (thousands)	550.0	550.0	545.0	525.0	525.0	0.0
	Capacity utilization (percent)	81	75	75	80	(²)	(²)
	U.S. shipments (million dollars)	135,000	137,000	122,000	128,000	124,000	-3.1
	U.S. exports (million dollars)	26,997	28,917	26,521	26,651	25,625	-3.9
	U.S. imports (million dollars)	22,615	25,011	23,977	27,761	30,897	11.3
	Apparent U.S. consumption (million dollars)	130,618	133,093	119,456	129,110	129,272	(3)
	Trade balance (million dollars)	4,382	3,907	2,544	-1,110	-5,272	-374.9
	Ratio of imports to consumption (percent)	17.3	18.8	20.1	21.5	23.9	11.2
	Ratio of exports to shipments (percent)	20.0	21.1	21.7	20.8	20.7	-0.5
ET011	Motorcycles, mopeds, and parts:						
	Number of establishments	50	55	60	60	60	0.0
	Employees (thousands)	9.0	10.0	11.0	12.0	12.0	0.0
	Capacity utilization (percent)	90	85	85	85	85	0.0
	U.S. shipments (million dollars)	3,000	3,500	4,200	5,000	5,500	10.0
	U.S. exports (million dollars)	468	563	742	793	864	8.9
	U.S. imports (million dollars)	1,755	2,519	2,870	2,927	3,213	9.8
	Apparent U.S. consumption (million dollars)	4,287	5,456	6,328	7,134	7,849	10.0
	Trade balance (million dollars)	-1,287	-1,956	-2,128	-2,134	-2,349	<i>-</i> 10.1
	Ratio of imports to consumption (percent)	40.9	46.2	45.3	41.0	40.9	-0.2
	Ratio of exports to shipments (percent)	15.6	16.1	17.7	15.9	15.7	-1.3
ET012	Miscellaneous vehicles and transportation-related						
	equipment:						.2.
	Number of establishments	1,203	1,203	1,210	1,213	1,217	(3)
	Employees (thousands)	61.0	61.0	62.0	64.0	65.0	1.6
	Capacity utilization (percent)	67	58	60	64	65	1.6
	U.S. shipments (million dollars)	13,830	14,092	14,205	14,915	15,959	7.0
	U.S. exports (million dollars)	2,759	2,939	2,658	2,725	3,187	16.9
	U.S. imports (million dollars)	2,056	2,982	2,364	2,744	2,926	6.6
	Apparent U.S. consumption (million dollars)	13,127	14,135	13,912	14,934	15,698	5.1
	Trade balance (million dollars)	703	-43	293	-19	261	(4)
	Ratio of imports to consumption (percent)	15.7	21.1	17.0	18.4	18.6	1.1
	Ratio of exports to shipments (percent)	19.9	20.9	18.7	18.3	20.0	9.3

Table TE-4—Continued
Transportation equipment sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
ET013	Aircraft, spacecraft, and related equipment:						
	Number of establishments	230	230	200	210	200	-4.8
	Employees (thousands)	413.0	383.0	381.0	349.0	316.0	-9.5
	Capacity utilization (percent)	95	90	75	75	80	6.7
	U.S. shipments (million dollars)	73,693	61,868	64,765	54,194	48,916	-9.7
	U.S. exports (million dollars)	47,762	39,696	42,535	41,447	37,835	-8.7
	U.S. imports (million dollars)	14,592	18,019	21,027	17,636	16,910	-4.1
	Apparent U.S. consumption (million dollars)	40,522	40,191	43,257	30,383	27,992	-7.9
	Trade balance (million dollars)	33,171	21,677	21,508	23,811	20,924	-12.1
	Ratio of imports to consumption (percent)	36.0	44.8	48.6	58.0	60.4	4.1
	Ratio of exports to shipments (percent)	64.8	64.2	65.7	76.5	77.3	1.0
ET014	Ships, tugs, pleasure boats, and similar vessels:						
	Number of establishments	1,600	1,600	1,600	1,600	1,600	0.0
	Employees (thousands)	113.0	119.0	112.0	113.0	115.0	1.8
	Capacity utilization (percent)	55	56	56	57	60	5.3
	U.S. shipments (million dollars)	14,200	15,200	14,000	14,100	14,300	1.4
	U.S. exports (million dollars)	1,682	1,083	1,820	1,234	1,195	-3.1
	U.S. imports (million dollars)	1,246	1,223	1,411	1,413	1,932	36.8
	Apparent U.S. consumption (million dollars)	13,763	15,340	13,590	14,279	15,036	5.3
	Trade balance (million dollars)	437	-140	410	-179	-736	-312.3
	Ratio of imports to consumption (percent)	9.1	8.0	10.4	9.9	12.8	29.3
	Ratio of exports to shipments (percent)	11.8	7.1	13.0	8.8	8.4	-4.5

Table TE-4—Continued
Transportation equipment sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
ET015	Motors and engines, except internal combustion,						
	aircraft, or electric:						
	Number of establishments	350	350	335	335	335	0.0
	Employees (thousands)	40.0	40.0	40.0	40.0	40.0	0.0
	Capacity utilization (percent)	72	68	68	70	(²)	(2)
	U.S. shipments (million dollars)	6,500	7,000	6,300	6,600	6,400	-3.0
,	U.S. exports (million dollars)	394	453	508	479	578	20.7
	U.S. imports (million dollars)	658	772	784	700	834	19.1
	Apparent U.S. consumption (million dollars)	6,764	7,319	6,576	6,821	6,656	-2.4
	Trade balance (million dollars)	-264	-319	-276	-221	-256	-15.8
	Ratio of imports to consumption (percent)	9.7	10.6	11.9	10.3	12.5	21.4
	Ratio of exports to shipments (percent)	6.1	6.5	8.1	7.3	9.0	23.3

¹Capacity utilization could not be meaningfully calculated for this industry.

Note.—Calculations based on unrounded data.

Source: These data have been estimated by the Commission's international trade analysts on the basis of primary and secondary data sources including discussions with various Government and industry contacts. These estimated data are subject to change either from secondary sources or from detailed surveys the Commission often conducts in the course of statutory investigations or other work. Further, these data may undergo adjustments based on revisions in tariff nomenclature, classification practices, or redefinitions of industry classes.

²Not available.

³Less than 0.05 percent.

⁴Not meaningful.

Electronic Products

John Kitzmiller, Coordinator (202) 205-3387 john.kitzmiller@usitc.gov

Change in 2003 from 2002:

U.S. trade deficit: Increased by \$9.2 billion (10 percent) to \$98.0 billion
U.S. exports: Increased by \$411 million (0.3 percent) to \$140.8 billion
U.S. imports: Increased by \$9.6 billion (4 percent) to \$238.8 billion

The trade deficit in electronics grew for the second consecutive year, as imports of telephone and telegraph apparatus, and television receivers and video monitors, increased; and exports of telephone and telegraph apparatus and of computers, peripherals, and parts declined. Further, the trade surplus in medical goods declined despite continued growth in U.S. exports, as imports grew even more, owing to strong demand for such goods in the United States, the largest healthcare market in the world. Semiconductors and integrated circuits was the only electronics commodity group with a significant increase in its trade surplus (see tables EL-1 and EL-2 and the following sector analyses).

The major markets for U.S. exports of electronics in 2003 were Canada, Mexico, and Japan, which together accounted for 32 percent of sector exports. Exports to all three of these major markets declined, in the case of Mexico by 13 percent. Exports to Malaysia and China increased significantly, by over 21 percent in both cases, but combined they account for only 9 percent of total exports, less than either Canada or Mexico (see table EL-1). Total U.S. exports have declined in part because, as more and more U.S. producers move production offshore, foreign markets are being served by the new foreign factories.

The major sources of U.S. imports of electronics in 2003 were China, Mexico, and Japan, which together accounted for 46 percent of sector imports. Although imports from Mexico and Japan, the second- and third-largest sources, declined 3 percent, or \$2.0 billion, imports from China more than made up for that decline, growing 30 percent to \$47.2 billion. The trade deficit with Japan decreased by almost 6 percent, to \$1.1 billion, while the deficits with China and Mexico increased 31 percent to \$41.2 billion, and by 13 percent to \$18.1 billion, respectively.

China passed Mexico to become the United States' largest trading partner in 2003. Since its entry into the WTO, China has drawn production from the United States and Mexico, and from other Asian

¹ Anna Willard, "China to Double Electronic Manufacturing Share," June 4, 2003, found at http://in.tech.yahoo.com/030603/137/24uuz.html, retrieved May 6, 2004; China-Window.com., "China Investment Environment," Mar. 24, 2004, found at http://www.china-window.com/china/market/investment_in_china/china-investment-environm.shtml, retrieved May 6, 2004.

Table EL-1
Electronic products: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1999-2003¹

	•					Change, 200	3 from 2002
Item	1999	2000	2001	2002	2003	Absolute	Percent
-			— Million doll	ars			
U.S. exports of domestic merchandise:	2 942	3 926	4 892	4 855	5 934	1 079	22.2
Mexico	19,562	24,644	20,798	18,965	16,414	-2,552	-13.5
Japan	14,906	17,795	15,393	11,810	11,348	-462	-3.9
Malaysia	5,798 22,049 9,189	6,84 <u>6</u> 25,007	5,145 20,1 <u>08</u>	5,997 17,025	7,290 1 <u>6,637</u>	1,29 <u>3</u> -388	21.6 -2.3
Korea Taiwan	9,189 5,246	10,562 7,205	6,479 5, <u>661</u>	6,380 <u>5,961</u>	7,085 <u>5,555</u>	705 -40 <u>5</u>	11.1 -6.8 -0.1
Germany Singapore United Kingdom	6,70 <u>2</u>	8,653 7,316	5,193 5,193	7,639 4,600	7,633 4,992 4,005	39 <u>2</u>	8.5
United Kingdom All other	10,047 57,613	65,056	9,748 58,406	49,764	50,887	1,122	-4.9 2.3
Total	162,146	188,989	160,610	140,428	140,838	411	0.3
	40,836	46,431	41,819	34,805	34,703	-102	-0.3
OPEC	2,209	2,207	2,462	1,981	1,888	-94	-4.7
Latin America	31,218	37,182	31,759	27,705	24,648	-3.056	-11.0
CBERAAsia	2,359	2,404	2,505	2,883	3,098	215	7.5
	57,257	69,210	56,809	51,835	55,638	3,804	7.3
Sub-Saharan Africa	768	703	700	637	778	141	22.1
	841	866	872	823	942	119	14.4
U.S. imports of merchandise for consumption:							
China	20,917	27,588	27,231	36,270	47,150	10,881	30.0
Mexico	28,793	37,207	37,221	35,029	34,560	-470	-1.3
Japan	44,018 16,953	49,888 20,550	35,676 17,751	30,745 19,501	29,177 20,695	-1,569 1,195	-5.1 6.1 -7.9
Canada	14,609	21,200	13,868	10,605	9,768	-836	-7.9
Korea	16,100	21,400	15,409	15,411	15,955	544	3.5
Taiwan	18,399 6,572	22,429 7,399	17,391 7,242	16,594 7,295	15,654 7,983	-940 688	3.5 -5.7 9.4
Singapore	14,916	15,362	11,462	10,669	10,066	-603	-5.6
	5.970	7.097	5.805	4,597	4,795	198	4.3
All other	41,221	47,734	40,515	42,530	43,030	501	1.2
Total	228,469	277,854	229,571	229,245	238,833	9,588	4.2
	24,822	28,630	26,545	27,220	28, <u>9</u> 86	1,765	6.5
OPEC	2,094	2,386	2,300	2,093	1,761	-332	-15.8
Latin America	31,867	40,277	40, <u>1</u> 86	38,299	38,105	-194	-0.5
CBERA	2,496	2,091	1,510	1,732	2,164	432	25.0
Asia	150,0 <u>28</u>	178,2 <u>45</u>	141,2 <u>8</u> 0	145,645	153,491	7,84 <u>6</u>	5.4
Sub-Saharan Africa	56	58	53	50	66	17	33.4
	1,449	1,816	1,327	1,207	1,425	218	18.1

Table EL-1--Continued Electronic products: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1999-20031

						Change, 200	3 from 2002
Item	1999	2000	2001	2002	2003	Absolute	Percent
-			— Million doll	ars ———			
U.S. merchandise trade balance: China Mexico Japan Malaysia Canada Korea Taiwan Germany Singapore United Kingdom All other	-17,975 -9,231 -29,113 -11,155 7,441 -6,911 -13,153 1,520 -8,214 4,076 16,392	-23,662 -12,563 -32,093 -13,704 -3,807 -10,838 -15,225 1,254 -8,046 4,881 17,323	-22,340 -16,423 -20,283 -12,606 -6,241 -8,930 -11,729 1,544 -6,269 3,942 17,891	-31,414 -16,064 -18,935 -13,504 -6,420 -9,031 -10,633 -10,633 -6,069 2,835 7,235	-41,216 -18,146 -17,829 -13,406 -6,869 -8,869 -10,099 -350 -5,075 2,270 7,856	-9,802 -2,082 1,107 98 449 162 534 -695 995 -565 622	-31.2 -13.0 5.8 0.7 7.0 1.8 5.0 (²) 16.4 -19.6
Total EU-15 OPEC Latin America CBERA Asia Sub-Saharan Africa Central and Eastern Europe	-66,324 16,014 115 -649 -137 -92,771 711 -608	-88,865 17,801 -179 -3,095 313 -109,035 645 -950	-68,962 15,274 161 -8,427 995 -84,471 648 -455	-88,817 7,585 -111 -10,594 1,151 -93,811 -587 -383	-97,994 5,718 127 -13,457 934 -97,852 711 -483	-9,177 -1,867 238 -2,862 -217 -4,042 124 -99	-10.3 -24.6 (²) -27.0 -18.9 -4.3 21.1 -25.9

¹Import values are based on customs value; export values are based on f.a.s. value, U.S. port of export. ²Not meaningful for purposes of comparison.

Note.—Calculations based on unrounded data. The countries shown are those with the largest total U.S. trade (U.S. imports plus exports) in these products in

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table EL-2 Leading changes in U.S. exports and imports of electronic products, 1999-2003

						Change, 200	3 from 2002
Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent
			— Million o	dollars ——	***************************************		
U.S. EXPORTS:							
Increases:							
Semiconductors and integrated circuits (ET033)	36,615	44,828	33,455	31,738	35,712	3,975	12.5
Decreases:							
Telephone and telegraph apparatus (ET017)	17,717	20,147	16,506	12,952	10,946	-2,007	-15.5
Computers, peripherals, and parts (ET035)	39,300	45,392	38,125	29,534	28,038	-1,496	-5.1
Cathode-ray tubes (ET031)	2,174	2,435	2,056	1,762	1,202	-560	-31.8
All other	66,339	76,186	70,468	64,442	64,941	499	0.8
TOTAL	162,146	188,989	160,610	140,428	140,838	411	0.3
U.S. IMPORTS:							
Increases:							
Telephone and telegraph apparatus (ET017)	20,147	32,130	27,174	27.948	30.982	3,034	10.9
Medical goods (ET040)	7,932	9,178	10,869	13,232	16,143	2,911	22.0
Television receivers and video monitors (ET022)	6,652	7,713	8,615	10,586	12,654	2,067	19.5
Computers, peripherals, and parts (ET035)	81,662	90,384	74,547	75,817	76,940	1,123	1.5
Decreases:	01,002	30,004	74,047	70,017	70,540	1,120	1.0
Semiconductors and integrated circuits (ET033)	37,158	47,448	30,016	25.651	24,190	-1,461	-5.7
All other	74,918	91,002	78,350	76,011	77,924	1,913	2.5
All Guildi	74,310	31,002	10,330	70,011	11,324	1,913	2.5
TOTAL	228,469	277,854	229,571	229,245	238,833	9,588	4.2

Note.-Calculations based on unrounded data.

Source: Compiled from official statistics of the U.S. Department of Commerce.

countries, primarily because of low labor rates² and Chinese Government policies promoting foreign investment in China.³ China is endeavoring to become a producer of high-technology products and a more sophisticated marketer.⁴

⁴ Ibid.

² Daniel H. Rosen, "How China is Eating Mexico's Lunch: the Maquiladora System's Comparative Advantage is Being Challenged Head On, *The International Economy*, Spring 2003, found at http://www.findarticles.com/cf dls/m2633/2 17/100545301/p1/article.jhtml, retrieved May 6, 2004; Chinafacturing Solutions, LLC, "Labor Costs in China: Comparative Costs by Region," found at http://www.chinafacturing.com/china_labor_costs.html, retrieved May 6, 2004.

³ "China to Promote Exports of Electronic, Machinery Products," *People's Daily*, Mar. 27, 2003, found at http://english.peopledaily.com.cn/200303/27/eng20030327 114049.shtml, retrieved Apr. 9, 2004.

Computers, Peripherals, and Parts

Change in 2003 from 2002:

U.S. trade deficit: Increased by \$2.6 billion (6 percent) to \$48.9 billion U.S. exports: Decreased by \$1.5 billion (5 percent) to \$28.0 billion U.S. imports: Increased by \$1.1 billion (2 percent) to \$76.9 billion

The computer hardware industry⁵ experienced an increase in U.S. imports, most notably from China, and a decrease in U.S. exports during 2003. Factors leading to the shifts in trade include the continued movement in recent years of U.S. computer hardware production to countries such as China and increased consumer purchases of personal computers (PCs).⁶

U.S. exports

U.S. exports of computer hardware decreased by approximately \$1.5 billion in 2003. U.S. exports of computer hardware to most of its major trading partners declined with the exception of a few countries. Exports to China, Singapore, and Thailand increased by approximately \$591 million in 2003, consisting primarily of computer parts and subassemblies.

The decline in U.S. exports can be attributed to two major factors: depressed worldwide business information technology (IT) expenditures and the decrease in U.S. production. A cautious spending approach by the international business market in IT purchases⁷ kept demand low for U.S. exports of computer hardware. U.S. and foreign corporate IT spending remained limited as businesses evaluated their IT needs in 2003, deciding against making large purchases, if possible.⁸ The shift of capital, production, and technology offshore, especially to China, by U.S. manufacturers, resulted in lower U.S. exports to serve foreign markets. China provides several benefits to manufacturers, such as low-cost labor coupled with an increasingly skilled labor force, greater levels of performance, and improvements in manufacturing productivity.¹⁰

U.S. imports

U.S. imports of computer hardware increased by approximately \$1.1 billion in 2003, primarily attributable to a significant increase in low-cost imports from China which increased 48 percent to \$22.1 billion. Imports from most other U.S. major trading partners decreased substantially owing to a general pattern of production shifting to China. An exception was Malaysia from which imports

⁵ The computer hardware industry can be divided into three main segments: personal computers (including notebooks), servers (including mainframes and supercomputers), and workstations. The PC segment is the largest sector of the computer hardware industry in terms of units and dollars. Standard & Poor's, "Industry Surveys, Computers: Hardware," Dec. 11, 2003, p. 1 and p. 7.

⁶ Worldwide personal computer unit shipments increased 11 percent. Semiconductor Industry Association, "Global Semiconductor Sales Up 18.3% in 2003," found at http://www.semichips.org/pre-release.cfm?ID=299, retrieved Mar. 25, 2004.

⁷ Standard & Poor's, "Industry Surveys, Computers: Hardware," p. 20.

^{8 &}quot;Global IT Spending Remains Flat Amidst Tentative Signs of U.S. Economic Recovery, According to IDC," Jul. 16, 2003, found at http://www.idc.com/getdoc.jsp?containerld=pr2003_07_15_150906, retrieved May 6, 2004; Dinesh C. Sharma, "IT Spending Remains Low, Study Says," found at http://www.news.com.com/2100-1010-5107545.html, retrieved May 6, 2004; and Dinesh C. Sharma, "Study: IT Spending to Improve in 2004," found at http://news.com.com/2100-1012-5154580.html, retrieved May 6, 2004.

⁹ Taizo Nishimuro, JEF/CSIS Conference, "Chinese Economic Development: Implications for the Global Economy," Oct. 15, 2003, found at http://www.csis.org/china/031015_nishimuro.pdf, retrieved Mar. 25, 2004.

¹⁰ CNET news.com, "Behind the Asian outsourcing phenomenon," found at http://news.com.com/2030-1069-5162352.html, retrieved Mar. 25, 2004.

increased 10 percent to \$10.0 billion. Most of the increase in imports from Malaysia consisted of portable automatic data processing machines, reflecting a growing demand for notebook computers in the consumer PC market.

A significant shift in production to China from the United States and other computer hardware-producing Asian countries has occurred since China acceded to the World Trade Organization. The Chinese Government has facilitated this shift by creating infrastructure such as industrial parks in special economic zones for the manufacturing industry. Fourteen of the world's top 20 monitor display manufacturers and 6 notebook computer makers from Taiwan have built factories in China. Major U.S. computer hardware original equipment manufacturers (OEMs) such as Dell and Hewlett-Packard and the largest contract manufacturers in the world also have shifted some operations to China, attempting to serve not only the U.S. market, but also the growing Asian markets.

Queena Fan (202) 205-3055 queena.fan@usitc.gov

¹¹ U.S. Department of Commerce, U.S. and Foreign Commercial Service, *China Country Commercial Guide FY 2004*, found at http://www.stat-usa.gov/, retrieved Mar. 31, 2004.

¹² Global Sources, "China's computer industry output booming," Jan. 15, 2004, found at http://www.globalsources.com/, retrieved Feb. 26, 2004.

Medical Goods

Change in 2003 from 2002:

U.S. trade surplus: Decreased by \$1.1 billion (63 percent) to \$683 million U.S. exports: Increased by \$1.8 billion (12 percent) to \$16.8 billion U.S. imports: Increased by \$2.9 billion (22 percent) to \$16.1 billion

The United States is the world's largest producer of medical goods, producing a broad range of such goods from commodity hospital supplies to advanced electromedical equipment. Its traditional rivals have been Japan, Germany, and other larger European countries; however, in recent years, other countries such as Mexico, the Dominican Republic, Costa Rica, Malaysia, Ireland, and Switzerland have become more important as producers of medical goods, often in partnership with U.S.-headquartered firms. Owing to its longstanding strength as a global producer of medical products, the United States has maintained a trade surplus in such goods for the past decade. However, the U.S. trade surplus in such goods has declined in recent years, including 2003 when the surplus dropped below \$1 billion for the first time in 4 years. Despite healthy growth in U.S. exports, strong domestic demand for medical goods in the United States, the largest and most dynamic health care market in the world, led to an even greater increase in imports.

A large portion of the major shifts in U.S. trade in medical goods is owing to the continued globalization of the U.S. medical goods industry, resulting in increasing intrafirm trade between U.S. medical equipment producers and their overseas manufacturing facilities and partners.¹³ Such trade consists of intrafirm imports and exports of completed medical equipment and devices, including heart pacemakers, medical imaging equipment, and orthopedic goods, to fill different product niches in the United States and other global markets. The intrafirm trade also consists of (1) parts and subassemblies of low-end commodity hospital supplies, such as intravenous and blood administration sets, exported to and assembled in Latin America and Asia to reduce labor costs for products to be consumed primarily in the United States; and (2) more sophisticated components for such devices as pacemakers, defibrillators, and magnetic resonance imaging equipment exported to foreign manufacturing subsidiaries and partners¹⁴ in the European Union, Switzerland, and Japan for purposes of proximity to those important overseas markets for medical goods.¹⁵

U.S. exports

U.S. exports of medical goods increased 12 percent in 2003, to almost \$16.8 billion. The most significant growth occurred in exports to both Ireland and China, which increased by more than 40 percent. U.S. exports to Ireland consisted largely of components and subassemblies of implantable pacemakers and defibrillators, as that country has rapidly become one of the leading global manufacturers

¹³ U.S. industry representatives, communication with USITC staff, Feb. 24, 2004; U.S. industry representatives, telephone interviews by USITC staff, Mar. 2004; and U.S. industry representatives, interviews by USITC staff, Wisconsin, Illinois, and Michigan, Sept. 2002.

¹⁴ Components and subassemblies, as well as completed medical products, are also traded among, otherwise competing, global producers of advanced medical technology. For instance, U.S., European, and Japanese competitors often engage in such intra-industry trade to help one another fill out different medical imaging product lines and niches.

¹⁵ U.S. industry representative, communication with USITC staff, Feb. 24, 2004; U.S. industry representatives, telephone interviews by USITC staff, Mar. 2004; and U.S. industry representatives, interviews by USITC staff, Milwaukee, Wisconsin, and Chicago, Illinois, Sept. 2002.

of such devices.¹⁶ Two manufacturers of implantable pacemakers and defibrillators in the United States-Medtronic, the global leader, and Guidant--have continued to expand production capacity in Ireland for sales to the European and U.S. markets.¹⁷ U.S. exports to China grew partly owing to that country's rapid economic growth and government efforts to improve its healthcare infrastructure, causing demand to increase for a variety of medical goods such as patient monitoring systems, x-ray and other medical imaging equipment, and general medical and surgical instruments and apparatus. U.S. exports to China of parts and subassemblies of commodity hospital goods, such as intravenous and blood administration systems, also increased as U.S.-based firms transferred some of their labor-intensive production-sharing operations from Mexico and the Dominican Republic to China to take advantage of lower production and wage costs.¹⁸

U.S. imports

European and Chinese firms took advantage of the almost 8-percent growth in U.S. healthcare expenditures in 2003 to increase their exports of medical goods to the United States. 19 With an almost 60-percent increase in exports to the United States in 2003, Ireland for the first time became the leading individual country supplier of U.S. imports of medical equipment, surpassing both traditional U.S. global rival Germany and Mexico. In 2003, major U.S. manufacturers continued to establish research and manufacturing facilities in Ireland.²⁰ allowing that country to broaden its base as a leading European supplier of pacemakers and defibrillators and expand into other high-technology products. For example, Boston Scientific, one of two leading innovators of drug-eluting stents, 21 has established significant manufacturing and research capabilities in cardiovascular technology in Ireland over the past 2 years.²² In addition, Johnson & Johnson's De Puy division in Ireland manufactures and exports orthopedic implants to both the U.S. and European markets.²³ Meanwhile, Medtronic has been increasing its manufacturing of pacemaker, defibrillator, and other advanced cardiovascular products in Switzerland.²⁴ That country increased its exports to the United States by 70 percent from 2002 to 2003, largely owing to such U.S. investment. Finally, China and Mexico continued to supply the United States with imports of low-end commodity products, as U.S., Japanese, and European firms took advantage of relatively low-wage rates in those two countries to reduce their costs in supplying these high-volume, but low-margin, products to the United States. However, investment in the manufacture of more advanced medical products, such as cardiology devices, has recently been made by Medtronic and several other U.S.- and European-based

¹⁶ Enterprise Ireland, "Medical Devices and Diagnostics," *Sector Profiles*, 2003, pp. 1-3, found at http://www.enterprise-ireland.com, retrieved Mar. 1, 2004.

¹⁷ SEC 10-K filings by Medtronic Inc. and Guidant Corp., 2003.

¹⁸ U.S. industry representatives, telephone interviews by USITC staff, Mar. 1, 2004.

¹⁹ Although the rate of growth of U.S. healthcare expenditures declined more than 1 percent in 2003, the almost 8-percent increase in exports of medical goods in 2003 still well exceeds that in other major markets such as the European Union and Japan. U.S. Centers for Medicare and Medicaid Services (CMS), "Expected to Mark First Slowdown in Health Care Cost Growth in Six Years," p. 1, CMS News, found at http://www.cms.hhs.gov, retrieved Mar. 1, 2004.

²⁰ U.S. medical device firms benefitted from a series of programs by the Irish Government to implement national programs designed to increase labor force skills and to promote foreign investment in high technology industries. U.S. Central Intelligence Agency (CIA), "Ireland," CIA *The World Factbook 2003*, found at http://www.cia.gov, retrieved Mar. 1, 2004.

²¹ Stents are cylindrical metal, mesh-type, devices used to maintain the opening of arteries after angioplasty (balloon) catheterization procedures. The newest drug eluting stents have been shown in recent clinical trials to maintain the opening for longer periods than bare metal stents.

²² U.S. industry representative, communication with USITC staff, Feb. 24, 2004.

²³ Other major U.S.-based companies with manufacturing operations in Ireland include Abbott, Tyco, Baxter International, Johnson & Johnson, and De Puy. IDA Ireland, "Industry Profile-Medical Devices," 2004, p. 1, found at http://www.Idaireland.com, retrieved Feb. 25, 2004.

²⁴ Medtronic, *Europe and Emerging Markets*, p. 3, 2003, pp. 1-10, found at http://www.medtronic.com, retrieved Mar. 1, 2004.

medical goods firms in Shanghai, as Chinese workers become more skilled in the manufacture of medical goods.²⁵

Christopher Johnson (202) 205-3488 christopher.johnson@usitc.gov

²⁵ SEC 10-K filings by Medtronic Inc., 2003; U.S. industry representatives, telephone interviews by USITC staff, Feb. 25 and Mar. 1, 2004; and U.S. industry representative, communication with USITC staff, Feb. 24, 2004.

Semiconductors and Integrated Circuits

Change in 2003 from 2002:

U.S. trade surplus: Increased by \$5.4 billion (89 percent) to \$11.5 billion U.S. exports: Increased by \$4.0 billion (13 percent) to \$35.7 billion U.S. imports: Decreased by \$1.5 billion (6 percent) to \$24.2 billion

After enjoying a modest recovery in 2002, the global semiconductor industry experienced major growth in 2003. Global sales in 2003 rose 18.3 percent, with growth in the second half of the year among the strongest on record.²⁶ U.S. exports reflected this marked growth and increased for the first time since 2000. In addition, for the third year in a row, U.S. imports declined, albeit less than the declines in 2002 and 2001. The increase in exports and decrease in imports led to an overall increase in the U.S. trade surplus of \$5.4 billion for 2003. This year was the third year in a row that the United States experienced a surplus in semiconductor trade after more than two decades of deficits.

U.S. exports

One of the main reasons for an increase in U.S. semiconductor exports was the relatively strong worldwide recovery of the industries that consume semiconductors, particularly the computer and telecommunications equipment industries, the two largest end markets of semiconductors. For example, personal computer (PC) shipments experienced an 11-percent unit volume increase worldwide, and the global wireless telecommunications equipment market grew 16 percent.²⁷

As the trend of electronic equipment production moving to Asia continues, the region remains, by far, the most important foreign market for U.S. semiconductors.²⁸ In 2003, U.S. exports to Asia increased by \$4.1 billion with most other regions experiencing minimal increases and one region, the EU, experiencing a decrease. As a result, Asia accounted for 75 percent of total exports in 2003, up from 71 percent in 2002. China, Malaysia, Korea, and the Philippines, in particular, experienced dramatic rises in U.S. exports in 2003 of 64, 36, 20, and 23 percent, respectively.

Besides direct demand from industries producing electronic equipment, other factors contributed to increasing U.S. exports to Asia. In an effort to keep down production costs, U.S. semiconductor manufacturers traditionally have engaged in production sharing arrangements wherein unfinished semiconductors are exported to East Asia to complete the more labor intensive production;²⁹ 2003 was no exception with production sharing partners Malaysia and the Philippines accounting for the greatest absolute increase in U.S. exports. After completion of the production process, most of the finished chips are shipped to a third country, often elsewhere in Asia, or back to the United States for final consumption.³⁰

U.S. imports

U.S. imports in 2003 decreased, primarily because the industries that consume semiconductors continue to move overseas, mainly to Asia. The value of U.S. imports of semiconductors fell 6 percent in 2003, the third year in a row in which U.S. imports have decreased. Of the 3 years of decreases, 2003

²⁶ "Global Semiconductor Sales Up 18.3% in 2003," Semiconductor Industry Association press release, Feb. 1, 2004, found at http://www.semichips.org, retrieved Mar. 8, 2004.

²⁷ Ibid

²⁸ Bill McClean, Brian Matas, and Trevor Yancey, *The McClean Report: A Complete Analysis and Forecast of the Integrated Circuit Industry*, Richard D. Skinner, 2004 Edition (Arizona: IC Insights, Inc., 2004), pp. 2-11.

²⁹ Thomas Walter Smith, Standard & Poor's, *Industry Surveys: Semiconductors*, Jan. 15, 2004, pp. 13-14.

³⁰ SIA 2003 Annual Report, found at http://www.semichips.org, retrieved Mar. 10, 2004.

experienced the smallest percent and absolute decrease from the previous year. This limited decline was owing in large measure to a gradual increase in demand for semiconductor end use products caused by the general recovery of the U.S. economy in the second half of 2003 (see U.S. Merchandise Trade Performance). The decrease in U.S. imports was across the board, with declines occurring from each of the top 10 leading sources, with the exception of China.

Falan Yinug (202) 205-2160 falan.yinug@usitc.gov

Telephone and Telegraph Apparatus

Change in 2003 from 2002:

U.S. trade deficit: Increased by \$5.0 billion (34 percent) to \$20.0 billion U.S. exports: Decreased by \$2.0 billion (16 percent) to \$10.9 billion U.S. imports: Increased by \$3.0 billion (11 percent) to \$31.0 billion

The U.S. trade deficit in telephone and telegraph apparatus increased significantly for the second year in a row. U.S. imports rose as certain segments of the U.S. telecommunications equipment market began to recover after declining and stagnant growth in 2001 and 2002,³¹ respectively. Declining network infrastructure investments and increased cellular phone competition in important Asian markets contributed to falling U.S. export revenues.

U.S. exports

U.S. exports of telephone and telegraph apparatus declined 16 percent to less than \$11 billion. The most significant reductions occurred in exports to China, Japan, Malaysia, Canada, and Mexico. China's market, one of the fastest growing markets for telecommunications equipment over the past 5 years, continued its second year of declining growth as that country's total investment in fixed telecommunications assets in 2002 and 2003³² was less than one-half the investment in 2001.³³ This decline in investment was owing in part to the completion of a number of major wireline and wireless network infrastructure projects.³⁴ Further, despite continued relatively high volume growth in the Chinese market for cellular telephones,³⁵ intense price competition,³⁶ movement of cell phone assembly by U.S.-based firms to China, and the emergence of several domestic suppliers in lower and mid-priced handsets in the past 2 years have slowed U.S. exports of all but the most sophisticated cellular telephones and parts. U.S. exports of telecommunications network equipment to Malaysia, meanwhile, dropped more than 40 percent, partly owing to increasing competition from Korean-based producers in that market, as well as the completion of some major telecommunications infrastructure projects there.³⁷ Finally, Japan and Canada, large mature markets for U.S.-made telecommunications equipment, continued to face large overcapacity in their fiber optic and other wireline network equipment markets. This contributed to a

³¹ Telecommunications Industry Association (TIA), 2003 Telecommunications Market Review and Forecast (Washington, DC: TIA, 2003), p. 3.

³² However, industry experts indicate that total telecommunications equipment expenditures have recently begun to rebound in China, which likely will benefit U.S. exporters during the next several years. "U.S. Companies Sign \$2.3 billion in China Technology Deals," *IT Matters*, Jan. 15, 2004, pp. 1-3, found at http://www.itmatters.com.ph, retrieved Mar. 8, 2004; and U.S. industry representatives, telephone interviews by USITC staff, Mar. 2 and 8, 2004.

³³ "Telecom Equipment Industry Plows Ahead Despite Difficulties," TDCTrade.com, Mar. 17, 2004, pp. 1-4, found at http://www.tdctrade.com, retrieved Mar. 8, 2004.

³⁴ U.S. industry representatives, telephone interviews by USITC staff, Mar. 2 and 8, 2004.

³⁵ "U.S. Companies Sign \$2.3 billion in China Technology Deals," *IT Matters*, Jan. 15, 2004, pp. 1-3, found at http://www.itmatters.com.ph, retrieved Mar. 8, 2004.

³⁶ Although China accounts for a considerable portion of global wireless subscriber growth, adding about 5 million subscribers a month, handset prices are falling as wireless operators try to increase market share. Standard & Poor's, "Communications Equipment," *Standard & Poor's Industry Surveys*, Jan. 20, 2004, p. 3; and U.S. industry representative, telephone interview by USITC staff, Mar. 8, 2004.

³⁷ Maxis Communications Board, "GPRS Malaysia Asian Mobile Network Plans, Malaysia," [Maxis]Industry Projects, pp. 1-3, [undated], found at http://www.mobilecommms-technology.com, retrieved Feb. 25, 2004; Motorola Inc., SEC 10-K filing, Mar. 27, 2003, pp. 1-15, 2003; and U.S. industry representatives, telephone interviews by USITC staff, Mar. 2 and 8, 2004.

combined reduction of \$268 million in U.S. exports to both of those countries, representing a decline of 10 percent from the previous year.³⁸

U.S. imports

After continued sluggish U.S. demand for most types of telecommunications equipment in 2002, ³⁹ growing purchases of wireless and specialized digital wireline products contributed to an increase of almost 11 percent in U.S. imports in 2003. Sales of cellular handsets and other wireless products continue to surge in the United States, compensating for declines in fiber optic and other wireline network equipment demand over the past several years. ⁴⁰ Among the five leading worldwide producers of cell phones are two Korean-based firms, Samsung and LG Electronics, ⁴¹ which helped Korea maintain its position as the largest supplier of U.S. imports of telecommunications equipment in 2003. Increased investment in cell phone assembly and use of contract manufacturers in China and Malaysia by other leading global cellular suppliers, including U.S.-based Motorola⁴² and European-headquartered Nokia and Siemens, over the past several years also contributed to significantly higher U.S. imports. Meanwhile, producers of digital communications gear in Germany, the United Kingdom, and Mexico took advantage of increased equipment demand⁴³ by U.S. telephone service providers, which were increasing their digital subscriber line offerings to customers demanding faster Internet connections.⁴⁴

Christopher Johnson (202) 205-3488 christopher.johnson@usitc.gov

³⁸ U.S. industry representatives, telephone interviews by USITC staff, Mar. 2 and 8, 2004.

³⁹ Telecommunications Industry Association (TIA), 2003 Telecommunications Market Review and Forecast (Washington, DC: TIA, 2003), pp. 3-14.

⁴⁰ Standard & Poor's, "Communications Equipment," *Standard & Poor's Industry Surveys*, Jan. 20, 2004, p. 3; and Telecommunications Industry Association (TIA), *2003 Telecommunications Market Review and Forecast* (Washington, DC: TIA, 2003), pp. 12-13.

⁴¹ Standard & Poor's, "Communications Equipment," Standard & Poor's Industry Surveys, Jan. 20, 2004, p 6.

⁴² Motorola Inc., SEC 10-K filing, Mar. 27, 2003, pp. 1-15, 2003.

⁴³ Telecommunications Industry Association (TIA), "Table 111-1.5," 2003 Telecommunications Market Review and Forecast (Washington, DC: TIA, 2003), p. 88.

⁴⁴ U.S. industry representatives, telephone interviews by USITC staff, Mar. 2, 8, and Apr. 8, 2004.

Television Receivers and Video Monitors

Change in 2003 from 2002:

U.S. trade deficit: Increased by \$2.5 billion (27 percent) to \$11.8 billion U.S. exports: Decreased by \$449 million (36 percent) to \$809 million U.S. imports: Increased by \$2.1 billion (20 percent) to \$12.7 billion

The trade deficit for television receivers and video monitors continued to grow in 2003, exceeding \$11 billion for the first time. U.S. demand for more expensive flat-panel receivers and monitors not made in the United States plus export-oriented low-end receivers from China led to the increase.⁴⁵

U.S. imports

U.S. imports of television receivers and video monitors increased 20 percent, to \$12.7 billion. The greatest increases in the value of U.S. imports were from China, Japan, and Korea, which grew by \$641 million, \$551 million, and \$463 million, respectively. Mexico, the largest source of U.S. imports, showed a gain of \$367 million.

China is a major source of low-cost television receivers for the U.S. market, with imports from China up 465 percent since 2001, when China acceded to the WTO. A number of factors are responsible for this dramatic increase. First, the Chinese Ministry of Commerce is actively promoting the export of electronic and machine products. Second, Japanese television producers like Toshiba have moved production of picture-tube based television receivers to China in order to concentrate on producing higher value flat-panel receivers at home. Third, producers in China are beginning to manufacture LCD and plasma flat-panel televisions, including LCD panels.

The increases from Japan and Korea are owing to increased demand for larger and higher quality television receivers and monitors to take advantage of the growth in high definition programming available by broadcast, satellite, and cable signals, 50 and for television receivers and monitors incorporating flat panels, which are not made in the United States. As screen size and picture quality increase, so does price. Also, a flat-panel receiver or monitor costs more for a given screen size than a conventional picture-tube based receiver or monitor.

http://www.yankeegroup.com/public/news_releases/news_release_detail.jsp?ID=PressReleases/news_05122003_me_s.htm, retrieved Apr. 1, 2004.

⁴⁵ China was the subject of an antidumping investigation, in which the Commission determined that the U.S. industry was materially injured by reason of imports of certain color television receivers from China. See USITC, Inv. No. 731-TA-1034 and 1035 (Final), *Certain Color Television Receivers from China*, publication 3659, May 2004.

⁴⁶ "China to Promote Exports of Electronic, Machinery Products," *People's Daily*, Mar.27, 2004, found at http://english.peopledaily.com.cn/200303/27/eng20030327 114049.shtml, retrieved March 31, 2004.

⁴⁷ Flat-panel technology includes Liquid Crystal Display (LCD), Liquid Crystal on Silicon (LCOS), and plasma.

⁴⁸ "Japan's Toshiba to Shift Television Output to China," *People's Daily*, Mar. 19, 2001, found at http://fpeng.peopledaily.com.cn/200103/19/eng20010319 65362.html, retrieved Mar. 31, 2004.

⁴⁹ "Image Quality Upgrades Top Makers' Agendas," Asian Sources: Electronics, Jan. 2004, pp. 217 - 222.

⁵⁰ RCA, "New RCA HDTV Receiver Delivers Directy® Satellite, Digital and Analog Terrestrial Broadcasts," press release, Jan. 7, 2004, found at http://www.rca.com/content/viewdetail/1.2811.EI700571-CI258,00.html?, Apr. 1, 2004. RocSearch, "Research Report - HDTV Market," Jan. 2002, found at http://www.rocsearch.com/ReportGallery/dispReport.asp, retrieved Apr. 1, 2004; and Yankee Group, "Nearly 40 Percent of U.S. Homes will be Viewing HDTV Programs in Five Years, Says New Yankee Group Report," May 13, 2003, found at

Advances in flat-panel technology have allowed the production of larger panels, up to 61 inches in diagonal measurement, ⁵¹ taking flat panels out of the novelty market and making them suitable for use in a living room or family room. Because of their lighter weight and smaller footprint, flat-panel television receivers have increased the market for larger screen size receivers and monitors to include consumers who do not have room for a large picture-tube based receiver or a projection television. It is now possible to hang a flat-panel receiver or monitor on a wall like a painting. Demand for flat-panel television receivers in combination with DVD players for portable and mobile use is increasing. DVD players require less power and weigh less than videocassette players, the former source for playing back prerecorded video, making them more suitable for portable/mobile use. As production volumes of the new technology increase, economies of scale will permit the lowering of unit prices, increasing the market further. Some industry analysts are predicting that flat panel receivers and monitors will become the predominant television display in the future, usurping the picture tube, which has been the dominant technology since the inception of television.⁵²

John W. Kitzmiller (202) 205-3387 john.kitzmiller@usitc.gov

⁵¹ The largest screen size currently available in commercial quantities.

⁵² Greg Tarr, "Flat-Panel TV Suppliers Flood CE Market," *TWICE*, Jan. 8, 2004, found at http://www.twice.com/, Mar. 29, 2004. *Global Sources*, "China Makers Moving into 16:9 TV Production," May 23, 2003, found at http://www.electronics.globalsources.com/am/article_id/9000000041049/page/showarticle?action=GetArticle, Mar. 29, 2004.

Table EL-3
Electronic products: U.S. trade for industry/commodity groups and subgroups, 1999-2003¹

USITC							Change, 200	3 from 2002
code ²	Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent
ET016	Office machines:			Million	dollars ——			
21010	Exports	967	1,033	1,06 <u>1</u>	816	725	-91	-11.2
	Imports	1,784 -817	1,892 -859	1,817 -757	1,491 -675	1,544 -819	53 -1 44	3.6 -21.4
ET017	Telephone and telegraph apparatus: Exports	17.717	20,147	16.506	12,952	10.946	-2.007	-15.5
	Imports	20,147	32,130	27,174	27,948	30,982	3,034	10.9
ET018	Trade balance	•	-11,982	-10,668	-14,996	-20,037	-5,041	-33.6
	Exports	2,678 18.282	2,969 21.974	2,791 19.525	2,631 21.455	2,392 21,471	-239 16	-9.1 0.1
ET019	Tråde balance		-19,005	-16,734	-18,825	-19,079	-254	-1.4
L1013	Exports	1,692	1,420	1,017	970	1,082	111	11.5
	Imports	2,225 -533	2,415 -995	2,423 -1,406	2,746 -1,776	3,127 -2,045	381 -269	13.9 -15.2
ET020	Prerecorded media: Exports	3.707	3,636	3,195	3,069	3,010	-59	-1.9
	Imports Trade balance	1,252 2,455	1,389 2,247	1,259 1,935	1,308 1,761	1,436 1,574	128 -187	9.8 -10.6
ET021	Navigational instruments and remote control	2,433	2,247	1,955	1,701	1,574	-107	-10.0
	apparatus: Exports	2,530	2,626	3,102	2,921	2,866	-55	-1.9
	Imports	1,361 1,169	1,702 924	1,796 1,306	1,858 1.063	2,286 580	427 -483	23.0 -45.4
ET022	Television receivers and video monitors:	,		1,237	1,257	809	-449	-35.7
	Exports Imports	1,104 6,652	1,164 7,713	8,615	10,586	12,654	2,067	19.5
ET023	Trade balance	•	-6,549	-7,378	-9,329	-11,845	-2,516	-27.0
	ExportsImports	2,323 4,948	2,602 7,178	2,321 6.066	1,364 4.977	1,241 4,120	-123 -857	-9.0 -17.2
ET004	Trade balance	-2,624	-4,576	-3,745	-3,613	-2,879	734	20.3
ET024	Electric sound and visual signaling apparatus: Exports	858	851	949	1,042	937	-105	-10.1
	Imports	2,053 -1,195	2,334 -1,483	1,968 -1,020	1,797 -755	1,845 -908	48 -153	2.6 -20.3
ET025	Electrical capacitors and resistors: Exports	2,393	3.410	2,002	1.706	1.623	-84	-4.9
	Imports	2,435	4,177	2,333	2,093	1,964	-129	-6.2
ET026	Trade balance Printed circuits:	-42	-767	-331	-386	-341	45	11.8
	ExportsImports	2,386 2,236	2,865 2,988	2,089 2,141	1,853 1,896	1,742 1,785	-111 -111	-6.0 -5.8
CT007	Trade balance	150	-123	-, -53	-44	-44	(3)	0.3
ET027	Circuit apparatus exceeding 1000V: Exports	590	701	612	549	487	-62	-11.2
	Imports	287 302	386 315	357 255	338 211	272 215	-66 4	-19.5 2.1

Table EL-3--*Continued*Electronic products: U.S. trade for industry/commodity groups and subgroups, 1999-2003¹

USITC							Change, 200	3 from 2002
code ²	Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent
				— Million	dollars			
ET028	Circuit apparatus not exceeding 1000V:							
	Exports	4,991 5.606	6,101 6.872	5,098 5,280	4,478 4.933	4,431 5.127	-46 195	-1.0 3.9
ET000	Trade balance		-771	-182	-455	-696	-241	-53.0
ET029	Circuit apparatus assemblies: Exports	1.078	1,340	1,179	1,108	1,150	42	3.8
	Imports	2,141	2,593 -1,253	2,528 -1,350	2,577 -1,469	2,920 -1,771	34 4 -301	13.3 -20.5
ET030	Parts of circuit apparatus:	,	•	•		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	Exports	1,809 999	1,91 <i>4</i> 1,202	1,503 1.108	1,592 1.087	1,807 1,206	215 120	13.5 11.0
ET031	Trade balance	809	712	,,396	,506	601	95	18.8
⊏1031	Cathode-ray tubes: Exports	2,174	2,435	2,056	1,762	1,202	-560	-31.8
	Imports Trade balance	732 1,442	634 1,801	612 1,444	607 1,155	577 625	-30 -530	-5.0 -45.9
ET032	Electron tubes other than CRTs:	•	•	•	,			
	Exports	215 190	209 213	178 271	180 247	165 203	-16 -44	-8.7 -17.7
ET033	Trade balance	25	-4	-93	-66	-38	28	42.2
21000	Exports	36,615	44,828	33,455	31,738	35,712	3,975	12.5
	Imports	37,158 -542	47,448 -2,619	30,016 3,439	25,651 6,087	24,190 11,522	-1,461 5,435	-5.7 89.3
ET034	Miscellaneous electrical equipment: Exports	1,590	2,153	1,805	1,564	1.426	-137	-8.8
	Imports	2,358	2,937	2,277	2,428	2,649	221	9.1
ET035	Trade balance		-784	-473	-865	-1,223	-358	-41.4
	Exports	39,300	45,392 90,384	38,125 74.547	29,534 75,817	28,038 76.940	-1,496 1,123	-5.1 1.5
	Trade balance		-44,991	-36,422	-46,283	-48,902	-2,619	-5.7
ET036	Photographic film and paper: Exports	2.154	2,755	1,953	2,127	2,233	106	5.0
	Imports	2,009 146	2,205 550	1,856 96	1,865 262	1,820 413	-45 151	-2.4 57.5
ET037	Optical fibers, optical fiber bundles and cables:							55
	ExportsImports	1,081 729	1,888 1,399	1,689 1,244	474 252	437 210	-37 -42	-7.8 -16.7
ET038	Trade balanceOptical goods, including ophthalmic goods:	352	488	446	222	227	5	2.2
E1036	Exports	2,682	3,995	3,727	3,548	3,309	-240	-6.8
	Imports Trade balance	4,225 -1,543	5,881 -1,887	4,957 -1,230	4,142 -594	4,495 -1,186	353 -592	8.5 -99.7
ET039	Photographic cameras and equipment: Exports	1.825	1.800	1.694	1.187	954	-233	-19.6
	Imports	5,843	5,299	3,560	3,029	2,715	-314	-10.4
	Trade balance	-4,018	-3,499	-1,866	-1,842	-1,761	81	4.4

Table EL-3--Continued Electronic products: U.S. trade for industry/commodity groups and subgroups, 1999-2003¹

USITC							Change, 20	03 from 2002
code ²	Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent
ET040	Madical goods			Millic	on dollars ——			
ET040 ET041	Medical goods: Exports Imports Trade balance Watches and clocks:	12,455 7,932 4,522	13,411 9,178 4,232	14,987 10,869 4,119	15,059 13,232 1,826	16,827 16,143 683	1,768 2,911 -1,143	11.7 22.0 -62.6
	Exports	335 3,136 -2,801	348 3,354 -3,006	279 2,957 -2,678	235 3,098 -2,864	242 3,291 -3,049	8 193 -185	3.3 6.2 -6.5
ET042	Exports Imports Trade balance	415 431 -15	366 234 132	395 207 188	368 192 176	364 223 141	-4 32 -35	-1.0 16.5 -20.0
ET043	Measuring, testing, and controlling instruments: Exports Imports Trade balance	14,480 9,656 4,824	16,629 11,743 4,886	15,605 11,806 3,799	14,346 11,595 2,751	14,683 12,638 2,046	337 1,042 -705	2.4 9.0 -25.6

¹Import values are based on customs value; export values are based on f.a.s. value, U.S. port of export.

Note.—Calculations based on unrounded data.

Source: Compiled from official statistics of the U.S. Department of Commerce.

²This coding system is used by the U.S. International Trade Commission to identify major groupings and subgroupings of HTS import and export items for trade monitoring purposes ³Less than \$500,000.

Table EL-4
Electronic products sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC	La dura formata a maria a life a maria a	4000	2000	0004	2000	2002	Percent change,
code	Industry/commodity group	1999	2000	2001	2002	2003	2003 from 2002
ET016	Office machines:						
	Number of establishments	137	137	137	137	137	0.0
	Employees (thousands)	13.0	11.0	10.0	8.0	7.0	- 12.5
	Capacity utilization (percent)	65	70	51	56	61	8.9
	U.S. shipments (million dollars)	2,993	2,711	3,072	2,460	2,200	-10.6
	U.S. exports (million dollars)	967	1,033	1,061	816	725	-11.2
	U.S. imports (million dollars)	1,784	1,892	1,817	1,491	1,544	3.6
	Apparent U.S. consumption (million dollars)	3,810	3,570	3,829	3,135	3,019	-3.7
	Trade balance (million dollars)	-817	-859	-757	-675	-819	-21.4
	Ratio of imports to consumption (percent)	46.8	53.0	47.5	47.6	51.1	7.4
	Ratio of exports to shipments (percent)	32.3	38.1	34.5	33.2	33.0	-0.6
ET017	Telephone and telegraph apparatus:						
	Number of establishments	1,056	1,030	1,000	980	965	- 1.5
	Employees (thousands)	238.0	248.0	231.0	189.0	180.0	-4.8
	Capacity utilization (percent)	77	75	73	57	60	5.3
	U.S. shipments (million dollars)	79,544	93,614	80,151	62,718	64,700	3.2
	U.S. exports (million dollars)	17,717	20,147	16,506	12,952	10,946	-15.5
	U.S. imports (million dollars)	20,147	32,130	27,174	27,948	30,982	10.9
	Apparent U.S. consumption (million dollars)	81,974	105,596	90,819	77,714	84,737	9.0
	Trade balance (million dollars)	-2,430	-11,982	-10,668	-14,996	-20,037	-33.6
	Ratio of imports to consumption (percent)	24.6	30.4	29.9	36.0	36.6	1.7
	Ratio of exports to shipments (percent)	22.3	21.5	20.6	20.7	16.9	-18.4
ET018	Consumer electronics (except televisions):						
	Number of establishments	210	215	225	215	205	-4.7
	Employees (thousands)	20.0	21.0	21.0	20.0	18.0	-10.0
	Capacity utilization (percent)	58	58	58	54	50	-7.4
	U.S. shipments (million dollars)	4,235	4,260	4,200	4,000	3,600	-10.0
	U.S. exports (million dollars)	2,678	2,969	2,791	2,631	2,392	-9.1
	U.S. imports (million dollars)	18,282	21,974	19,525	21,455	21,471	(1)
	Apparent U.S. consumption (million dollars)	19,839	23,265	20,934	22,825	22,679	-0.6
	Trade balance (million dollars)	-15,604	-19,005	-16,734	-18,825	-19,079	-1.4
	Ratio of imports to consumption (percent)	92.2	94.5	93.3	94.0	94.7	0.7
	Ratio of exports to shipments (percent)	63.2	69.7	66.5	65.8	66.4	0.9
	ratio of exports to shipments (percent)	00.2	.00.7	00.0	00.0	55.1	0.

Table EL-4—Continued Electronic products sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC	In dividually a mana additive away in	4000	2000	2004	2002	2002	Percent change,
code	Industry/commodity group	1999	2000	2001	2002	2003	2003 from 2002
ET019	Blank media:	2.42					2.2
	Number of establishments	240	230	220	212	210	-0.9
	Employees (thousands)	17.0	15.0	13.0	11.0	9.0	-18.2
	Capacity utilization (percent)	73	69	80	75	70	-6.7
	U.S. shipments (million dollars)	3,764	3,402	3,074	2,800	2,600	-7.1
	U.S. exports (million dollars)	1,692	1,420	1,017	970	1,082	11.5
	U.S. imports (million dollars)	2,225	2,415	2,423	2,746	3,127	13.9
	Apparent U.S. consumption (million dollars)	4,297	4,397	4,480	4,576	4,645	1.5
	Trade balance (million dollars)	-533	-995	-1,406	-1,776	-2,045	-15.2
	Ratio of imports to consumption (percent)	51.8	54.9	54.1	60.0	67.3	12.2
	Ratio of exports to shipments (percent)	45.0	41.8	33.1	34.6	41.6	20.2
ET020	Prerecorded media:						
	Number of establishments	670	680	690	700	708	1.1
	Employees (thousands)	29.0	29.0	29.0	28.0	27.0	-3.6
	Capacity utilization (percent)	78	75	66	70	74	5.7
	U.S. shipments (million dollars)	4,900	5,298	5,728	6,200	6,700	8.1
	U.S. exports (million dollars)	3,707	3,636	3,195	3,069	3,010	-1.9
	U.S. imports (million dollars)	1,252	1,389	1,259	1,308	1,436	9.8
	Apparent U.S. consumption (million dollars)	2,445	3,051	3,793	4,439	5,126	15.5
	Trade balance (million dollars)	2,455	2,247	1,935	1,761	1,574	- 10.6
	Ratio of imports to consumption (percent)	51.2	45.5	33.2	29.5	28.0	-5.1
	Ratio of exports to shipments (percent)	75.7	68.6	55.8	49.5	44.9	-9.3
ET021	Navigational instruments and remote control						
	apparatus:						
	Number of establishments	105	107	107	107	107	0.0
	Employees (thousands)	115.0	116.0	120.0	119.0	118.0	-0.8
	Capacity utilization (percent)	75	80	80	80	80	0.0
	U.S. shipments (million dollars)	15,500	18,500	21,275	22,125	22,000	-0.6
	U.S. exports (million dollars)	2,530	2,626	3,102	2,921	2,866	-1.9
	U.S. imports (million dollars)	1,361	1,702	1,796	1,858	2,286	23.0
	Apparent U.S. consumption (million dollars)	14,331	17,576	19,969	21,062	21,420	1.7
	Trade balance (million dollars)	1,169	924	1,306	1,063	580	-45.4
	Ratio of imports to consumption (percent)	9.5	9.7	9.0	8.8	10.7	21.6
	Ratio of exports to shipments (percent)	16.3	14.2	14.6	13.2	13.0	-1.5

Table EL-4—Continued Electronic products sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
ET022	Television receivers and video monitors:						
	Number of establishments	14	12	10	9	8	-11.1
	Employees (thousands)	8.0	8.0	7.0	6.0	5.0	-16.7
	Capacity utilization (percent)	58	58	58	54	50	-7.4
	U.S. shipments (million dollars)	3,950	3,400	3,037	3,285	2,500	-23.9
	U.S. exports (million dollars)	1,104	1,164	1,237	1,257	809	-35.7
	U.S. imports (million dollars)	6,652	7,713	8,615	10,586	12,654	19.5
	Apparent U.S. consumption (million dollars)	9,498	9,949	10,415	12,614	14,345	13.7
	Trade balance (million dollars)	-5,548	-6,549	-7,378	-9,329	-11,845	-27.0
	Ratio of imports to consumption (percent)	70.0	77.5	82.7	83.9	88.2	5.1
	Ratio of exports to shipments (percent)	28.0	34.2	40.7	38.3	32.3	-15.7
ET023	Radio and television broadcasting equipment:						
	Number of establishments	155	160	165	170	175	2.9
	Employees (thousands)	15.0	15.0	15.0	14.0	13.0	-7.1
	Capacity utilization (percent)	71	73	65	56	48	-14.3
	U.S. shipments (million dollars)	4,000	3,900	3,500	3,300	3,000	-9.1
	U.S. exports (million dollars)	2,323	2,602	2,321	1,364	1,241	-9.0
	U.S. imports (million dollars)	4,948	7,178	6,066	4,977	4,120	-17.2
	Apparent U.S. consumption (million dollars)	6,624	8,476	7,245	6,913	5,879	-15.0
	Trade balance (million dollars)	-2,624	-4,576	-3,745	-3,613	-2,879	20.3
	Ratio of imports to consumption (percent)	74.7	84.7	83.7	72.0	70.1	-2.6
	Ratio of exports to shipments (percent)	58.1	66.7	66.3	41.3	41.4	(¹)
ET024	Electric sound and visual signaling apparatus:						
	Number of establishments	499	499	499	499	499	0.0
	Employees (thousands)	24.0	23.0	28.0	26.0	27.0	3.8
	Capacity utilization (percent)	78	71	66	66	66	0.0
	U.S. shipments (million dollars)	4,539	4,905	5,571	5,290	5,400	2.1
	U.S. exports (million dollars)	858	851	949	1,042	937	-10.1
	U.S. imports (million dollars)	2,053	2,334	1,968	1,797	1,845	2.6
	Apparent U.S. consumption (million dollars)	5,734	6,388	6,591	6,045	6,308	4.3
	Trade balance (million dollars)	-1,195	-1,483	-1,020	-755	-908	-20.3
	Ratio of imports to consumption (percent)	35.8	36.5	29.9	29.7	29.2	-1.7
	Ratio of exports to shipments (percent)	18.9	17.3	17.0	19.7	17.4	-11.7

Table EL-4—Continued
Electronic products sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

code ET025	Industry/commodity group		2000	2001	2002	2003	Percent change, 2003 from 2002
ET025		1999	2000	2001	2002	2003	2003 110111 2002
	Electrical capacitors and resistors:						
	Number of establishments	286	276	267	214	253	18.2
	Employees (thousands)	26.0	27.0	24.0	19.0	22.0	15.8
	Capacity utilization (percent)	75	80	60	50	60	20.0
	U.S. shipments (million dollars)	3,006	3,768	2,510	1,983	2,346	18.3
	U.S. exports (million dollars)	2,393	3,410	2,002	1,706	1,623	-4.9
	U.S. imports (million dollars)	2,435	4,177	2,333	2,093	1,964	-6.2
	Apparent U.S. consumption (million dollars)	3,048	4,535	2,841	2,369	2,687	13.4
	Trade balance (million dollars)	-42	-767	-331	-386	-341	11.8
	Ratio of imports to consumption (percent)	79.9	92.1	82.1	88.3	73.1	-17.2
	Ratio of exports to shipments (percent)	79.6	90.5	79.8	86.0	69.2	-19.5
ET026	Printed circuits:						
	Number of establishments	730	694	641	435	515	18.4
	Employees (thousands)	83.0	86.0	75.0	51.0	60.0	17.6
	Capacity utilization (percent)	78	77	49	33	39	18.2
	U.S. shipments (million dollars)	9,150	11,892	8,911	6,045	7,151	18.3
	U.S. exports (million dollars)	2,386	2,865	2,089	1,853	1,742	-6.0
	U.S. imports (million dollars)	2,236	2,988	2,141	1,896	1,785	-5.8
	Apparent U.S. consumption (million dollars)	9,000	12,015	8,964	6,089	7,195	18.2
	Trade balance (million dollars)	150	-123	-53	-44	-44	(1)
	Ratio of imports to consumption (percent)	24.8	24.9	23.9	31.1	24.8	-20.3
	Ratio of exports to shipments (percent)	26.1	24.1	23.4	30.6	24.4	-20.3
ET027	Circuit apparatus exceeding 1000V:						
	Number of establishments	200	210	200	200	200	0.0
	Employees (thousands)	15.0	17.0	16.0	15.0	14.0	-6.7
	Capacity utilization (percent)	75	80	60	60	60	0.0
	U.S. shipments (million dollars)	5,000	5,500	4,150	3,800	3,600	-5.3
	U.S. exports (million dollars)	590	701	612	549	487	-11.2
	U.S. imports (million dollars)	287	386	357	338	272	-19.5
	Apparent U.S. consumption (million dollars)	4,698	5,185	3,895	3,589	3,385	-5.7
	Trade balance (million dollars)	302	315	255	² 11	215	2.1
	Ratio of imports to consumption (percent)	6.1	7.4	9.2	9.4	8.0	-14.9
	Ratio of exports to shipments (percent)	11.8	12.7	14.7	14.4	13.5	-6.3

Table EL-4—Continued Electronic products sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

ET028	USITC	mo producte ecotor i tomo or e.e. madea y ana markey 2)						Percent change,
Number of establishments 600 620 600 600 600 Employees (thousands) 50.0 55.0 55.0 52.0 46.0 43.0 600 6	code	Industry/commodity group	1999	2000	2001	2002	2003	2003 from 2002
Employees (thousands)	ET028	Circuit apparatus not exceeding 1000V:						
Capacity uffilization (percent)		Number of establishments	600	620	600	600	600	0.0
U.S. shipments (million dollars)		Employees (thousands)	50.0	55.0	52.0	46.0	43.0	-6.5
U.S. shipments (million dollars)		Capacity utilization (percent)	75	80	60	60	60	0.0
U.S. imports (million dollars)			15,000	17,000	13,000	11,800	11,200	-5.1
U.S. imports (million dollars) 5,606 6,872 5,280 4,933 5,127		U.S. exports (million dollars)	4,991	6,101	5,098	4,478	4,431	-1.0
Trade balance (million dollars)		U.S. imports (million dollars)	5,606	6,872	5,280	4,933	5,127	3.9
Ratio of import's to consumption (percent) 35.9 38.7 40.1 40.2 43.1			15,615	17,771	13,182	12,255	11,896	-2.9
Ratio of exports to shipments (percent) 33.3 35.9 39.2 37.9 39.6		Trade balance (million dollars)	-615	-771	-182	-455	-696	-53.0
ET031 Cathode-ray tubes: Number of establishments 18 16 15 14 13		Ratio of imports to consumption (percent)	35.9	38.7	40.1	40.2	43.1	7.2
Number of establishments 18		Ratio of exports to shipments (percent)	33.3	35.9	39.2	37.9	39.6	4.5
Employees (thousands)	ET031							
Capacity utilization (percent)		Number of establishments	18	16	15	14		-7.1
U.S. shipments (million dollars) 3,579 3,450 2,847 2,040 1,400 U.S. exports (million dollars) 2,174 2,435 2,056 1,762 1,202 U.S. imports (million dollars) 732 634 612 607 577 Apparent U.S. consumption (million dollars) 1,442 1,801 1,403 885 775 Trade balance (million dollars) 1,442 1,801 1,444 1,155 625 Ratio of imports to consumption (percent) 34.2 38.4 43.6 68.6 74.4 Ratio of exports to shipments (percent) 60.7 70.6 72.2 86.4 85.8 ET032 Electron tubes other than CRTs: Number of establishments 43 40 38 35 33 Employees (thousands) 4.0 4.0 4.0 4.0 4.0 4.0 Capacity utilization (percent) 77 80 64 64 60 U.S. shipments (million dollars) 696 730 661 628 594 U.S. exports (million dollars) 190 213 271 247 203 Apparent U.S. consumption (million dollars) 25 -4 -93 -66 -38 Ratio of imports to consumption (percent) 28.4 29.1 36.0 35.5 32.1		Employees (thousands)		13.0	12.0			-27.3
U.S. exports (million dollars) 2,174 2,435 2,056 1,762 1,202 U.S. imports (million dollars) 732 634 612 607 577 Apparent U.S. consumption (million dollars) 2,137 1,649 1,403 885 775 Trade balance (million dollars) 1,442 1,801 1,444 1,155 625 Ratio of imports to consumption (percent) 34.2 38.4 43.6 68.6 74.4 Ratio of exports to shipments (percent) 60.7 70.6 72.2 86.4 85.8 ET032 Electron tubes other than CRTs: Number of establishments 43 40 38 35 33 Employees (thousands) 4.0 4.0 4.0 4.0 4.0 4.0 Capacity utilization (percent) 77 80 64 64 60 U.S. shipments (million dollars) 696 730 661 628 594 U.S. exports (million dollars) 190 213 271 247 203 Apparent U.S. consumption (million dollars) 25 -4 -93 -66 -38 Ratio of imports to consumption (percent) 28.4 29.1 36.0 35.5 32.1		Capacity utilization (percent)		80	64	73	83	13.7
U.S. imports (million dollars) 732 634 612 607 577 Apparent U.S. consumption (million dollars) 2,137 1,649 1,403 885 775 Trade balance (million dollars) 1,442 1,801 1,444 1,155 625 Ratio of imports to consumption (percent) 34.2 38.4 43.6 68.6 74.4 Ratio of exports to shipments (percent) 60.7 70.6 72.2 86.4 85.8 ET032 Electron tubes other than CRTs: Number of establishments 43 40 38 35 33 Employees (thousands) 4.0 4.0 4.0 4.0 4.0 Capacity utilization (percent) 77 80 664 64 60 U.S. shipments (million dollars) 696 730 661 628 594 U.S. exports (million dollars) 215 209 178 180 165 U.S. imports (million dollars) 190 213 271 247 203 Apparent U.S. consumption (million dollars) 25 -4 -93 -66 -38 Ratio of imports to consumption (percent) 28.4 29.1 36.0 35.5 32.1			3,579	3,450	2,847	2,040	•	-31.4
Apparent U.S. consumption (million dollars) 2,137 1,649 1,403 885 775 Trade balance (million dollars) 1,442 1,801 1,444 1,155 625 Ratio of imports to consumption (percent) 34.2 38.4 43.6 68.6 74.4 Ratio of exports to shipments (percent) 60.7 70.6 72.2 86.4 85.8 ET032 Electron tubes other than CRTs: Number of establishments 43 40 38 35 33 Employees (thousands) 4.0 4.0 4.0 4.0 4.0 Capacity utilization (percent) 77 80 64 64 64 60 U.S. shipments (million dollars) 696 730 661 628 594 U.S. exports (million dollars) 215 209 178 180 165 U.S. imports (million dollars) 190 213 271 247 203 Apparent U.S. consumption (million dollars) 25 -4 -93 -66 -38 Ratio of imports to consumption (percent) 28.4 29.1 36.0 35.5 32.1		U.S. exports (million dollars)	2,174	2,435	2,056	1,762	1,202	-31.8
Trade balance (million dollars) 1,442 1,801 1,444 1,155 625 Ratio of imports to consumption (percent) 34.2 38.4 43.6 68.6 74.4 Ratio of exports to shipments (percent) 60.7 70.6 72.2 86.4 85.8 ET032 Electron tubes other than CRTs: Number of establishments 43 40 38 35 33 Employees (thousands) 4.0 4.0 4.0 4.0 4.0 Capacity utilization (percent) 77 80 64 64 60 U.S. shipments (million dollars) 696 730 661 628 594 U.S. exports (million dollars) 215 209 178 180 165 U.S. imports (million dollars) 190 213 271 247 203 Apparent U.S. consumption (million dollars) 671 734 754 694 632 Trade balance (million dollars) 25 -4 -93 -66 -38 Ratio of imports to consumption (percent) 28.4 29.1 36.0 35.5 32.1		U.S. imports (million dollars)	732	634	612	607	577	-5.0
Ratio of imports to consumption (percent)			2,137	1,649	1,403	885	775	-12.5
Ratio of exports to shipments (percent)		Trade balance (million dollars)	1,442	1,801	1,444	1,155	625	-45.9
ET032 Electron tubes other than CRTs: Number of establishments		Ratio of imports to consumption (percent)	34.2	38.4	43.6	68.6		8.5
Number of establishments 43 40 38 35 33 Employees (thousands) 4.0 6.0 </td <td></td> <td>Ratio of exports to shipments (percent)</td> <td>60.7</td> <td>70.6</td> <td>72.2</td> <td>86.4</td> <td>85.8</td> <td>-0.7</td>		Ratio of exports to shipments (percent)	60.7	70.6	72.2	86.4	85.8	-0.7
Employees (thousands) 4.0 4.0 4.0 4.0 4.0 Capacity utilization (percent) 77 80 64 64 60 U.S. shipments (million dollars) 696 730 661 628 594 U.S. exports (million dollars) 215 209 178 180 165 U.S. imports (million dollars) 190 213 271 247 203 Apparent U.S. consumption (million dollars) 671 734 754 694 632 Trade balance (million dollars) 25 -4 -93 -66 -38 Ratio of imports to consumption (percent) 28.4 29.1 36.0 35.5 32.1	ET032	Electron tubes other than CRTs:						
Capacity utilization (percent) 77 80 64 64 60 U.S. shipments (million dollars) 696 730 661 628 594 U.S. exports (million dollars) 215 209 178 180 165 U.S. imports (million dollars) 190 213 271 247 203 Apparent U.S. consumption (million dollars) 671 734 754 694 632 Trade balance (million dollars) 25 -4 -93 -66 -38 Ratio of imports to consumption (percent) 28.4 29.1 36.0 35.5 32.1		Number of establishments	43	40	38	.35	33	-5.7
U.S. shipments (million dollars) 696 730 661 628 594 U.S. exports (million dollars) 215 209 178 180 165 U.S. imports (million dollars) 190 213 271 247 203 Apparent U.S. consumption (million dollars) 671 734 754 694 632 Trade balance (million dollars) 25 -4 -93 -66 -38 Ratio of imports to consumption (percent) 28.4 29.1 36.0 35.5 32.1		Employees (thousands)	4.0	4.0	4.0	4.0	4.0	0.0
U.S. exports (million dollars) 215 209 178 180 165 U.S. imports (million dollars) 190 213 271 247 203 Apparent U.S. consumption (million dollars) 671 734 754 694 632 Trade balance (million dollars) 25 -4 -93 -66 -38 Ratio of imports to consumption (percent) 28.4 29.1 36.0 35.5 32.1		Capacity utilization (percent)	77	80	64	64	60	-6.3
U.S. imports (million dollars) 190 213 271 247 203 Apparent U.S. consumption (million dollars) 671 734 754 694 632 Trade balance (million dollars) 25 -4 -93 -66 -38 Ratio of imports to consumption (percent) 28.4 29.1 36.0 35.5 32.1		U.S. shipments (million dollars)	696	730	661	628	594	-5.4
U.S. imports (million dollars) 190 213 271 247 203 Apparent U.S. consumption (million dollars) 671 734 754 694 632 Trade balance (million dollars) 25 -4 -93 -66 -38 Ratio of imports to consumption (percent) 28.4 29.1 36.0 35.5 32.1		U.S. exports (million dollars)	215	209	178	180	165	-8.7
Apparent U.S. consumption (million dollars) 671 734 754 694 632 Trade balance (million dollars) 25 -4 -93 -66 -38 Ratio of imports to consumption (percent) 28.4 29.1 36.0 35.5 32.1			190	213	271	247	203	-17.7
Trade balance (million dollars) 25 -4 -93 -66 -38 Ratio of imports to consumption (percent) 28.4 29.1 36.0 35.5 32.1			671	734	754	694	632	-8.9
The state of the s			25	-4	-93	-66	-38	42.2
		Ratio of imports to consumption (percent)	28.4	29.1	36.0	35.5		-9.6
Ratio of exports to shipments (percent)		Ratio of exports to shipments (percent)	30.9	28.7	27.0	28.7	27.7	-3.5

Table EL-4—Continued Electronic products sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
ET033	Semiconductors and integrated circuits:						
	Number of establishments	1,271	1,241	1,194	1,190	1,291	8.5
	Employees (thousands)	197.0	216.0	189.0	180.0	226.0	25.6
	Capacity utilization (percent)	86	87	57	57	86	50.9
	U.S. shipments (million dollars)	76,646	85,611	55,149	63,600	75,239	18.3
	U.S. exports (million dollars)	36,615	44,828	33,455	31,738	35,712	12.5
	U.S. imports (million dollars)	37,158	47,448	30,016	25,651	24,190	-5.7
	Apparent U.S. consumption (million dollars)	77,188	88,230	51,710	57,513	63,717	10.8
	Trade balance (million dollars)	-542	-2,619	3,439	6,087	11,522	89.3
	Ratio of imports to consumption (percent)	48.1	53.8	58.0	44.6	38.0	-14.8
	Ratio of exports to shipments (percent)	47.8	52.4	60.7	49.9	47.5	-4.8
ET035	Computers, peripherals, and parts:						
	Number of establishments	750	750	730	715	715	0.0
	Employees (thousands)	208.0	205.0	193.0	177.0	175.0	-1.1
	Capacity utilization (percent)	69	66	62	59	60	1.7
	U.S. shipments (million dollars)	113,161	110,028	89,528	82,100	84,000	2.3
	U.S. exports (million dollars)	39,300	45,392	38,125	29,534	28,038	-5.1
	U.S. imports (million dollars)	81,662	90,384	74,547	75,817	76,940	1.5
	Apparent U.S. consumption (million dollars)	155,523	155,019	125,950	128,383	132,902	3.5
	Trade balance (million dollars)	-42,362	-44,991	-36,422	-46,283	-48,902	-5.7
	Ratio of imports to consumption (percent)	52.5	58.3	59.2	59.1	57.9	-2.0
	Ratio of exports to shipments (percent)	34.7	41.3	42.6	36.0	33.4	-7.2
ET036	Photographic film and paper:						
	Number of establishments	310	310	310	310	310	0.0
	Employees (thousands)	34.0	34.0	33.0	34.0	30.0	-11.8
	Capacity utilization (percent)	85	80	65	69	73	5.8
	U.S. shipments (million dollars)	13,080	15,750	12,343	9,673	8,500	-12.1
	U.S. exports (million dollars)	2,154	2,755	1,953	2,127	2,233	5.0
	U.S. imports (million dollars)	2,009	2,205	1,856	1,865	1,820	-2.4
	Apparent U.S. consumption (million dollars)	12,934	15,200	12,247	9,411	8,087	-14.1
	Trade balance (million dollars)	146	550	[′] 96	262	413	57.5
	Ratio of imports to consumption (percent)	15.5	14.5	15.2	19.8	22.5	13.6
	Ratio of exports to shipments (percent)	16.5	17.5	15.8	22.0	26.3	19.5

Table EL-4—Continued Electronic products sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
ET037	Optical fibers, optical fiber bundles and cables:			2001	2002	2000	2000 11 0111 2002
L 1037	Number of establishments	68	72	60	45	47	4.4
	Employees (thousands)	14.0	15.0	13.0	8.0	8.0	. 0.0
	Capacity utilization (percent)	95	95	88	65	68	4.6
	U.S. shipments (million dollars)	4,800	5,800	5,300	4,000	4,300	7.5
	U.S. exports (million dollars)	1,081	1,888	1,689	4,000	437	-7.8
	U.S. imports (million dollars)	729	1,399	1,244	252	210	-7.8 -16.7
	Apparent U.S. consumption (million dollars)	4,448	5,312	4,854	3,778	4,073	7.8
	Trade balance (million dollars)	352	488	4,654	222	227	2.2
	Ratio of imports to consumption (percent)	16.4	26.3	25.6	6.7	5.1	-23.9
	Ratio of exports to shipments (percent)	22.5	32.5	31.9	11.8	10.2	-13.6
ET038	Optical goods, including ophthalmic goods:	22.0	32.5	31.9	11.0	10.2	-13.0
L 1030	Number of establishments	950	1,000	900	850	855	0.6
	Employees (thousands)	63.0	70.0	60.0	50.0	50.0	0.0
		87	92	82	78	78	0.0
	Capacity utilization (percent)	6,550	8,515	7,960	7,700	7,800	1.3
						3,309	-6.8
	U.S. exports (million dollars)	2,682	3,995	3,727 4,957	3,548 4,142	4,495	8.5
	U.S. imports (million dollars)	4,225 8,093	5,881 10,402	4,957 9,190		4,495 8,986	8.3
	Apparent U.S. consumption (million dollars)	,	•	•	8,294 -594		-99.7
	Trade balance (million dollars)	-1,543	-1,887 -56.5	-1,230		-1,186 50.0	-99.7 (1)
	Ratio of imports to consumption (percent)	52.2	56.5	53.9	49.9	50.0	-8.0
ET000	Ratio of exports to shipments (percent)	40.9	46.9	46.8	46.1	42.4	-0.0
ET039	Photographic cameras and equipment:	400	400	400	428	428	0.0
	Number of establishments	428	428	428		426 9.0	-18.2
	Employees (thousands)	20.0	16.0	13.0	11.0	9.0 54	0.0
	Capacity utilization (percent)	62	53	54	54		-15.9
	U.S. shipments (million dollars)	8,397	5,463	3,567	2,854	2,400	
	U.S. exports (million dollars)	1,825	1,800	1,694	1,187	954	-19.6
	U.S. imports (million dollars)	5,843	5,299	3,560	3,029	2,715	-10.4
	Apparent U.S. consumption (million dollars)	12,415	8,962	5,433	4,696	4,161	-11.4
	Trade balance (million dollars)	-4,018	-3,499	-1,866	-1,842	-1,761	4.4
	Ratio of imports to consumption (percent)	47.1	59.1	65.5	64.5	65.2	1.1
	Ratio of exports to shipments (percent)	21.7	32.9	47.5	41.6	39.7	-4.6

Table EL-4—Continued Electronic products sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC		4000				0000	Percent change,
code	Industry/commodity group	1999	2000	2001	2002	2003	2003 from 2002
ET040	Medical goods:						
	Number of establishments	2,340	2,345	2,350	2,350	2,380	1.3
	Employees (thousands)	183.0	185.0	188.0	190.0	192.0	1.1
	Capacity utilization (percent)	91	92	94	94	95	1.1
	U.S. shipments (million dollars)	31,500	33,075	37,000	41,440	44,755	8.0
	U.S. exports (million dollars)	12,455	13,411	14,987	15,059	16,827	11.7
	U.S. imports (million dollars)	7,932	9,178	10,869	13,232	16,143	22.0
	Apparent U.S. consumption (million dollars)	26,978	28,843	32,881	39,614	44,072	11.3
	Trade balance (million dollars)	4,522	4,232	4,119	1,826	683	-62.6
	Ratio of imports to consumption (percent)	29.4	31.8	33.1	33.4	36.6	9.6
	Ratio of exports to shipments (percent)	39.5	40.5	40.5	36.3	37.6	3.6
ET041	Watches and clocks:						
	Number of establishments	145	145	145	145	145	0.0
	Employees (thousands)	7.0	7.0	6.0	6.0	6.0	0.0
	Capacity utilization (percent)	62	61	55	51	46	-9.8
	U.S. shipments (million dollars)	1,168	1,151	1,018	920	900	-2.2
	U.S. exports (million dollars)	335	348	279	235	242	3.3
	U.S. imports (million dollars)	3,136	3,354	2,957	3,098	3,291	6.2
	Apparent U.S. consumption (million dollars)	3,969	4,157	3,696	3,784	3,949	4.4
	Trade balance (million dollars)	-2,801	-3,006	-2,678	-2,864	-3,049	-6.5
	Ratio of imports to consumption (percent)	79.0	80.7	80.0	81.9	83.3	1.7
	Ratio of exports to shipments (percent)	28.7	30.3	27.4	25.5	26.9	5.5
ET042	Drawing, drafting, and calculating instruments:						
	Number of establishments	175	175	180	180	180	0.0
	Employees (thousands)	10.0	11.0	13.0	13.0	13.0	0.0
	Capacity utilization (percent)	75	80	80	75	70	-6.7
	U.S. shipments (million dollars)	605	720	825	875	865	-1.1
	U.S. exports (million dollars)	415	366	395	368	364	-1.0
	U.S. imports (million dollars)	431	234	207	192	223	16.5
	Apparent U.S. consumption (million dollars)	620	588	637	699	724	3.6
	Trade balance (million dollars)	-15	132	188	176	141	-20.0
	Ratio of imports to consumption (percent)	69.4	39.8	32.6	27.4	30.8	12.4
	Ratio of exports to shipments (percent)	68.7	50.8	47.9	42.0	42.1	(¹)
							• •

Table EL-4—Continued Electronic products sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
ET043	Measuring, testing, and controlling instruments:						
	Number of establishments	3,235	3,235	3,235	3,235	3,235	0.0
	Employees (thousands)	245.0	245.0	245.0	242.0	240.0	-0.8
	Capacity utilization (percent)	75	75	75	75	75	0.0
	U.S. shipments (million dollars)	39,200	44,790	55,000	58,300	58,000	-0.5
	U.S. exports (million dollars)	14,480	16,629	15,605	14,346	14,683	2.4
	U.S. imports (million dollars)	9,656	11,743	11,806	11,595	12,638	9.0
	Apparent U.S. consumption (million dollars)	34,376	39,904	51,201	55,549	55,954	0.7
	Trade balance (million dollars)	4,824	4,886	3,799	2,751	2,046	-25.6
	Ratio of imports to consumption (percent)	28.1	29.4	23.1	20.9	22.6	8.1
	Ratio of exports to shipments (percent)	36.9	37.1	28.4	24.6	25.3	2.8

¹Less than 0.05 percent.

Note.-Calculations based on unrounded data.

Source: These data have been estimated by the Commission's international trade analysts on the basis of primary and secondary data sources including discussions with various Government and industry contacts. These estimated data are subject to change either from secondary sources or from detailed surveys the Commission often conducts in the course of statutory investigations or other work. Further, these data may undergo adjustments based on revisions in tariff nomenclature, classification practices, or redefinitions of industry classes.

Miscellaneous Manufactures

Gail Burns, Coordinator (202) 205-2501 gail.burns@usitc.gov

Change in 2003 from 2002:

U.S. trade deficit: Increased by \$2.8 billion (5 percent) to \$59.9 billion U.S. exports: Decreased by \$146 million (1 percent) to \$14.9 billion U.S. imports: Increased by \$2.6 billion (4 percent) to \$74.8 billion

The U.S trade deficit in miscellaneous manufactures¹ continued to expand in 2003, but at a considerably slower rate than in 2002 (see table MS-1). The trade deficit increased by \$2.8 billion in 2003, compared with the \$7 billion increase in 2002 when the deficit reached \$57.1 billion. Expansion of the U.S. trade deficit reflected little change in U.S. exports and a 4-percent growth in U.S. imports (compared with an 8-percent increase in 2002). The slower growth in imports in 2003 reflects reduced imports of video games, as the market matured for the generation of game consoles introduced in late 2001 and early 2002 (see table MS-2).

Historically, the United States has maintained a trade deficit in the miscellaneous manufactures sector as production processes of these goods tend to be labor intensive and the production technology is readily transferable to developing or newly industrialized countries. China is the dominant supplier of sector products other than works of art and seats for motor vehicles and aircraft. Numerous sector imports are produced in China and elsewhere in Asia under license from U.S. companies. Asian countries were the source of 64 percent of U.S. imports of all sector products in 2003; China accounted for 48 percent.

Canada was the leading market for U.S. exports of miscellaneous manufactures in 2003, taking one-quarter of the total, followed by the EU at 23 percent. Japan and Mexico accounted for 11 and 10 percent, respectively. Leading export categories are paintings returning to Europe or sold to investors in Japan, furniture and copyrighted games to Canada, military weapons to strategic allies, and parts for assembly in Mexico and Asia (see table MS-1).

The miscellaneous manufactures industries with the largest import and export shifts are shown in the table MS-2. Furniture, the largest traded commodity in this sector, registered a \$2.0 billion increase in U.S. imports in 2003 (see Furniture). Other commodity groups within the sector experiencing sizeable shifts in trade in 2003 included games, works of art, and seats for motor vehicles and aircraft. These

¹ U.S. imports of miscellaneous manufactures tend to be concentrated in products for which there is no competing U.S. industry (e.g., certain works of art), where there is no remaining U.S. production (e.g., home video games and Christmas decorations), that require semiskilled assembly (e.g., jewelry, furniture, lamps and lighting fittings), or that require sewing (e.g., luggage, automobile seat covers, and baseballs) or low-technology injection molding (e.g., toys and dolls). Less import-sensitive industry/commodity groups are characterized by products with high transportation costs (e.g., upholstered furniture and fairground amusement rides), low raw-material cost in the United States relative to those of foreign producers (e.g., baseball bats and silverware), or for which U.S. manufacturers have superior design and production technology or copyright protection (e.g., water skis and board games).

Table MS-1
Miscellaneous manufactures: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1999-2003¹

						Change, 200	3 from 2002
Item	1999	2000	2001	2002	2003	Absolute	Percent
-			— Million dolla	ars ———			
U.S. exports of domestic merchandise: China Canada Mexico Italy Japan United Kingdom Taiwan France Germany Thailand All other	3,883 1,717 251 1,598 1,382 227 345 493 55,206	132 4,177 1,177 2,1657 1,1657 1,5348 5,90 5,429	136 3,759 1,759 2,750 2,007 1,516 404 505 667 5,387	137 3,561 1,6887 1,6886 1,3230 334 455 5,280	143 3,697 1,517 1,604 1,329 299 450 5,225	66772233855516 1772233855516 1-1-63-1516	4.1 3.85 -105.9 -4.0.7 -1.0.7 -1.1 -0.1
Total EU-15 OPEC Latin America CBERA Asia Sub-Saharan Africa Central and Eastern Europe	15,270 3,502 641 2,913 579 2,945 69 39	16,872 3,987 401 3,244 674 3,662 73 39	16,428 4,119 461 2,970 688 3,629 99 39	15,004 3,434 394 2,869 3,303 69 38	14,859 3,344 456 2,755 827 3,151 89 45	-146 -90 63 -114 37 -153 19	-1.0 -2.6 15.9 -4.0 4.7 -4.6 27.7 19.1
U.S. imports of merchandise for consumption: China Canada Mexico Italy Japan United Kingdom Taiwan France Germany Thailand All other	21,733 5,740 4,697 3,689 4,179 1,804 2,969 2,446 1,073 1,435	25,365 6,452 5,160 3,971 3,946 1,923 3,052 2,989 1,1665 11,636	25,690 5,931 5,295 3,818 4,732 1,730 2,427 2,914 1,107 1,693 11,238	31,490 5,967 6,356 4,020 3,399 1,602 2,325 2,546 1,189 1,634 11,598	35,812 6,137 6,252 3,852 1,992 1,496 2,282 2,220 1,409 1,670 11,643	4,321 170 -104 -168 -1,407 -107 -43 -327 220 36 45	13.7 2.9 -1.6 -4.2 -41.4 -6.7 -1.9 -12.8 18.5 2.2 0.4
Total EU-15 OPEC Latin America CBERA Asia Sub-Saharan Africa Central and Eastern Europe	60,312 10,845 952 5,863 475 35,972 99 372	67,322 11,745 1,119 6,393 408 40,365 97 468	66,575 11,403 1,126 6,582 419 40,296 109 589	72,129 11,338 1,125 7,779 465 44,775 118 485	74,765 10,815 1,053 7,582 418 47,838 123 542	2,636 -523 -72 -197 -47 3,062 6 57	3.7 -4.6 -6.4 -20.1 6.8 5.0 11.7

Table MS-1--Continued

Miscellaneous manufactures: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1999-2003¹

						Change, 200	3 from 2002
Item	1999	2000	2001	2002	2003	Absolute	Percent
-			— Million dolla	ars ———			
U.S. merchandise trade balance: China Canada Mexico Italy Japan United Kingdom Taiwan France Germany Thailand All other	-21,620 -1,858 -2,980 -3,438 -2,581 -422 -2,742 -2,101 -580 -1,380 -5,342	-25, 233 -2, 278 -3, 184 -3, 806 -1, 890 -417 -2, 704 -2, 571 -573 -1, 588 -6, 207	-25,554 -2,172 -3,566 -3,568 -2,724 -2,022 -2,409 -440 -1,627 -5,851	-31,353 -2,406 -4,668 -3,785 -1,713 -275 -2,095 -2,213 -734 -1,564 -6,318	-35,669 -2,440 -4,741 -3,605 -388 -181 -1,984 -1,959 -1,600 -6,418	-4,316 -34 -73 180 1,325 94 112 292 -225 -36 -100	-13.8 -1.4 -1.6 4.7 77.4 34.2 -30.6 -2.3 -1.6
Total EU-15 OPEC Latin America CBERA Asia Sub-Saharan Africa Central and Eastern Europe	-45,042 -7,343 -312 -2,950 104 -33,027 -30 -332	-50,450 -7,759 -718 -3,149 266 -36,703 -24 -429	-50,147 -7,284 -665 -3,612 269 -36,667 -9 -550	-57,124 -7,905 -732 -4,910 324 -41,472 -48 -447	-59,906 -7,471 -597 -4,827 -409 -44,687 -35 -496	-2,782 434 135 83 84 -3,215 13 -50	-4.9 5.5 18.4 1.7 26.0 -7.8 27.9 -11.1

¹Import values are based on customs value; export values are based on f.a.s. value, U.S. port of export.

Note.—Calculations based on unrounded data. The countries shown are those with the largest total U.S. trade (U.S. imports plus exports) in these products in 2003.

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table MS-2 Leading changes in U.S. exports and imports of miscellaneous manufactures, 1999-2003

						Change, 200	3 from 2002
Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percen
			Million a	lollars ———			
U.S. EXPORTS:							
Increases:							
Games (MM060)	936	944	788	858	1.084	226	26.4
Furniturè (MM054)	2,597	3,026	2,689	2,409	2,595	186	7.7
Works of art and miscellaneous manufactured	_,	-,	-,	_,	_, -,		
goods (MM064)	1.731	2,142	2,177	1,379	1.561	182	13.2
Decreases:	1,.01	_,	_, , , , ,	1,010	1,001	102	10.2
Seats for motor vehicles and aircraft (MM067)	1.878	1,861	1.808	1,641	1,260	-381	-23.2
Arms and ammunition (MM066)	2,152	2,151	2,130	2,019	1,736	-282	-14.0
Precious jewelry and related articles (MM051)	822	1,272	1,659	1,826	1,770	-56	-3.1
All other	5,152	5,475	5,176	4,873	4,852	-20	-0.4
All Outer	J, 1 J Z	5,475	3,170	4,073	4,002	-20	-0.4
TOTAL	15,270	16,872	16,428	15,004	14,859	-146	-1.0
U.S. IMPORTS:							
Increases:							
Furniture (MM054)	12,775	15,159	14,839	17,028	19,035	2,007	11.8
Seats for motor vehicles and aircraft (MM067)	3,024	3,209	3,239	3.886	4,489	603	15.5
Luggage, handbags, and flat goods (MM046)	4,073	4,381	4.309	4,412	4,734	322	7.3
Precious jewelry and related articles (MM051)	5,063	5,737	5,533	6,261	6,559	298	4.8
Sporting goods (MM061)	3,003	3,565	3.632	3,859	4,149	289	7.5
Decreases:	3,027	3,303	3,032	3,033	4,143	200	7.5
	4.086	3.879	5,537	5.887	4.985	-902	-15.3
Games (MM060)	4,000	3,019	5,557	5,007	4,965	-902	-10.0
Works of art and miscellaneous manufactured	0.400	0.044	0.24.2	0.074	0.556	-718	-7.7
goods (MM064)	8,463	9,641	9,312	9,274	8,556		
All other	19,799	21,753	20,173	21,522	22,258	736	3.4
TOTAL	60,312	67,322	66,575	72,129	74,765	2,636	3.7

Note.-Calculations based on unrounded data.

Source: Compiled from official statistics of the U.S. Department of Commerce.

changes were led by declining imports of video games and paintings, and increased imports of parts for car seats.

U.S. imports of games, which accounted for 7 percent of total sector imports in 2003, fell 15 percent during the year. Home video games (video game consoles) accounted for nearly one-half of the imports of games² in 2003. This product segment is subject to sharp swings in levels of trade as demand surges with the introduction of each new generation of video games, settles into a plateau in the ensuing (usually post-Christmas) months, then falls as prices are cut on the mature product and customers await the introduction of the next generation of games. All three producers of video game consoles (Nintendo, Sony, and Microsoft) introduced their versions of the new generation in late 2001 and early 2002, leading to a sharp increase in imports in 2002. As the market matured in 2003, imports of video game consoles declined 35 percent to \$2.4 billion. Imports of all other types of games (including handheld video games, most of which are assembled in China) rose by \$381 million (18 percent) in 2003 to \$2.6 billion. The three video game console producers manufactured the bulk of their new generation of video games in Japan and Mexico in 2002. As the market matured, production by each was shifted to China. As a result, U.S. imports of all type of games (predominantly video game consoles) from Japan and Mexico dropped by \$1.4 billion (65 percent) to \$726 million and by \$633 million (92 percent) to \$55 million, respectively in 2003. Meanwhile, imports of all games from China grew by \$1.1 billion (41 percent) to \$3.7 billion. Video game consoles accounted for over half of this increase from China, rising by \$537 million (34 percent) to \$2.1 billion.

U.S. imports under the category works of art and miscellaneous manufactures goods fell by \$718 million (8 percent) in 2003 as imports of paintings and antiques fell by \$749 million and \$97 million, respectively. Imports of such items include goods that are destined for private buyers and auction houses, as well as items entered for temporary exhibition. Such articles are recorded as U.S. exports when they are returned to their home museum. Exports of paintings and antiques increased by \$152 million and \$23 million, respectively, in 2003. The leading sources of paintings in 2003 were France, Spain, and the United Kingdom. The same countries, plus Germany and Switzerland, were the leading destinations.

Mexico is the leading foreign supplier of seats and parts used in the assembly of motor vehicles in North America, accounting for 70 percent (\$3.1 billion) of total U.S. imports of seats for motor vehicles and aircraft in 2003. Canada supplied 16 percent (\$718 million). Parts accounted for 91 percent of U.S. imports in this category, with Mexico typically supplying seat covers sewn in maquiladora operations and Canada providing motorized units for power-adjustable seats. There was an incremental shift in the final assembly of motor vehicle seats and interior modules from Mexico and Canada to the United States in 2003. Certain models made in Mexico lost their popularity in the U.S. market³ and a 15-percent appreciation of the Canadian dollar against the U.S. dollar led manufacturers to favor assembly in the United States rather than Canada to reduce costs. As a result, the production of some Mexican and Canadian parts was redirected from vehicle assembly plants in Mexico and Canada to U.S. plants. U.S. imports of car seats and parts from Mexico rose by \$430 million (16 percent) in 2003, and imports from Canada increased by \$109 million (12 percent).⁴

Overall, there was little change in U.S. exports of miscellaneous manufactures between 2002 and 2003. U.S. exports of games climbed by \$226 million, with exports of pinball machines, arcade video games, and home video game software to Canada, the EU, and South America accounting for most of the

² Games include (1) video games of a kind used with a television receiver (home video games or video game consoles); (2) coin-operated game machines (arcade games), including video games and pinball machines; (3) equipment for billiards; (4) playing cards; (5) chess, checkers, and other board games; (6) arcade, table or parlor games; and (7) bowling alley equipment.

³ "Detroit South Faces Competition from Detroit East," Mexico Watch, Aug. 1, 2003, p. 6.

⁴ For more information, see Transportation Equipment.

increase. Exports of works of art and miscellaneous manufactured goods rose by \$182 million in 2003, with paintings, sculptures, and antiques accounting for all of the increase. The return of touring collections to Switzerland, the United Kingdom, and Spain accounted for much of the increase in exports. Exports of parts of seats for motor vehicles fell by \$309 million (23 percent) as fewer vehicles were assembled in Mexico and Canada, the predominant markets for such exports. Exports of arms and ammunition dropped by \$282 million, as sales of military weapons and munitions by entities other than the Department of Defense fell. Exports of bombs, grenades, torpedoes, mines, missiles, and similar munitions fell by \$221 million (17 percent) and exports of rocket launchers, flame-throwers, grenade launchers, torpedo tubes, and similar projectors dropped by \$101 million (73 percent). The sharpest declines in exports of arms and ammunition were to Korea, Egypt, Japan, and Bahrain.

⁵ Exports by the Department of Defense are not reported in statistics of the U.S. Department of Commerce.

COMMODITY ANALYSIS OF FURNITURE⁶

Change in 2003 from 2002:

U.S. trade deficit: Increased by \$1.8 billion (13 percent) to \$16.4 billion U.S. exports: Increased by \$186 million (8 percent) to \$2.6 billion U.S. imports: Increased by \$2.0 billion (12 percent) to \$19.0 billion

Continued low interest rates in the United States in 2003 contributed to a strong market for both new houses and home renovations, which in turn led to growth in the U.S. furniture market. Imports continued to expand their share of apparent U.S. consumption from 20 percent in 2002 to 22 percent in 2003, as imports grew 12 percent to \$19.0 billion, while U.S. manufacturers' shipments of furniture and related products edged downward 0.3 percent (\$228 million) to \$69.8 billion.⁷

Overall, the U.S. trade deficit in furniture expanded by \$1.8 billion to reach \$16.4 billion in 2003, somewhat lower than the deficit growth in 2002 which registered an increase of \$2.5 billion. China accounted for \$1.6 billion of the increase in the trade deficit in 2003, compared with \$1.8 billion of the increase in 2002.8

U.S. exports

NAFTA partners Canada and Mexico accounted for nearly three-fifths of total furniture exports from the United States in 2003. Lower transportation costs relative to other markets and shared tastes in furniture styles encourage cross border trade with Canada. U.S. exports of furniture to Mexico include office furniture for U.S. multinational operations and U.S.-made furniture components that are subsequently assembled into complete articles of furniture in maquiladora operations and destined chiefly for the U.S. market.

While U.S. exports to Canada increased by a modest 4 percent in 2003, exports to Mexico nearly doubled. The \$186 million increase in exports to Mexico matched the total growth in exports of furniture in 2003 (see table MS-3). Exports of parts of seats (which includes parts of sofas as well as chairs) to Mexico more than quintupled in 2003, rising by \$188 million to reach \$223 million and accounted for over one-half of all U.S. furniture exports to Mexico. An estimated one-quarter of the increase in exports of furniture parts went to plants for the assembly of upholstered furniture. Another one-quarter of the growth in exports of parts was accounted for by operations that further processed the parts, then exported them to furniture factories in the United States.

U.S. imports

The \$1.6 billion increase in U.S. imports from China accounted for three-quarters of the rise in total imports of furniture in 2003 (see table MS-4) and 86 percent of the increase in the total U.S. trade

⁶ This industry/commodity group includes any movable articles which have the essential characteristic that they are constructed for placing on the floor or ground and have a utilitarian purpose, to equip homes and buildings (see *Explanatory Notes to the Harmonized System*, Section XX, Chapter 94 Gen., p.1698.)

⁷ U.S. Census Bureau, *Manufacturers' Shipments, Inventories, and Orders: December 2003*, issued Feb. 2004, p. 3.

⁸ China is the subject of an antidumping investigation in which the Commission made a preliminary determination of a reasonable indication that the U.S. industry was materially injured by reason of imports of wooden bedroom furniture from China. This determination was sent to the U.S. Department of Commerce on Jan. 12, 2004, and the final phase of the investigation is to be scheduled. See USITC, Inv. No. 731-TA-1058, *Wooden Bedroom Furniture from China*, publication 3667, Jan. 2004.

deficit in furniture. China was the leading supplier of U.S. imports of furniture, with its share of U.S. furniture imports rising from 38 percent to 42 percent during 2002-03.

The principal categories for imports of furniture are wood (54 percent), metal (19 percent), and upholstered (13 percent) (see table MS-4). China was the leading supplier to the United States in each of these product categories in 2003. The furniture industry in China has expanded with substantial investments from Taiwan and the United States. As labor costs in Taiwan rose, furniture companies there shifted much of their production to China. More recently, U.S. furniture companies have shifted production of certain labor-intensive styles and components to China, incorporating components from China into their domestic production and importing entire suites of fully assembled furniture to broaden their production lines. China's competitive advantages include a highly consolidated furniture industry that has significant domestic and regional sources of timber, economies of scale, low-cost labor, and state-of-the-art production facilities.

Imports of wood furniture from China rose by \$778 million (23 percent) in 2003 and accounted for 84 percent of the \$925 million growth in total imports of wood furniture that year. Leading growth categories in wood furniture were bedroom furniture (by \$346 million), dining room tables (by \$290 million), and office furniture (by \$47 million). Imports of wood furniture from Vietnam more than doubled in 2003 to reach \$158 million, and grew by \$90 million for the second largest absolute increase by all foreign suppliers to the U.S. market.

Furniture produced in China accounts for an increased share of the U.S. market for upholstered furniture, with U.S. imports growing by \$257 million (63 percent) in 2003, following a \$200 million (72 percent) expansion the previous year. China accounted for 61 percent of the total increase in imports of upholstered furniture in 2003, which rose by \$420 million. Leather tanneries and processing plants in China, which have traditionally supplied materials for producers of athletic shoes and hiking boots, are beginning to expand production to leather sofas and chairs. As a result, China has overtaken Italy as the leading supplier of upholstered furniture. China has become an important supplier of fabric to the U.S. upholstered furniture industry, with imports of furniture components of textile material nearly doubling in 2003, growing by \$162 million to reach \$327 million.

Imports of upholstered furniture from Mexico rose by \$41 million in 2003, reaching \$296 million and accounting for the second-largest increase in the category after China. Industry sources attribute this growth to the gradual shift in production over the past decade from Southern California to Baja, Mexico, because of the strict air pollution standards in the Los Angeles Basin and lower labor costs in Mexico.¹⁰

Josephine Spalding-Masgarha (202) 205-3498 josephine.spalding@usitc.gov

⁹ Leather furniture accounts for the bulk of upholstered furniture imported from China and Italy.

¹⁰ Russ Batsun, Director, American Furniture Manufacturers Association, Washington, DC, telephone interview with USITC staff, Apr. 20, 2004.

Table MS-3 U.S. exports of furniture , 1999-2003

						Change, 2003 f	rom 2002
Item	1999	2000	2001	2002	2003	Absolute	Percent
			Mill	ion dollars –		-	
Wood furniture	938	1,023	923	879	919	40	5
Metal furniture	667	848	679	552	496	-56	-10
Upholstered furniture	228	239	219	205	224	19	9
All other furniture	762	916	868	773	956	183	24
Total	2,597.00	3,026.00	2,689.0	2,409.00	2,595.	186	8

Note.-Calculations based on unrounded data.

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table MS-4 U.S. imports of furniture, 1999-2003

						Change, 2003 f	rom 2002
Item	1999	2000	2001	2002	2003	Absolute	Percent
			Milli	on dollars -		_	
Wood furniture	6,768	8,054	8,004	9,403	10,328	925	10
Metal furniture	2,994	3,631	3,377	3,621	3,618	-3	1
Upholstered furniture	1,393	1,694	1,688	2,006	2,426	420	21
All other	1,998	1,780	1,770	1,998	2,663	665	33
Total	12,775	15,159	14,839	17,028	19,035	2,007	12

¹ Less than -0.5 percent.

Note.-Calculations based on unrounded data.

Table MS-5
Miscellaneous manufactures: U.S. trade for industry/commodity groups and subgroups, 1999-2003¹

USITC							Change, 200	3 from 2002
code ²	Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent
				Million	dollars ——			
MM046	Luggage, handbags, and flat goods:							
	Exports	329	351	308	278	298	20	7.2
	Imports	4,073	4,381	4,309	4,412	4,734	322	7.3
	Trade balance	-3,744	-4,029	-4,001	-4,134	-4,437	-302	-7.3
MM046A	Luggage:							
	Exports	250	253	223	194	187	-7	-3.6
	Imports	2,619	2,741	2,667	2,656	2,622	-34	-1.3
	Trade balance	-2,369	-2,489	-2,444	-2,462	-2,435	27	1.1
MM046B	Handbags:							
	Exports	42	63	58	55	76	21	39.2
	Imports	1,004	1,179	1,203	1,301	1,503	201	15.5
	Trade balance	-963	-1,116	-1,146	-1,247	-1,426	-180	-14.4
MM046C	Flat goods:							
	Exports	32	30	22	25	23	-2	-9.8
	Imports	428	435	417	433	473	40	9.3
	Trade balance	-396	-404	-396	-408	-451	-43	-10.5
MM047	Certain other leather goods:							
	Exports	123	173	100	94	87	-8	-8.1
	Imports	209	242	256	291	348	58	19.8
	Trade balance	-86	-69	-1 56	-197	-262	-65	-33.2
MM048	Musical instruments and accessories:							
	Exports	360	371	398	373	381	8	2.2
	Imports	1,256	1,413	1,300	1,306	1,363	57	4.3
	Trade balance	-896	-1,042	-902	-933	-982	-48	- 5.2
MM049	Umbrellas, whips, riding crops, and canes:							
	Exports	11	11	11	9	7	-1	-15.6
	Imports	248	284	293	275	310	35	12.7
	Trade balance	-237	-273	-281	-266	-303	-36	-13.6
MM050	Silverware and related articles of precious metal:							
	Exports	123	165	180	155	161	5	3.4
	Imports	57	68	57	54	68	14	26.6
	Trade balance	66	98	124	101	92	-9	-8.9
MM051	Precious jewelry and related articles:							
	Exports	822	1,272	1,659	1,826	1,770	-56	-3.1
	Imports	5,063	5,737	5,533	6,261	6,559	298	4.8
	Trade balance	-4,241	-4,464	-3,874	-4,435	-4,789	-355	-8.0

Table MS-5--*Continued*Miscellaneous manufactures: U.S. trade for industry/commodity groups and subgroups, 1999-2003¹

USITC							Change, 200	3 from 2002
code ²	Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent
				Million	dollars			
MM052	Costume jewelry and related articles:							
	Exports	133	127	113	104	100	-4	-3.5
	Imports	546	619	655	750	816	67	8.9
	Trade balance	-413	-492	-542	-646	-716	-70	-10.9
MM053	Bicycles and certain parts:							
	Exports	271	235	226	216	240	24	11.1
	Imports	1,199	1,348	1,025	1,125	1,106	-19	-1.7
	Trade balance	-928	-1,113	-799	-909	-867	43	4.7
MM054	Furniture:							
	Exports	2,597	3,026	2,689	2,409	2,595	186	7.7
	Imports	12,775	15,159	14,839	17,028	19,035	2,007	11.8
	Trade balance		-12,132	-12,150	-14,620	-16,440	-1,820	-12.5
MM055	Writing instruments and related articles:							
	Exports	333	288	263	269	241	-28	-10.4
	Imports	965	1,146	1,027	1,044	1,100	56	5.4
	Trade balance	-632	-857	-764	-775	-859	-84	-10.8
MM056	Lamps and lighting fittings:							
	Exports	585	678	648	671	628	-43	-6.3
	Imports	3,858	4,496	4,148	4,605	4,781	176	3.8
	Trade balance	-3,272	-3,818	-3,500	-3,934	-4,153	-219	-5.6
MM057	Prefabricated buildings:	,		·	•			
	Exports	327	331	291	275	309	33	12.1
	Imports	221	281	308	341	347	6	1.8
	Trade balance	107	50	-17	-66	-39	27	41.3
MM058	Dolls:							
	Exports	25	30	33	24	20	-4	-16.1
	Imports	1,374	1,475	1,218	1,257	1,226	-31	-2.5
	Trade balance	-1,349	-1,445	-1.186	-1,233	-1,206	28	2.2
MM059	Toys:	,	•	,	·	•		
	Exports	497	532	489	424	378	-46	-10.9
	Imports	7,978	8,462	7,905	8,292	8,452	160	1.9
	Trade balance	-7.481	-7,930	-7,416	-7,868	-8,074	-206	-2.6
MM060	Games:	.,	.,	.,	.,	-,		
	Exports	936	944	788	858	1,084	226	26.4
	Imports	4.086	3,879	5,537	5,887	4,985	-902	-15.3
	Trade balance	-3,150	-2,935	-4.748	-5,029	-3,901	1,128	22.4
	made balance	0,100	2,000	.,	0,0-0	-,	.,	

Table MS-5--*Continued*Miscellaneous manufactures: U.S. trade for industry/commodity groups and subgroups, 1999-2003¹

USITC		Change, 2003 from							
code ²	Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent	
				Million o	dollars				
MM061	Sporting goods:								
	Exports	1,621	1,679	1,672	1,537	1,534	-3	-0.2	
	Imports	3,027	3,565	3,632	3,859	4,149	289	7.5	
	Trade balance	-1,407	-1,886	-1,960	-2,322	-2,615	-292	-12.6	
MM062	Smokers' articles:								
	Exports	71	77	77	82	93	10	12.7	
	Imports	134	140	163	139	170	31	22.0	
	Trade balance	-63	-63	-86	-57	-77	-20	-35.4	
MM063	Brooms, brushes, and hair grooming articles:								
	Exports	206	243	213	205	228	24	11.6	
	Imports	955	859	894	999	1,011	12	1.2	
	Trade balance	-750	-616	-682	-795	-783	12	1.5	
MM063 <i>A</i>	Brooms and brushes:								
	Exports	179	214	187	185	211	27	14.4	
	Imports	614	625	697	815	847	32	3.9	
	Trade balance	-435	-410	-510	-630	-635	-5	-0.9	
MM063B	Hair grooming articles, non-electric (except brushes):								
	Exports	27	28	25	20	17	-3	-13.7	
	Imports	341	234	197	184	164	-20	-10.8	
	Trade balance	-315	-205	-172	-164	-147	17	10.4	
MM064	Works of art and miscellaneous manufactured								
	goods:								
	Exports	1,731	2,142	2,177	1,379	1,561	182	13.2	
	Imports	8,463	9,641	9,312	9,274	8,556	-718	-7.7	
	Trade balance	-6,732	-7,499	-7,136	-7,895	-6,995	900	11.4	
MM065	Apparel fasteners:								
	Exports	140	183	154	157	148	-9	-5.9	
	Imports	89	85	73	65	69	4	5.9	
	Trade balance	51	98	81	92	79	-13	-14.2	
MM066	Arms and ammunition:								
	Exports	2,152	2,151	2,130	2,019	1,736	-282	-14.0	
	Imports	711	836	850	978	1,090	112	11.4	
	Trade balance	1,442	1,314	1,280	1,040	646	-394	-37.9	

Table MS-5--Continued Miscellaneous manufactures: U.S. trade for industry/commodity groups and subgroups, 1999-2003¹

USITC							Change, 2003 from 2002		
code ²	Industry/commodity group	1999	2000	2001	2002	2003	Absolute	Percent	
				— Million o	dollars				
MM066A	Small arms and ammunition:								
	Exports	464	535	558	480	551	71	14.8	
	Imports	608	637	679	800	873	73	9.1	
	Trade balance	-144	-102	-120	-320	-321	-2	-0.6	
MM067	Seats for motor vehicles and aircraft:								
	Exports	1,878	1,861	1,808	1,641	1,260	-381	-23.2	
	Imports	3,024	3,209	3,239	3,886	4,489	603	15.5	
	Trade balance	-1,146	-1,348	-1,431	-2,245	-3,229	-984	-43.8	

Note.—Calculations based on unrounded data.

¹Import values are based on customs value; export values are based on f.a.s. value, U.S. port of export.

²This coding system is used by the U.S. International Trade Commission to identify major groupings and subgroupings of HTS import and export items for trade monitoring purposes

Table MS-6
Miscellaneous manufactures sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
MM046A	Luggage:						
	Number of establishments	223	209	189	183	181	-1.1
	Employees (thousands)	8.0	7.0	6.0	6.0	6.0	0.0
	Capacity utilization (percent)	67	67	68	68	72	5.9
	U.S. shipments (million dollars)	964	972	853	825	875	6.1
	U.S. exports (million dollars)	250	253	223	194	187	-3.6
	U.S. imports (million dollars)	2,619	2,741	2,667	2,656	2,622	-1.3
	Apparent U.S. consumption (million dollars)	3,333	3,461	3,297	3,287	3,310	0.7
	Trade balance (million dollars)	-2,369	-2,489	-2,444	-2,462	-2,435	1.1
	Ratio of imports to consumption (percent)	78.6	79.2	80.9	80.8	79.2	- 2.0
	Ratio of exports to shipments (percent)	25.9	26.0	26.1	23.5	21.4	-8.9
MM046B	Handbags:						
	Number of establishments	107	102	93	90	88	-2.2
	Employees (thousands)	3.0	3.0	3.0	3.0	3.0	0.0
	Capacity utilization (percent)	60	60	59	60	64	6.7
	U.S. shipments (million dollars)	214	234	229	220	233	5.9
	U.S. exports (million dollars)	42	63	58	55	76	39.2
	U.S. imports (million dollars)	1,004	1,179	1,203	1,301	1,503	15.5
	Apparent U.S. consumption (million dollars)	1,177	1,350	1,375	1,467	1,659	13.2
	Trade balance (million dollars)	-963	-1,116	-1,146	-1,247	-1,426	-14.4
	Ratio of imports to consumption (percent)	85.4	87.3	87.5	88.7	90.6	2.1
	Ratio of exports to shipments (percent)	19.5	26.7	25.1	24.9	32.7	31.3
MM046C	C Flat goods:						
	Number of establishments	138	129	117	112	110	-1.8
	Employees (thousands)	3.0	3.0	3.0	3.0	3.0	0.0
	Capacity utilization (percent)	66	66	64	64	68	6.3
	U.S. shipments (million dollars)	381	375	390	375	398	6.1
	U.S. exports (million dollars)	32	30	22	25	23	-9.8
	U.S. imports (million dollars)	428	435	417	433	473	9.3
	Apparent U.S. consumption (million dollars)	777	779	786	783	849	8.4
	Trade balance (million dollars)	-396	-404	-396	-408	-451	-10.5
	Ratio of imports to consumption (percent)	55.1	55.8	53.1	55.3	55.8	0.9
	Ratio of exports to shipments (percent)	8.4	8.1	5.5	6.7	5.7	-14.9

Table MS-6—Continued
Miscellaneous manufactures sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
MM047	Certain other leather goods:						
	Number of establishments	450	450	450	434	430	-0.9
	Employees (thousands)	9.0	9.0	9.0	9.0	9.0	0.0
	Capacity utilization (percent)	60	60	58	58	62	6.9
	U.S. shipments (million dollars)	685	669	565	545	578	6.1
	U.S. exports (million dollars)	123	173	100	94	87	-8.1
	U.S. imports (million dollars)	209	242	256	291	348	19.8
	Apparent U.S. consumption (million dollars)	771	738	721	742	840	13.2
	Trade balance (million dollars)	-86	-69	-156	-197	-262	-33.2
	Ratio of imports to consumption (percent)	27.1	32.8	35.5	39.2	41.5	5.9
	Ratio of exports to shipments (percent)	17.9	25.9	17.8	17.3	15.0	-13.3
MM048	Musical instruments and accessories:						
	Number of establishments	600	620	600	600	600	0.0
	Employees (thousands)	14.0	15.0	14.0	14.0	14.0	0.0
	Capacity utilization (percent)	80	85	75	75	75	0.0
	U.S. shipments (million dollars)	1,648	1,794	1,600	1,600	1,600	0.0
	U.S. exports (million dollars)	360	371	398	373	381	2.2
	U.S. imports (million dollars)	1,256	1,413	1,300	1,306	1,363	4.3
	Apparent U.S. consumption (million dollars)	2,544	2,836	2,502	2,533	2,582	1.9
	Trade balance (million dollars)	-896	-1,042	-902	-933	-982	-5.2
	Ratio of imports to consumption (percent)	49.4	49.8	52.0	51.6	52.8	2.3
	Ratio of exports to shipments (percent)	21.8	20.7	24.9	23.3	23.8	2.1
MM049	Umbrellas, whips, riding crops, and canes:						
	Number of establishments	16	16	12	12	12	0.0
	Employees (thousands)	0.5	0.5	0.4	0.4	0.4	0.0
	Capacity utilization (percent)	72	72	50	50	50	0.0
	U.S. shipments (million dollars)	77	79	55	55	55	0.0
	U.S. exports (million dollars)	11	11	11	9	7	-15.6
	U.S. imports (million dollars)	248	284	293	275	310	12.7
	Apparent U.S. consumption (million dollars)	314	352	336	321	358	11.3
	Trade balance (million dollars)	-237	-273	-281	-266	-303	-13.6
	Ratio of imports to consumption (percent)	79.0	80.7	87.1	85.6	86.7	1.3
	Ratio of exports to shipments (percent)	14.4	14.0	20.8	15.8	13.3	-15.8

Table MS-6—Continued
Miscellaneous manufactures sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
MM050	Silverware and related articles of precious metal:						
	Number of establishments	35	35	30	30	30	0.0
	Employees (thousands)	6.0	5.0	4.0	4.0	4.0	0.0
	Capacity utilization (percent)	75	75	75	75	77	2.7
	U.S. shipments (million dollars)	452	451	390	400	400	0.0
	U.S. exports (million dollars)	123	165	180	155	161	3.4
	U.S. imports (million dollars)	57	68	57	54	68	26.6
	Apparent U.S. consumption (million dollars)	386	353	266	299	308	3.0
	Trade balance (million dollars)	66	98	124	101	92	-8.9
	Ratio of imports to consumption (percent)	14.8	19.1	21.3	18.0	22.2	23.3
	Ratio of exports to shipments (percent)	27.2	36.7	46.2	38.8	40.1	3.4
MM051	Precious jewelry and related articles:						
	Number of establishments	2,290	2,270	2,270	2,270	2,270	0.0
	Employees (thousands)	37.0	40.0	39.0	39.0	39.0	0.0
	Capacity utilization (percent)	74	73	70	70	73	4.3
	U.S. shipments (million dollars)	5,745	6,009	5,410	5,800	5,800	0.0
	U.S. exports (million dollars)	822	1,272	1,659	1,826	1,770	-3.1
	U.S. imports (million dollars)	5,063	5,737	5,533	6,261	6,559	4.8
	Apparent U.S. consumption (million dollars)	9,986	10,473	9,284	10,235	10,589	3.5
	Trade balance (million dollars)	-4,241	-4,464	-3,874	-4,435	-4,789	-8.0
	Ratio of imports to consumption (percent)	50.7	54.8	59.6	61.2	61.9	1.1
	Ratio of exports to shipments (percent)	14.3	21.2	30.7	31.5	30.5	-3.2
MM052	Costume jewelry and related articles:						
	Number of establishments	780	770	700	700	700	0.0
	Employees (thousands)	15.0	15.0	14.0	14.0	14.0	0.0
	Capacity utilization (percent)	64	64	64	64	70	9.4
	U.S. shipments (million dollars)	1,145	1,061	941	930	900	-3.2
	U.S. exports (million dollars)	133	127	113	104	100	-3.5
	U.S. imports (million dollars)	546	619	655	750	816	8.9
	Apparent U.S. consumption (million dollars)	1,558	1,553	1,483	1,576	1,616	2.5
	Trade balance (million dollars)	-413	-492	-542	-646	-716	-10.9
	Ratio of imports to consumption (percent)	35.1	39.8	44.2	47.6	50.5	6.1
	Ratio of exports to shipments (percent)	11.6	12.0	12.0	11.2	11.2	0.0

Table MS-6—Continued
Miscellaneous manufactures sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
MM053	Bicycles and certain parts:						
	Number of establishments	160	160	143	141	136	-3.5
	Employees (thousands)	5.0	5.0	4.0	4.0	4.0	0.0
	Capacity utilization (percent)	60	60	57	58	58	0.0
	U.S. shipments (million dollars)	775	665	630	620	605	-2.4
	U.S. exports (million dollars)	271	235	226	216	240	11.1
	U.S. imports (million dollars)	1,199	1,348	1,025	1,125	1,106	-1.7
	Apparent U.S. consumption (million dollars)	1,703	1,778	1,429	1,529	1,472	-3.8
	Trade balance (million dollars)	-928	-1,113	-799	-909	-867	4.7
	Ratio of imports to consumption (percent)	70.4	75.8	71.7	73.6	75.2	2.2
	Ratio of exports to shipments (percent)	34.9	35.4	35.9	34.8	39.6	13.8
MM054	Furniture:						
	Number of establishments	18,800	18,000	17,500	17,000	17,000	0.0
	Employees (thousands)	535.0	535.0	500.0	480.0	480.0	0.0
	Capacity utilization (percent)	75	75	73	71	71	0.0
	U.S. shipments (million dollars)	66,500	69,800	64,200	62,400	62,300	-0.2
	U.S. exports (million dollars)	2,597	3,026	2,689	2,409	2,595	7.7
	U.S. imports (million dollars)	12,775	15,159	14,839	17,028	19,035	11.8
	Apparent U.S. consumption (million dollars)	76,678	81,932	76,350	77,020	78,740	2.2
	Trade balance (million dollars)	-10,178	-12,132	-12,150	-14,620	-16,440	<i>-</i> 12.5
	Ratio of imports to consumption (percent)	16.7	18.5	19.4	22.1	24.2	9.5
	Ratio of exports to shipments (percent)	3.9	4.3	4.2	3.9	4.2	7.7
MM055	Writing instruments and related articles:						
	Number of establishments	190	190	190	187	186	-0.5
	Employees (thousands)	16.0	16.0	16.0	15.0	15.0	0.0
	Capacity utilization (percent)	75	76	77	77	77	0.0
	U.S. shipments (million dollars)	2,746	2,751	2,510	2,470	2,450	-0.8
	U.S. exports (million dollars)	333	288	263	269	241	-10.4
	U.S. imports (million dollars)	965	1,146	1,027	1,044	1,100	5.4
	Apparent U.S. consumption (million dollars)	3,378	3,608	3,274	3,245	3,309	2.0
	Trade balance (million dollars)	-632	-857	-764	-775	-859	-10.8
	Ratio of imports to consumption (percent)	28.6	31.8	31.4	32.2	33.3	3.4
	Ratio of exports to shipments (percent)	12.1	10.5	10.5	10.9	9.9	-9.2

Table MS-6—Continued
Miscellaneous manufactures sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
MM056	Lamps and lighting fittings:						
	Number of establishments	1,550	1,550	1,500	1,500	1,500	0.0
	Employees (thousands)	62.0	62.0	61.0	61.0	60.0	-1.6
	Capacity utilization (percent)	87	85	84	85	85	0.0
	U.S. shipments (million dollars)	10,090	9,500	9,400	9,500	9,260	-2.5
	U.S. exports (million dollars)	585	678	648	671	628	-6.3
	U.S. imports (million dollars)	3,858	4,496	4,148	4,605	4,781	3.8
	Apparent U.S. consumption (million dollars)	13,362	13,318	12,900	13,434	13,413	-0.2
	Trade balance (million dollars)	-3,272	-3,818	-3,500	-3,934	-4,153	-5.6
	Ratio of imports to consumption (percent)	28.9	33.8	32.2	34.3	35.6	3.8
	Ratio of exports to shipments (percent)	5.8	7.1	6.9	7.1	6.8	-4.2
MM057	Prefabricated buildings:						
	Number of establishments	1,700	1,725	1,725	1,716	1,720	(¹)
	Employees (thousands)	101.0	104.0	104.0	104.0	108.0	3.8
	Capacity utilization (percent)	73	74	74	74	77	4.1
	U.S. shipments (million dollars)	14,341	11,853	10,558	10,500	11,200	6.7
	U.S. exports (million dollars)	327	331	291	275	309	12.1
	U.S. imports (million dollars)	221	281	308	341	347	1.8
	Apparent U.S. consumption (million dollars)	14,234	11,803	10,575	10,566	11,239	6.4
	Trade balance (million dollars)	107	50	-17	-66	-39	41.3
	Ratio of imports to consumption (percent)	1.5	2.4	2.9	3.2	3.1	-3.1
	Ratio of exports to shipments (percent)	2.3	2.8	2.8	2.6	2.8	7.7
MM058	Dolls:						
	Number of establishments	150	150	150	148	148	0.0
	Employees (thousands)	3.0	2.0	2.0	2.0	2.0	0.0
	Capacity utilization (percent)	47	47	47	47	46	-2.1
	U.S. shipments (million dollars)	116	108	92	91	89	-2.2
	U.S. exports (million dollars)	25	30	33	24	20	-16.1
	U.S. imports (million dollars)	1,374	1,475	1,218	1,257	1,226	-2.5
	Apparent U.S. consumption (million dollars)	1,465	1,553	1,278	1,324	1,295	-2.2
	Trade balance (million dollars)	-1,349	-1,445	-1,186	-1,233	-1,206	2.2
	Ratio of imports to consumption (percent)	93.8	95.0	95.3	94.9	94.7	-0.2
	Ratio of exports to shipments (percent)	21.3	27.5	35.4	26.2	22.5	-14.1

Table MS-6—Continued
Miscellaneous manufactures sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
MM059	Toys:						
	Number of establishments	330	330	330	330	330	0.0
	Employees (thousands)	36.0	30.0	30.0	20.0	20.0	0.0
	Capacity utilization (percent)	62	62	60	60	60	0.0
	U.S. shipments (million dollars)	2,378	2,392	2,307	2,272	2,226	-2.0
	U.S. exports (million dollars)	497	532	489	424	378	-10.9
	U.S. imports (million dollars)	7,978	8,462	7,905	8,292	8,452	1.9
	Apparent U.S. consumption (million dollars)	9,859	10,322	9,723	10,140	10,300	1.6
	Trade balance (million dollars)	-7,481	-7,930	-7,416	-7,868	-8,074	-2.6
	Ratio of imports to consumption (percent)	80.9	82.0	81.3	81.8	82.1	(1)
	Ratio of exports to shipments (percent)	20.9	22.3	21.2	18.7	17.0	-9.1
MM060	Games:						
	Number of establishments	300	300	300	300	300	0.0
	Employees (thousands)	23.0	21.0	21.0	21.0	21.0	0.0
	Capacity utilization (percent)	78	78	80	80	80	0.0
	U.S. shipments (million dollars)	3,053	2,838	2,794	2,750	2,695	-2.0
	U.S. exports (million dollars)	936	944	788	858	1,084	26.4
	U.S. imports (million dollars)	4,086	3,879	5,537	5,887	4,985	-15.3
	Apparent U.S. consumption (million dollars)	6,203	5,773	7,542	7,779	6,596	-15.2
	Trade balance (million dollars)	-3,150	-2,935	-4,748	-5,029	-3,901	22.4
	Ratio of imports to consumption (percent)	65.9	67.2	73.4	75.7	75.6	-0.1
	Ratio of exports to shipments (percent)	30.7	33.3	28.2	31.2	40.2	28.8
MM061	Sporting goods:						
	Number of establishments	2,140	2,140	2,140	2,140	2,140	0.0
	Employees (thousands)	70.0	70.0	70.0	70.0	70.0	0.0
	Capacity utilization (percent)	68	68	68	68	68	0.0
	U.S. shipments (million dollars)	10,128	10,853	10,661	10,925	10,870	-0.5
	U.S. exports (million dollars)	1,621	1,679	1,672	1,537	1,534	-0.2
	U.S. imports (million dollars)	3,027	3,565	3,632	3,859	4,149	7.5
	Apparent U.S. consumption (million dollars)	11,535	12,739	12,621	13,247	13,485	1.8
	Trade balance (million dollars)	-1,407	-1,886	-1,960	-2,322	-2,615	-12.6
	Ratio of imports to consumption (percent)	26.2	28.0	28.8	29.1	30.8	5.8
	Ratio of exports to shipments (percent)	16.0	15.5	15.7	14.1	14.1	0.0

Table MS-6—Continued

Miscellaneous manufactures sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
MM062	Smokers' articles:						
	Number of establishments	11	10	10	10	10	0.0
	Employees (thousands)	1.0	1.0	1.0	1.0	1.0	0.0
	Capacity utilization (percent)	80	80	80	80	75	-6.3
	U.S. shipments (million dollars)	210	222	230	222	255	14.9
	U.S. exports (million dollars)	71	77	77	82	93	12.7
	U.S. imports (million dollars)	134	140	163	139	170	22.0
	Apparent U.S. consumption (million dollars)	273	285	316	279	332	19.1
	Trade balance (million dollars)	-63	-63	-86	-57	-77	-35.4
	Ratio of imports to consumption (percent)	49.0	49.3	51.6	50.0	51.2	2.4
	Ratio of exports to shipments (percent)	33.8	34.9	33.5	37.1	36.4	-1.9
MM063/	A Brooms and brushes:						
	Number of establishments	175	175	175	170	170	0.0
	Employees (thousands)	6.0	6.0	6.0	5.0	5.0	0.0
	Capacity utilization (percent)	75	75	73	70	70	0.0
	U.S. shipments (million dollars)	2,090	2,020	1,895	1,800	1,800	0.0
	U.S. exports (million dollars)	179	214	187	185	211	14.4
	U.S. imports (million dollars)	61,4	625	697	815	847	3.9
	Apparent U.S. consumption (million dollars)	2,525	2,430	2,405	2,430	2,435	(¹)
	Trade balance (million dollars)	-435	-410	-510	-630	-635	-0.9
	Ratio of imports to consumption (percent)	24.3	25.7	29.0	33.5	34.8	3.9
	Ratio of exports to shipments (percent)	8.6	10.6	9.9	10.3	11.7	13.6
MM063E	B Hair grooming articles, non-electric (except brushes):						
	Number of establishments	90	90	88	88	85	-3.4
	Employees (thousands)	3.0	3.0	3.0	3.0	3.0	0.0
	Capacity utilization (percent)	80	85	84	85	85	0.0
	U.S. shipments (million dollars)	580	585	572	575	600	4.3
	U.S. exports (million dollars)	27	28	25	20	17	-13.7
	U.S. imports (million dollars)	341	234	197	184	164	-10.8
	Apparent U.S. consumption (million dollars)	895	790	744	739	747	1.1
	Trade balance (million dollars)	-315	-205	-172	-164	-147	10.4
	Ratio of imports to consumption (percent)	38.1	29.6	26.5	24.9	22.0	-11.6
	Ratio of exports to shipments (percent)	4.6	4.8	4.4	3.5	2.9	-17.1

Table MS-6—Continued
Miscellaneous manufactures sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
MM064	Works of art and miscellaneous manufactured						
	goods:						
	Number of establishments	3,000	3,050	3,100	3 <u>,</u> 200	3,200	0.0
	Employees (thousands)	115.0	119.0	121.0	125.0	125.0	0.0
	Capacity utilization (percent)	73	73	72	73	73	0.0
	U.S. shipments (million dollars)	37,000	38,340	39,100	41,100	43,155	5.0
	U.S. exports (million dollars)	1,731	2,142	2,177	1,379	1,561	13.2
	U.S. imports (million dollars)	8,463	9,641	9,312	9,274	8,556	-7.7
	Apparent U.S. consumption (million dollars)	43,732	45,839	46,236	48,995	50,150	2.4
	Trade balance (million dollars)	-6,732	-7,499	-7,136	-7,895	-6,995	11.4
	Ratio of imports to consumption (percent)	19.4	21.0	20.1	18.9	17.1	-9.5
	Ratio of exports to shipments (percent)	4.7	5.6	5.6	3.4	3.6	5.9
MM065	Apparel fasteners:						
	Number of establishments	90	90	90	85	85	0.0
	Employees (thousands)	5.0	4.5	4.3	4.5	4.5	0.0
	Capacity utilization (percent)	90	85	83	85	85	0.0
	U.S. shipments (million dollars)	745	700	690	610	600	-1.6
	U.S. exports (million dollars)	140	183	154	157	148	-5.9
	U.S. imports (million dollars)	89	85	73	65	69	5.9
	Apparent U.S. consumption (million dollars)	694	602	609	518	521	0.6
	Trade balance (million dollars)	51	98	81	92	79	-14.2
	Ratio of imports to consumption (percent)	12.8	14.1	12.0	12.5	13.2	5.6
	Ratio of exports to shipments (percent)	18.8	26.1	22.3	25.8	24.6	-4.7
MM066A	Small arms and ammunition:						
	Number of establishments	290	280	280	280	280	0.0
	Employees (thousands)	18.0	17.0	17.0	17.0	17.0	0.0
	Capacity utilization (percent)	70	70	75	75	75	0.0
	U.S. shipments (million dollars)	2,610	2,500	2,650	2,650	2,650	0.0
	U.S. exports (million dollars)	464	535	558	480	551	14.8
	U.S. imports (million dollars)	608	637	679	800	873	9.1
	Apparent U.S. consumption (million dollars)	2,754	2,602	2,770	2,970	2,971	(¹)
	Trade balance (million dollars)	-144	-102	-120	-320	-321	-0.6
	Ratio of imports to consumption (percent)	22.1	24.5	24.5	26.9	29.4	9.3
	Ratio of exports to shipments (percent)	17.8	21.4	21.1	18.1	20.8	14.9

Table MS-6—Continued

Miscellaneous manufactures sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 1999-2003

USITC code	Industry/commodity group	1999	2000	2001	2002	2003	Percent change, 2003 from 2002
MM067	Seats for motor vehicles and aircraft						
	Number of establishments	200	200	190	190	190	0.0
	Employees (thousands)	25.0	25.0	23.0	24.0	23.0	-4.2
	Capacity utilization (percent)	76	75	75	77	75	-2.6
	U.S. shipments (million dollars)	7,520	7,725	7,030	7,400	7,180	-3.0
	U.S. exports (million dollars)	1,878	1,861	1,808	1,641	1,260	-23.2
	U.S. imports (million dollars)	3,024	3,209	3,239	3,886	4,489	15.5
	Apparent U.S. consumption (million dollars)	8,666	9,073	8,461	9,645	10,409	7.9
	Trade balance (million dollars)	-1,146	-1,348	-1,431	-2,245	-3,229	-43.8
	Ratio of imports to consumption (percent)	34.9	35.4	38.3	40.3	43.1	6.9
	Ratio of exports to shipments (percent)	25.0	24.1	25.7	22.2	17.5	-21.2

¹Less than 0.05 percent.

Note.-Calculations based on unrounded data.

Source: These data have been estimated by the Commission's international trade analysts on the basis of primary and secondary data sources including discussions with various Government and industry contacts. These estimated data are subject to change either from secondary sources or from detailed surveys the Commission often conducts in the course of statutory investigations or other work. Further, these data may undergo adjustments based on revisions in tariff nomenclature, classification practices, or redefinitions of industry classes.

Canada

Josephine Spalding-Masgarha, Coordinator (202) 205-3498 josephine.spalding@usitc.gov

Change in 2003 from 2002:

U.S. trade deficit: Increased by \$7.3 billion (11 percent) to \$75.3 billion U.S. exports: Increased by \$6.2 billion (4 percent) to \$148.7 billion U.S. imports: Increased by \$13.5 billion (6 percent) to \$224.0 billion

- The rebounding U.S. economy (see U.S. Merchandise Trade Performance) and sharply higher energy prices were chiefly responsible for increased U.S. imports from Canada and the expansion of the bilateral trade deficit with that partner in 2003. Increased imports of energy-related products accounted for 87 percent of the total growth in U.S. imports from Canada (see tables CANADA-1 and CANADA-2), but exports to Canada of energy-related products grew, but at a slower rate than imports, for a net expansion of the U.S. trade deficit with Canada in the energy sector.
- The U.S. trade deficit with Canada in products outside the energy sector declined in 2003, as the increase in U.S. exports exceeded the rise in U.S. imports from Canada. Despite the deceleration in Canada's gross domestic product (GDP) growth to a relatively modest 1.7-percent rate in 2003, 1 U.S. exporters of machinery and equipment (see Machinery, Transportation Equipment, and Electronic Products) benefitted from a strong buildup of business inventories in Canada, record orders in the transportation and computer sectors, and brisk business investment in plant and equipment. Likewise, the relatively slow rise in non-energy imports from Canada during a time of more rapid U.S. GDP growth reflects the 15-percent appreciation of the Canadian dollar against the U.S. dollar in the latter half of 2003, making Canadian goods more expensive in the U.S. market.

¹ Chief factors that slowed Canada's economic growth in 2003 were the war in Iraq, concerns about incidences of Severe Acute Respiratory Syndrome, a case of "mad-cow disease" in Alberta, forest fires in the Western Provinces, a hurricane in the Eastern Provinces, a massive power outage in Ontario, and appreciation of the Canadian dollar against the U.S. dollar. Bank of Canada, *Annual Report*, found at http://bank-banque-canada.ca/en/annual/index.htm, retrieved Mar. 31, 2004.

² Zoltan Pozar, "GDP Analysis-Canada," *Economy*, found at *http://www.economy.com/dismal/pro/release*, retrieved Feb. 18, 2004.

³ Bank of Canada, Annual Report.

Table CANADA-1
Canada: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by major industry/commodity sectors, 1999-2003¹

						Change, 200	3 from 2002
Item	1999	2000	2001	2002	2003	Absolute	Percent
II C semanta of demands and a fine			Million doll	ars ———			
U.S. exports of domestic merchandise: Agricultural products Forest products Chemicals and related products Energy-related products Textiles and apparel Footwear Minerals and metals Machinery Transportation equipment Electronic products Miscellaneous manufactures Special provisions	7,608 7,231 18,783 2,370 3,545 85 13,578 16,297 48,132 22,049 3,883 2,171	8,209 7,858 20,327 2,896 3,646 72 15,421 17,179 48,387 25,007 4,174 2,424	8,694 7,462 19,692 3,862 3,344 70 13,262 15,949 44,207 20,108 3,759 4,211	9,121 7,502 20,115 2,889 3,193 65 13,447 15,207 46,733 17,025 3,561 3,686	9,805 7,960 21,516 4,296 3,121 57 13,820 15,310 48,568 16,637 3,697 3,961	684 457 1,401 1,408 -72 -8 373 103 1,835 -388 136 276	7.5 6.1 7.0 48.7 -2.3 -12.7 2.8 0.7 3.9 -2.3 3.8 7.5
Total	145,731	155,601	144,621	142,543	148,749	6,206	4.4
U.S. imports of merchandise for consumption: Agricultural products Forest products Chemicals and related products Energy-related products Textiles and apparel Footwear Minerals and metals Machinery Transportation equipment Electronic products Miscellaneous manufactures Special provisions Total	10,349 23,829 13,708 17,766 3,640 89 17,285 9,637 68,517 14,609 5,740 13,072 198,242	11,189 24,782 15,858 31,860 3,945 76 19,215 10,419 69,296 21,200 6,452 14,766	12,373 23,449 16,398 34,598 3,791 79 16,916 9,876 64,781 13,868 5,931 14,778	12,953 22,311 16,673 29,903 3,859 68 17,797 9,810 65,462 10,605 5,967 15,108	12,975 22,640 18,440 41,579 3,788 64 18,003 10,071 66,727 9,768 6,137 13,824	21 329 1,767 11,676 -72 -4 206 260 1,265 -836 170 -1,284	0.2 1.5 10.6 39.0 -1.9 -5.3 1.2 2.7 1.9 -7.9 -8.5
U.S. merchandise trade balance: Agricultural products Forest products Chemicals and related products Energy-related products Textiles and apparel Footwear Minerals and metals Machinery Transportation equipment Electronic products Miscellaneous manufactures Special provisions Total	-2,740 -16,599 5,075 -15,396 -5 -3,708 -6,660 -20,385 7,441 -1,858 -10,901 -52,511	-2,980 -16,924 4,469 -28,964 -299 -4 -3,795 6,760 -20,908 3,807 -2,278 -12,342 -73,459	-3,679 -15,987 3,294 -30,736 -446 -9 -3,654 6,073 -20,574 6,241 -2,172 -10,566 -72,215	-3,833 -14,809 3,442 -27,014 -666 -3 -4,350 5,396 -18,730 6,420 -2,406 -11,423	-3,170 -14,680 3,076 -37,283 -666 -8 -4,183 5,240 -18,159 6,869 -2,440 -9,863	663 129 -366 -10,268 -1 -5 167 -157 -157 -371 449 -34 1,560	17.3 0.9 -10.6 -38.0 -0.1 -140.9 3.8 -2.9 3.0 7.0 -1.4 13.7

¹Import values are based on customs value; export values are based on f.a.s. value, U.S. port of export.

Note.—Calculations based on unrounded data.

Table CANADA-2 Leading changes in U.S. exports to and U.S. imports from Canada, 1999-2003

						Change, 200	3 from 2002
Sector/commodity	1999	2000	2001	2002	2003	Absolute	Percent
			Million o	dollars ———			
U.S. EXPORTS:							
Increases:							
Motor vehicles (ET009)	14,443	14,500	12,846	15,486	17,193	1,707	11.0
Natural gas and components (CH006)	148	307	338	523	1,285	762	145.7
Electrical energy (CH001)	206	398	1,258	304	716	412	135.9
Medicinal chemicals (CH025)	1,913	2,226	2,200	2,349	2,706	357	15.2
Decreases:							
Transportation equipment:							
Certain motor-vehicle parts (ET010)	16,186	15,801	14,096	15,460	15,126	-334	-2.2
Aircraft, spacecraft, and related							
equipment (ET013)	1,883	2,000	2,262	1,727	1,520	-208	-12.0
Electronic products:							
Computers, peripherals, and parts (ET035)	5,038	5,898	4,987	3,948	3,655	-293	-7.4
Television receivers and video monitors (ET022)	297	330	379	452	296	-156	-34.5
All other	105,617	114,142	106,255	102,294	106,251	3,957	3.9
TOTAL	145,731	155,601	1 44,621	142,543	148,749	6,206	4.4
U.S. IMPORTS:							
Increases:							
Energy-related products:							
Natural gas and components (CH006)	6,933	11,970	16,817	12,647	20.043	7,396	58.5
Crude petroleum (CH004)	6,552	12,654	10,121	11,196	14,086	2,890	25.8
Petroleum products (CH005)	2,362	3,911	4,287	4,258	5,479	1,221	28.7
Aircraft, spacecraft, and related	•	,	,	,	•	•	
equipment (ET013)	3,801	4,747	6,094	5,268	6,345	1,077	20.5
Medicinal chemicals (CH025)	721	853	1,199	1,326	1,946	620	46.7
Decreases:							
Cattle and beef (AG002)	1,683	1,760	2,187	2,289	1,271	-1,018	-44.5
Transportation equipment:							
Aircraft engines and gas turbines (ET001)	1,461	1,957	2,465	2,300	1,594	-705	-30.7
Motor vehicles (ET009)	46,573	45,666	41,159	41,589	41,022	-566	-1.4
Forest products: Lumber (AG052)	7,041	6,242	5,898	5,450	4,835	-615	-11.3
All other	121,116	139,299	126,608	124,195	127,393	3,198	2.6
TOTAL	198,242	229,060	216,836	210,518	224,016	13,498	6.4

Note.-Calculations based on unrounded data.

U.S. exports

• Trade with Canada in the automotive sector is strongly influenced by the highly integrated nature of North American manufacturing, facilitated by shared infrastructure and markets, and high levels of foreign direct investment. The 11-percent rise in the value of motor vehicles destined for Canada was also the largest absolute shift among all export products in 2003 (see table CANADA-2). However, the quantity declined 10 percent, as fewer but more expensive vehicles were exported to Canada (see Motor Vehicles in Transportation). For the automotive sector as a whole, the net effect was a reduction in the U.S. trade deficit with Canada, although cost reductions in Canada through productivity improvements in the manufacture of certain motor vehicle parts (see Certain Motor-Vehicle Parts in Transportation) have led to increased U.S. imports from Canada.⁴

⁴ "Canadian Auto Report," Scotia Economics, Feb. 27, 2004, found at http://www.scotiabank.com, retrieved Mar. 10, 2004.

U.S. imports

- Natural gas and components from Canada accounted for the largest increase in imports in 2003 (see table CANADA-2), as Canada is the leading supplier of natural gas and components and a major supplier of crude petroleum and petroleum products to the highly energy import-dependent U.S. economy. Growth in the value of imports is attributed to increased prices, as the average price of natural gas increased 73 percent (see Natural Gas and Components in Energy Products)⁵ and the price of crude petroleum increased by 22 percent in 2003 (see Crude Petroleum in Energy Products),⁶ far outpacing quantity growth rates.⁷ The quantity of petroleum products imported by the United States from Canada decreased 1 percent,⁸ belying the 29-percent rise in the value of such imports in that year (see Petroleum Products in Energy Products).
- Rather than trade in large civil aircraft (see Aircraft, Spacecraft, and Related Equipment in Transportation Equipment), the increased imports of aircraft, spacecraft, and related equipment from Canada in 2003 reflected higher U.S. demand for regional jets and business jets. Quebec-based Bombardier is one of the world's largest producers of both types of aircraft.
- On May 20, 2003, Canada confirmed a case of "mad-cow disease" (bovine spongiform encephalopathy, BSE) in Alberta. The United States immediately prohibited imports of a large number of animals and animal products from Canada, including live cattle and beef.¹⁰ Although by August 2003, imports of beef from cattle below 30 months of age were allowed,¹¹ the value of Canadian beef imports dropped nearly 25 percent from the 2002 level. Live cattle imports, however, continued to be prohibited throughout 2003; consequently, the value of live cattle imports decreased 65 percent from the previous year (see Agricultural Products).

⁵ Natural-gas prices rose from \$2.95 per thousand cubic feet in 2002 to \$5.09 per thousand cubic feet in 2003. U.S. Department of Energy, Energy Information Administration, *Energy Supply Monthly*, *Natural Gas Monthly* and *Short-Term Energy Outlook*, 2003 and 2004 reports.

⁶ Crude oil prices rose from \$22.51 per barrel in 2002 to \$27.48 per barrel in 2003. U.S. Department of Energy, Energy Information Administration, *Short-Term Energy Outlook*, 2003 and 2004 reports.

⁷ For example, U.S. imports of crude petroleum grew 7 percent, from 1.4 million barrels per day in 2002 to 1.5 million barrels per day in 2003.

⁸ U.S. imports of petroleum products from Canada decreased from 526,000 barrels per day in 2002 to 521,000 barrels per day in 2003.

⁹ Regional jets allow airlines to expand existing service and provide new service at less financial risk than with larger aircraft, and have largely displaced turboprop aircraft at regional airlines. Business jets provide executives the flexibility to fly when needed, unencumbered by an airline's schedule. Bombardier Aerospace, "Regional Aircraft," found at http://www.bombardier.com/index.jsp?id=3 0&lang=en&file=/en/3 0/3 0.jsp, retrieved Feb. 26, 2004.

¹⁰ The list included live ruminants, ruminant products, processed animal proteins, and animal feed. A complete list of prohibited products can be found at http://www.fsis.usda.gov/oa/topics/bse.htm. For more information on BSE, see http://www.fsis.usda.gov/lpa/issues/bse/bse-canada memo.html or http://www.fsis.usda.gov/oa/topics/bse.htm.

¹¹ U.S. Department of Agriculture, "Veneman Announces that Import Permit Applications for Certain Ruminant Products from Canada will be Accepted," news release, Aug. 8, 2003, found at http://www.usda.gov/news/releases/2003/08/0281.htm, retrieved on Apr. 2, 2004.

				! ! !
))))
				, , , , ,
				1
				, , ,
				, , ,
				, , ,
				, , , , ,

China

Judith-Anne Webster, Coordinator (202) 205-3489 judith-anne.webster@usitc.gov

Change in 2003 from 2002:

U.S. trade deficit: Increased by \$20.7 billion (20 percent) to \$124.9 billion U.S. exports: Increased by \$6.2 billion (30 percent) to \$26.7 billion U.S. imports: Increased by \$26.8 billion (22 percent) to \$151.6 billion

- Increased production by foreign manufacturers in China, bolstered by China's undervalued currency, contributed to the U.S. trade deficit with China, which has almost doubled in the past 5 years. In each year since 2001, the United States recorded a larger deficit with China than with any other trade partner (see table US-3). The largest deficit expansion occurred in 2003.
- In 2003, the most significant growth in U.S. imports from China in absolute terms was for electronic products, followed by miscellaneous manufactures and machinery (see table CHINA-1). Despite the deficit with the United States, exports to China also have increased significantly over the past 5 years. Exports grew the most in 2003, owing to China's robust economic growth combined with reductions of import tariffs in that year.³

¹ Stephen Roach, "Why We Ought to be Thanking the Chinese," Fortune, Mar. 22, 2004, p. 36.

² China maintains the yuan (renminbi) at a fixed rate of exchange to the dollar. Not all economists, however, consider the yuan to be undervalued. Brian Bremner and Dexter Roberts, "A Scouting Report on the Yuan," *Business Week*, Mar. 8, 2004 p. 31.

³ Import tariff reductions are owing to China's entry into the WTO. "China–The Economy of the Year," *Rediff.com*, Dec. 29, 2003, found at http://www.rediff.com/money/2003/dec/29guest.htm, retrieved Apr. 12, 2004.

Table CHINA-1
China: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by major industry/commodity sectors, 1999-2003¹

						Change, 200	3 from 2002
Item	1999	2000	2001	2002	2003	Absolute	Percent
U.S. exports of domestic merchandise: Agricultural products Forest products Chemicals and related products Energy-related products Textiles and apparel Footwear Minerals and metals Machinery Transportation equipment Electronic products Miscellaneous manufactures Special provisions	965 637 2,149 145 166 41 713 1,626 2,888 2,942 113 201	1,895 787 2,430 86 221 43 1,333 1,898 2,368 3,926 132 218	Million doll 2,101 820 2,315 130 261 46 1,497 2,356 3,198 4,892 136 208	2,128 1,058 3,069 142 339 35 1,539 2,730 4,293 4,855 137 228	5,129 1,314 3,816 180 405 36 2,636 3,091 3,757 5,934 143 266	3,001 256 747 39 65 2 1,097 361 -535 1,079 6	141.0 24.1 24.3 27.3 19.2 4.6 71.3 13.2 -12.5 22.4 4.1
Total U.S. imports of merchandise for consumption: Agricultural products Forest products Chemicals and related products Energy-related products Textiles and apparel Footwear Minerals and metals Machinery Transportation equipment Electronic products Miscellaneous manufactures Special provisions	12,585 1,191 1,526 4,242 302 9,234 8,438 5,520 6,285 1,220 20,917 21,733 914	15,335 1,396 1,967 4,942 596 10,710 9,206 6,947 7,742 1,991 27,588 25,365 1,132	17,959 1,489 2,168 5,333 406 11,124 9,767 7,250 8,620 1,773 27,231 25,690 1,218	20,553 1,896 2,749 6,262 12,602 10,242 8,656 10,467 2,302 36,270 31,490 1,401	26,707 2,470 3,362 7,438 561 15,426 10,546 10,054 13,922 3,072 47,150 35,812 1,808	6,154 574 612 1,175 2,823 305 1,398 3,454 769 10,881 4,321 406	29.9 30.2 22.3 18.8 22.9 3.0 16.2 33.0 33.4 30.0 13.7 29.0
Total U.S. merchandise trade balance: Agricultural products Forest products Chemicals and related products Energy-related products Textiles and apparel Footwear Minerals and metals Machinery Transportation equipment Electronic products Miscellaneous manufactures Special provisions	-226 -890 -2,093 -157 -9,068 -8,397 -4,807 -4,659 1,668 -17,975 -21,620 -713	99,581 499 -1,180 -2,512 -510 -10,489 -9,163 -5,614 -5,844 -3,77 -23,662 -25,233 -914	102,069 612 -1,348 -3,017 -276 -10,863 -9,721 -5,754 -6,265 1,425 -22,340 -25,554 -1,010	124,796 232 -1,691 -3,193 -315 -12,263 -10,207 -7,117 -7,737 1,990 -31,414 -31,353 -1,173	2,659 -2,048 -3,622 -381 -15,021 -10,510 -7,418 -10,831 -686 -41,216 -35,669 -1,542	26,824 2,428 -357 -429 -66 -2,758 -303 -301 -3,094 -1,304 -9,802 -4,316 -369	21.5 1,047.4 -21.1 -13.4 -20.9 -22.5 -3.0 -4.2 -40.0 -65.5 -31.2 -13.8 -31.4
Total	-68,937	-84,245	-84,110	-104,243	-124,913	-20,671	-19.8

¹Import values are based on customs value; export values are based on f.a.s. value, U.S. port of export.

Note.—Calculations based on unrounded data.

Table CHINA-2 Leading changes in U.S. exports to and U.S. imports from China, 1999-2003

						Change, 200	3 from 2002
Sector/commodity	1999	2000	2001	2002	2003	Absolute	Percent
			— Million o	dollars ———			
U.S. EXPORTS:							
Increases:							
Oilseeds (AG032)	353	1,013	1,014	890	2,832	1,942	218.2
Semiconductors and integrated circuits (ET033)	642	686	946	1,238	2,025	787	63.6
Steel mill products (MM025)	48	44	49	52	429	377	726.7
Decreases:							
Aircraft, spacecraft, and related equipment (ET013)	2,294	1,689	2,429	3,367	2,447	-920	-27.3
All other	9,249	11,903	13,521	15,007	18,975	3,968	26.4
TOTAL	12,585	15,335	17,959	20,553	26,707	6,154	29.9
U.S. IMPORTS:							
Increases:							
Electronic products:					•		
Computers, peripherals, and parts (ET035)	7,761	10,670	10,548	14,928	22,141	7,213	48.3
Telephone and telegraph apparatus (ET017)	2,172	2,942	3,222	4,659	5,932	1,273	27.3
Apparel (CH049)	7,399	8,528	8,912	9,602	11,408	1,805	18.8
Furniture (MM054)	3,001	4,060	4,608	6,396	7,964	1,567	24.5
Printing and related machinery (MM081)	4	6	5	145	1,238	1,093	754.3
Decreases:							
Construction and mining equipment (ET004)	74	66	71	212	132	-80	-37.9
All other	61,111	73,308	74,703	88,852	102,805	13,953	15.7
TOTAL	81,522	99,581	102,069	124,796	151,620	26,824	21.5

Note.-Calculations based on unrounded data.

U.S. exports

- From 1999 to 2003, agricultural products posted the largest overall growth in U.S. exports to China (see table CHINA-2). Expansion of agricultural exports in 2003 was largely attributable to increased shipments of oilseeds—specifically soybeans. Record prices for soybeans in that year, along with China's growing population, strengthening economy, and limited domestic production accounted for the growth in U.S. exports (see Oilseeds in Agricultural Products).⁴
- Exports of semiconductors and integrated circuits to China increased by \$787 million from 2002 to 2003. The reported relocation of semiconductor-consuming industries (such as computers and communications)⁵ to China and the relatively strong global recovery of these markets also helped spur China's demand for semiconductors (see Semiconductors and Integrated Circuits in Electronic Products).⁶
- To meet the input needs for its world-dominant textiles and apparel industries, China has become a major importer of natural and synthetic fibers, reflected in increased U.S. exports of cotton, not carded or combed, to China in 2003 (see Agricultural Products).⁷
- A worldwide slowdown in the large civil aircraft (LCA) manufacturing industry affected shipments of aircraft, spacecraft, and related equipment to China, for which U.S. exports dropped in 2003. Overall declining demand for LCA led to reduced commercial deliveries for both Boeing and Airbus in 2003 (see Aircraft, Spacecraft and Related Equipment in Transportation Equipment).8

⁴ Jim Butterworth and Wu Xinping, *China, Oilseeds and Products*, U.S. Department of Agriculture, Foreign Agricultural Service, Global Agriculture Information Network, rept. CH4007, Mar. 3, 2004.

⁵ "IC Demand on the Rise in China," Reed Electronics News, Mar. 24, 2004, found at http://www.reed-electronics.com/electronicnews/article/CA405683?industryid=22113&industry=Semiconductors&nid=2019, retrieved Mar. 25, 2004.

⁶ Semiconductor Industry Association, "Global Semiconductor Sales Up 18.3% in 2003," press release, Feb. 1, 2004, found at http://www.semichips.org, retrieved Mar. 8, 2004.

⁷ Michael Barry, "China," Textiles and Apparel: Assessment of the Competitiveness of Certain Foreign Suppliers to the U.S. Market, USITC Inv. No. 332-448, publication 3671, Jan. 2004, pp. E-5 to E-23.

⁸ Airbus is a European firm. Phillip Finnegan, "Civil Avionics in the Doldrums," Aviation Week & Space Technology; Jan. 19, 2004, p. 203.

U.S. imports

- The most significant sector growth from China occurred in electronics (see table CHINA-2), as U.S. imports of personal computers grew in 2003. According to the Chinese Ministry of Information, increasing economic development and preferential policies toward the information technology sector has led to higher production levels in China. This exemplifies the overall trend in the electronics industry as many foreign manufacturers are moving production to take advantage of China's low production costs (see Computers, Peripherals, and Parts in Electronic Products).
- China also expanded its role as the leading supplier of apparel to the U. S. market in 2003, as the United States imported increased amounts of apparel goods in 2003. With its large supply of low-cost labor and raw materials along with strong sewing skills, effective middle management, and technical know-how, China is able to produce a wide range of low-cost apparel goods (see Textiles, Apparel, and Footwear). On the cost apparel goods (see Textiles, Apparel, and Footwear).
- U.S. imports of furniture from China increased 25 percent in 2003. U.S. sourcing of furniture from China has grown steadily over the past 5 years as China's low-cost labor and state-of-the-art production facilities provide a competitive advantage to furniture producers in China (see Furniture in Miscellaneous Manufactures). 11
- Increased investment in assembly production and use of contract manufacturers in China (and Malaysia) by leading global cellular suppliers of telephone and telegraph apparatus also led to growth in U.S. imports in 2003, especially for cellular phones. Investments by U.S.-based Motorola¹² and European-headquartered Nokia and Siemens over the past several years reportedly were made to take advantage of lower wages in those countries (see Telephone and Telegraph Apparatus in Electronic Products).
- U.S. imports from China of printing and related machinery, specifically office printing machines and related products, grew in 2003 in response to their increasing popularity. These products are multifunctional digital office machines which can print, scan, and transmit facsimiles (see Printing and Related Machinery in Machinery).¹³

⁹ U.S. and Foreign Commercial Service, "Best Prospects for Non-Agricultural Goods and Services: Information Technology," Market Research Reports, *County Commercial Guide: China*, June 15, 2003, found at http://www.stat-usa.gov/mrd.nsf/vwCCG_Country/B72F0F83CA35543285256E5A0032D1B3?OpenDocument&sess1D=B032049D01B4ABA, retrieved Apr. 1, 2004.

¹⁰ Barry, "China," p. E-5.

¹¹ Lawrence Benjamin, "One World, One Market: The China Solution," *Lodging Hospitality*, Mar. 2004, Vol. 60 Issue 3, p. 56.

¹² Motorola, Inc., U.S. Securities and Exchange Commission Form 10-K filing, Mar. 27, 2003, pp. 1-15.

¹³ Olga Kharif, "Printing a Record of Growth," *BusinessWeek Online*, Feb. 17, 2004, found at http://www.businessweek.com/technology/content/feb2004/tc20040217_8510_tc055.htm, retrieved Apr. 6, 2004.

			·	*

European Union

Vincent DeSapio, Coordinator (202) 205-3435 vince.desapio@usitc.gov

Change in 2003 from 2002:

U.S. trade deficit: Increased by \$12.9 billion (14 percent) to \$104.1 billion U.S. exports: Increased by \$5.6 billion (4 percent) to \$138.1 billion U.S. imports: Increased by \$18.5 billion (8 percent) to \$242.2 billion

- Total trade (imports plus exports) in 2003 between the United States and the European Union (EU) was greater than in any other year during 1999-2003. In 2003, relatively strong economic growth in the United States, particularly during the final 6 months (see U.S. Merchandise Trade Performance), contributed to a sharp increase in imports from the EU, despite a nearly 20-percent depreciation of the dollar relative to the euro over the year. The U.S. deficit with the EU increased substantially in 2003 and has doubled during 1999-2003 (see table EU-1).
- Germany and the United Kingdom, among two of the largest EU economies, were the leading EU markets for U.S. manufacturers in 2003, accounting for 20 percent and 22 percent, respectively, of all U.S. exports to the EU (see table US-3). Likewise, these countries were the principal EU suppliers to the U.S. market, accounting for 28 percent and 17 percent, respectively, of all U.S. imports from the EU. The United Kingdom was a major supplier of aircraft, spacecraft, and related equipment; and medicinal chemicals; whereas Germany was a major supplier of motor vehicles and medical goods. Increased net imports of these products (with the exception of aircraft, spacecraft, and related equipment) accounted for most of the increase in the U.S. trade deficit with the EU (see table EU-1 and EU-2).

¹ Foreign Exchange Rates (Annual), Federal Reserve Statistical Release (Jan. 5, 2004), http://www.federalreserve.gov/releases/g5a/current/.

Table EU-1 EU-15: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by major industry/commodity sectors, 1999-2003¹

						Change, 200	3 from 2002
Item	1999	2000	2001	2002	2003	Absolute	Percent
U.S. exports of domestic merchandise:			— Million doll	ars ———			
Agricultural products Forest products Chemicals and related products Energy-related products Textiles and apparel Footwear Minerals and metals Machinery Transportation equipment Electronic products Miscellaneous manufactures Special provisions	7,508 4,272 20,336 1,912 1,836 7,135 13,052 36,792 40,836 3,502 4,766	7,177 4,834 23,166 2,072 1,924 65 8,015 15,745 34,148 46,431 3,987 5,087	7,290 4,240 24,711 2,146 1,698 67 8,171 13,998 33,844 41,819 4,119 5,225	6,963 3,852 25,058 1,731 1,520 6,957 11,669 31,778 34,805 3,434 4,745	7,280 3,921 29,275 1,714 1,473 7,589 7,589 11,671 32,237 34,703 3,344 4,871	318 70 4,217 -17 -46 2 637 2 459 -102 -90 126	4.6 1.8 16.8 -1.0 -3.0 4.1 9.2 (2) 1.4 -0.3 -2.6
Total	142,029	152,652	147,327	132,563	138,138	5,575	4.2
U.S. imports of merchandise for consumption: Agricultural products Forest products Chemicals and related products Energy-related products Textiles and apparel Footwear Minerals and metals Machinery Transportation equipment Electronic products Miscellaneous manufactures Special provisions	9,930 3,955 33,537 4,444 5,019 2,038 16,248 24,426 47,863 24,822 10,845 11,280	10,341 4,504 39,410 8,338 5,360 2,044 18,827 25,548 51,499 28,630 11,745 12,128	10,316 4,371 42,784 7,614 5,190 1,951 17,101 24,642 54,414 26,545 11,403 12,580	11,187 4,778 48,700 8,778 5,163 1,826 15,589 23,076 53,076 53,079 27,220 11,338 12,477	12,506 5,109 56,408 11,453 5,391 1,764 16,239 25,086 56,103 28,986 10,815 12,352	1,319 331 7,708 2,674 228 -62 650 2,010 2,504 1,765 -523 -125	11.8 6.9 15.8 30.5 4.4 -3.4 4.2 8.7 6.5 -4.6 -1.0
Total	194,409	218,375	218,911	223,732	242,210	18,479	8.3
U.S. merchandise trade balance: Agricultural products Forest products Chemicals and related products Energy-related products Textiles and apparel Footwear Minerals and metals Machinery Transportation equipment Electronic products Miscellaneous manufactures Special provisions Total	-2,422 316 -13,201 -2,532 -3,183 -1,956 -9,113 -11,374 -11,072 16,014 -7,343 -6,514	-3,164 331 -16,244 -6,266 -3,436 -1,978 -10,812 -9,803 -17,350 17,801 -7,759 -7,041	-3,027 -132 -18,073 -5,468 -3,491 -1,883 -8,930 -10,644 -20,570 15,274 -7,284 -7,356	-4,224 -926 -23,642 -7,048 -3,644 -1,769 -8,637 -11,408 -21,820 7,585 -7,905 -7,732	-5,225 -1,188 -27,133 -9,738 -3,918 -1,705 -8,650 -13,415 -23,866 5,718 -7,471 -7,481	-1,002 -262 -3,491 -2,691 -274 -65 -12 -2,008 -2,045 -1,867 434 251	-23.7 -28.3 -14.8 -38.2 -7.5 3.7 -0.1 -17.4 -24.6 5.5 3.2

¹Import values are based on customs value; export values are based on f.a.s. value, U.S. port of export.

²Less than 0.05 percent.

Note.—Calculations based on unrounded data.

Table EU-2 Leading changes in U.S. exports to and U.S. imports from EU15, 1999-2003

						Change, 200	3 from 2002
Sector/commodity	1999	2000	2001	2002	2003	Absolute	Percent
			Million o	dollars			
U.S. EXPORTS:							
Increases:							
Medicinal chemicals (CH025)	7,085	8,341	10,258	10.765	13,078	2,313	21.5
Motor vehicles (ET009)	2,607	2,059	2,951	3,865	5,431	1,566	40.5
Medical goods (ET040)	5,683	5,979	6,922	7,074	8,059	985	13.9
Decreases:				·	•		
Telephone and telegraph apparatus (ET017)	3,868	4,734	4,240	3,165	2,622	-543	-17.1
All other	122,786	131,540	122,956	107,694	108,949	1,255	1.2
TOTAL	142,029	152,652	147,327	132,563	138,138	5,575	4.2
U.S. IMPORTS:							
Increases:							
Medicinal chemicals (CH025)	17,803	22,678	26,353	31,761	37,214	5,453	17.2
Motor vehicles (ET009)	22,057	22,894	23,813	26,481	30,657	4,176	15.8
Medical goods (ET040)	3,328	3,760	4,854	5,916	7,526	1,610	27.2
Decreases:							
Aircraft, spacecraft, and related equipment (ET013)	7,288	9,532	10,330	8,286	6,685	-1,601	-19.3
All other	143,932	159,511	153,560	151,288	160,128	8,840	5.8
TOTAL	194,409	218,375	218,911	223,732	242,210	18,479	8.3

Note.-Calculations based on unrounded data.

U.S. exports

- The increase in U.S. exports of medicinal chemicals to the EU in 2003 (see table EU-2) was largely attributable to a high degree of intracompany sales to U.S. multinational pharmaceutical operations in the Netherlands and Germany (see Medicinal Chemicals in Chemicals and Related Products).
- U.S. motor vehicle exports to the EU increased in 2003, largely composed of shipments to the German market of Mercedes-Benz and BMW models made only in the United States (see Motor Vehicles in Transportation Equipment).²
- The increase in U.S. exports of medical goods to the EU in 2003 reflected the increased use of U.S. components and subassemblies of implantable pacemakers and defibrillators by Ireland, which has rapidly become one of the leading global manufacturers of such devices (see Medical Goods in Electronic Products). Two of the leading manufacturers of such devices in the United States, Medtronic and Guidant, have continued to expand production capacity in Ireland for sales to the European and U.S. markets.

² Ward's Automotive Yearbook 2003 (Southfield, MI: Ward's Communications, 2003), pp. 167 and 190.

³ Enterprise Ireland, "Medical Devices and Diagnostics," Sector Profiles, 2003, pp. 1-3, found at http://www.enterprise-ieland.com, retrieved Mar. 1, 2004.

U.S. imports

- During 2003, the increase in U.S. imports of medicinal chemicals accounted for about one-third of the growth in U.S. imports from the EU (see table EU-2). Nearly one-half of the increase in U.S. imports of medicinal chemicals from the EU was composed of certain cardiovascular drugs, primarily supplied by Ireland. U.S. companies in recent years have taken advantage of Ireland's national tax policy favoring research-oriented corporations, lower production costs, advanced manufacturing technology, and skilled work force to establish production facilities to supply the U.S. and European markets (see Medicinal Chemicals in Chemicals and Related Products).⁴
- U.S. imports of motor vehicles from the EU increased in 2003 reflecting lower interest rates, rising income, and higher consumer confidence levels in the United States. German shipments increased 13 percent to account for 66 percent of all U.S. motor vehicle imports from the EU (see Motor Vehicles in Transportation Equipment).
- U.S. imports of medical goods increased from the EU, primarily from Ireland. Ireland has become a leading European supplier of pacemakers, defibrillators, and other high-technology products, a result of historical investment by health-care products manufacturers (see Medical Goods in Electronic Products).⁵
- U.S. imports of petroleum products from the EU rose in 2003, reflecting higher unit prices and increased consumer and industrial demand for refined petroleum products from the United Kingdom and the Netherlands (see Petroleum Products in Energy Products).
- By contrast, imports of aircraft, spacecraft, and related equipment and of aircraft engines and gas turbines sustained 2 consecutive years of declines. These declines were due to persistent weak aircraft-related demand as the airline industry has not fully recovered from the events of September 11, 2001, and a sluggish recovery in the U.S. transportation sector (see Aircraft, Spacecraft, and Related Equipment; and Aircraft Engines and Gas Turbines in Transportation Equipment).

⁴ Of the 15 leading pharmaceutical companies in the world, 13 have substantial operations in Ireland. Forty finished pharmaceutical plants are now operating there and 29 plants have been approved by the Irish Federal Drug Administration. IDA Ireland, "Industry Profile, Pharmaceutical/Biopharmaceuticals," found at http://www.idaireland.com/industry/pharmaceutical_industry.asp, retrieved Mar. 5, 2004.

⁵ Major U.S.-based companies with manufacturing operations in Ireland include Abbott Laboratories, Tyco Inc., Johnson & Johnson, and De Puy Inc., among others. IDA Ireland, "Investments Index," found at http://www.idaireland.com/investments/index.asp, retrieved Mar. 9, 2004.

.

Japan

Karl Tsuji, Coordinator (202) 205-3434 karl.tsuji@usitc.gov

Change in 2003 from 2002:

U.S. trade deficit: Decreased by \$3.4 billion (5 percent) to \$69.6 billion U.S. exports: Increased by \$589 million (1 percent) to \$48.9 billion U.S. imports: Decreased by \$2.8 billion (2 percent) to \$118.5 billion

- The U.S. trade deficit with Japan fluctuated but trended downward over the past 5 years, slipping from being the largest with any individual trade partner in 1999 to the third-largest behind China and Canada in 2003 (see table US-3). In 2003, the deficit with Japan narrowed from the previous year's amount, as imports declined and exports increased (see table JAPAN-1). Bilateral trade trends in 2003 were affected by the 9.8-percent appreciation of the yen against the dollar.¹
- Trade trends also reflected the revival of Japan's economy since March 2003, attributed to the Bank of Japan's expansionist monetary policy to fight persistent deflation, dating back to the 1989 real-estate and stock-market crashes.² Although of debatable sustainability,³ the upturn in the Japanese economy appears broader-based than the three previous ones that relied extensively on public-works spending and exports to the United States.⁴ Key distinctions of the upturn in 2003 are reduced saving by households,⁵ rising corporate profitability, reduced indebtedness, fewer bankruptcies, and upturn of capital investment;⁶ as well as stronger global exports, enhanced by China's robust growth (see China).⁷

¹ Based on yen per dollar rates of 107.13 on Dec. 31, 2003, and 118.75 on Dec. 31, 2002. Compiled from official statistics of the U.S. Federal Reserve Bank of New York, historical data release H.10 "Foreign Exchange Rates."

² "Japan's Economy," *Economist.com*, Feb. 20, 2004, found at

 $^{{\}it http://www.economist.com/research/backgrounders/displayBackgrounder.cfm?bg=532400, retrieved Feb.~23, 2004.}$

³ See e.g., "Japanese Recovery, Growth Built Mainly on Exports and Investment May Not Last," *Financial Times*, Feb. 24, 2004, p. 21.

⁴ "Japan's Economy, Learning to Love a Growing China, from Threat to Opportunity," *Economist*, Nov. 29, 2003, pp. 38-39.

⁵ "A Saving Grace, Japanese Households Have Lost Their Appetite for Thrift," *Economist*, July 5, 2003, p. 67.

⁶ "Japanese Corporate Debt, an End in Sight," *Economist*, Feb. 14, 2004, pp. 67-68; "Japan, Flying Again, This Time the Economic Recovery Looks Sustainable," *Economist*, Feb. 14, 2004, p. 10; and "Japan's Economy, Surprise, Surprise, Japan Grows Its Fastest in a Decade," *Economist*, Feb. 21, 2004, p. 73.

⁷ Japan's exports grew roughly 10 percent in 2003, of which China accounted for two-thirds during the first 3 quarters of that year. "Japan's Economy, Surprise, Surprise," *Economist*; and "Japan's Economy, Learning to Love a Growing China," *Economist*.

Table JAPAN-1 Japan: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by major industry/commodity sectors, 1999-2003¹

¹Import values are based on customs value; export values are based on f.a.s. value, U.S. port of export. ²Less than \$500,000. ³Less than 0.05 percent.

Note.—Calculations based on unrounded data.

Table JAPAN-2 Leading changes in U.S. exports to and U.S. imports from Japan, 1999-2003

						Change, 200	3 from 2002
Sector/commodity	1999	2000	2001	2002	2003	Absolute	Percent
	<u>-</u>		Million	dollars ———			
U.S. EXPORTS:							
Increases:							
Aircraft, spacecraft, and related equipment (ET013)	4.557	3,252	2.648	3,768	4.757	989	26.3
Cattle and beef (AG002)	1,720	1,776	1.534	975	1,331	357	36.6
Decreases:	.,. ==	.,	.,	0.0	1,001	00,	00.0
Computers, peripherals, and parts (ET035)	3,681	4,457	3,780	2,498	2,246	-252	-10.1
Transportation equipment:	-,	.,	5,	_,	_,		
Aircraft engines and gas turbines (ET001)	979	1,216	1,394	1,230	1,043	-187	-15.2
Internal combustion piston engines, other than		.,	.,	,,200	.,		
for aircraft (ET002)	510	485	375	815	639	-176	-21.6
Certain motor-vehiclé parts (ET010)	986	1,312	1,095	1,156	990	-166	-14.3
All other	41,878	48,251	42,719	37,831	37,855	24	0.1
		,	,				
TOTAL	54,310	60,751	53,546	48,273	48,862	589	1.2
U.S. IMPORTS:							
Increases:							
Printing and related machinery (MM081)	401	428	313	409	1,913	1,504	367.5
Transportation equipment:	701	120	0.10	100	1,010	1,001	007.0
Certain motor-vehicle parts (ET010)	4,550	5,359	5,173	6,321	7.052	732	11.6
Construction and mining equipment (ET004)	1,646	1,449	1,212	1,259	1,526	267	21.2
Medicinal chemicals (CH025)	1,894	2,243	2,266	2,536	3,166	630	24.8
Television receivers and video monitors (ET022)	409	732	1,280	1,678	2,229	551	32.8
Decreases:	100	102	1,200	1,010	2,220	001	02.0
Motor vehicles (ET009)	32,116	34,508	33,020	35,847	33,061	-2,785	-7.8
Electronic products:	02,110	0 1,000	00,020	00,0	00,00.	_,. 00	
Computers, peripherals, and parts (ET035)	13.645	14,540	10.200	8.734	6.977	-1,756	-20.1
Telephone and telegraph apparatus (ET017)	3,210	3,896	2.488	1,815	1,477	-339	-18.7
Semiconductors and integrated circuits (ET033)	6,401	8.045	4,531	2,809	2,505	-304	-10.8
Games (MM060)	2,525	2,179	3,264	2,084	726	-1.358	-65.2
Machinery:	2,020	2,110	0,201	2,00.	. 20	.,	
Semiconductor manufacturing							
machinery (MM087A)	1,392	2,714	2,406	1,750	1,292	-458	-26.2
Electric motors, generators, and related	1,002	-,	_,	.,	.,		
equipment (MM091)	1,174	1,161	1,588	1,362	959	-403	-29.6
All other	61,587	68,487	58,398	54,659	55,601	943	1.7
TOTAL	130,951	145,742	126,139	121,262	118,485	-2,777	-2.3
Note -Calculations based on unrounded data							

Note.-Calculations based on unrounded data.

Source: Compiled from official statistics of the U.S. Department of Commerce.

U.S. exports

- Among leading export shifts in 2003 (see table JAPAN-2), the largest increase was for aircraft, spacecraft, and related equipment, as air carriers in Japan took delivery of the same number (14) of new large civil aircrafts (LCAs) from Boeing Co. as in the previous year, but with a higher proportion of more expensive 777-model than 767-model LCAs (see Aircraft, Spacecraft, and Related Equipment in Transportation Equipment). New aircraft deliveries also reduced the need for replacement components, as exports of aircraft engines and gas turbines to Japan declined in that year (see Aircraft Engines and Gas Turbines in Transportation Equipment).
- Products), shipped predominantly as bone-in cuts but also as fresh or cold whole or half carcasses. U.S. exports to Japan rebounded in 2003 from the previous year's lower level. In 2001-02, 2 events led consumers in Japan to question the safety of both domestic and imported beef products. "Mad cow disease" (bovine spongiform encephalopathy, BSE) was detected in herds in Japan in September-November 2001. Further, in January 2002, the integrity of the Japanese meat distribution system was questioned after a major producer in Japan reportedly mislabeled foreign beef as being of Japanese origin to gain eligibility for a BSE buy-back credit.¹⁰

⁸ Boeing Co., "Boeing Commercial Airplanes Orders and Deliveries," found at http://active.boeing.com/commercial/orders/usersdefinedselection.cfm, retrieved Apr. 2, 2004.

⁹ Base prices in 2002 for Boeing's 777s range from \$153.5 to \$231.5 million, compared to \$101.0 to \$138.5 million for 767s. See: Boeing, "Boeing Commercial Airplane Prices," at http://www.boeing.com/commercial/prices.

¹⁰ Kakuyu Obara, *Japan, Livestock and Products Semi-Annual 2002*, U.S. Department of Agriculture, Foreign Agriculture Service, Global Agriculture Information Network report JA2008, Mar. 1, 2002.

U.S. imports

- Among leading import shifts in 2003 (see table JAPAN-2), the largest increase was for printing and related machinery, particularly multifunction digital devices (MFDs) that also scan and transmit documents, unlike stand-alone computer printers (see Printing and Related Machinery in Machinery). As a preeminent global supplier, Japan benefitted from the rising popularity of MFDs over stand-alone printers in U.S. homes and offices.¹¹
- Motor vehicles exhibited the largest import decline, primarily for passenger vehicles. Although combined sales volume for the 11 Japanese brand-names sold in the U.S. market rose 3.3 percent in 2003, 2 apparently production by transplant assemblers increased at the expense of imports from Japan (see Motor Vehicles in Transportation Equipment). The shift in favor of domestic transplants was further reflected in increased imports of certain motor-vehicle parts for incorporation into larger components (see Certain Motor-Vehicle Parts in Transportation Equipment).
- Imports (and exports) of computers, peripherals, and parts continued to decline in each of the past 3 years, concurrent with rising U.S. imports from other Asian countries (especially China). This decline reflects both ongoing shifts of production to lower cost locations and cautious business spending on information technology worldwide in 2003 (see Computers, Peripherals, and Parts in Electronic Products). ¹³
- Reduced imports of games from Japan (see Miscellaneous Manufactures), such as video game consoles, with corresponding increased imports from China, reflected the shifting of production by Nintendo and Sony out of Japan, as their new generation of video games entered the maturity phase of the product cycle in 2003.¹⁴

¹¹ Sales of MFDs ("all-in-ones") rose from 25 to 42 percent of the U.S. market for inkjet printers between second and third quarters 2003. Olga Kharif, "Printing a Record of Growth," *BusinessWeek Online*, Feb. 17, 2004, found at http://www.businessweek.com/technology/content/feb2004/tc20040217_8510_tc055.htm, retrieved Apr. 6, 2004.

¹² John H. Teahen, Jr., "2003: Records for Import Brands, Record Low Share for Big 3," *Automotive News*, Jan. 19, 2004, p. 49.

¹³ Standard & Poor's, *Industry Surveys, Computers: Hardware*, Dec. 11, 2003, p. 20.

¹⁴ The GameCube was initially released in Nov. 2001, but Nintendo recently recorded lower sales and cut the suggested retail price. "Nintendo 2nd-Half Net May Fall One-Third as GameCube Sales Drop," *Bloomberg.com*, May 21, 2003, found at

http://quote.bloomberg.com/apps/news?pid=71000001&refer=japan&sid=acLBGfHWHP3M, retrieved Apr. 5, 2004.

Mexico

Ruben Mata, Coordinator (202) 205-3403 ruben.mata@usitc.gov

Change in 2003 from 2002:

U.S. trade deficit: Increased by \$6.0 billion (13 percent) to \$54.1 billion U.S. exports: Decreased by \$2.9 billion (3 percent) to \$83.1 billion U.S. imports: Increased by \$3.1 billion (2 percent) to \$137.2 billion

- Higher prices for U.S. imports of crude petroleum and increased imports of motor-vehicle parts (including seats and engines) offset reduced imports of other manufactured goods, for an overall increase in imports from Mexico in 2003 (see tables MEXICO-1 and MEXICO-2). Mexico's continued loss of U.S. market share to imports from China were reflected in reductions of certain-sector imports from Mexico and decreased exports of U.S. components and materials to assembly plants in Mexico. However, a continued decline in total U.S. exports to Mexico and a continued increase in total U.S. imports from that country resulted in a further expansion of the U.S. trade deficit with Mexico in 2003 (see table MEXICO-1).
- In contrast to previous years, Mexico's assembly industry did not participate fully in the growth of the U.S. economy in 2003 (see U.S. Merchandise Trade Performance). However, the 10-percent depreciation of the peso vis-a-vis the dollar in 2003 reportedly slowed the shift of sourcing by U.S. companies away from Mexico and most likely prevented an absolute decline in U.S. imports from Mexico.¹
- Despite an \$11.9-billion (15-percent) rise in U.S. manufacturers' shipments of computers, peripherals, and parts in 2003,² exports of such equipment (mostly parts) to Mexico fell (by \$952 million), but not as much as did imports (by \$1.3 billion) (mostly finished goods) from Mexico (see table MEXICO-2). Meanwhile, U.S. imports from China grew, a reflection of China's rise as the leading location for global outsourcing of computer-related equipment (see China; and Computers, Peripherals, and Parts in Electronic Products), thereby limiting Mexico's appeal as a production-sharing partner in that sector.³

¹ John Christman, "Mexico Economic, Political Update and Trade Forecasts: Projections and Implications for Investment in Mexico 2004-2008," *Global Insight*, Mar. 10, 2004.

² U.S. Census Bureau (Census), *Manufacturers' Shipments, Inventories, and Orders: Dec. 2003*, issued Feb. 2004, p. 3.

³ Mexico's share of U.S. imports of computers, peripherals, and parts dipped from 12 percent in 2002 to 10 percent in 2003, but China's climbed from 20 percent to 29 percent.

Table MEXICO-1

Mexico: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by major industry/commodity sectors, 1999-2003¹

						Change, 200	3 from 2002
Item	1999	2000	2001	2002	2003	Absolute	Percent
U.S. exports of domestic merchandise:			— Million doll	ars —			
Agricultural products Forest products Chemicals and related products Energy-related products Textiles and apparel Footwear Minerals and metals Machinery Transportation equipment Electronic products Miscellaneous manufactures Special provisions	5,850 3,091 10,731 2,311 5,550 94 6,528 10,546 11,588 19,562 1,717 3,815	6,772 3,628 13,105 4,342 6,155 114 8,210 11,604 15,285 24,644 1,977 4,607	7,645 3,282 12,266 3,296 5,232 123 6,956 10,263 14,953 20,798 1,729 3,994	7,534 3,056 12,444 3,274 4,939 95 6,671 9,183 14,524 18,965 1,687 3,705	8,176 3,217 13,300 2,897 4,696 90 6,454 9,086 13,725 16,414 1,511 3,541	643 161 856 -376 -243 -5 -217 -96 -798 -2,552 -177 -164	8.5 6.9 -11.5 -4.9 -3.0 -1.5.5 -13.5 -1.4.4
Total	81,381	100,442	90,537	86,076	83,108	-2,968	-3.4
U.S. imports of merchandise for consumption: Agricultural products Forest products Chemicals and related products Energy-related products Textiles and apparel Footwear Minerals and metals Machinery Transportation equipment Electronic products Miscellaneous manufactures Special provisions	5,631 1,044 3,124 6,280 9,413 354 5,997 13,899 24,798 28,793 4,697 4,987	6,033 1,055 3,473 11,356 10,580 351 6,767 15,487 31,373 37,207 5,160 5,893	6,157 999 3,388 9,103 9,941 31,2 6,528 14,821 31,046 37,221 5,295 5,697	6,378 1,038 3,637 11,567 9,649 279 7,013 16,321 31,117 35,029 6,356 5,738	7,220 1,075 3,779 14,792 9,015 275 7,116 16,596 30,664 34,560 6,252 5,855	842 38 142 3,225 -634 -3 103 276 -453 -470 -104 117	13.2 3.6 27.9 -6.6 -1.2 1.5 -1.5 -1.3 -2.0
Total	109,018	134,734	130,509	134,121	137,199	3,078	2.3
U.S. merchandise trade balance: Agricultural products Forest products Chemicals and related products Energy-related products Textiles and apparel Footwear Minerals and metals Machinery Transportation equipment Electronic products Miscellaneous manufactures Special provisions	219 2,046 7,607 -3,970 -3,863 -260 -531 -3,353 -13,210 -9,231 -2,980 -1,172	739 2,573 9,632 -7,014 -4,426 -237 1,443 -3,883 -16,088 -12,563 -3,184 -1,286	1,488 2,283 8,878 -5,807 -4,709 -189 428 -4,558 -16,093 -16,423 -3,566 -1,703	1,155 2,018 8,807 -8,294 -4,710 -183 -342 -7,138 -16,593 -16,694 -4,668 -2,033	956 2,142 9,521 -11,894 -4,319 -185 -661 -7,510 -16,939 -18,146 -4,741 -2,314	-199 123 714 -3,601 391 -2 -320 -372 -345 -2,082 -73 -281	-17.2 6.1 8.1 -43.4 8.3 -1.1 -93.6 -5.2 -2.1 -13.0 -1.6 -13.8
Total	-27,637	-34,292	-39,971	-48,045	-54,091	-6,046	-12.6

¹Import values are based on customs value; export values are based on f.a.s. value, U.S. port of export.

Note.—Calculations based on unrounded data.

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table MEXICO-2 Leading changes in U.S. exports to and U.S. imports from Mexico, 1999-2003

						Change, 200	3 from 2002
Sector/commodity	1999	2000	2001	2002	2003	Absolute	Percent
			Million d	ollars			
U.S. EXPORTS:							
Increases:							
Aircraft, spacecraft, and related equipment (ET013)	330	271	549	317	600	283	89.1
Decreases:							
Electronic products:							
Computers, peripherals, and parts (ET035)	2,806	3,307	3,188	3,612	2,660	-952	-26.3
Cathode-ray tubes (ET031)	1,820	2,110	1,773	1,595	1,103	-492	-30.8
Television receivers and video monitors (ET022)	376	393	396	406	171	-235	-58.0
Transportation equipment:					• • • •	200	00.0
Certain motor-vehicle parts (ET010)	5.058	6,628	6,218	5.852	5,278	-574	-9.8
Motor vehicles (ET009)	2,320	3,223	3,614	3,711	3,186	-524	-14.1
Internal combustion piston engines, other than	2,020	0,220	0,011	0,	0,100	021	
for aircraft (ET002)	1,407	2,407	1,917	2.095	2,031	-64	-3.1
Natural gas and components (CH006)	302	668	510	805	430	-376	-46.6
Seats for motor vehicles and aircraft (MM067)	493	572	660	584	265	-319	-54.7
All other	66,467	80,863	71.712	67,099	67,385	285	0.4
7							
TOTAL	81,381	100,442	90,537	86,076	83,108	-2,968	-3.4
U.S. IMPORTS:							
Increases:							
Crude petroleum (CH004)	5,265	9,838	7,957	10,490	13,630	3,140	29.9
Electronic products:							
Telephone and telegraph apparatus (ET017)	2,668	4,641	4,390	4,210	4,664	455	10.8
Television receivers and video monitors (ET022)	4,609	4,928	5,071	5,165	5,532	367	7.1
Medical goods (ET040)	970	1,280	1,533	1,957	2,315	358	18.3
Measuring, testing, and controlling		,	,	•	·		
instruments (ET043)	2,240	2,550	2,576	2,820	3,106	286	10.1
Seats for motor vehicles and aircraft (MM067)	1,817	2,026	2,130	2,696	3,126	430	15.9
Transportation equipment:	, .	,		•	•		
Internal combustion piston engines, other than							
for aircraft (ET002)	2.527	2,734	2,403	2,633	3,024	391	14.9
Certain motor-vehicle parts (ET010)	3,663	4,574	4,550	5,121	5,492	371	7.2
(- · - · · · · · · · · · · · · ·	-,	-,	.,	- •	•		

Table MEXICO-2--Continued Leading changes in U.S. exports to and U.S. imports from Mexico, 1999-2003

		-				Change, 200	3 from 2002
Sector/commodity	1999	2000	2001	2002	2003	Absolute	Percent
			— Million o	dollars ——			,,,,,,,,,,,,
U.S. IMPORTS (continued):							
Decreases:							
Motor vehicles (ET009)	15,813	21,025	21,327	20.793	19.327	-1.467	-7.1
Electronic products:	,	,	•	,		.,	
Computers, peripherals, and parts (ET035)	7,239	9.047	10.365	8.913	7,640	-1,274	-14.3
Radio and television broadcasting	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.,	,	-,	.,	.,	
equipment (ET023)	1.974	3,279	3,157	2.364	1.556	-807	-34.2
Games (MM060)	174	74	194	689	55	-633	-92.0
Apparel (CH049)	7.846	8.731	8.129	7.732	7.200	-532	-6.9
All other `	52,213	60,007	56,726	58,537	60,532	1,994	3.4
TOTAL	400.040	404704	400.500	404404	407400	0.070	
TOTAL	109,018	134,734	130,509	134,121	137,199	3,078	2.3

Note.-Calculations based on unrounded data.

Source: Compiled from official statistics of the U.S. Department of Commerce.

U.S. exports

- The 3-percent downturn in U.S. exports to Mexico in 2003 nearly mirrored the 2-percent decline in Mexican manufacturers' shipments to the United States in that year. The bulk of U.S. exports to Mexico were intermediate products (machinery, materials, components, and other industrial inputs; see table MEXICO-2) destined for companies operating under Mexico's maquiladora and PITEX Programs.
- U.S. exports to Mexico of certain motor-vehicle parts (as well as seats and engines) fell in 2003, reflecting reduced production of vehicles in Mexico for both domestic sales and export (see Certain Motor-Vehicle Parts in Transportation Equipment).⁶
- Although Mexican demand for motor vehicles was relatively stable in 2003 (0.2 percent below 2002), sales of domestically produced vehicles fell as imports rose 9 percent to increase their share of the Mexican market from 55 percent in 2002 to over 60 percent in 2003.⁷ Nevertheless, U.S. exports of vehicles to Mexico slipped as U.S. producers lost market share to imports of smaller, lower-NAFTA-content vehicles from Europe and South America (see Motor Vehicles in Transportation Equipment).⁸
- The decline in U.S. exports of cathode tubes reflected a shift toward the production of flat-screen televisions in Mexico, reducing demand there for picture tubes (see Televison Receivers and Video Monitors in Electronic Products).9

⁴ "Q4 GDP Surprises On the Upside, But the Engine Sputters in January," Mexico Watch, Mar. 1, 2004, p. 1.

⁵ Seventy percent of the foreign inputs into companies registered under the Maquiladora Program and PITEX in 2002 came from the United States, and 92 percent of their exports went to the United States. Products from these companies accounted for 84 percent of all Mexican exports to the United States in 2002. See Ralph Watkins, "Production-Sharing Update: Developments in 2002," *Industry Trade and Technology Review*, USITC publication 3661, Nov. 2003, pp. C-2, C-9, and C-16.

⁶ "Detroit South Faces Competition from Detroit East," Mexico Watch, Aug. 1, 2003, p. 6.

⁷ Dale Jewett, "GM Comes from Behind to Take Mexico Sales Crown," Automotive News, Jan. 26, 2004, p. 24.

⁸ Haig Stoddard, "Mexico Market Growing," Ward's AutoWorld, Nov. 2003, p. 15.

⁹ "JVC Cuts Ribbon on TJ Plant," Mexico Watch, July 1, 2003, p. 12.

U.S. imports

- The increased value of crude petroleum imports, the largest import increase (see table MEXICO-2), matched the growth of all U.S. imports from Mexico in 2003. Higher prices accounted for the increased value as unit prices rose more (22 percent) than did quantities imported (6 percent) (see Crude Petroleum in Energy Products). 10
- Imports of seats for motor vehicles and aircraft; internal combustion piston engines, other than for aircraft; and certain motor-vehicle parts from Mexico rose as some U.S. parts producers shifted a portion of their assembly operations to Mexico in response to their customers' demands for lower prices. 11 Depreciation of the peso against the dollar and increased demand for replacement parts also helped boost U.S. imports from Mexico (see Certain Motor-Vehicle Parts in Transportation Equipment).
- Declining imports of motor vehicles from Mexico reflected the loss of U.S. market share by Detroit's Big Three to foreign-based auto producers. The Big Three (especially Ford and General Motors) account for the bulk of Mexico's vehicle exports to the United States (see Motor Vehicles in Transportation Equipment). 12
- Cellular telephones and printed circuit assemblies accounted for nearly one-half of U.S. imports of telephone and telegraph apparatus from Mexico in 2003. Imports of digital communications gear rose in response to growing demand for faster Internet connections (see Telephone and Telegraph Apparatus in Electronic Products). 13

¹⁰ The average price of crude petroleum rose from \$22.51 per barrel in 2002 to \$27.48 per barrel in 2003. Meanwhile, the volume of U.S. imports of crude petroleum from Mexico rose from 1.5 million barrels per day to 1.6 million barrels per day.

^{11 &}quot;Detroit South Faces Competition from Detroit East," Mexico Watch.

¹² Stoddard, Ibid.

¹³ U.S. industry representatives, telephone interviews by USITC staff, Mar. 2 and 8, and Apr. 8, 2004.

FAQs

Why is this information prepared?

The international trade analysts of the U.S. International Trade Commission (USITC or the Commission), Office of Industries, routinely monitor trade developments in all natural resource, agricultural, and manufacturing industries, and in the services sector, which enables the USITC to better anticipate and address issues of concern in its various roles under U.S. trade statutes. Trade monitoring at the industry/commodity sector and subsector levels (the latter referred to as industry/ commodity groups and subgroups² in this report) is a facet of the research and analysis undertaken by the Office of Industries as part of its responsibility to provide advice and technical information on industry and trade issues.

On August 27, 1993, on its own motion and pursuant to section 332(b) of the Tariff Act of 1930 (19 U.S.C. 1332(b)), the U.S. International Trade Commission instituted investigation No. 332-345, *Annual Reports on U.S. Trade Shifts in Selected Industries*. The report format was developed by the USITC in response to Congressional interest in establishing a systematic means of examining and reporting on the significance of major trade shifts, by product and with leading U.S. trade partners in all natural-resource, agricultural, and manufacturing industries.

On December 20, 1994, the Commission on its own motion expanded the scope of this study to include selected service industries. Under the expanded scope, the Commission publishes two separate reports annually: *Shifts in U.S. Merchandise Trade* and *Recent Trends in U.S. Services Trade*. A separate report covering services trade was instituted to provide more comprehensive coverage of U.S. trade performance and overall economic competitiveness.

¹ Major roles include determining whether U.S. industries are materially injured or threatened with material injury by unfair imports, conducting studies on the international competitiveness of U.S. industries, and advising the President and the Congress on the likely effects of trade-policy changes and proposals.

² In some cases, industry/commodity groups have been further broken down into subgroups to create more meaningful data sets.

How is this information organized?

Overall U.S. merchandise trade performance is summarized for 2003, in comparison with such trade for 2002. Coverage of the individual merchandise sectors includes data showing U.S. export, import, and trade balance shifts by sectors, industry/commodity groups (and in some cases subgroups), and shifts in trade with U.S. trade partners.

The shift in U.S. trade with each of the top five U.S. trade partners—Canada, China, the European Union, Japan, and Mexico— is also presented. Summary tables detail the important shifts in U.S. bilateral trade and highlight leading changes in industry/commodity groups for each of the five major trade partners.

A general sector overview is presented for each of the 10 sectors, identifying significant shifts in merchandise trade within the sector. In most cases, significant shifts in specific industry/commodity groups or subgroups are also identified. A statistical summary table of industry/commodity groups or subgroups is included in each sector analysis chapter, showing absolute and percent changes in a year-to-year comparison for 2002 and 2003. Industry/commodity profile tables are also included.

What trade statistics are used?

Trade statistics are compiled from official statistics of the U.S. Department of Commerce. These statistics are categorized using the U.S. Harmonized Tariff Schedules (for imports) and Schedule B (for exports) using an international nomenclature system.

TRADE DATA NOTE

Although all import and export data presented in this report are official statistics of the USDOC, these data may be different from the data presented by other government agencies and private institutions that cite Commerce as the source for trade data. Possible reasons for these discrepancies are as follows:

- Data in this report include merchandise trade only; other reported data may include services.
- Data are not seasonally adjusted; the values of other reported data may be so adjusted.
- Data are not adjusted on a balance of payments (BOP) basis; the values of other reported data may be so adjusted in line with the concepts and definitions used to prepare national and international accounts.
- Exports are on a domestic export/f.a.s. basis; other reported export data may be on a total export/f.a.s. basis, which include re-exports of foreign merchandise.
- Imports are on an imports-for-consumption/customs value basis; other reported import data may be on a general imports/customs value basis.
- Exports and imports may not include all errata because certain errors may not be corrected by Commerce in time to be included in this report.
- Data in this report may be adjusted for errors that are not of sufficient magnitude to be changed in Commerce data.
- There are no adjustments for carryover (exports and imports received late or not processed for any reason and then subsequently included in a later month's data are reassigned to the month of exportation/entry), and trade is reported as originally released by Commerce. Other reported data may adjust export/import trade for carryover.
- The industry/commodity groups contained in this report are developed by the USITC and may differ from similarly labeled groups from other sources.

What are sectors?

Sectors are major segments of the U.S. economy, e.g., Agricultural Products, Minerals and Metals. We divide the U.S. economy into 10 merchandise sectors.

What are industry/commodity profiles?

Industry/commodity profiles contain official and estimated data (1999-2003) for domestic consumption, production, employment, trade, and import penetration for most of the industry/commodity groups and subgroups covered in this report.³ USITC international trade analysts have estimated certain components of these data, based on publicly available primary and secondary government and industry sources. The estimated data are subject to change as information from these sources is updated.

³ Certain industry/commodity groups that cover a wide variety of products or a miscellaneous group of products are not included because data in these cases are of limited value. In some cases, certain subgroups have been included in place of the related aggregate group.

ASEAN (ASSOCIATION OF SOUTHEAST ASIAN NATIONS)

Brunei Malaysia
Burma (Myanmar) Philippines
Cambodia Singapore
Indonesia Thailand
Laos Vietnam

ASIA

Afghanistan Macao Bangladesh Malaysia

Bhutan Maldive Islands

Brunei Mongolia
Burma (Myanmar) Nepal

Cambodia North Korea

China Pakistan
Hong Kong Philippines
India Singapore
Indonesia Sri Lanka
Japan Taiwan
Korea Thailand

Laos Vietnam

CBERA (CARIBBEAN BASIN ECONOMIC RECOVERY ACT) BENEFICIARIES

Antigua and Barbuda

Guyana

Aruba

Haiti

The Bahamas

Honduras

Barbados

Jamaica

Belize

Montserrat

British Virgin Islands

Netherlands Antilles

Costa Rica

Nicaragua

Dominica

Panama

Dominican Republic

St. Kitts and Nevis

El Salvador

St. Lucia

Grenada

St. Vincent and the Grenadines

Guatemala

Trinidad and Tobago

CENTRAL AND EASTERN EUROPE

Albania

Macedonia

Bosnia-Hercegovina

Poland

Bulgaria

Romania

Croatia

Slovakia

Czech Republic

Slovenia

Hungary

Yugoslavia (Serbia and Montenegro)

EU/EU-15 (EUROPEAN UNION)

Austria

Italy

Belgium

Luxembourg

Denmark

Netherlands

Finland

Portugal

France

Spain

Germany

Sweden

Greece

United Kingdom

Ireland

LATIN AMERICA

Anguilla

Antigua and Barbuda

Argentina Aruba

The Bahamas

Barbados Belize

Bermuda Bolivia

Brazil

British Virgin Islands Cayman Islands

Chile Colombia

Costa Rica

Costa Ric

Cuba

Dominica Island

Dominican Republic

Ecuador

El Salvador

Falkland Islands

French Guiana

Grenada

Guadeloupe

Guatemala

Guyana Haiti

-- -

Honduras

Jamaica

Martinique

Mexico

Montserrat

Netherlands Antilles

Nicaragua

Panama

Paraguay

Peru

St. Kitts and Nevis

St. Lucia

St. Pierre and Miquelon

St. Vincent and the Grenadines

Suriname

Trinidad and Tobago

Turks and Caicos Islands

Uruguay

Venezuela

NAFTA (NORTH AMERICAN FREE TRADE AGREEMENT) PARTNERS

Canada

Mexico

United States

OPEC (ORGANIZATION OF PETROLEUM EXPORTING COUNTRIES)

Algeria Nigeria Indonesia Qatar

Iran Saudi Arabia

Iraq United Arab Emirates

Kuwait Venezuela

Libya

SUB-SAHARAN AFRICA

Angola Lesotho
Benin Liberia
Botswana Madagascar
Burkina Faso Malawi
Burundi Mali

Cameroon Mauritania
Cape Verde Mauritius
Central African Republic Mozambique
Chad Namibia
Comoros Niger
Côte d'Ivoire Nigeria
Republic of the Congo Rwanda

(Congo-Brazzaville) São Tomé and Príncipe

Democratic Republic of the
Congo (Congo-Kinshasa)

Djibouti

Equatorial Guinea

Eritrea

South Africa

Ethiopia

Senegal

Seychelles

Sierra Leone

Somalia

South Africa

Ethiopia Sudan
Gabon Swaziland
The Gambia Tanzania
Ghana Togo
Guinea Uganda
Guinea-Bissau Zambia
Kenya Zimbabwe

What are industry/commodity groups and subgroups?

Sectors are broken down into industry/commodity groups, which are aggregations of similar products, e.g., motor vehicles, footwear. In some cases, industry/commodity groups have been further broken down into subgroups to create more meaningful data sets. The groups and subgroups discussed in this report are as follows:

Agricultural products sector ¹	AG036 Infant formulas, malt extracts, and
(HTS chapters ² 1-24, 35, 41, 43, 51, 52)	other edible preparations
10001 0 11 11	AG037 Cocoa, chocolate, and confectionery
AG001 Certain miscellaneous animals and	AG038 Fruit and vegetable juices
meats	AG039 Nonalcoholic beverages, excluding
AG002 Cattle and beef	fruit and vegetable juices
AG003 Swine and pork	AG040 Malt beverages
AG004 Sheep and meat of sheep	1.0044 777
AG005 Poultry	AG041 Wine and certain other fermented
AG006 Fresh or frozen fish	beverages
AG007 Canned fish	AG042 Distilled spirits
AG008 Cured and other fish	AG043 Unmanufactured tobacco
AG009 Shellfish	AG044 Cigars and certain other manufactured
AG010 Dairy produce	tobacco
AG011 Eggs	AG045 Cigarettes
AG012 Sugar and other sweeteners	AG046 Hides, skins, and leather
AG012A Sugar	AG047 Furskins
AG012B High fructose corn sweetener	AG048 Wool and other animal hair
AG013 Animal feeds	AG049 Cotton, not carded or combed
AG014 Live plants	AG050 Ethyl alcohol for nonbeverage purposes
AG015 Seeds	
AG016 Cut flowers	Forest products sector
AG017 Miscellaneous vegetable substances	(HTS chapters 14, 44-49)
AG018 Fresh, chilled, or frozen vegetables	
AG019 Prepared or preserved vegetables,	AG051 Logs and rough wood products
mushrooms, and olives	AG052 Lumber
AG020 Edible nuts	AG053 Moldings, millwork, and joinery
AG021 Tropical fruit	AG054 Wood veneer and wood panels
AG022 Citrus fruit	AG055 Wooden containers
AG023 Deciduous fruit	AG056 Tools and tool handles of wood
AG024 Other fresh fruit	AG057 Miscellaneous articles of wood
AG025 Dried fruit other than tropical	AG058 Cork and rattan
AG026 Frozen fruit	AG059 Wood pulp and wastepaper
AG027 Prepared or preserved fruit	AG060 Paper boxes and bags
AG028 Coffee and tea	AG061 Industrial papers and paperboards
AG029 Spices	AG061A Paperboard
AG030 Cereals	AG061B Tissue and tissue products
AG031 Milled grains, malts, and starches	AG061C Industrial paper
AG032 Oilseeds	
	AG062 Newsprint
AG033 Animal or vegetable fats and oils	AG062 Newsprint AG063 Printing and writing papers
AG033 Animal or vegetable fats and oils AG034 Pasta, cereals, and other bakery goods	
	AG063 Printing and writing papers
AG034 Pasta, cereals, and other bakery goods	AG063 Printing and writing papers AG064 Certain specialty papers

Chemicals an	nd related products sector	Energy-rela	ated products sector
(HTS chapter	rs 13-15, 22, 25, 27-40)	(HTS chapte	ers 27-29, 34, 36, 38)
CH007 Majo	or primary olefins	CH001 Ele	ectrical energy
CH008 Othe			clear materials
	nary aromatics	CH003 Co	al, coke, and related chemical
	anic commodity chemicals		oducts
	anic specialty chemicals		ıde petroleum
_	ain organic chemicals	CH005 Pet	troleum products
	cellaneous inorganic chemicals		tural gas and components
CH014 Inor			
CH015 Chlo	or-alkali chemicals	Textiles, ap	parel, and footwear sector
CH016 Ferti	ilizers	(HTS chapte	ers 39, 40, 42, 43, 50-65)
CH017 Pain	ts, inks, and related items, and		
certa	ain components thereof	CH045 Fib	pers and yarns, except raw cotton and
CH018 Synt	thetic organic pigments	rav	v wool
CH019 Synt	thetic dyes and azoic couplers	CH046 Fal	brics
	thetic tanning agents	CH046A	Broadwoven fabrics
	aral tanning and dyeing materials	CH046B	Knit fabrics
	tographic chemicals and		Specialty fabrics
	parations		Coated and other fabrics
	icide products and formulations		Glass fiber fabrics
	esives and glues		Other fabrics
	licinal chemicals		rpets and rugs
	ential oils and other flavoring		ome furnishings
	erials		Blankets
	umes, cosmetics, and toiletries		Pillowcases and sheets
-	ps, detergents, and surface-active		Table/kitchen linens and towels
ager			Curtains
	cellaneous chemicals and cialties	CH048E	Bedspreads and other furnishing articles
	losives, propellant powders, and	CH048F	Pillows, cushions, and sleeping
	ted items	0110 101	bags
	vethylene resins in primary forms	CH048G	•
	propylene resins in primary forms	CH049 Ap	1
	vinyl chloride resins in primary		Men's and boys' suits and sports
form			coats
CH034 Styr	ene polymers in primary forms	CH049B	Men's and boys' coats and jackets
CH035 Satu	rated polyester resins	CH049C	Men's and boys' trousers
CH036 Othe	er plastics in primary forms	CH049D	Women's and girls' trousers
CH037 Styr	ene-butadiene rubber in primary	CH049E	Shirts and blouses
form	ns	CH049F	Sweaters
CH038 Othe	er synthetic rubber	CH049G	Women's and girls' suits, skirts, and
	umatic tires and tubes (new)		coats
CH040 Othe		CH049H	<u> </u>
	cellaneous plastic products	CH049I	Robes, nightwear, and underwear
	cellaneous rubber products	CH049J	Hosiery
CH043 Gela			Body-supporting garments
CH044 Nati	ural rubber	CH049L	Neckwear, handkerchiefs, and
			scarves

CH049M Gloves, including gloves for sports	MM025A Ingots, blooms, billets, and slabs of
CH049N Headwear	carbon and alloy steels
CH049O Leather apparel and accessories	MM025B Plates, sheets, and strips of carbon
CH049P Fur apparel and other fur articles	and alloy steels
CH049Q Rubber, plastic, and coated-fabric	MM025C Bars, rods, and light shapes of
apparel	carbon and alloy steels
CH049R Nonwoven apparel	MM025D Angles, shapes, and sections of
CH049S Other wearing apparel	carbon and alloy steels
CH050 Miscellaneous textile products CH051 Footwear	MM025E Wire of carbon and alloy steels
CH051 Footwear	MM025F Ingots, blooms, billets, and slabs of stainless steels
Minerals and metals sector	
	MM025G Plates, sheets, and strips of stainless steels
(HTS chapters 25, 26, 68-76, 78-83)	
MM001 Clays and related mineral products	MM025H Bars, rods, and light shapes of stainless steels
MM002 Fluorspar and miscellaneous mineral	MM025I Angles, shapes, and sections of
substances	stainless steels
MM003 Iron ores and concentrates	MM025J Wire of stainless steels
MM004 Copper ores and concentrates	MM025K Rails and accessories of carbon and
MM005 Lead ores, concentrates, and residues	alloy steels
MM005A Lead ores and concentrates	MM025L Pipes and tubes of carbon and alloy
MM006 Zinc ores, concentrates, and residues	steels
MM006A Zinc ores and concentrates	MM025M Pipes and tubes of stainless steels
MM007 Certain ores, concentrates, ash, and	MM025N Tool steels
residues	MM026 Steel pipe and tube fittings and certain
MM007A Molybdenum ores and concentrates	cast products
MM008 Precious metal ores and concentrates	MM027 Fabricated structurals
MM008A Gold ores and concentrates	MM028 Metal construction components
MM008B Silver ores and concentrates	MM029 Metallic containers
MM009 Cement, stone, and related products	MM030 Wire products of base metal
MM009A Cement	MM031 Miscellaneous products of base metal
MM010 Industrial ceramics	MM032 Industrial fasteners of base metal
MM011 Ceramic bricks and similar articles	MM033 Cooking and kitchen ware
MM012 Ceramic floor and wall tiles	MM034 Metal and ceramic sanitary ware
MM013 Ceramic household articles	MM035 Construction castings and other
MM014 Flat glass	cast-iron articles
MM015 Glass containers	MM036 Copper and related articles
MM016 Household glassware	MM036A Unrefined and refined copper
MM017 Miscellaneous glass products	MM036B Copper alloy plate, sheet, and strip
MM018 Fiberglass insulation products	MM037 Unwrought aluminum
MM019 Natural and synthetic gemstones	MM037A Primary and secondary aluminum
MM020 Precious metals and non-numismatic	MM038 Aluminum mill products
coins	MM038A Aluminum bars, rods, and profiles
MM020A Unrefined and refined gold	MM038B Aluminum wire
MM021 Primary iron products	MM038C Aluminum plate, sheet, and strip
MM022 Ferroalloys	MM038D Aluminum foil
MM023 Iron and steel waste and scrap	MM038E Aluminum tubes, pipes, and fittings
MM024 Abrasive and ferrous products	MM039 Lead and related articles
MM024A Abrasive products	MM039A Refined lead
MM025 Steel mill products	MM040 Zinc and related articles

) (1) (1) (1) (1) (1) (1)		
MM040A Unwrought zinc	10.000	equipment
MM041 Certain base metals and chemical	MM092	Electrical transformers, static
elements		converters, and inductors
MM041A Titanium ingot		Portable electric handtools
MM042 Nonpowered handtools	MM094	Nonelectrically powered handtools and
MM043 Certain cutlery, sewing implements,		parts thereof
and related products	MM095	Electric lamps (bulbs) and portable
MM044 Table flatware and related products		electric lights
MM045 Certain builders' hardware		Welding and soldering equipment
	MM097	Nonautomotive insulated electrical wire
Machinery sector		and related products
(HTS chapters 84, 85, 87)		Miscellaneous machinery
	MM099	Molds and molding machinery
MM068 Wiring harnesses for motor vehicles		
MM069 Pumps for motor vehicles		ortation equipment sector
MM070 Pumps for liquids	(HTS cl	napters 84-89)
MM071 Air-conditioning equipment and parts		
MM072 Industrial thermal-processing	ET001	Aircraft engines and gas turbines
equipment and furnaces	ET002	Internal combustion piston engines,
MM073 Household appliances, including		other than for aircraft
commercial applications		
MM073A Major household appliances and	ET003	Forklift trucks and similar industrial
parts		vehicles
MM074 Centrifuges and filtering and purifying	ET004	Construction and mining equipment
equipment	ET005	S
MM075 Wrapping, packaging, and can-sealing	ET006	Primary cells and batteries and electric
machinery		storage batteries
MM076 Scales and weighing machinery	ET007	Ignition, starting, lighting, and other
MM077 Mineral processing machinery		electrical equipment
MM078 Farm and garden machinery and	ET008	Rail locomotive and rolling stock
equipment	ET009	Motor vehicles
MM079 Industrial food-processing and related	ET010	Certain motor-vehicle parts
machinery	ET011	Motorcycles, mopeds, and parts
MM080 Pulp, paper, and paperboard machinery	ET012	Miscellaneous vehicles and
MM081 Printing and related machinery		transportation-related equipment
MM082 Textile machinery	ET013	Aircraft, spacecraft, and related
MM083 Metal rolling mills		equipment
MM084 Metal cutting machine tools and	ET014	Ships, tugs, pleasure boats, and similar
machine tool accessories		vessels
MM085 Metal forming machine tools	ET015	Motors and engines, except internal
MM086 Non-metalworking machine tools		combustion, aircraft, or electric
MM087 Semiconductor manufacturing		
equipment and robotics	Electro	nic products sector
MM087A Semiconductor manufacturing	(HTS cl	hapters 37, 84, 85, 88, 90, 91)
machinery		
MM088 Taps, cocks, valves, and similar devices	ET016	Office machines
MM089 Mechanical power transmission	ET017	Telephone and telegraph apparatus
equipment	ET018	Consumer electronics (except
MM090 Boilers, turbines, and related machinery		televisions)
MM091 Electric motors, generators, and related	ET019	Blank media

ET020	Prerecorded media	Miscellaneous manufactures sector
ET021	Navigational instruments and remote	(HTS chapters 14, 44-49)
	control apparatus	
ET022	Television receivers and video	MM046 Luggage, handbags, and flat goods
	monitors	MM046A Luggage
ET023	Radio and television broadcasting	MM046B Handbags
	equipment	MM046C Flat goods
ET024	Electric sound and visual signaling	MM047 Certain other leather goods
	apparatus	MM048 Musical instruments and accessories
ET025	Electrical capacitors and resistors	MM049 Umbrellas, whips, riding crops, and
ET026	Printed circuits	canes
ET027	Circuit apparatus exceeding 1000V	MM050 Silverware and related articles of
ET028	Circuit apparatus not exceeding 1000V	precious metal
ET029	Circuit apparatus assemblies	MM051 Precious jewelry and related articles
ET030	Parts of circuit apparatus	MM052 Costume jewelry and related articles
ET031	Cathode-ray tubes	MM053 Bicycles and certain parts
ET032		MM054 Furniture
ET033	Semiconductors and integrated circuits	MM055 Writing instruments and related articles
ET034	Miscellaneous electrical equipment	MM056 Lamps and lighting fittings
ET035	Computers, peripherals, and parts	MM057 Prefabricated buildings
ET036	Photographic film and paper	MM058 Dolls
ET037	Optical fibers, optical fiber bundles and	MM059 Toys
	cables	MM060 Games
ET038	Optical goods, including ophthalmic	MM061 Sporting goods
	goods	MM062 Smokers' articles
ET039	Photographic cameras and equipment	MM063 Brooms, brushes, and hair grooming
ET040	Medical goods	articles
ET041	Watches and clocks	MM063A Brooms and brushes
ET042	Drawing, drafting, and calculating instruments	MM063B Hair grooming articles, non-electric (except brushes)
ET043	Measuring, testing, and controlling	MM064 Works of art and miscellaneous
	instruments	manufactured goods
		MM065 Apparel fasteners
		MM066 Arms and ammunition
		MM066A Small arms and ammunition
		MM067 Seats for motor vehicles and aircraft

¹ This coding system (e.g., AG0012, AG012A) is used by the USITC to identify major groupings and subgroupings of U.S. Harmonized Tariff Schedule headings/subheadings and corresponding export categories for trade monitoring purposes.

² Products in some HTS chapters are divided between industry/commodity groups monitored by the Commission; however, no products are in more than one sector. Chapter 77 of the HTS is not used and is reserved for possible future use. Chapters 98-99 of the HTS are for special classification provisions.



HTS 8-digit subheading ranges included in industry/commodity groups and subgroups, by sector

USITC code	Industry/commodity group or subgroup title	HTS subheading range
Agricultur	al products sector:	
AG001	Certain miscellaneous animals and meats	0101.10.00 - 0102.10.00
		0103.10.00 - 0103.10.00
		0104.20.00 - 0104.20.00
		0106.00.10 - 0106.90.00
		0204.50.00 - 0205.00.00
		0206.80.00 - 0206.90.00
		0208.10.00 - 0208.90.90
		0210.11.00 - 0210.99.90
		0410.00.00 - 0511.10.00
		0511.99.20 - 0511.99.40
		1601.00.20 - 1602.10.00
		1602.41.10 - 1603.00.90
	0.00	3502.90.00 - 3502.90.00
AG002	Cattle and beef	
		0201.10.05 - 0202.30.80
AG003	Swine and pork	0206.10.00 - 0206.29.00
AG003	Swine and pork	0203.11.00 - 0203.29.40
		0203.11.00 - 0203.29.40
AG004	Sheep and meat of sheep	0200.30.00 - 0200.49.00
AG004	Sheep and meat of sheep	0204.10.00 - 0204.43.40
AG005	Poultry	0204.10.00 - 0204.43.40
A0003	1 Outry 1	0207.11.00 - 0207.36.00
		1602.20.20 - 1602.39.00
AG006	Fresh or frozen fish	
AG007	Canned fish	
AG008	Cured and other fish	
		0305.10.20 - 0305.69.60
		0511.91.00 - 0511.91.00
		1604.20.05 - 1604.30.40
AG009	Shellfish	0306.11.00 - 0307.99.00
		1605.10.05 - 1605.90.60
AG010	Dairy produce	0401.10.00 - 0406.90.99
		2105.00.05 - 2105.00.50
		3501.10.10 - 3501.10.50
		3501.90.60 - 3501.90.60
	_	3502.20.00 - 3502.20.00
AG011	Eggs	
A 0040	Sugar and other sweeteners	3502.11.00 - 3502.19.00
AG012	Sugar and other sweeteners	1212.91.00 - 0409.00.00 1212.91.00 - 1212.92.00
		1212.99.10 - 1212.99.10 1701.11.05 - 1703.90.50
AG012A	Sugar	
, 100 12/7	ougui	1702.90.05 - 1702.90.90
AG012B	High fructose corn sweetener	
. 100120		1702.60.22 - 1702.60.40
AG013	Animal feeds	
		1213.00.00 - 1214.90.00
		2301.10.00 - 2309.90.95
AG014	Live plants	
	•	0602.90.60 - 0602.90.90

HTS 8-digit subheading ranges included in industry/commodity groups and subgroups, by sector-Continued

USITC code	Industry/commodity group or subgroup title	HTS subheading range
A C 0 1 E	Seeds	0000 00 50 0000 00 50
AG015	Seeds	
		0701.10.00 - 0701.10.00 0712.90.80 - 0712.90.80
		0712.90.80 - 0712.90.80
		0713.10.10 - 0713.10.10
		0713.10.10 - 0713.10.10
		0713.20.10 - 0713.20.10
		0713.32.10 - 0713.32.10
		0713.33.10 - 0713.33.10
		0713.39.10 - 0713.39.10
		0713.40.10 - 0713.40.10
		0713.50.10 - 0713.50.10
		0713.90.10 - 0713.90.10
		1001.10.00 - 1001.10.00
		1001.90.10 - 1001.90.10
		1002.00.00 - 1002.00.00
		1003.00.40 - 1003.00.40
		1004.00.00 - 1004.00.00
		1005.10.00 - 1005.10.00
		1007.00.00 - 1007.00.00
		1008.20.00 - 1008.20.00 1201.00.00 - 1201.00.00
		1201.00.00 - 1201.00.00
	•	1205.00.00 - 1205.00.00
		1205.10.00 - 1205.10.00
		1205.90.00 - 1205.90.00
		1206.00.00 - 1206.00.00
		1207.20.00 - 1207.20.00
		1209.10.00 - 1209.99.40
AG016	Cut flowers	
AG017	Miscellaneous vegetable substances	0604.10.00 - 0604.99.60
		1108.20.00 - 1108.20.00
		1210.10.00 - 1212.30.90
		1212.99.00 - 1212.99.00
		1212.99.90 - 1212.99.90
		1301.10.00 - 1301.90.90
		1302.12.00 - 1302.39.00
		1402.00.91 - 1403.90.40 1404.90.00 - 1404.90.00
AG018	Fresh, chilled, or frozen vegetables	
AG019	Prepared or preserved vegetables, mushrooms, and olives	
,,,,,,,	The second of th	0712.90.80 - 0712.90.80
		0712.90.85 - 0712.90.85
		0713.10.20 - 0713.10.40
		0713.20.20 - 0713.20.20
		0713.31.20 - 0713.31.40
		0713.32.20 - 0713.32.20
		0713.33.20 - 0713.33.40
		0713.39.15 - 0713.39.40
		0713.40.20 - 0713.40.20
		0713.50.20 - 0713.50.20
		0713.90.50 - 0714.90.60
		1105.10.00 - 1106.20.90

HTS 8-digit subheading ranges included in industry/commodity groups and subgroups, by sector–Continued

USITC code	Industry/commodity group or subgroup title	HTS subheading range
		2001.10.00 - 2005.90.97
		2008.91.00 - 2008.91.00
		2008.99.61 - 2008.99.61
AG020	Edible nuts	2008.99.65 - 2008.99.71 0801.11.00 - 0802.90.98
AGUZU	Edible fluts	0813.50.00 - 0813.50.00
		1202.10.05 - 1202.20.80
		2008.11.02 - 2008.19.90
AG021	Tropical fruit	0803.00.20 - 0804.50.80
		0807.20.00 - 0807.20.00
		0810.60.00 - 0810.60.00
		0810.90.25 - 0810.90.25
		0813.40.10 - 0813.40.10
AG022	Citrus fruit	0813.40.80 - 0813.40.80
AGUZZ	Citius nuit	0812.90.20 - 0812.90.20
		0814.00.10 - 0814.00.80
		2008.30.10 - 2008.30.96
AG023	Deciduous fruit	0808.10.00 - 0809.40.40
AG024	Other fresh fruit	
		0807.11.30 - 0807.19.80
		0810.10.20 - 0810.50.00
		0810.90.20 - 0810.90.20 0810.90.25 - 0810.90.45
AG025	Dried fruit other than tropical	
A0025	bried trait other than tropical	0813.10.00 - 0813.30.00
		0813.40.15 - 0813.40.40
		0813.40.90 - 0813.40.90
		0813.50.00 - 0813.50.00
AG026	Frozen fruit	
AG027	Prepared or preserved fruit	
		0812.90.30 - 0812.90.90
		1106.30.20 - 1106.30.40 2006.00.20 - 2007.99.75
		2008.20.00 - 2008.20.00
		2008.40.00 - 2008.80.00
		2008.92.10 - 2008.99.60
		2008.99.63 - 2008.99.63
	•	2008.99.80 - 2008.99.90
AG028	Coffee and tea	
A C000	Spices	2101.11.21 - 2101.30.00
AG029	Spices	1207.50.00 - 1207.50.00
		2103.30.20 - 2103.30.40
AG030	Cereals	
		1001.90.20 - 1001.90.20
		1002.00.00 - 1003.00.20
		1003.00.40 - 1003.00.40
		1004.00.00 - 1004.00.00
		1005.90.20 - 1006.40.00
		1007.00.00 - 1008.10.00
AG031	Milled grains, malts, and starches	1008.30.00 - 1008.90.00 1101.00.00 - 1104.30.00
, 10001	minoc grand, maio, and starones	1107.10.00 - 1108.19.00
		1107.10.00 - 1100.19.00

HTS 8-digit subheading ranges included in industry/commodity groups and subgroups, by sector-Continued

USITC code	Industry/commodity group or subgroup title	HTS subheading range
		1109.00.10 - 1109.00.90
		1903.00.20 - 1903.00.40
AG032	Oilseeds	1201.00.00 - 1201.00.00
		1203.00.00 - 1203.00.00
		1204.00.00 - 1204.00.00
		1205.00.00 - 1205.00.00
		1205.10.00 - 1205.10.00
		1205.90.00 - 1205.90.00
		1206.00.00 - 1207.10.00
		1207.20.00 - 1207.40.00
		1207.60.00 - 1207.99.01
AG033	Animal or vegetable fats and oils	
		1501.00.00 - 1518.00.40
		1522.00.00 - 1522.00.00
AG034	Pasta, cereals, and other bakery goods	
		1902.11.20 - 1902.40.00
		1904.10.00 - 1905.90.90
4.0005	Sauces, condiments, and soups	2102.10.00 - 2102.30.00
AG035	Sauces, condiments, and soups	
		2103.90.20 - 2104.20.00
4.0000	Infant famous land week and a second attended the second second	2209.00.00 - 2209.00.00
AG036	Infant formulas, malt extracts, and other edible preparations	
		1901.90.10 - 1901.90.90
		2106.10.00 - 2106.90.09
		2106.90.22 - 2106.90.46
		2106.90.58 - 2106.90.99
A C 0 2 7	Cocoa, chocolate, and confectionery	3504.00.10 - 3504.00.50
AG037	Ervit and vagetable inices	2000 11 00 2000 00 10
AG038	Fruit and vegetable juices	2106.90.48 - 2106.90.54
AG039	Nonalcoholic beverages, excluding fruit and vegetable juices	
AG039 AG040	Malt beverages	
AG040 AG041	Wine and certain other fermented beverages	2204 10 00 2206 00 00
AG041 AG042	Distilled spirits	
AG042	Distilled Spirits	2207.10.30 - 2207.10.30
		2208.20.10 - 2208.90.80
AG043	Unmanufactured tobacco	
AG044	Cigars and certain other manufactured tobacco	
710044	organo and contain other manufactured tobacco	2402.90.00 - 2403.99.90
AG045	Cigarettes	2402 20 10 - 2402 20 90
AG046	Hides, skins, and leather	4101 10 00 - 4115 20 00
AG047	Furskins	
AG048	Wool and other animal hair	5101 11 10 - 5102 20 00
AG049	Cotton, not carded or combed	
AG050	Ethyl alcohol for nonbeverage purposes	
Forest pro	oducts sector:	
AG051	Logs and rough wood products	4401.10.00 - 4405.00.00
		4418.50.00 - 4418.50.00
AG052	Lumber	
AG053	Moldings, millwork, and joinery	
	· , , , ,	4414.00.00 - 4414.00.00
		4418.10.00 - 4418.30.00

HTS 8-digit subheading ranges included in industry/commodity groups and subgroups, by sector–Continued

USITC code	Industry/commodity group or subgroup title	HTS subheading range
		4418.90.20 - 4418.90.45
AG054	Wood veneer and wood panels	
		4410.11.00 - 4412.99.96
AG055	Wooden containers	
A 0050	Table and tool handles of word	4420.90.20 - 4420.90.80
AG056	Tools and tool handles of wood	4419.00.40 - 4417.00.80
AG057	Miscellaneous articles of wood	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Wildowich Today and Today	4418.40.00 - 4418.40.00
		4420.10.00 - 4420.10.00
		4421.10.00 - 4421.90.98
AG058	Cork and rattan	
		4501.10.00 - 4601.20.90
		4601.91.20 - 4601.99.00
10050	Wood pulp and wastepaper	4602.10.05 - 4602.90.00
AG059	vvood puip and wastepaper	4601.91.05 - 4601.91.05
		4601.99.05 - 4601.99.90
		4701.00.00 - 4707.90.00
AG060	Paper boxes and bags	
AG061	Industrial papers and paperboards	
		4810.31.00 - 4810.92.14
		4810.99.00 - 4811.10.10
		4811.31.20 - 4811.31.40
		4811.39.40 - 4811.40.00
		4811.51.20 - 4811.51.40
		4811.59.40 - 4811.59.40
		4811.60.40 - 4811.60.40 4811.90.10 - 4812.00.00
		4818.10.00 - 4818.90.00
		4823.20.10 - 4823.20.90
AG061A	Paperboard	4804.11.00 - 4805.93.40
	·	4808.10.00 - 4808.90.60
		4810.31.00 - 4810.92.14
		4810.99.00 - 4810.99.65
		4811.39.40 - 4811.39.40
		4811.51.20 - 4811.51.40 4811.59.40 - 4811.59.40
AG061B	Tissue and tissue products	
AGOOTE	rissue and tissue products	4818.10.00 - 4818.90.00
AG061C	Industrial paper	
		4811.10.00 - 4811.10.10
		4811.31.20 - 4811.31.40
		4811.40.00 - 4811.40.00
		4811.60.40 - 4811.60.40
		4811.90.10 - 4812.00.00
٨٥٥٥٥	Nowanrint	4823.20.10 - 4823.20.90
AG062	Newsprint Printing and writing papers	
AG063	r mining and winning papers	4802.51.10 - 4802.54.30
		TUUZ.U I. IU = HUUZ.UH.U
		4802.55.10 - 4802.55.40 4802.56.10 - 4802.56.40

HTS 8-digit subheading ranges included in industry/commodity groups and subgroups, by sector-Continued

USITC code	Industry/commodity group or subgroup title	HTS subheading range
		4802.60.10 - 4802.61.30
		4802.62.10 - 4802.62.30
		4802.69.10 - 4802.69.30
		4810.11.20 - 4810.13.20
		4810.14.11 - 4810.14.20
		4810.19.11 - 4810.22.10
		4810.29.00 - 4810.29.10
		4811.39.20 - 4811.39.20
		4811.59.20 - 4811.59.20
AG064	Certain specialty papers	
		4802.30.70 - 4802.40.00
		4802.54.40 - 4802.54.60
		4802.55.50 - 4802.55.70
		4802.56.50 - 4802.56.70
		4802.58.40 - 4802.58.60
		4802.61.40 - 4802.61.60
		4802.62.40 - 4802.62.60
		4809.10.20 - 4809.90.80
		4810.13.50 - 4810.13.70
		4810.14.50 - 4810.14.70
		4810.22.50 - 4810.22.70
		4810.29.50 - 4810.29.70
		4813.10.00 - 4814.90.00
		4816.10.00 - 4816.20.00
		4816.90.00 - 4817.30.00 4823.51.00 - 4823.59.40
AG065	Miscellaneous paper products	
AGU05	Miscellarieous paper products	4811.10.20 - 4811.29.00
		4811.41.10 - 4811.49.30
		4811.51.60 - 4811.51.60
		4811.59.60 - 4811.59.60
		4811.60.60 - 4811.60.60
		4815.00.00 - 4815.00.00
		4816.30.00 - 4816.30.00
		4820.10.20 - 4823.19.01
		4823.30.00 - 4823.40.00
		4823.60.00 - 4823.90.86
AG066	Printed matter	4901.10.00 - 4911.99.80
Chamiaal	s and related products sector:	
CH007	Major primary olefins	2711 14 00 2711 14 00
CHUU1	major primary ordinis	2901.21.00 - 2901.24.10
CHUUS	Other olefins	
CH008 CH009	Primary aromatics	
011009	i ilinary aromatics	2902.44.00 - 2902.44.00
CH010	Organic commodity chemicals	2902.44.00 - 2902.44.00
011010	Organic commodity chemicals	2902.41.00 - 2902.43.00
		2902.50.00 - 2902.90.90
		2902.30.00 - 2902.90.90
		2907.11.00 - 2907.11.00
		2917.35.00 - 2917.37.00
		2921.41.10 - 2921.41.20
		2933.71.00 - 2933.71.00
		2000.71.00 - 2000.71.00

USITC code	Industry/commodity group or subgroup title	HTS subheading range
CH011		
СПОТТ	Organic specialty chemicals	
		2903.69.70 - 2904.20.20
		2903.09.70 - 2904.20.20
		2905.22.20 - 2905.29.90
		2906.19.10 - 2906.21.00
		2906.29.30 - 2906.29.60
		2907.12.00 - 2907.21.00
		2907.22.50 - 2908.10.1
		2908.10.25 - 2908.90.5
		2909.20.00 - 2909.30.0
		2909.30.40 - 2909.30.60
		. 2909.49.10 - 2909.49.6
		2909.50.45 - 2909.60.5
		2910.90.20 - 2910.90.2
		2912.21.00 - 2912.30.1
		2912.50.10 - 2913.00.5
		2914.22.10 - 2914.22.2
		2914.29.10 - 2914.61.0
		2914.69.60 - 2914.70.9
		2915.13.10 - 2915.13.1 2915.39.30 - 2915.39.3
		2916.20.50 - 2916.39.3
		2916.31.30 - 2916.32.2
		2916.34.25 - 2916.34.5
		2916.35.25 - 2916.39.1
		2916.39.17 - 2916.39.1
		2916.39.45 - 2916.39.7
		2917.12.10 - 2917.12.5
		2917.14.10 - 2917.14.5
		2917.19.15 - 2917.34.0
		2917.39.04 - 2917.39.7
		2918.19.10 - 2918.19.1
		2918.19.20 - 2918.19.9
		2918.21.50 - 2918.21.5
		2918.22.50 - 2918.22.5
		2918.23.30 - 2918.90.0
		2918.90.43 - 2919.00.5
		2920.10.30 - 2920.10.5
		2920.90.20 - 2921.19.6 2921.30.05 - 2921.30.5
		2921.30.03 - 2921.30.3
		2921.42.65 - 2921.45.9
		2921.49.10 - 2921.49.1
		2921.49.45 - 2921.51.1
		2921.51.30 - 2921.59.8
		2922.19.20 - 2922.29.2
		2922.29.60 - 2922.39.5
		2922.43.10 - 2922.43.5
		2922.49.05 - 2922.49.
		2922.49.30 - 2922.49.3
		2922.50.07 - 2922.50.7
		2922.50.35 - 2922.50.5
		2924.21.18 - 2924.23.

HTS 8-digit subheading ranges included in industry/commodity groups and subgroups, by sector-Continued

USITC code

Industry/commodity group or subgroup title

HTS subheading range

2924.29.01 - 2924.29.05 2924.29.20 - 2924.29.36 2924.29.65 - 2924.29.95 2925.19.10 - 2925.19.90 2925.20.18 - 2925.20.18 2925.20.60 - 2925.20.90 2926.30.20 - 2926.90.19 2926.90.43 - 2927.00.18 2927.00.40 - 2927.00.50 2928.00.15 - 2928.00.25 2929.10.10 - 2929.90.50 2930.20.20 - 2930.20.70 2930.90.24 - 2930.90.29 2931.00.05 - 2931.00.15 2931.00.27 - 2932.19.50 2932.29.25 - 2932.29.50 2932.99.32 - 2932.99.90 2933.19.04 - 2933.19.18 2933.19.37 - 2933.19.43 2933.19.70 - 2933.19.90 2933.29.05 - 2933.29.10 2933.29.35 - 2933.29.43 2933.29.60 - 2933.32.50 2933.39.08 - 2933.39.20 2933.39.61 - 2933.40.17 2933.40.60 - 2933.40.70 2933.49.08 - 2933.49.17 2933.49.60 - 2933.49.70 2933.59.70 - 2933.59.95 2933.79.04 - 2933.90.13 2933.90.79 - 2933.90.89 2933.90.97 - 2933.90.97 2933.99.01 - 2933.99.05 2933.99.08 - 2933.99.13 2933.99.79 - 2933.99.89 2933.99.97 - 2934.20.30 2934.20.40 - 2934.30.18 2934.30.43 - 2934.30.50 2934.90.05 - 2934.90.06 2934.90.08 - 2934.90.08 2934.90.39 - 2934.90.44 2934.90.70 - 2934.90.90 2934.99.05 - 2934.99.06 2934.99.08 - 2934.99.08 2934.99.39 - 2934.99.44 2934.99.70 - 2935.00.05 2935.00.10 - 2935.00.15 2935.00.75 - 2935.00.95 2942.00.03 - 2942.00.03 2942.00.10 - 2942.00.50 2903.11.00 - 2903.49.90 2905.11.10 - 2905.19.60 2905.31.00 - 2905.59.90

CH012

2909.11.00 - 2909.19.60

HTS 8-digit subheading ranges included in industry/commodity groups and subgroups, by sector-Continued

USITC code	Industry/commodity group or subgroup title	HTS subheading range
		2909.41.00 - 2909.44.00
		2910.10.00 - 2910.90.10
		2910.90.50 - 2912.13.00
		2912.19.40 - 2912.19.50
		2914.11.10 - 2914.19.00
		2915.11.00 - 2915.12.00
		2915.13.50 - 2915.35.00
		2915.39.47 - 2915.60.50
		2915.90.20 - 2916.14.20
		2916.19.10 - 2916.19.50
		2917.11.00 - 2917.11.00
		2917.13.00 - 2917.13.00
		2918.11.10 - 2918.16.50
		2921.21.00 - 2921.29.00
		2922.11.00 - 2922.13.00
		2922.41.00 - 2922.41.00
		2922.42.50 - 2922.42.50
		2922.49.40 - 2922.49.80
		2924.10.10 - 2924.19.80
		2926.10.00 - 2926.20.00
		2928.00.10 - 2928.00.10
		2928.00.50 - 2928.00.50 2930.10.00 - 2930.10.00
		2930.30.30 - 2930.30.60
		2933.61.00 - 2933.69.60
		3507.10.00 - 3507.90.70
		3812.10.10 - 3812.30.90
		3814.00.10 - 3814.00.50
		3817.00.10 - 3817.20.00
		3824.10.00 - 3824.20.00
		3824.40.10 - 3824.40.10
		3824.40.21 - 3824.40.50
		3824.71.00 - 3824.79.00
		3824.90.21 - 3824.90.22
		3824.90.26 - 3824.90.28
		3824.90.45 - 3825.90.00
CH013	Miscellaneous inorganic chemicals	. 2501.00.00 - 2502.00.00
		2509.00.10 - 2509.00.20
		2511.10.10 - 2511.20.00
		2528.10.00 - 2528.90.00
		2801.20.00 - 2801.30.20
		2804.50.00 - 2804.69.50
		2804.80.00 - 2805.40.00
		2811.22.10 - 2813.90.50
		2815.30.00 - 2816.40.20
		2818.10.10 - 2820.90.00
		2822.00.00 - 2822.00.00
		2825.10.00 - 2830.10.00
		2830.20.20 - 2834.10.50
		2834.22.00 - 2834.29.05
		2834.29.20 - 2836.10.00
		2836.50.00 - 2836.60.00 2836.91.00 - 2843.90.00
		2846.10.00 - 2851.00.00
		2040.10.00 - 2651.00.00

HTS 8-digit subheading ranges included in industry/commodity groups and subgroups, by sector-Continued

USITC code	Industry/commodity group or subgroup title	HTS subheading range
		3813.00.10 - 3813.00.50
		3815.11.00 - 3816.00.00
		3818.00.00 - 3818.00.00
		3824.30.00 - 3824.30.00
		3824.40.20 - 3824.40.20
		3824.50.00 - 3824.50.00
		3824.90.11 - 3824.90.19
011044	Incomparis and de-	3824.90.31 - 3824.90.39
CH014 CH015	Inorganic acids	
CHUIS	Chlor-alkali chemicals	2815.11.00 - 2815.20.00
		2836.20.00 - 2836.40.20
CH016	Fertilizers	
011010	T GTURZOTO	2510.10.00 - 2510.20.00
		2802.00.00 - 2802.00.00
		2804.70.00 - 2804.70.00
		2814.10.00 - 2814.20.00
		2834.21.00 - 2834.21.00
		2834.29.10 - 2834.29.10
		3100.00.00 - 3105.90.00
CH017	Paints, inks, and related items, and certain components thereof	
		2817.00.00 - 2817.00.00
		2821.10.00 - 2821.20.00
		2823.00.00 - 2824.90.50 2830.20.10 - 2830.20.10
		2830.20.10 - 2830.20.10 2836.70.00 - 2836.70.00
		3206.11.00 - 3215.90.50
CH018	Synthetic organic pigments	
011010	Cynthetic organic pigments	3205.00.05 - 3205.00.50
CH019	Synthetic dyes and azoic couplers	
	-,	2921.49.32 - 2921.49.32
		2922.29.26 - 2922.29.26
		2924.29.52 - 2924.29.52
		2927.00.30 - 2927.00.30
		2935.00.20 - 2935.00.20
		3204.11.10 - 3204.16.50
		3204.19.06 - 3204.90.00
011000	Out the die Associate associate	3809.10.00 - 3809.10.00
CH020	Synthetic tanning agents	
CH021	Natural tanning and dyeing materials	3201.10.00 - 1404.10.00
		3203.00.10 - 3203.00.80
CH022	Photographic chemicals and preparations	
OTTOLL	r notograpino silonnosalo sina proparatione	2914.69.10 - 2914.69.10
		2921.51.20 - 2921.51.20
		2922.29.29 - 2922.29.29
		2927.00.25 - 2927.00.25
		2933.19.24 - 2933.19.30
		2933.90.24 - 2933.90.24
		2933.99.24 - 2933.99.24
	•	2934.90.20 - 2934.90.20
		2934.99.20 - 2934.99.20
011000	Destinide was directed and ferminalistics:	3707.90.31 - 3707.90.60
CH023	Pesticide products and formulations	2903.59.10 - 2903.59.10

HTS 8-digit subheading ranges included in industry/commodity groups and subgroups, by sector-Continued

USITC code	Industry/commodity group or subgroup title	HTS subheading range
coue	mads by commodity group or subgroup title	H13 Subileading range
	• .	2903.69.30 - 2903.69.30
		2908.10.15 - 2908.10.20
		2909.30.30 - 2909.30.30
		2916.20.10 - 2916.20.10
		2918.90.06 - 2918.90.20
		2920.10.10 - 2920.10.10 2920.90.10 - 2920.90.10
		2924.21.04 - 2924.21.16
		2924.29.41 - 2924.29.47
		2926.90.21 - 2926.90.30
		2930.20.10 - 2930.20.10
		2930.20.90 - 2930.20.90
		2930.90.10 - 2930.90.10
		2930.90.30 - 2930.90.44
		2931.00.25 - 2931.00.25
		2932.29.10 - 2932.29.10
		2932.99.04 - 2932.99.20
		2933.19.23 - 2933.19.23
		2933.39.21 - 2933.39.27
		2933.40.30 - 2933.40.30
		2933.49.30 - 2933.49.30
		2933.59.10 - 2933.59.18
		2933.90.14 - 2933.90.22
		2933.99.06 - 2933.99.06
		2933.99.14 - 2933.99.22
		2934.20.35 - 2934.20.35
		2934.90.01 - 2934.90.03
		2934.90.07 - 2934.90.07
		2934.90.09 - 2934.90.18
		2934.99.01 - 2934.99.03
		2934.99.07 - 2934.99.07
	4	2934.99.09 - 2934.99.18 2935.00.06 - 2935.00.08
	N. Committee of the Com	3808.10.10 - 3808.90.99
CH024	Adhesives and glues	3500.10.10 - 3606.90.90 3501 QO 20 - 3501 QO 20
CI 1024	Adilesives and glues	3503.00.10 - 3503.00.40
		3505.20.00 - 3506.99.00
CH025	Medicinal chemicals	1302 11 00 - 1302 11 00
0		2906.13.10 - 2906.13.50
		2909.49.05 - 2909.49.05
		2909.50.10 - 2909.50.20
		2912.19.30 - 2912.19.30
		2914.69.20 - 2914.69.20
		2916.39.15 - 2916.39.16
		2917.19.10 - 2917.19.10
		2918.17.10 - 2918.17.50
		2918.19.12 - 2918.19.1
		2918.21.10 - 2918.21.10
		2918.22.10 - 2918.22.10
		2918.23.10 - 2918.23.10
		2918.90.30 - 2918.90.30
		2921.46.00 - 2921.46.00
		2921.49.38 - 2921.49.43
		2922.14.00 - 2922.19.18

HTS 8-digit subheading ranges included in industry/commodity groups and subgroups, by sector-Continued USITC code Industry/commodity group or subgroup title HTS subheading range 2922.29.27 - 2922.29.27 2922.44.00 - 2922.44.00 2922.49.26 - 2922.49.27 2922.50.13 - 2922.50.25 2923.10.00 - 2923.10.00 2924.24.00 - 2924.24.00 2924.29.57 - 2924.29.62 2925.12.00 - 2925.12.00 2925.20.10 - 2925.20.10 2925.20.20 - 2925.20.20 2926.30.10 - 2926.30.10 2928.00.30 - 2928.00.30 2930.40.00 - 2930.40.00 2931.00.22 - 2931.00.22 2932.29.20 - 2932.29.20 2932.95.00 - 2932.95.00 2933.11.00 - 2933.11.00 2933.19.35 - 2933.19.35 2933.19.45 - 2933.19.45 2933.21.00 - 2933.21.00 2933.29.20 - 2933.29.20 2933.29.45 - 2933.29.45 2933.33.00 - 2933.33.00 2933.39.30 - 2933.39.41 2933.40.20 - 2933.40.26 2933.41.00 - 2933.41.00 2933.49.20 - 2933.49.26 2933.51.10 - 2933.55.00 2933.59.21 - 2933.59.59 2933.72.00 - 2933.72.00 2933.90.26 - 2933.90.75 2933.90.90 - 2933.90.90 2933.91.00 - 2933.91.00 2933.99.26 - 2933.99.75 2933.99.90 - 2933.99.90 2934.30.23 - 2934.30.27 2934.90.30 - 2934.90.30 2934.90.47 - 2934.90.47 2934.91.00 - 2934.91.00 2934.99.30 - 2934.99.30 2934.99.47 - 2934.99.47 2935.00.29 - 2935.00.60 2936.10.00 - 2939.99.00 2941.10.10 - 2941.90.50 2942.00.05 - 2942.00.05 3001.10.00 - 3004.90.91 3006.20.00 - 3006.30.50 3006.60.00 - 3006.80.00 3822.00.10 - 3822.00.60 CH026 2904.20.30 - 2904.20.30 2905.22.10 - 2905.22.10

> 2906.11.00 - 2906.11.00 2906.14.00 - 2906.14.00 2906.29.10 - 2906.29.20

HTS 8-digit subheading ranges included in industry/commodity groups and subgroups, by sector-Continued

USITC code	Industry/commodity group or subgroup title	HTS subheading range
		2909.30.10 - 2909.30.20
		2909.50.40 - 2909.50.40
		2912.19.10 - 2912.19.20
		2912.30.20 - 2912.49.50
		2914.23.00 - 2914.23.00
		2915.39.10 - 2915.39.20
	•	2915.39.40 - 2915.39.45 2916.31.20 - 2916.31.20
		2916.31.20 - 2916.31.20
		2916.35.15 - 2916.35.15
		2916.39.20 - 2916.39.20
		2918.23.20 - 2918.23.20
		2918.90.35 - 2918.90.35
		2922.42.10 - 2922.42.10
		2924.29.10 - 2924.29.10
		2925.11.00 - 2925.11.00
		2932.21.00 - 2932.21.00
		2932.91.00 - 2932.94.00
CL 1007	Doubleman accompation and tailateign	3301.11.00 - 3302.90.20
CH027 CH028	Perfumes, cosmetics, and toiletries	2022 20 10 2022 00 00
UHU20	Soaps, detergents, and surface-active agents	3401.11.10 - 3403.11.50
		3403.91.10 - 3403.99.00
		3804.00.10 - 3804.00.10
		3809.91.00 - 3809.93.50
		3912.31.00 - 3912.31.00
CH029	Miscellaneous chemicals and specialties	1519.11.00 - 1521.90.40
	·	2712.90.10 - 2712.90.20
		2804.10.00 - 2804.40.00
		2811.21.00 - 2811.21.00
		2914.21.10 - 2914.21.20
		2915.70.00 - 2915.90.18
		2916.15.10 - 2916.15.50
		2930.90.45 - 2930.90.90 2940.00.20 - 2940.00.60
		3005.10.10 - 3006.10.00
		3006.40.00 - 3006.50.00
		3404.10.00 - 3407.00.40
		3505.10.00 - 3505.10.00
		3801.10.10 - 3803.00.00
		3804.00.50 - 3807.00.00
	·	3810.10.00 - 3810.90.50
		3820.00.00 - 3821.00.00
		3823.11.00 - 3823.70.60
		3824.60.00 - 3824.60.00
		3824.90.25 - 3824.90.25
CH030	Explosives, propellant powders, and related items	3824.90.40 - 3824.90.40
011030	Explosives, propellant powders, and related items	3606.90.30 - 3606.90.80
CH031	Polyethylene resins in primary forms	
CH032	Polypropylene resins in primary forms	
.		3902.30.00 - 3902.30.00
CH033	Polyvinyl chloride resins in primary forms	
CH034	Styrene polymers in primary forms	

HTS 8-digit subheading rang	ges included in industr	v/commodity grou	ps and subgroups	, by sector-Continued

USITC code	Industry/commodity group or subgroup title	HTS subheading range
CH035	Saturated polyester resins	3907.60.00 - 3907.60.00 3907.99.00 - 3907.99.00
CH036	Other plastics in primary forms	3902.90.00 - 3902.90.00 3904.50.00 - 3907.50.00 3907.91.20 - 3907.91.50 3908.10.00 - 3911.90.10 3911.90.35 - 3912.20.00 3912.39.00 - 3914.00.60
CH037 CH038	Styrene-butadiene rubber in primary forms	
CH039	Pneumatic tires and tubes (new)	. 3911.90.15 - 3911.90.25 4011.10.10 - 4011.99.85 4013.10.00 - 4013.90.50
CH040 CH041	Other tires	. 3915.10.00 - 3926.10.00 3926.30.10 - 3926.90.98
CH042	Miscellaneous rubber products	3926.90.98 - 3926.90.98 4003.00.00 - 4004.00.00 4007.00.00 - 4010.39.90 4014.10.00 - 4014.90.50 4016.10.00 - 4017.00.00
CH043 CH044	Gelatin	. 3503.00.55 - 3503.00.55
Energy-rela CH001 CH002 CH003 CH004 CH005	Ated products sector: Electrical energy Nuclear materials Coal, coke, and related chemical products Crude petroleum Petroleum products Natural gas and components	2844.10.10 - 2845.90.00 2701.11.00 - 2708.20.00 2709.00.10 - 2709.00.20 2710.00.05 - 2710.99.90 2712.10.00 - 2712.20.00 2713.11.00 - 2715.00.00 3403.19.10 - 3403.19.50 3606.10.00 - 3606.10.00 3811.11.10 - 3811.90.00 3819.00.00 - 3819.00.00 2711.11.00 - 2711.13.00 2711.19.00 - 2711.29.00
Textiles, ap CH045	parel, and footwear sector: Fibers and yarns, except raw cotton and raw wool	2901.10.10 - 2901.10.50 . 5001.00.00 - 5006.00.90 5103.10.00 - 5110.00.00 5202.10.00 - 5207.90.00 5301.10.00 - 5308.90.90 5401.10.00 - 5406.20.00 5501.10.00 - 5511.30.00 5604.10.00 - 5606.00.00 7019.11.00 - 7019.19.90

HTS 8-digit subheading ranges included in industry/commodity groups and subgroups, by sector-Continued

USITC code	Industry/commodity group or subgroup title	HTS subheading range
CH046	Fabrics	5007.10.30 - 5007.90.60
		5111.11.20 - 5113.00.00
		5208.11.20 - 5212.25.60
		5309.11.00 - 5311.00.60
		5407.10.00 - 5408.34.90
		5512.11.00 - 5516.94.00
		5603.11.00 - 5603.94.90
		5801.10.00 - 5804.30.00
		5806.10.10 - 5806.39.30
		5809.00.00 - 5809.00.00
		5901.10.10 - 5903.90.30
		5905.00.10 - 5907.00.80
		5911.10.10 - 5911.20.30
		6001.10.20 - 6006.90.90
		7019.40.05 - 7019.90.10
CH046A	Broadwoven fabrics	
		5111.11.20 - 5113.00.00
		5208.11.20 - 5212.25.60
		5309.11.00 - 5311.00.60
		5407.10.00 - 5408.34.90
0110400	IZ-is f-b-i	5512.11.00 - 5516.94.00
CH046B	Knit fabrics	6001.10.20 - 6006.90.90
CH046C	Specialty fabrics	
		5806.10.10 - 5806.39.30
CHOICD	Contad and other fabrica	5809.00.00 - 5809.00.00
CH046D	Coated and other fabrics	
		5905.00.10 - 5907.00.80 5911.10.10 - 5911.20.30
CH046E	Glass fiber fabrics	7010 40 05 7010 00 10
CH046E	Other fabrics	5603 11 00 5603 04 00
CH047	Carpets and rugs	
CH048	Home furnishings	
011040	Home fullishings	6301.10.00 - 6304.99.60
		9404.90.10 - 9404.90.95
CH048A	Blankets	6301.10.00 - 6301.90.00
CH048B	Pillowcases and sheets	6302.10.00 - 6302.39.00
CH048C	Table/kitchen linens and towels	
CH048D	Curtains	
CH048E	Bedspreads and other furnishing articles	6304.11.10 - 6304.99.60
	-	0404 00 05 0404 00 05
CH048F	Pillows, cushions, and sleeping bags	9404.90.10 - 9404.90.80
CH048G	Tapestries and other wall hangings	5805.00.10 - 5805.00.40
CH049	Apparel	
	•	4015.11.00 - 4015.90.00
•		4203.10.20 - 4203.40.60
		4303.10.00 - 4303.90.00
		6101.10.00 - 6217.90.90
		6501.00.30 - 6507.00.00
CH049A	Men's and boys' suits and sports coats	
		6203.11.15 - 6203.21.90
		6203.22.30 - 6203.39.90
CH049B	Men's and boys' coats and jackets	6101.10.00 - 6101.90.90
	·	0100.21.00 - 0100.20.20
		6112.11.00 - 6112.20.10

HTS 8-digit subheading ranges included in industry/commodity groups and subgroups, by sector–Continued

USITC code	Industry/commodity group or subgroup title	HTS subheading range
		6113.00.90 - 6113.00.90
		6201.11.00 - 6201.99.90
		6203.21.30 - 6203.21.90
		6203.22.30 - 6203.29.30
		6210.20.50 - 6210.20.50
		6210.20.90 - 6210.20.90
		6210.40.50 - 6210.40.50
		6210.40.90 - 6210.40.90
		6211.20.04 - 6211.20.04
		6211.20.15 - 6211.20.28 6211.31.00 - 6211.39.90
		6211.49.10 - 6211.49.10
CH049C	Men's and boys' trousers	
0110490	Weirs and boys trousers	6103.41.10 - 6103.49.80
		6112.11.00 - 6112.20.10
		6113.00.90 - 6113.00.90
		6203.21.30 - 6203.21.90
		6203.22.30 - 6203.29.30
		6203.41.05 - 6203.49.80
		6210.40.50 - 6210.40.50
		6210.40.90 - 6210.40.90
		6211.20.08 - 6211.20.15
		6211.20.34 - 6211.20.48
		6211.32.00 - 6211.39.90
		6211.49.10 - 6211.49.10
CH049D	Women's and girls' trousers	
		6104.61.00 - 6104.69.80
		6112.11.00 - 6112.20.10
		6113.00.90 - 6113.00.90
		6204.21.00 - 6204.21.00
		6204.22.30 - 6204.29.40
		6204.61.10 - 6204.69.90
		6210.50.50 - 6210.50.50 6210.50.90 - 6210.50.90
		6211.20.08 - 6211.20.15
		6211.20.64 - 6211.31.00
		6211.41.00 - 6211.43.00
		6211.49.90 - 6211.49.90
CH049E	Shirts and blouses	
		6104.21.00 - 6104.29.20
		6105.10.00 - 6106.90.30
		6109.10.00 - 6110.10.20
		6110.20.10 - 6110.90.90
		6112.11.00 - 6112.19.80
		6114.10.00 - 6114.30.10
		6114.30.30 - 6114.90.90
		6203.21.90 - 6203.21.90
		6203.22.30 - 6203.29.30
		6204.21.00 - 6204.21.00
		6204.22.30 - 6204.29.40
		6205.10.10 - 6206.90.00
		6211.31.00 - 6211.49.90
CH049F	Sweaters	6217.90.90 - 6217.90.90 6103.21.00 - 6103.20.20
∪⊓∪ 4 9Г	Owediers	0103.21.00 - 0103.29.20

HTS 8-digit subheading ranges included in industry/commodity groups and subgroups, by sector–Continued

USITC code	Industry/commodity group or subgroup title	HTS subheading range
		6104.21.00 - 6104.29.20
		6110.10.10 - 6110.10.10
		6110.11.00 - 6110.90.90
CH049G	Women's and girls' suits, skirts, and coats	
		6104.11.00 - 6104.29.10
		6104.31.00 - 6104.39.20
		6104.51.00 - 6104.59.80
		6112.11.00 - 6112.20.10 6113.00.90 - 6114.20.00
		6114.90.10 - 6114.20.00
		6202.11.00 - 6202.99.90
		6204.11.00 - 6204.21.00
		6204.22.30 - 6204.29.20
		6204.31.10 - 6204.39.80
		6204.51.00 - 6204.59.40
		6210.30.50 - 6210.30.50
		6210.30.90 - 6210.30.90
		6210.50.50 - 6210.50.50
		6210.50.90 - 6210.50.90
		6211.20.04 - 6211.20.04 6211.20.15 - 6211.20.15
		6211.20.54 - 6211.20.58
		6211.41.00 - 6211.43.00
		6211.49.90 - 6211.49.90
CH049H	Women's and girls' dresses	6104.41.00 - 6104.49.90
		6204.41.10 - 6204.49.50
CH049I	Robes, nightwear, and underwear	
		6109.90.15 - 6109.90.15
CHOADI	Hosiery	6207.11.00 - 6208.99.80
CH049J CH049K	Body-supporting garments	6212 10 - 0115.11.00 - 0115.99.80
CH049K	Neckwear, handkerchiefs, and scarves	6117 10 10 - 6117 20
0110432	reconvear, nanancionicis, and scalves	6117.90.90 - 6117.90.90
		6213.10.10 - 6215.90.00
CH049M	Gloves, including gloves for sports	
		4015.11.00 - 4015.19.50
		4203.21.20 - 4203.29.50
		6116.10.05 - 6116.99.95
01104011		6216.00.05 - 6216.00.90
CH049N	Headwear	
CH049O	Leather apparel and accessories	4203.10.20 - 4203.10.40
CH049P	Fur apparel and other fur articles	
CH049Q	Rubber, plastic, and coated-fabric apparel	
		4015.90.00 - 4015.90.00
		6113.00.10 - 6113.00.10
		6210.20.30 - 6210.20.30
		6210.20.70 - 6210.20.70
		6210.30.30 - 6210.30.30
		6210.30.70 - 6210.30.70
		6210.40.30 - 6210.40.30
		6210.40.70 - 6210.40.70 6210.50.30 - 6210.50.30
		0210.30.30 - 0210.30.30

HTS 8-digit subheading ranges included in industry/commodity groups and subgroups, by sector-Continued

USITC code	Industry/commodity group or subgroup title	HTS subheading range
CH049R CH049S	Nonwoven apparel	
		6211.31.00 - 6211.49.90
CH050	Miscellaneous textile products	6217.10.10 - 6217.90.90 . 4304.00.00 - 4304.00.00 5601.10.10 - 5602.90.90 5607.10.00 - 5609.00.40 5806.40.00 - 5808.90.00 5810.10.00 - 5811.00.40 5904.10.00 - 5904.92.00 5908.00.00 - 5910.00.90 5911.31.00 - 5911.90.00 6305.10.00 - 6310.90.20 7019.31.00 - 7019.32.00 7019.90.50 - 7019.39.50 7019.90.50 - 7019.90.50 9404.30.40 - 9404.30.80
CH051	Footwear	
Minerals ar MM001	nd metals sector: Clays and related mineral products	2517.20.00 - 2517.20.00 2530.10.00 - 2530.10.00 2618.00.00 - 2618.00.00
MM002	Fluorspar and miscellaneous mineral substances	
MM003 MM004 MM005	Iron ores and concentrates Copper ores and concentrates Lead ores, concentrates, and residues	. 2603.00.00 - 2603.00.00
MM005A MM006	Lead ores and concentrates	. 2607.00.00 - 2607.00.00

HTS 8-digit subheading ranges included in industry/commodity groups and subgroups, by sector-Continued

USITC code	Industry/commodity group or subgroup title	HTS subheading range
		2620.11.00 - 2620.19.60
MM006A	Zinc ores and concentrates	
MM007	Certain ores, concentrates, ash, and residues	
		2604.00.00 - 2605.00.00
		2609.00.00 - 2615.90.60
		2617.10.00 - 2617.90.00
		2620.50.00 - 2621.90.00
MM007A	Molybdenum ores and concentrates	2613.10.00 - 2613.90.00
MM008	Precious metal ores and concentrates	
A800MM	Gold ores and concentrates	
MM008B	Silver ores and concentrates	
MM009	Cement, stone, and related products	
		2512.00.00 - 2512.00.00
		2514.00.00 - 2517.10.00
		2517.30.00 - 2527.00.00 2529.10.00 - 2529.10.00
		2529.10.00 - 2529.10.00
		6801.00.00 - 6803.00.50
		6806.10.00 - 6806.10.00
		6807.90.00 - 6815.99.40
MM009A	Cement	
MM010	Industrial ceramics	
WIIWIOTO	madothar obtained	6909.11.20 - 6909.90.00
		6914.10.40 - 6914.90.80
		8113.00.00 - 8113.00.00
MM011	Ceramic bricks and similar articles	
MM012	Ceramic floor and wall tiles	
MM013	Ceramic household articles	
MM014	Flat glass	7003.12.00 - 7009.92.50
MM015	Glass containers	
MM016	Household glassware	
MM017	Miscellaneous glass products	7001.00.10 - 7002.39.00
		7011.10.10 - 7012.00.00
		7014.00.10 - 7018.90.50
		7020.00.30 - 7020.00.60
MM018	Fiberglass insulation products	7019.39.10 - 7019.39.10
MM019	Natural and synthetic gemstones	
		7102.31.00 - 7104.90.50
MM020	Precious metals and non-numismatic coins	
		7118.10.00 - 7118.90.00
MM020A	Unrefined and refined gold	
MM021	Primary iron products	
1111000	Farman Nava	7203.10.00 - 7203.90.00
MM022	Ferroalloys	
MM023	Iron and steel waste and scrap	
NANAO 24	Abrasive and ferrous products	7204.10.00 - 7204.50.00
MM024	Aurasive and lenous products	
		7102.21.10 - 7102.29.00
		7102.21.10 - 7102.29.00
		7205.10.00 - 7105.90.00
MM024A	Abrasive products	
MM025	Steel mill products	7206 10 00 - 7301 10 00
MINIOZO	otoot min products	

HTS 8-digit subheading ranges included in industry/commodity groups and subgroups, by sector–Continued

USITC code	Industry/commodity group or subgroup title	HTS subheading range
		7302.10.10 - 7302.90.90
		7304.10.10 - 7306.90.50
MM025A	Ingots, blooms, billets, and slabs of carbon and alloy steels	7206.10.00 - 7207.20.00
		7224.10.00 - 7224.90.00
MM025B	Plates, sheets, and strips of carbon and alloy steels	7208.10.15 - 7212.60.00
		7225.11.00 - 7225.19.00
•		7225.30.30 - 7225.30.30
		7225.30.70 - 7225.30.70
		7225.40.30 - 7225.40.30
		7225.40.70 - 7225.40.70
		7225.50.60 - 7226.19.90
		7226.91.50 - 7226.91.80
		7226.92.50 - 7226.99.00
MM025C	Bars, rods, and light shapes of carbon and alloy steels	
		7227.20.00 - 7227.20.00
		7227.90.60 - 7227.90.60
		7228.20.10 - 7228.20.50
		7228.30.80 - 7228.40.00
		7228.50.50 - 7228.50.50
		7228.60.60 - 7228.70.30
MM025D	Angles, shapes, and sections of carbon and alloy steels	7228.80.00 - 7228.80.00
MIMO25D	Angles, snapes, and sections of carbon and alloy steels	
		7228.70.30 - 7228.70.60 7301.10.00 - 7301.10.00
MM025E	Wire of carbon and alloy steels	
MINIOZSE	Wile of Carbon and alloy steels	7229.20.00 - 7229.90.90
MM025F	Ingots, blooms, billets, and slabs of stainless steels	
MM025G	Plates, sheets, and strips of stainless steels	
MM025H	Bars, rods, and light shapes of stainless steels	
MM025I	Angles, shapes, and sections of stainless steels	
MM025J	Wire of stainless steels	. 7223.00.10 - 7223.00.90
MM025K	Rails and accessories of carbon and alloy steels	
MM025L	Pipes and tubes of carbon and alloy steels	
		7304.51.10 - 7306.30.50
		7306.50.10 - 7306.90.50
MM025M	Pipes and tubes of stainless steels	
		7306.40.10 - 7306.40.50
		7306.60.70 - 7306.60.70
MM025N	Tool steels	
		7225.20.00 - 7225.30.10
		7225.30.50 - 7225.30.50
		7225.40.10 - 7225.40.10
		7225.40.50 - 7225.40.50
		7225.50.10 - 7225.50.10
		7226.20.00 - 7226.91.25
		7226.92.10 - 7226.92.30 7227.10.00 - 7227.10.00
		7227.10.00 - 7227.10.00
		7228.10.00 - 7228.10.00
		7228.30.20 - 7228.30.60
		7228.50.10 - 7228.50.10
		7228.60.10 - 7228.60.10
		7229.10.00 - 7229.10.00
		, 220.10.00 - 1220.10.00

HTS 8-digit subheading ranges included in industry/commodity groups and subgroups, by sector-Continued

USITC code	Industry/commodity group or subgroup title	HTS subheading range
MM026	Steel pipe and tube fittings and certain cast products	
N 4 N 4 O O 7	Fabricated structurals	7307.11.00 - 7307.99.50
MM027	Fabricated structurals	7308.10.00 - 7308.20.00
		7200 40 00 7200 00 60
MM028	Metal construction components	7308 30 10 - 7308 30 50
025	medical constraints on position of the constraints	7308.90.70 - 7308.90.95
		7610.10.00 - 7610.90.00
MM029	Metallic containers	. 7309.00.00 - 7311.00.00
		7611.00.00 - 7613.00.00
MM030	Wire products of base metal	
		7317.00.10 - 7317.00.75
		7320.20.50 - 7320.90.50
		7413.00.10 - 7415.10.00 7416.00.00 - 7416.00.00
		7508.10.00 - 7508.90.50
		7614.10.10 - 7614.90.50
		7616.10.10 - 7616.10.10
		7616.91.00 - 7616.91.00
MM031	Miscellaneous products of base metal	. 7314.50.00 - 7316.00.00
		7320.10.30 - 7320.20.10
		7321.11.10 - 7323.10.00
		7325.91.00 - 7326.90.85
		7417.00.00 - 7417.00.00
		7419.10.00 - 7419.10.00 7616.99.10 - 7616.99.50
		8301.20.00 - 8301.20.00
		8301.40.30 - 8301.40.30
		8302.10.30 - 8302.10.30
		8302.20.00 - 8302.30.60
		8302.49.20 - 8302.49.80
		8303.00.00 - 8311.90.00
MM032	Industrial fasteners of base metal	
		7415.21.00 - 7415.39.00
N 4N 40 2 2	Cooking and kitchen ware	7616.10.30 - 7616.10.90
MM033	Cooking and kitchen ware	7418.11.20 - 7418.19.50
		7615.11.00 - 7615.19.90
		7907.00.10 - 7907.00.10
		8007.00.10 - 8007.00.10
		8007.00.50 - 8007.00.50
MM034	Metal and ceramic sanitary ware	
		7324.10.00 - 7324.90.00
		7418.20.10 - 7418.20.50
		7615.20.00 - 7615.20.00
MM035	Construction castings and other cast-iron articles	8007.00.10 - 8007.00.10
MM036	Copper and related articles	
141141000	Coppo. and foliated artifolio	7401.10.00 - 7412.20.00
		7419.91.00 - 7419.99.50
MM036A	Unrefined and refined copper	
MM036B	Copper alloy plate, sheet, and strip	. 7409.21.00 - 7409.90.90
MM037	Unwrought aluminum	. 2606.00.00 - 2606.00.00
		2620.40.00 - 2620.40.00

HTS 8-digit subheading ranges included in industry/commodity groups and subgroups, by sector-Continued

USITC		
code	Industry/commodity group or subgroup title	HTS subheading range
		7601.10.30 - 7602.00.00
MM037A	Primary and secondary aluminum	
MM038	Aluminum mill products	
MM038A	Aluminum bars, rods, and profiles	. 7604.10.10 - 7604.29.50
MM038B	Aluminum wire	
MM038C	Aluminum plate, sheet, and strip	
MM038D	Aluminum foil	. 7607.11.30 - 7607.20.50
MM038E	Aluminum tubes, pipes, and fittings	. 7608.10.00 - 7609.00.00
MM039	Lead and related articles	. 7801.10.00 - 7806.00.00
MM039A	Refined lead	
MM040	Zinc and related articles	
		7907.00.60 - 7907.00.60
MM040A	Unwrought zinc	. 7901.11.00 - 7901.12.50
MM041	Certain base metals and chemical elements	
		8001.10.00 - 8006.00.00
		8101.10.00 - 8112.99.01
MM041A	Titanium ingot	. 8108.10.50 - 8108.20.00
MM042	Nonpowered handtools	
1414040	Out to continue a contract contract of the description	8209.00.00 - 8209.00.00
MM043	Certain cutlery, sewing implements, and related products	
		8208.10.00 - 8208.90.60 8210.00.00 - 8210.00.00
		8211.92.20 - 8214.90.90
MM044	Table flatware and related products	
WWW044	Table liatware and related products	8215.10.00 - 8215.99.50
MM045	Certain builders' hardware	8301 10 20 - 8301 10 90
MINIO	Certain builders nardware	8301.30.00 - 8301.30.00
		8301.40.60 - 8301.70.00
		8302.10.60 - 8302.10.90
		8302.41.30 - 8302.42.60
		8302.50.00 - 8302.60.90
Machinery	sector:	0544.00.00
MM068	Wiring harnesses for motor vehicles	
MM069	Pumps for motor vehicles	
1414070	Pumps for liquids	8413.91.10 - 8413.91.10
MM070	Pumps for liquids	
		8413.40.00 - 8413.82.00 8413.91.20 - 8413.92.00
MM071	Air-conditioning equipment and parts	
MM072	Industrial thermal-processing equipment and furnaces	8416 10 00 - 8417 10 00
WIWIO7 Z	madatilal thermal processing equipment and famaces	8417.80.00 - 8417.90.00
		8419.11.00 - 8419.20.00
		8419.39.00 - 8419.60.50
		8419.89.60 - 8419.90.10
		8419.90.30 - 8419.90.80
		8419.90.85 - 8419.90.95
		8514.10.00 - 8514.20.00
		8514.20.60 - 8514.20.80
		8514.30.80 - 8514.90.00
		8514.90.80 - 8514.90.80
		8545.11.00 - 8545.11.00
MM073	Household appliances, including commercial applications	. 8418.10.00 - 8418.99.80

HTS 8-digit subheading ranges included in industry/commodity groups and subgroups, by sector-Continued

19.81.10 - 8419.81.90 19.90.80 - 8419.90.80 19.90.95 - 8419.90.95 11.12.00 - 8421.12.00 11.20 - 8421.91.40 12.11.00 - 8422.19.00 12.90.02 - 8422.90.06 150.11.00 - 8451.30.00 151.90.30 - 8451.90.90 176.21.00 - 8476.90.00
.19.90.95 - 8419.90.95 .21.12.00 - 8421.12.00 .21.91.20 - 8421.91.40 .22.11.00 - 8422.19.00 .22.90.02 - 8422.90.06 .50.11.00 - 8451.30.00 .51.90.30 - 8451.90.90 .76.21.00 - 8476.90.00
.21.12.00 - 8421.12.00 .21.91.20 - 8421.91.40 .22.11.00 - 8422.19.00 .22.90.02 - 8422.90.06 .50.11.00 - 8451.30.00 .51.90.30 - 8451.90.90 .76.21.00 - 8476.90.00
.21.91.20 - 8421.91.40 .22.11.00 - 8422.19.00 .22.90.02 - 8422.90.06 .50.11.00 - 8451.30.00 .51.90.30 - 8451.90.90 .76.21.00 - 8476.90.00
.22.11.00 - 8422.19.00 .22.90.02 - 8422.90.06 .50.11.00 - 8451.30.00 .51.90.30 - 8451.90.90 .76.21.00 - 8476.90.00
.22.90.02 - 8422.90.06 .50.11.00 - 8451.30.00 .51.90.30 - 8451.90.90 .76.21.00 - 8476.90.00
50.11.00 - 8451.30.00 51.90.30 - 8451.90.90 76.21.00 - 8476.90.00
51.90.30 - 8451.90.90 76.21.00 - 8476.90.00
76.21.00 - 8476.90.00
79.89.10 - 8479.89.70
79.90.40 - 8479.90.85
509.10.00 - 8510.90.55
514.20.40 - 8514.20.40
514.90.40 - 8514.90.40 516.10.00 - 8516.90.90
18.10.00 - 8418.40.00
18.99.40 - 8418.99.80
122.11.00 - 8422.11.00
122.90.04 - 8422.90.06
150.11.00 - 8450.20.00
150.90.60 - 8450.90.60
516.60.40 - 8516.60.40
516.90.55 - 8516.90.80
21.19.00 - 8421.19.00
121.19.90 - 8421.22.00
121.29.00 - 8421.29.00
121.39.40 - 8421.39.80
21.91.60 - 8421.99.00
22.20.00 - 8422.40.91
122.90.10 - 8422.90.91
23.10.00 - 8423.90.00
74.10.00 - 8474.90.00
119.31.00 - 8419.31.00
124.81.10 - 8424.81.90
132.10.00 - 8434.90.00
136.10.00 - 8436.99.00
701.10.00 - 8701.10.00
701.30.10 - 8701.90.50
706.00.30 - 8706.00.50
707.90.10 - 8707.90.10
708.31.10 - 8708.31.10 708.39.10 - 8708.39.10
708.40.30 - 8708.40.30 708.50.10 - 8708.50.30
708.50.10 - 8708.50.30 708.60.10 - 8708.60.30
708.70.05 - 8708.70.35
708.80.15 - 8708.80.25
708.91.10 - 8708.91.10
708.92.10 - 8708.92.10
708.93.15 - 8708.93.30
708.94.10 - 8708.94.10
708.99.03 - 8708.99.49
555

HTS 8-digit subheading ranges included in industry/commodity groups and subgroups, by sector-Continued

USITC code	Industry/commodity group or subgroup title	HTS subheading range
MM079	Industrial food-processing and related machinery	8716.90.10 - 8716.90.10
101101013	industrial lood-processing and related machinery	8421.11.00 - 8421.11.00
		8435.10.00 - 8435.90.00
		8437.10.00 - 8438.90.90
MM080	Pulp, paper, and paperboard machinery	8419.32.10 - 8419.32.50
		8419.89.10 - 8419.89.10
		8419.90.20 - 8419.90.20
		8420.10.20 - 8420.10.20
		8420.91.20 - 8420.91.20
		8420.99.20 - 8420.99.20
		8439.10.00 - 8439.99.50
		8441.10.00 - 8441.90.00
MM081	Printing and related machinery	
		8442.10.00 - 8443.40.00 8443.51.50 - 8443.51.50
		8443.59.50 - 8443.60.00
		8443.90.50 - 8443.90.90
		8472.90.80 - 8472.90.80
		8473.40.80 - 8473.40.80
		8479.89.96 - 8479.89.96
MM082	Textile machinery	
	•	8420.91.10 - 8420.91.10
		8420.99.10 - 8420.99.10
		8443.50.10 - 8443.51.10
		8443.59.10 - 8443.59.10
		8443.90.10 - 8443.90.10
		8444.00.00 - 8449.00.50
		8451.40.00 - 8451.80.00
N 4 N 4 O O O	Matal rolling mills	8451.90.90 - 8452.90.00
MM083 MM084	Metal rolling mills	
WIWO4	Metal cutting machine tools and machine tool accessories	8456.20.10 - 8456.20.10
		8456.30.10 - 8456.30.10
		8456.99.30 - 8456.99.30
		8457.10.00 - 8461.90.80
		8466.10.80 - 8466.20.10
		8466.20.80 - 8466.30.10
		8466.30.60 - 8466.30.80
		8466.93.15 - 8466.93.45
		8466.93.53 - 8466.93.75
		8466.93.90 - 8466.93.95
MM085	Metal forming machine tools	
		8462.21.80 - 8462.29.00
		8462.29.80 - 8463.90.00
		8466.94.20 - 8466.94.40 8466.94.60 - 8466.94.65
		8466.94.80 - 8466.94.85
MM086	Non-metalworking machine tools	
141141000	Ton modified indontino toolo	8456.10.80 - 8456.10.80
		8456.20.50 - 8456.20.50
		8456.30.50 - 8456.30.50
		8456.99.50 - 8456.99.50
		1.11.11.00 0.00.00.00

HTS 8-digit subheading ranges included in industry/commodity groups and subgroups, by sector-Continued

USITC code	Industry/commodity group or subgroup title	HTS subheading range
		8456.99.90 - 8456.99.90
		8464.10.00 - 8464.10.00
		8464.20.50 - 8464.20.50
		8464.90.90 - 8465.96.00
		8465.99.80 - 8465.99.80
		8466.91.10 - 8466.92.50
MM087	Semiconductor manufacturing equipment and robotics	8421.19.30 - 8421.19.30
	• • •	8424.89.30 - 8424.89.50
		8428.90.00 - 8428.90.00
		8456.10.60 - 8456.10.60
		8456.91.00 - 8456.99.10
		8456.99.70 - 8456.99.70
		8462.21.40 - 8462.21.40
		8462.29.40 - 8462.29.40
		8464.20.10 - 8464.20.10
		8464.90.10 - 8464.90.60
		8465.99.40 - 8465.99.40
		8466.10.40 - 8466.10.40
		8466.20.40 - 8466.20.40
		8466.30.45 - 8466.30.45
		8466.93.47 - 8466.93.47
		8466.93.85 - 8466.93.85
		8466.94.55 - 8466.94.55
		8466.94.75 - 8466.94.75 8477.10.70 - 8477.10.70
		8477.40.40 - 8477.40.40
		8477.59.40 - 8477.59.40 8477.90.15 - 8477.90.15
		8477.90.15 - 8477.90.15
		8477.90.55 - 8477.90.55
		8477.90.75 - 8477.90.75
		8479.50.00 - 8479.50.00
		8479.89.84 - 8479.89.87
		8479.90.94 - 8479.90.94
		8479.90.95 - 8479.90.95
	·	8480.71.40 - 8480.71.40
		8514.30.20 - 8514.30.60
		8515.90.10 - 8515.90.10
		8543.11.00 - 8543.11.00
		8543.89.10 - 8543.89.10
		8543.90.10 - 8543.90.10
		9010.41.00 - 9010.49.00
		9010.90.70 - 9010.90.70
		9030.82.00 - 9030.82.00
		9030.90.64 - 9030.90.64
	·	9030.90.84 - 9030.90.84
		9031.41.00 - 9031.41.00
		9031.49.70 - 9031.49.70
		9031.80.40 - 9031.80.40
		9031.90.54 - 9031.90.54
		9031.90.70 - 9031.90.70
MM087A	Semiconductor manufacturing machinery	
		8424.89.30 - 8424.89.50
		8456.10.60 - 8456.10.60

HTS 8-digit subheading ranges included in industry/commodity groups and subgroups, by sector–Continued

		8456.91.00 - 8456.99.10
		8456.99.70 - 8456.99.70
		8462.21.40 - 8462.21.40
		8462.29.40 - 8462.29.40
		8464.20.10 - 8464.20.10
		8464.90.10 - 8464.90.60
		8465.99.40 - 8465.99.40
		8466.10.40 - 8466.10.40
		8466.20.40 - 8466.20.40
		8466.30.45 - 8466.30.45
		8466.93.47 - 8466.93.47
		8466.93.85 - 8466.93.85
		8466.94.55 - 8466.94.55 8466.94.75 - 8466.94.75
		8477.10.70 - 8477.10.70
		8477.40.40 - 8477.40.40
		8477.59.40 - 8477.59.40
		8477.90.15 - 8477.90.15
		8477.90.35 - 8477.90.35
		8477.90.55 - 8477.90.55
		8477.90.75 - 8477.90.75
		8479.89.84 - 8479.89.87
		8480.71.40 - 8480.71.40
		8514.30.20 - 8514.30.60
		8515.90.10 - 8515.90.10
		8543.11.00 - 8543.11.00
		8543.89.10 - 8543.89.10
		8543.90.10 - 8543.90.10
		9010.41.00 - 9010.49.00
		9010.90.70 - 9010.90.70 9030.82.00 - 9030.82.00
		9030.90.64 - 9030.90.64
		9030.90.84 - 9030.90.84
		9031.41.00 - 9031.41.00
		9031.49.70 - 9031.49.70
		9031.80.40 - 9031.80.40
		9031.90.54 - 9031.90.54
		9031.90.70 - 9031.90.70
MM088	Taps, cocks, valves, and similar devices	8481.10.00 - 8481.90.90
MM089	Mechanical power transmission equipment	8483.40.10 - 8483.90.80
MM090	Boilers, turbines, and related machinery	
		8401.30.00 - 8404.90.00
		8406.10.10 - 8406.90.75
N 4 N 4 O O A	Clastic material managed and malated and instant	8410.11.00 - 8410.90.00
MM091	Electric motors, generators, and related equipment	
		8505.11.00 - 8505.90.80 8545.19.20 - 8545.20.00
		8545.90.40 - 8545.90.40
		8546.90.00 - 8546.90.00
MM092	Electrical transformers, static converters, and inductors	
	and of the square some of the first state of the square of the s	8504.40.85 - 8504.40.95
		8504.50.80 - 8504.50.80
		8504.90.65 - 8504.90.95
		8543.40.00 - 8543.40.00

HTS 8-digit subheading ranges included in industry/commodity groups and subgroups, by sector-Continued

USITC code	Industry/commodity group or subgroup title	HTS subheading range
MM093	Portable electric handtools	8467.21.00 - 8467.29.00
		8508.10.00 - 8508.90.80
MM094	Nonelectrically powered handtools and parts thereof	8467.11.10 - 8467.19.50
		8467.81.00 - 8467.99.01
MM095	Electric lamps (bulbs) and portable electric lights	
		8539.10.00 - 8539.90.00
NANAOOC	Walding and caldering antiques of	8545.90.20 - 8545.90.20
MM096	Welding and soldering equipment	8515.11.00 - 8515.80.00
		8515.90.20 - 8515.90.40
MM097	Nonautomotive insulated electrical wire and related products	8544 11 00 - 8544 20 00
IVIIVIOSI	Nonautomotive insulated electrical wire and related products	8544.41.40 - 8544.60.60
		8546.10.00 - 8546.20.00
		8547 20 00 - 8547 90 00
MM098	Miscellaneous machinery	. 8401.20.00 - 8401.20.00
	,	8405.10.00 - 8405.90.00
		8420.10.90 - 8420.10.90
		8420.91.90 - 8420.91.90
		8420.99.90 - 8420.99.90
		8424.10.00 - 8424.30.90
		8424.89.70 - 8425.49.00
		8428.10.00 - 8428.60.00
		8428.90.00 - 8428.90.00
		8431.10.00 - 8431.10.00
		8431.31.00 - 8431.39.00
		8453.10.00 - 8453.90.50
		8475.10.00 - 8475.90.90
		8478.10.00 - 8478.90.00 8479.20.00 - 8479.40.00
		8479.60.00 - 8479.82.00
		8479.89.95 - 8479.89.95
		8479.89.97 - 8479.89.98
		8479.90.94 - 8479.90.94
		8479.90.95 - 8479.90.9
		8484.10.00 - 8484.90.00
		8485.90.00 - 8485.90.00
		8543.89.20 - 8543.89.20
MM099	Molds and molding machinery	. 8454.10.00 - 8454.90.00
		8477.10.30 - 8477.10.40
		8477.10.90 - 8477.30.00
		8477.40.80 - 8477.51.00
		8477.59.80 - 8477.80.00
		8477.90.25 - 8477.90.2
		8477.90.45 - 8477.90.45
		8477.90.65 - 8477.90.65
		8477.90.85 - 8477.90.89 8480.10.00 - 8480.71.10
		8480.71.80 - 8480.79.9
		5-00.71.00 - 0 - 00.73.30
	ation equipment sector:	
ET001	Aircraft engines and gas turbines	
		8409.10.00 - 8409.10.00
		8411.11.40 - 8412.10.00

HTS 8-digit subheading ranges included in industry/commodity groups and subgroups, by sector-Continued

USITC code	Industry/commodity group or subgroup title	HTS subheading range
ET002	Internal combustion piston engines, other than for aircraft	8412.90.90 - 8412.90.90 . 8407.21.00 - 8408.90.90 8409.91.10 - 8409.99.99 8421.23.00 - 8421.23.00 8421.31.00 - 8421.31.00 8483.10.10 - 8483.10.50
ET003	Forklift trucks and similar industrial vehicles	8431.20.00 - 8431.20.00
ET004	Construction and mining equipment	8429.11.00 - 8430.69.01 8431.41.00 - 8431.49.90 8479.10.00 - 8479.10.00 8479.90.94 - 8479.90.94 8479.90.95 - 8479.90.95
ET005	Ball and rollers bearings	
ET006	Primary cells and batteries and electric storage batteries	
ET007	Ignition, starting, lighting, and other electrical equipment	
ET008 ET009	Rail locomotive and rolling stock Motor vehicles	
ET010	Certain motor-vehicle parts	8707.90.50 - 8707.90.50 8708.10.30 - 8708.29.50 8708.31.50 - 8708.31.50 8708.39.50 - 8708.40.20 8708.40.50 - 8708.40.50 8708.50.50 - 8708.50.80 8708.60.50 - 8708.60.80 8708.70.45 - 8708.70.60 8708.80.30 - 8708.80.45 8708.91.50 - 8708.91.50 8708.92.50 - 8708.92.50 8708.93.60 - 8708.93.75 8708.94.50 - 8708.94.50
ET011	Motorcycles, mopeds, and parts	
ET012	Miscellaneous vehicles and transportation-related equipment	8714.11.00 - 8714.19.00 . 8703.10.10 - 8703.21.00 8705.10.00 - 8705.90.00 8706.00.25 - 8706.00.25 8710.00.00 - 8710.00.00 8713.10.00 - 8713.90.00 8714.20.00 - 8714.20.00 8716.10.00 - 8716.40.00 8716.80.50 - 8716.80.50

HTS 8-digit subheading ranges included in industry/commodity groups and subgroups, by sector-Continued

USITC code	Industry/commodity group or subgroup title	HTS subheading range
ET013	Aircraft, spacecraft, and related equipment	8802.60.90 - 8803.30.00
ET014	Ships, tugs, pleasure boats, and similar vessels	8803.90.90 - 8805.29.00 8485.10.00 - 8485.10.00 8901.10.00 - 8908.00.00
ET015	Motors and engines, except internal combustion, aircraft, or electric	8412.21.00 - 8412.90.10 8412.90.90 - 8412.90.90
Electronic ET016	products sector: Office machines	8470.90.00 - 8470.90.00 8472.10.00 - 8472.30.00 8472.90.20 - 8472.90.20 8472.90.40 - 8472.90.60 8472.90.90 - 8473.29.00 8473.40.20 - 8473.40.20
ET017	Telephone and telegraph apparatus	8518.29.40 - 8518.29.40 8518.30.10 - 8518.30.10 8518.40.10 - 8518.40.10 8518.90.20 - 8518.90.60 8520.20.00 - 8520.20.00 8522.90.45 - 8522.90.55 8525.10.90 - 8525.20.90 8527.31.05 - 8527.31.05 8527.90.40 - 8527.90.40
ET018	Consumer electronics (except televisions)	8527.90.85 - 8527.90.95 8529.10.70 - 8529.10.70 8529.90.22 - 8529.90.22 8529.90.75 - 8529.90.76 8529.90.99 - 8529.90.99 8531.80.40 - 8531.80.70 8531.90.10 - 8531.90.10 8531.90.70 - 8531.90.70 8543.89.60 - 8543.89.60 8802.60.30 - 8802.60.30 8803.90.30 - 8803.90.30 8518.10.80 - 8518.22.00
ET019	Blank media	8518.30.20 - 8518.30.20 8518.40.20 - 8518.50.00 8518.90.80 - 8519.99.00 8520.32.00 - 8522.90.35 8522.90.65 - 8522.90.75 8525.40.40 - 8525.40.80 8527.12.00 - 8527.29.80 8527.31.40 - 8527.39.00 8527.90.50 - 8527.90.50 8523.11.00 - 8523.90.00

HTS 8-digit subheading ranges included in industry/commodity groups and subgroups, by sector–Continued

USITC code	Industry/commodity group or subgroup title	HTS subheading range
ET020 ET021	Prerecorded media	. 8526.10.00 - 8526.92.00 8529.10.40 - 8529.10.40 8529.90.16 - 8529.90.19 8529.90.26 - 8529.90.26 8529.90.73 - 8529.90.73 8529.90.95 - 8529.90.97
ET022	Television receivers and video monitors	8529.90.01 - 8529.90.06 8529.90.29 - 8529.90.53
ET023	Radio and television broadcasting equipment	8525.30.30 - 8525.30.90 8529.10.20 - 8529.10.20 8529.10.90 - 8529.10.90 8529.90.09 - 8529.90.13 8529.90.63 - 8529.90.69
ET024	Electric sound and visual signaling apparatus	8529.90.78 - 8529.90.86 . 8530.10.00 - 8531.80.00 8531.80.90 - 8531.80.90 8531.90.15 - 8531.90.40 8531.90.75 - 8531.90.90
ET025	Electrical capacitors and resistors	
ET026 ET027 ET028 ET029 ET030 ET031	Printed circuits	. 8534.00.00 - 8534.00.00 . 8535.10.00 - 8535.90.80 . 8536.10.00 - 8536.90.80 . 8537.10.30 - 8537.20.00 . 8538.10.00 - 8538.90.80
ET032	Electron tubes other than CRTs	
ET033	Semiconductors and integrated circuits	
ET034	Miscellaneous electrical equipment	
ET035	Computers, peripherals, and parts	

HTS 8-digit subheading ranges included in industry/commodity groups and subgroups, by sector-Continued

code	Industry/commodity group or subgroup title	HTS subheading range
ET036 ET037	Photographic film and paper	8544.70.00 - 8544.70.00
ET038	Optical goods, including ophthalmic goods	
ET039	Photographic cameras and equipment	9011.10.40 - 9013.90.90 8472.90.70 - 8472.90.70 8473.40.60 - 8473.40.60
		9006.10.00 - 9010.10.00 9010.50.10 - 9010.90.40
		9010.90.80 - 9010.90.90 9027.40.00 - 9027.40.00
ET040 ET041	Medical goods	9027.90.54 - 9027.90.54 9018.11.30 - 9022.90.95 9101.11.40 - 9114.90.50
ET042 ET043	Drawing, drafting, and calculating instruments Measuring, testing, and controlling instruments	9017.10.00 - 9017.90.36
		9023.00.00 - 9027.30.80 9027.50.40 - 9027.90.45
		9027.90.54 - 9030.40.00 9030.83.00 - 9030.90.45 9030.90.65 - 9030.90.68
		9030.90.85 - 9031.30.00 9031.49.40 - 9031.49.40
		9031.49.80 - 9031.49.90 9031.80.80 - 9031.90.45
		9031.90.55 - 9031.90.60 9031.90.90 - 9033.00.00
	ous manufactures sector: Luggage, handbags, and flat goods	4000 44 00 4000 00 00
MM046		9605.00.00 - 9605.00.00
MM046A	Luggage	4202 91 00 - 4202 99 90
MM046B MM046C	Handbags	4202.31.30 - 4202.39.90
MM047	Certain other leather goods	4204.00.30 - 4205.00.80
MM048 MM049	Umbrellas, whips, riding crops, and canes	6601.10.00 - 6603.90.80
MM050	Silverware and related articles of precious metal	
MM051	Precious jewelry and related articles	
MM052	Costume jewelry and related articles	7115.90.30 - 7116.20.50 7117.11.00 - 7117.90.90
	Costume jewelry and related articles	7115.90.30 - 7116.20.50 7117.11.00 - 7117.90.90 8712.00.15 - 8712.00.50 8714.91.20 - 8714.99.80
MM052 MM053	Costume jewelry and related articles	7115.90.30 - 7116.20.50 7117.11.00 - 7117.90.90 8712.00.15 - 8712.00.50 8714.91.20 - 8714.99.80
MM052 MM053	Costume jewelry and related articles	7115.90.30 - 7116.20.50 7117.11.00 - 7117.90.90 8712.00.15 - 8712.00.50 8714.91.20 - 8714.99.80 9401.30.40 - 9401.80.60 9401.90.15 - 9403.40.40 9403.40.90 - 9403.50.40 9403.50.90 - 9403.80.60 9403.90.25 - 9404.29.90

HTS 8-digit subheading ranges included in industry/commodity groups and subgroups, by sector-Continued

USITC code	Industry/commodity group or subgroup title	HTS subheading range
MM058 MM059	Dolls	9501.00.20 - 9501.00.60 9503.10.00 - 9503.10.00 9503.30.00 - 9503.90.00
MM060 MM061 MM062	Games Sporting goods Smokers' articles	9506.11.20 - 9507.90.80
MM063	Brooms, brushes, and hair grooming articles	
MM063A MM063B MM064	Brooms and brushes	9615.11.10 - 9615.90.60 4206.10.30 - 4206.90.00 6701.00.30 - 6704.90.00 8715.00.00 - 8715.00.00 9503.20.00 - 9503.20.00 9505.10.10 - 9505.10.50 9508.00.00 - 9602.00.50 9604.00.00 - 9612.20.00
MM065 MM066 MM066A	Apparel fasteners Arms and ammunition Small arms and ammunition	9301.00.30 - 9307.00.00
MM067	Seats for motor vehicles and aircraft	9401.10.40 - 9401.20.00 9401.90.10 - 9401.90.10 9403.40.60 - 9403.40.60 9403.50.60 - 9403.50.60 9403.90.10 - 9403.90.10

Note.—A duplicate listing for an individual 8-digit HTS subheading indicates that the 10-digit categories within that 8-digit subheading are in more than one industry/commodity group or subgroup.

The above table shows the range of HTS 8-digit items assigned to industry/commodity groups and subgroups, and should be considered a guideline only because actual industry/commodity group and subgroup assignments are made on a HTS 10-digit basis. Therefore, any data generated on the basis of the information contained in this table may not accurately represent trade for these groups. For accurate trade data based on information contained here, see tables in the commodity chapters or the Profile of U.S. Industry and Market, by Industry/Commodity Groups and Subgroups, 1999-2003. In addition, this information represents only a snapshot of the HTS subheading composition of these groups and subgroups at a point in time. The USITC's industry/commodity groupings and subgroupings are subject to frequent revision as dictated by modifications to the HTS and other factors.