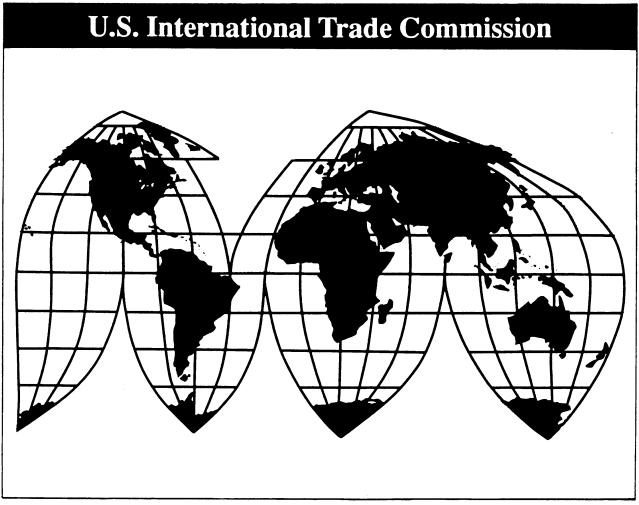
U.S. Trade Shifts in Selected Industries: Merchandise

1994 Annual Report Investigation No. 332-345

Publication 2924

September 1995



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U.S. International Trade Commission

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PREFACE

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 (USITC) instituted investigation No. 332-345, *Annual Reports on U.S. Trade Shifts in Selected Industries*, for the purpose of preparing annual trade shifts reports for a period of 3 years (covering trade in 1993-95). The current 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. trading partners, in the services sector and in all 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 will publish two reports annually, one entitled *U.S. Trade Shifts in Selected Industries: Merchandise* (September 1995), and the second entitled *U.S. Trade Shifts in Selected Industries: Services* (April 1996). A separate report covering services trade was instituted in order to provide more comprehensive coverage of U.S. trade performance and overall economic competitiveness.

A significant amount of the work contained in this recurring report is basic research required to maintain a proficient level of trade expertise which the Commission has found essential in its statutory investigations and in apprising its varied customer base of global industry trends, regional developments, and competitive issues. The USITC is uniquely qualified to maintain comparable import, export, trade balance, and industry profile data (domestic consumption, production, employment, and import penetration) in recent 5-year periods for the nearly 300 major industry/commodity groups examined in this report. This capability is not replicated in the Government and reflects trade monitoring activity that is essential to maintain the expertise that enables the USITC to respond quickly to diverse inquiries from the public, the Congress, and other agencies.

The current report summarizes and provides brief analyses of the major trade shifts in 1994 occurring in industries/commodities, and with leading U.S. trading partners. This report also includes summary trade information and basic statistical profiles of industry/commodity groups.

The information and analysis in this report are for the purpose of this report only. Nothing in this report should be construed to indicate how the Commission would find in an investigation conducted under other statutory authority.

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The trade analysts of the U.S. International Trade Commission (USITC) Office of Industries and other offices routinely monitor trade developments in the services sector and in all agricultural and manufactured industries/ commodities as part of the USITC mission. Trade monitoring at the major sector- and industry/commodity-group levels is a facet of the research and analysis undertaken by the Office of Industries in conjunction with its responsibilities to provide advice and technical information on industry and trade issues. Trade monitoring enables the USITC to better anticipate and address the issues of concern in its various roles under U.S. trade statutes.¹ This report, prepared annually, briefly analyzes significant merchandise trade shifts at the major industry/commodity sector level, on a bilateral basis, and at the industry/commodity group level in more detail. This series is part of USITC's recurring reports that facilitate the development of core competencies and expertise, and enables the Commission to provide objective and in-depth analysis to the public, the Congress, and other agencies related to emerging and complex trade and economic issues.

This report does not analyze U.S. trade in services, which, as noted in the *Preface*, is the subject of a forthcoming USITC report. Thus, throughout this report, references to trade balances represent only U.S. balances in merchandise trade. However, to put the U.S. merchandise trade deficit in perspective, during 1994, the United States recorded a \$59.5-billion trade surplus in private services, which, when added to the \$176.0-billion merchandise trade deficit to \$116.5 billion for the year.

CHAPTER 1 Introduction

Chapter 2 of the report summarizes U.S. merchandise trade and exchange rate shifts that occurred in 1994, as compared to those of 1993. Coverage of the merchandise sectors include data showing import, export, and trade balance shifts by major industry/commodity sectors and shifts in trade with major U.S. trading partners. In addition, a tabular summary details the most significant industry/commodity group shifts that occurred within each of the major industrial and agricultural sectors.²

Chapters 3 through 12 take up specific major industrial and agricultural sectors, in a general overview and in industry/commodity group specific analyses. This report also discusses significant bilateral shifts within each major sector in merchandise trade. A statistical summary table of industry/commodity groups follows each major sector analysis.

The report includes three appendixes. Appendix A lists the specific industrial and agricultural commodity groups that the Commission monitors. Appendix B provides official and estimated data for 1990-94 on domestic consumption, production, employment, trade, and import penetration for the nearly 300 industry/commodity groups covered in USITC international trade analysts this report. have estimated certain of these data, based on primary and secondary government and industry sources. The estimated data are subject to change either from future secondary sources or from the detailed surveys the USITC often conducts in the course of statutory investigations or other work. Appendix C lists the political entities included in the country groupings shown in many tables of this report.

¹ These roles include determining whether U.S. industries are materially injured 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 See chapter 3 of last year's annual report for long-range assessments of common factors affecting trends in selected industry/commodity sectors. U.S. International Trade Commission, *U.S. Trade Shifts in Selected Industries: 1993 Annual Report* (Investigation No. 332-345), USITC publication 2805, Sept. 1994.

CHAPTER 2 U.S. Merchandise Trade Performance in 1994

The deficit in the U.S. merchandise trade balance climbed by \$40.4 billion in 1994, to \$176.0 billion, well above the \$135.6 billion deficit recorded in 1993 (table 2-1 and figure 2-1). The deficit grew despite a significant expansion in U.S. exports, which rose from \$439.3 billion in 1993, to \$481.9 billion in 1994, or by nearly 10 percent. Nevertheless, U.S. imports increased by more than 14 percent to \$657.9 billion in 1994, from \$574.9 billion in 1993. The absolute increase of \$83.0 billion in U.S. imports was nearly twice that of U.S. exports, which increased by \$42.6 billion. This shift caused the ratio of exports to total trade to decline from 43 to 42 percent during 1993-94.

Factors affecting trade performance in 1994 included increased consumer spending, which spurred both U.S. production and imports; changes in interest rates; investment and financial market developments; diverse economic trends in global economies; and structural impediments in key markets. The significant expansion in the U.S. trade deficit during 1994 was led by substantial increases in imports of motor vehicles and parts, computers and computer peripheral equipment, semiconductors, steel mill products, and unwrought aluminum. Import growth in these sectors was compounded by large reductions in U.S. exports of precious metals, aircraft, cereals, and petroleum products.

U.S. imports rose in every major industry/commodity sector during 1994 (figure 2-2), with nearly three-quarters of the annual increase being accounted for by electronic products (up by \$25.0 billion); transportation equipment (up by \$15.8 billion); minerals and metals (up by \$10.5 billion), and machinery (up by \$9.2 billion). Conversely, two industry/commodity sectors, energy-related products and minerals and metals, recorded export declines in 1994. Agricultural products and chemicals and related products were the only sectors in which there was improvement in the U.S. balance of trade in 1994 (\$2.0 billion and \$1.3 billion, respectively) and yearend surpluses (\$20.3 billion and \$13.5 billion, respectively).

Within the electronic products sector, the principal development driving increased import demand for these

products was a significant rise in consumer spending on personal computers and peripheral equipment, which, in turn, stimulated increased imports of semiconductor devices that are incorporated in this equipment. U.S. imports of computers, computer peripheral equipment, and parts rose by \$8.3 billion (22 percent) to \$46.2 billion in 1994, while imports of semiconductor devices climbed by \$6.6 billion (33 percent) to \$26.0 billion. Similarly, in the transportation equipment sector, strong consumer demand for motor vehicles resulted in a \$10.6 billion rise (15 percent) in imports of this equipment to \$79.2 billion and an associated increase in imports of motor-vehicle parts of \$1.4 billion (10 percent) to \$16.1 billion. With respect to the minerals and metals sector, increased economic activity in the U.S. automotive, construction, and appliance industries strengthened demand for imported steel mill products, which rose by \$3.8 billion (43 percent) to \$12.4 billion, and for unwrought aluminum, which swelled by \$1.4 billion (52 percent) to \$4.2 billion. The major factors affecting import demand for machinery sector products, imports of which rose by \$9.2 billion (21 percent) to \$52.4 billion, were the sustained growth of the U.S. automotive market and lower interest rates, which boosted capital equipment purchases and U.S. construction activity. As a result, significant increases were recorded in 1994 for imports of injection molds and molding equipment for rubber and plastics, ignition wiring harnesses, automotive air-conditioning equipment, and metal-cutting machine tools and parts.

A number of important declines in U.S. exports of domestic merchandise dampened an otherwise favorable year for domestic shippers and acted to exacerbate the trade balance impact of rising U.S. imports. The most significant of these was a \$3.4 billion (7-percent) drop in U.S. exports of precious metals (primarily gold bullion) to \$28.6 billion in 1994, which was precipitated by declines in speculative transfers of gold stocks from the New York Federal Reserve Bank to accounts in European central banks. Other major declines included a \$2.1 billion (7-percent) decrease in exports of civil and military aircraft to \$28.6 billion, and \$640 million (6 and 10 percent) reductions in both cereals and petroleum products exports, respectively, to \$10.1 billion and \$6.0 billion in 1994.

Table 2-1

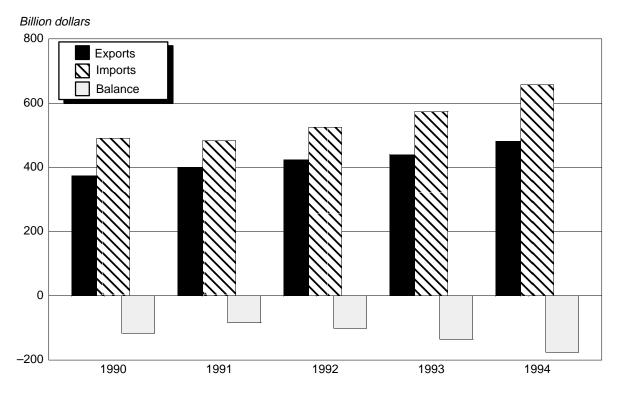
U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by major industry/commodity sectors, 1993 and 1994¹

			Change, 19	94 from 1993
Item	1993	1994	Amount	Percent
		Million dollars		
U.S. exports of domestic merchandise:				
Agricultural products	50,824	55,350	4,526	8.9
Forest products	20,739	22,386	1,647	7.9
Chemicals and related products	49,833	57,188	7,355	14.8
Energy-related products	12,212	11,470	-742	-6.1
Textiles and apparel	11,686	13,033	1,347	11.5
Footwear	604	646	42	7.0
Minerals and metals	32,887	32,487	-400	-1.2
	44,417	49,850	5,433	12.2
Transportation equipment	98,505	104,249	5,745	5.8
Electronic products	94,056	109,177	15,120	16.1
Miscellaneous manufactures	9,573	10,769	1,196	12.5
Special provisions	13,960	15,283	1,323	9.5
Total	439,295	481,887	42,592	9.7
J.S. imports for consumption:				
Agricultural products	32,534	35,049	2,515	7.7
Forest products	21,394	24,037	2,643	12.4
Chemicals and related products	37,596	43,683	6,087	16.2
Energy-related products	56,098	57,344	1,246	2.2
Textiles and apparel	42,750	46,574	3,824	8.9
Footwear	11,105	11,714	609	5.5
Minerals and metals	46,246	56,778	10,532	22.8
Machinery	43,242	52,442	9,200	21.3
Transportation equipment	112,664	128,444	15,780	14.0
Electronic products	120,682	145,656	24,974	20.7
Miscellaneous manufactures	32,643	35,346	2,703	8.3
Special provisions	17,909	20,816	2,907	16.2
Total	574,863	657,885	83,020	14.4
J.S. merchandise trade balance:				
Agricultural products	18,290	20,301	2,011	$\binom{2}{2}$
Forest products	-655	-1,651	-996	(²)
Chemicals and related products	12,237	13,505	1,268	(2)
Energy-related products	-43,886	-45,874	-1,988	(2)
Textiles and apparel	-31,064	-33,541	-2,477	(<u>2</u>)
Footwear	-10,501	-11,068	-567	(<u></u> 2)
Minerals and metals	-13,359	-24,291	-10,932	(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)
Machinery	1,175	-2,592	-3,767	$\binom{2}{2}$
Transportation equipment	-14,159	-24,195	-10,036	(<u></u> 2)
Electronic products	-26,626	-36,479	-9,853	(<u></u> 2)
Miscellaneous manufactures	-23,070	-24,577	-1,507	(<u></u> 2)
Special provisions	-3,949	-5,533	-1,584	. ,
Total	-135,568	-175,998	-40,428	(²)

 $^{\rm 1}$ Import values are based on Customs value; export values are based on f.a.s. value, U.S. port of export. $^{\rm 2}$ Not applicable.

Note.—Because of rounding, figures may not add to the totals shown. Source: Compiled from official statistics of the U.S. Department of Commerce.

Figure 2-1 U.S. merchandise trade with the world: Exports, imports, and trade balance, 1990-94



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

Structural impediments to the entry of U.S. goods to markets in Japan and China continued to affect the U.S. trade deficit with those partners in 1994. The bilateral U.S. trade deficits with Japan of \$66.5 billion and China of \$29.4 billion accounted for over half of the total U.S. trade deficit in 1994 (table 2-2 and figure 2-3). Although the U.S. trade deficit with Canada (\$25.1 billion) nearly matched the deficit with China, U.S. exports to Canada in 1994 were 81 percent as large as U.S. imports from Canada. The comparable ratios for Japan and China were only 43 percent and 24 percent, respectively.¹

While most economies in Europe were in a state of mild recovery in 1994, the U.S. economy was even stronger, leading the growth in imports from the European Union (EU) to exceed the rise in U.S. exports to the EU. Despite the resulting \$7.3 billion increase in the U.S. trade deficit with the EU in 1994, U.S. exports to the EU were still 88 percent as large as U.S. imports.

The United States recorded falling trade balances with each of its top 10 trading partners in 1994, except for the Republic of Korea (Korea), where the trade deficit fell from \$2.6 billion to \$2.0 billion, or by 22 percent (table 2-2). A contributing factor was Korea's altered fiscal

policies designed to control inflation. These tight fiscal policies had previously inhibited growth in the construction and manufacturing sectors. In turn, the reduced growth in GDP constricted U.S. exports. At yearend, U.S. trade surpluses among the top 10 trading partners were registered only with Mexico (\$531 million) and the United Kingdom (\$226 million) and with the major trading blocs of Latin America (\$2.3 billion) and Caribbean Basin Economic Recovery Act (CBERA) countries (\$1.6 billion).

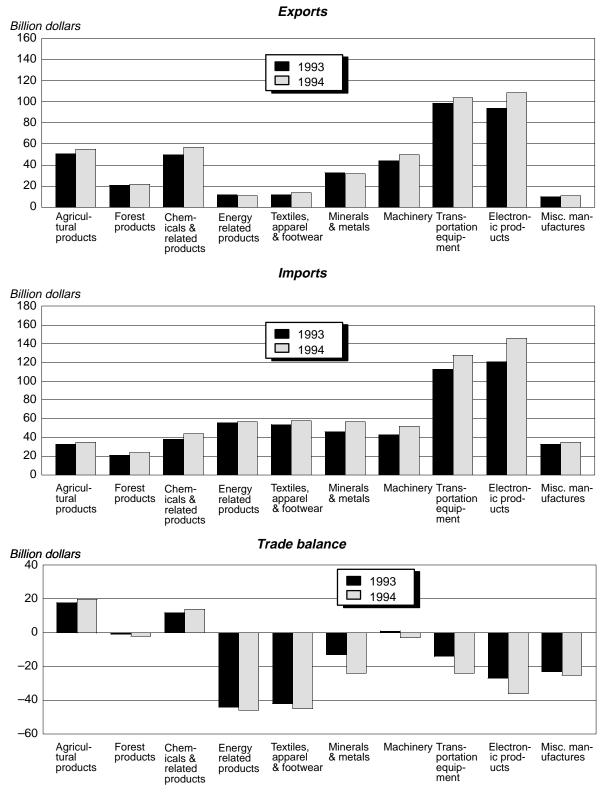
In the first year since implementation of the North American Free-Trade Agreement (NAFTA), Canada and Mexico accounted for one-third (\$28.2 billion) of the total rise in U.S. imports and one-half (\$20.6 billion) of the growth in U.S. exports.² Total U.S. trade with Canada climbed by 15 percent, while trade with Mexico increased by 24 percent in 1994. Although imports from Japan expanded by \$11.4 billion in 1994, the rate of growth (from a very large base) was only 11 percent, compared with the rise in imports from all sources that year of 14 percent. Exhibiting much faster growth rates were imports from Malaysia (32 percent), China (23 percent), Thailand (20 percent), and Singapore (20

¹ See the writeups below on Japan and China for more details on structural impediments to imports in those markets.

² For a detailed treatment of the NAFTA first year of operation, see USITC, *Year in Trade 1994*, USITC publication 2894, July 1995, chapter 2.

Figure 2-2

U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by major commodity sectors, 1993 and 1994



Source: Compiled by the staff of the U.S. International Trade Commission (USITC) from official statistics of the U.S. Department of Commerce.

Table 2-2

All merchandise sectors: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1993 and 1994¹

			Change, 19	94 from 1993
Item	1993	1994	Amount	Percent
		– Million dollars		
U.S. exports of domestic merchandise:				
Canada	91,866	103,643	11,777	12.8
Japan	46,045	51,061	5,016	10.9
Mexico	40,265	49,136	8,871	22.0
Germany	17,947	18,181	234	1.3
	24,497	24,755	258	1.1
China	8,619	9,178	559	6.5
Taiwan	15,585	16,240	655	4.2
Korea France	14,359 12,463	17,499 12,731	3,141 269	21.9 2.2
Singapore	10,655	11,714	1,059	9.9
All other	156,994	167,749	10,756	6.9
		107,740	10,700	
Total	439,295	481,887	42,592	9.7
EU-12	91,245	96,538	5,293	5.8
OPEC	20,046	18,575	-1,472	-7.3
	75,307	88,654	13,348	17.7
CBERA	11,942	12,822	880	7.4
	125,665	140,318	14,652	11.7
ASEAN	26,574 1,999	29,856	3,282	12.3
Eastern Europe	1,999	1,660	-339	-16.9
U.S. imports for consumption:				
Canada	110.482	128,753	18.271	16.5
Japan	106,162	117,532	11,369	10.7
Mexico	38,668	48,605	9,938	25.7
Germany	28,103	31,566	3,463	12.3
United Kingdom	21,303	24,529	3,226	15.1
China	31,425	38,572	7,147	22.7
Taiwan	24,981	26,586	1,605	6.4
Korea	16,986	19,547	2,561	15.1
France	14,953	16,299	1,345	9.0
Singapore	12,744	15,287	2,543	20.0
All other	169,054	190,609	21,555	12.8
Total	574,863	657,885	83,022	14.4
EU-12	96,517	109,134	12,617	13.1
OPEC	32,756	33,281	525	1.6
Latin America	72,661	86,323	13,663	18.8
CBERA	10,094	11,200	1,106	11.0
Asian Pacific Rim	227,675	258,744	31,068	13.6
ASEAN	42,002	51,614	9,612	22.9
Eastern Europe	1,542	1,983	441	28.6
U.S. merchandise trade balance:				
Canada	-18,617	-25,110	-6,494	(2)
Japan	-60.117	-66,470	-6,353	22
Mexico	1,598	531	-1,067	(2)
Germany	-10,156	-13,385	-3,229	(2)
United Kingdom	3,194	226	-2,968	(²)
China	-22,806	-29,395	-6,589	(²)
Taiwan	-9,395	-10,345	-950	$\binom{2}{2}$
Korea	-2,628	-2,048	580	$\binom{2}{2}$
France	-2,491	-3,567	-1,076	$\binom{2}{2}$
Singapore	-2,089	-3,573	-1,484	(2) (2)
All other	-12,060	-22,860	-10,800	(2)
Total	-135,568	-175,997	-40,429	(2)
EU-12	-5,272	-12,596	-7,324	(2)
OPEC	-12,709	-14,706	-1,997	(²)
Latin America	2,646	2,331	-315	(²)
CBERA	1,848	1,622	-226	(²)
Asian Pacific Rim		-118,426	-16,416	(2) (2) (2) (2) (2) (2) (2) (2)
ASEAN	-15,428	-21,758	-6,330	⁽²⁾
AGEAN	457	-323	-780	\ <u>_</u> /

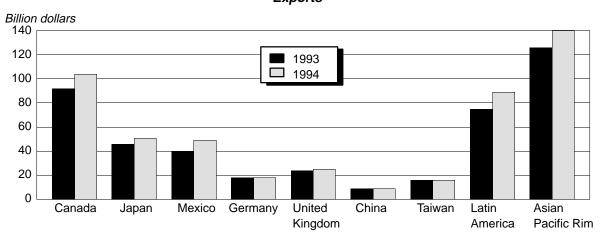
¹ Import values are based on Customs value; export values are based on f.a.s. value, U.S. port of export.

² Not meaningful for purposes of comparison.

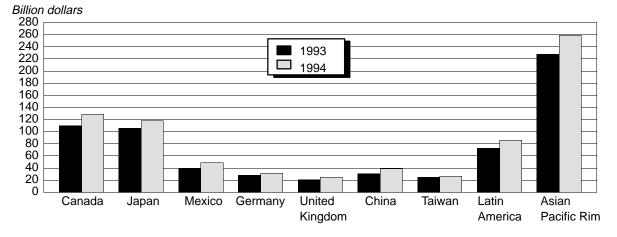
Note.—Because of rounding, figures may not add to the totals shown. The countries shown are those with the largest total U.S. trade (U.S. imports plus exports) in these products in 1994.

Figure 2-3

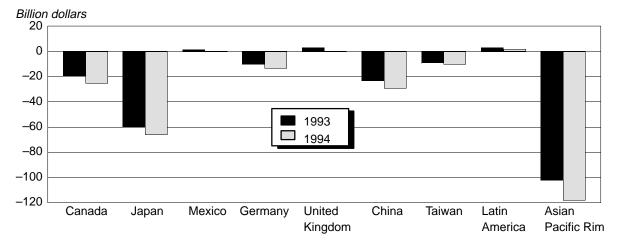
U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by major trading partners, 1993 and 1994



Imports







Source: Compiled by the staff of the U.S. International Trade Commission (USITC) from official statistics of the U.S. Department of Commerce.

Exports

percent). The combined \$14.8 billion increase from these four Asian suppliers accounted for 18 percent of the total rise in U.S. imports in 1994. The growth in imports from these countries was concentrated in labor-intensive electronic products as high relative labor costs in Japan, Korea, Taiwan, and Hong Kong encouraged new investment to seek nearby locations with lower production costs.

In absolute terms, Japan was the fastest growing market for U.S. exports outside of North America in 1994; as U.S. exports expanded by \$5.0 billion. In percentage terms, the 10.9-percent increase in exports to Japan was fractionally higher than the 9.7-percent rise to all markets. Due to economic reforms in Brazil that liberalized foreign access to that domestic market, U.S. exports to Brazil increased by one-third (\$1.9 billion) in 1994. Also, concurrent with economic recovery in Europe, U.S. exports to Belgium, a major distribution point for the rest of Europe, rose by 24 percent (\$1.9 billion). Finally, U.S. exports to Korea rose by 22 percent (\$3.1 billion), following the relaxing of fiscal policies and investment regulations in that country that had previously been implemented to curb inflation.

Furthermore, U.S. exports to Japan and China have been limited by the small degree to which U.S. firms have developed relationships with manufacturers in these two countries. This contrasts sharply with the extensive relationships that U.S. producers have developed with manufacturers in Canada and Mexico, especially in the fields of automobiles, auto parts, computers and other office equipment, and electronic components and assemblies. Consequently, intra-industry trade is much more prevalent between the United States and its NAFTA partners within these categories than it is between the United States and its Asian Pacific Rim partners. A large portion of the components used by Canadian and Mexican producers in these sectors (often subsidiaries of U.S. companies) comes from the United States and is reflected in expanding two-way trade between the United States and its NAFTA partners. Comparable industries in Japan and China tend to use parts made domestically or elsewhere in Asia.³

The significant shifts in the merchandise trade balance position of the United States with its major trading partners are noted in table 2-3, and discussed at greater length later in this chapter. When viewed in the context of the gross domestic product (GDP) of the United States (table 2-3), the total U.S. merchandise trade deficit was equal to 2.6 percent of the nominal U.S. GDP in 1994, and the bilateral deficit with Japan represented 1.0 percent of nominal U.S. GDP in 1994. Figure 2-4 indicates the leading U.S. exports to major markets in 1994, and figure 2-5 shows the leading U.S. imports from major sources in 1994.

Exchange Rate Shifts

Theoretically, the "market" or "nominal" exchange rate between two freely convertible currencies is determined by the supply of and demand for each currency in the market, which reflects the supply of and demand for goods, services, and assets.⁴ The "real" exchange rate is derived from the nominal rate with an adjustment for inflation.

Movements in exchange rates may, in turn, affect trade between countries through their effects on prices. In general, depreciation of the dollar may reduce the price foreigners pay for U.S. exports, thereby increasing the quantity of exports demanded, and increase the price of imports for U.S. consumers, thereby reducing the quantity of imports demanded. This change in the relative price of exports and imports may lead to changes in the trade balance after a time lag to allow for price and market adjustments.

Since the early 1980s, the United States has had sizable deficits in its overall current account and merchandise trade balances. These sustained deficits have been offset by net exports of financial assets because the rest of the world has been willing to purchase financial assets from the United States. The willingness of foreigners to purchase and hold U.S. financial assets has supported the dollar at a higher level than it would have been without these capital flows. Although interest rates in the United States rose moderately, the interest rates in some major developed countries were still higher than those of the United States in 1994. Relatively lower U.S. financial assets and, to some extent, weakened demand for the dollar.

In the view of Federal Reserve Board Chairman Alan Greenspan, the U.S. Federal budget deficits experienced by the U.S. economy have been another factor adversely effecting the foreign exchange value of the dollar.⁵ The

³ For example, U.S.-made components account for about half of the total value of motor vehicles and parts imported from Mexico and for one-quarter of such imports from Canada. By contrast, U.S. parts account for only 1 percent of the value of motor vehicles imported from Japan, Korea, and Germany.

⁴ The terms market rate and nominal rate are used interchangeably in this section. The term market rate refers only to the spot market rate.

⁵ Alan Greenspan, Chairman of the Board of Governors of the Federal Reserve System, statement before the Committee on the Budget, U.S. House of Representatives, Mar. 8, 1995, *Federal Reserve Bulletin*, vol. 81, No. 5 (May 1995), pp. 422-424, and Keith Bradsher, "Greenspan Says Weak Dollar Is Caused by Federal Deficits: Welcomes New Efforts to Balance Budget," *New York Times*, May 17, 1995, p. D2. Using basic national income accounting, in "Japan's Secret Weapon Is the Piggy Bank," *New York Times*, May 21, 1995, section 4, p. 1, Nicholas D. Kristof contended that any country that invests more than it saves will automatically have a trade deficit. This deficit occurs because the difference must be made up with imported financial assets, and vice versa, as in the case of Japan. Elimination of the

Table 2-3 U.S. bilateral merchandise trade balances with major partner countries, in dollars and as a ratio to U.S. gross domestic product (GDP), 1994

Country	GDP ¹	U.S. exports	U.S. imports	U.S. merchandise trade balance	Ratio of the merchandise trade balance to U.S. GDP
	Billion		— Million dollars		
	dollars				Percent
United States	6,738	481,887	657,885	-175,997	-2.61
Canada	548	103,643	128,753	-25,110	-0.37
Mexico	368	49,136	48,605	531	0.01
Japan	4,595	51,061	117,532	-66,470	-0.99
China	545	9,178	38,572	-29,395	-0.44
Korea	380	17,499	19,547	-2,048	-0.03
Malaysia	64	6,605	13,877	-7,273	-0.11
Germany	1,835	18,181	31,566	-13,385	-0.20
Singapore	66	11,714	15,287	-3,573	-0.05
United Kingdom	1,023	24,755	24,529	226	0.00
Belgium	228	10,188	6,319	3,869	0.06
Bražil	474	7,638	8,847	-1,209	-0.02
Thailand	140	4,624	10,276	-5,652	-0.08
Taiwan	234	16,240	26,586	-10,345	-0.15
Italy	1,026	6,863	14,572	-7,708	-0.11
Russia	² 272	2,508	3,215	-707	-0.01

¹ Estimated GDP data for Mexico, Japan, Singapore, Brazil, Thailand, Taiwan, Italy, and Russia are from U.S. Department of State, *Country Reports on Economic Policy and Trade Practices* (Washington, DC: GPO, 1995), pp. 59, 93, 97, 102, 199, 251, 334, and 392.

² Estimated from 600 trillion rubles. The rapid devaluation of the ruble in 1994 makes the determination of a meaningful figure in U.S. dollars difficult. Ibid., p. 251.

Note.—The GDP data for China and Malaysia are for 1993 because the 1994 statistics consistent with International Monetary Fund data are not available yet.

Source: U.S. trade data from official statistics of the U.S. Department of Commerce; GDP data from International Monetary Fund, *International Financial Statistics* (Washington, DC: IMF Publications Services, June 1995), country tables, except as noted.

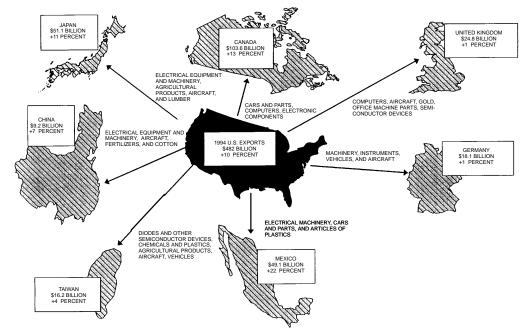


Figure 2-4 Leading U.S. exports, by major markets, and overall percentage change, 1993-94

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

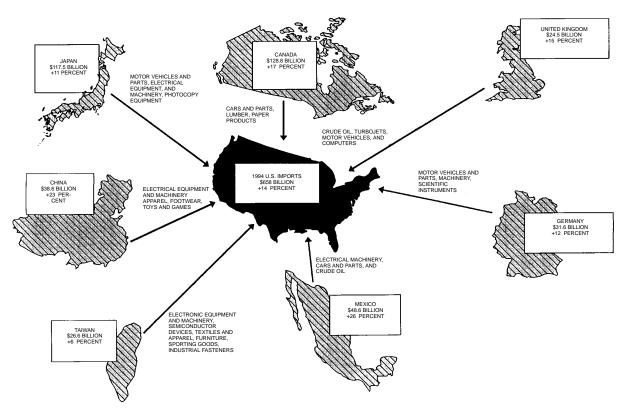


Figure 2-5 Leading U.S. imports, by major sources, and overall percentage change, 1993-94

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

accompanying need of the U.S. Government to borrow dollars to finance the deficit drains savings capital from the U.S. economy that could be used by the private sector to finance investment that would thereby increase the long-term potential for growth of the economy. It also forces borrowing savings from abroad. Weakness in the value of the dollar in early 1995 may be related to an increasing hesitancy of foreigners to continue to finance these budget deficits.

After the dramatic appreciation and subsequent depreciation of the dollar during much of the 1980s, the overall real value of the dollar has fluctuated within a narrow band since 1988. In the long run, with all other factors the same, dollar appreciations should lead to a worsening of the trade balance (as imports become relatively less expensive in the U.S. market and U.S. exports become relatively more expensive abroad), and dollar depreciations should lead to an improvement in the balance of trade. But deficits are not substantial in the long-long run. However, the short-run fluctuations experienced over the past few years in the exchange rate are not likely to be reflected in significant changes in the trade balance.

A current study argues that the key factor explaining year-to-year changes in the overall U.S. trade balance in recent years has been the relative rates of growth in real GDP in the United States compared with its major trading partners.⁶ Thus, the rate at which the U.S. trade deficit widened in 1994 slowed as the average rate of growth of the major U.S. trade partners increased to nearly that of the United States. The study concludes that "because of the close historical association between U.S. imports and U.S. GDP and between U.S. exports and foreign GDP, the balance on goods and services has been closely related to deviations in the GDP ratio (of foreign to U.S.) from its trend."⁷ The study shows that this relationship was strongest during the 1970s and the 1990s when an index of real exchange rates of certain developed and developing countries with the U.S. dollar was relatively stable. The relationship was not nearly so strong during the 1980s when large swings in the real foreign exchange value of the dollar occurred, suggesting that the exchange rate played a larger role in explaining annual changes in the overall U.S. trade balance.

⁵—Continued

U.S. Government deficits would increase the amount of savings available for private investment and contribute to the elimination of the trade deficit, according to this line of reasoning.

⁶ Charles P. Thomas, "U.S. International Transactions in 1994," *Federal Reserve Bulletin*, vol. 81, No. 5 (May 1995), pp. 408-410.

⁷ Ibid., p. 409.

In 1994, the U.S. economy continued its recovery. Both business investment and consumer spending increased as the growing U.S. economy benefited from low interest rates and low inflation. The U.S. economy grew at a 4.1-percent rate, higher than most other developed economies. This higher growth rate in the U.S. resulted in increased demand for imports. At the same time, slower economic growth rates of several major trading partners weakened overall demand in those markets, restraining U.S. export growth to, for example, Japan and Europe, despite the real depreciation of the dollar compared with the yen and a basket of European currencies. In 1994, U.S. imports grew by 14.4 percent, while exports grew by 9.7 percent, worsening the U.S. trade balance and increasing the supply of dollars in the foreign exchange market.

The average exchange rate of the U.S. dollar showed a small appreciation against world currencies in 1994 in terms of both real and nominal rates, as expressed by the trade-weighted values of the dollar prepared by the Federal Reserve Bank of Dallas.⁸ The appreciation of the dollar was caused largely by a strong demand for U.S. financial assets and the sizable depreciation of the Canadian dollar and the Mexican peso. The total real value of the dollar with respect to all foreign currencies in 1994 increased by 1.24 percent as the total real exchange-rate index number increased from 78.27 in 1993 to 79.24 in 1994 (table 2-4). The total real value continued the upward swing from the end of 1993 through the first quarter of 1994, but declined throughout the remainder of 1994. Changes in the total nominal value of the dollar were similar to those in the real value with the total nominal value of the dollar increasing, on average, by 2.54 percent against world currencies in 1994.

The value of the dollar against currencies of individual U.S. major trade partners has shown a mixed pattern. The dollar depreciated sharply with respect to the Japanese yen. In 1994, the average nominal rate between the dollar and the yen changed from 107.62 (yen per dollar) in the first quarter to 99.05 in the third quarter, a depreciation of the dollar by 7.96 percent.⁹ This was the first quarter that the nominal value of the dollar fell below the 100 yen level. For the same period, the nominal rate of the dollar against the German mark also depreciated sizably from 1.7242 (marks per dollar) to 1.5431, representing a

depreciation of the dollar by 10.50 percent. In 1994, the real value of the dollar with respect to the yen and mark also fell by 6.35 and 2.28 percent, respectively.¹⁰

In contrast, the value of the dollar appreciated with respect to the currencies of two other major U.S. trade partners, the Canadian dollar and the Mexican peso. The annual market rate between U.S. and Canadian dollars changed from 1.2901 (Canadian dollars per U.S. dollar) in 1993 to 1.3656 in 1994, a 5.85-percent appreciation of the U.S. dollar, whereas the real value of the U.S. dollar appreciated 8.42 percent with respect to the Canadian dollar. In 1994, changes in the nominal exchange rate between the U.S. dollar and the Mexican peso were moderate until December 20, when the Mexican Government attempted to widen the exchange rate intervention band. This was followed on December 22 by a decision to let the peso float freely, resulting in a large devaluation of the peso and prompting the financial crisis in Mexico.¹¹ The market exchange rate (end period) changed rapidly from 3.4498 (pesos per dollar) in November to 5.3250 in December 1994, representing a 54.36-percent appreciation of the dollar, according to International Monetary Fund statistics.¹²

The devaluation of the peso and the subsequent economic restructuring in Mexico have had some adverse short-run effects on Mexican economic growth and on the U.S. balance of trade with Mexico. Forecasting the magnitude of these effects depends on assumptions and methods used for forecasting and is beyond the scope of this report.¹³ During the first months following the

¹¹ The sharp decline in the value of the peso has been attributed to several factors. For instance, in 1994, the Mexican current account deficit rose from \$6.9 billion in the first quarter to \$7.4 billion in the fourth quarter; whereas, the capital account of its balance of payments changed from a surplus of \$7.9 billion to a deficit of \$2.5 billion. Mexico's international reserves dropped from \$26.3 billion on March 31 to \$6.7 billion on December 31 in the same year. The changes in the current and capital accounts and in the international reserves weakened confidence in the currency and reduced the value of the peso. For a detailed analysis of the crisis, see Annex I: "Factors Behind the Financial Crisis in Mexico," *World Economic Outlook*, (Washington, DC: International Monetary Fund, May 1995), pp. 90-97.

⁸ The indexes of trade-weighted values of the dollar used in this section are provided by the Federal Reserve Bank of Dallas. This trade-weighted index may differ from those published by other institutions. The Dallas Federal Reserve Bank index numbers are revised and adjusted occasionally. At present, the first quarter of 1985 is used as the base (100) of its nominal and real exchange-rate indexes.

⁹ All percentage change figures are calculated using the link relative formula: percentage change = (the second period figure/the first period figure - 1) x 100.

¹⁰ The depreciation of the dollar against these two major currencies continued during the first 4 months of 1995—according to the Federal Reserve Board, the lowest daily market value of the dollar against the yen was recorded at 81.12 on April 19, 1995. On the same day, the market value of the dollar against the mark also reached its lowest level of 1.3656. Since then the dollar has started rebounding in relation to these two currencies. On May 15, 1995, the daily market rates of the dollar against the yen and the mark had recovered to 86.86 and 1.4445, respectively.

¹² The market value of the peso declined continuously until it reached its lowest point of 7.60 on March 9, 1995. The value of the peso had rebounded to 5.97 by May 15, 1995.

¹³ Some analysts have estimated potential effects of the Mexican crisis. For instance, William R. Cline, a fellow of the Institute for International Economics, predicted a reduction in Mexico's GDP by 4.0 percent in 1995 in a looseleaf called "A Reduced-Form Current Account Model

Table 2-4

Real exchange rates: Indexes of foreign currencies or of baskets of currencies against the U.S. dollar, annual averages 1990-1994 and the first quarter averages 1995

Year(s)	Total ¹	Western Hemisphere	Canada	Mexico	Europe	Germany	Japan	NICs ²	Taiwan	Korea
				In	dexes (First o	quarter 1985=10	0)			
1990 1991 1992 1993 1994 1995 ³	75.89 75.63 75.60 78.27 79.24 79.65	93.59 95.43 95.23 92.61 86.28 76.18	84.13 81.54 87.32 94.21 102.14 105.53	105.03 95.73 87.50 82.62 85.80 137.88	56.40 57.51 55.15 61.88 61.33 57.76	56.94 58.94 54.97 57.55 56.24 51.43	64.25 60.35 57.46 51.30 48.04 45.84	88.70 91.04 92.72 96.45 101.71 98.83	75.92 76.27 70.43 74.11 73.25 72.12	79.08 78.07 80.66 81.48 78.75 76.77
					Change	(Percent)				
1990-91 1991-92 1992-93 1993-94 1993-94 1994-95 ³	-0.34 -0.04 3.53 1.24 0.52	1.97 -0.21 -2.75 -6.84 -11.71	-3.08 7.09 7.89 8.42 3.32	-8.85 -8.60 -5.58 3.85 60.70	1.97 -4.10 12.20 -0.89 -5.82	3.51 -6.74 4.69 -2.28 -8.55	-6.07 -4.79 -10.72 -6.35 -4.58	2.64 1.85 4.02 5.45 -2.83	0.46 -7.66 5.23 -1.16 -1.54	-1.28 3.32 1.02 -3.35 -2.51

¹ After 1993, the Dallas Federal Reserve's index of real exchange rates weighted by U.S. bilateral trade with 99 trading partners (RX-99).
 ² China, Hong Kong, Indonesia, Korea, Malaysia, Singapore, Taiwan, and Thailand.
 ³ The first quarter of 1995.

Source: Federal Reserve Bank of Dallas.

December 1994 devaluation, the United States imported more Mexican goods, which became cheaper as a result of the devaluation; whereas, Mexico imported fewer American goods, which have become more expensive to Mexican consumers.¹⁴

The 1994 trend in the real value of the U.S. dollar against currencies of the Pacific newly industrialized countries (NICs) was irregular. The U.S. dollar appreciated in real value in relation to the basket of NIC currencies by 5.45 percent. However, the real value of the dollar depreciated with respect to two NIC currencies, the New Taiwan dollar and the Korean won, by 1.16 percent and 3.35 percent, respectively.

The real value of the dollar depreciated slightly (by 0.89 percent) against the European currencies in 1994. Much of the decrease came from the appreciation of the German mark, French franc, Belgian franc, and Dutch guilder. The real value of the dollar depreciated in relation to the basket of Western Hemisphere currencies by 6.84 percent.

Consistent with the findings noted above, there was no systematic relationship between small year-to-year bilateral currency movements and changes in the U.S. bilateral trade balance in 1994.¹⁵ The U.S. trade balances with the countries against whose currencies the dollar rose, grew worse or stabilized. The trade deficits with both Japan and Germany worsened despite a real depreciation of the U.S. trade deficit with Canada and the real value of the U.S. dollar against the Canadian dollar increased simultaneously during 1992-94. The U.S. trade surplus with Mexico diminished during 1992-93, whereas the real value of the peso appreciated.

¹⁴ In fact, after the December devaluation, U.S. exports to Mexico dropped from \$4,115 million in December 1994 to \$3,741 million in January 1995, and to \$3,429 in February 1995, according to U.S. official trade statistics. For these 3 months, U.S. imports from Mexico rose continually from \$4,169 million to \$4,691 million and then to \$4,742 million.

The diminishing trade surplus continued in 1994, whereas the real value of the peso dropped.¹⁶

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Summaries of Significant Commodity Shifts

Within each of the major industry/commodity sectors that have been previously noted above, significant shifts in trade occurred during 1994. These shifts are discussed in greater detail in chapters 3 through 12. In addition, tables 2-5 through 2-10 below summarize the most notable of the industry/commodity group shifts that were registered during 1993-94. These latter movements are compiled in rank order according to changes in absolute value and in percentage terms for—U.S. export growth and declines, U.S. import growth and declines, and U.S. trade improvements and declines between 1993 and 1994.

Significant Bilateral Shifts

A large percentage of the major shifts in bilateral U.S. trade during 1994 were import increases. Such increases generally reflected the more rapid expansion of the U.S. economy vis-a-vis some of the major U.S. trading partners and the continued rationalization of U.S. production operations abroad. On the other hand, the more subdued performance of exports was impacted by slower rates of economic expansion of some major trading partners, by tariff and nontariff barriers that continued to exist in certain foreign markets, and, to a lesser degree, by the declining value of the dollar relative to the currencies of several major trading partners. Table 2-11 below lists the 15 U.S. trading partners that accounted for the largest shifts in bilateral U.S. trade during 1994. The countries are ranked according to the total change (positive or negative) in the value of both U.S. imports and exports. The change that occurred in the U.S. trade balance with each of these major U.S. trading partners during 1994 is also provided in the table. U.S. trade with only three of these countries, Korea, Belgium, and Brazil, had a positive impact on the U.S. trade balance in 1994. Trade with the remaining partners, especially Canada, Japan, and China, was responsible for \$35.0 billion of the \$40.4 billion growth in the U.S. trade deficit during 1994. An analysis of some of the underlying factors that influenced the shifts in bilateral trade with each of these major trading partners is provided below.

¹³ Continued—

for the United States and Japan," Institute for International Economics, Washington, DC, July 1995, p. 41. Sherman Robinson, Mary Burfisher, and Karen Theierfelder found a virtually linear relationship between changes in the balance of trade and in the real exchange rate. A \$1 billion improvement in the Mexican trade balance requires about a percentage point depreciation of the equilibrium real exchange rate. For details on their analysis, see "The Impact of the Mexican Crisis on Trade, Agriculture, and Migration," a paper presented at the Plenary Conference of the North American Agricultural Policy Research Consortium at Stanford University, May 5-6, 1995.

¹⁵ For any single-year period, the long-run relationship between depreciation and improving trade balance is obscured by demands for currencies in financial markets, differences in economic growth between countries, and the time lag between currency movements and changes in trade patterns.

¹⁶ In the first quarter of 1995, the real value of the dollar against the peso appreciated rapidly and the U.S. bilateral trade balance with Mexico shifted into a deficit.

		U.S. expo	orts	Change, 1994 from 1993	
USITC code	Industry/commodity group	1993	1994	Absolute	Percent
			— Million dollars		
Rank or	der based on change in absolute value growth:				
ST016	Diodes, transistors, integrated circuits and				
	similar semiconductor solid-state devices	13.813	18,098	4,285	31.0
ST018	Automatic data processing machines	25,397	29,102	3,705	14.6
MT038	Automobiles, trucks, buses, and bodies and chassis				
	of the foregoing		21,365	2,810	15.1
MT039	Certain motor-vehicle parts	18,469	20,685	2,216	12.0
ИТ023	Semiconductor equipment, robots, and other	7 674	0.000	4 740	00.7
T000	machinery	7,574	9,292	1,718	22.7
ST002	Telephone and telegraph apparatus	5,199	6,724	1,525	29.3
ST013	Apparatus for making, breaking, protecting, or	5.224	6.471	1.247	23.9
AG064	connecting electrical circuits		2.653	1,247	23.9 73.6
AG043	Cotton, not carded or combed		2,055	1,039	26.5
ST031		3,920	4,905	1,039	20.0
51051	Measuring, testing, controlling, and analyzing instruments	9.026	10,060	1,034	11.5
CH012	Miscellaneous organic chemicals	4.886	5,897	1,011	20.7
CH012	Fertilizers		2,780	903	48.1
ST007	Radio transmission and reception apparatus, and	1,077	2,700	903	40.1
51007	combinations thereof	4,283	5,166	883	20.6
/T002	Internal combustion piston engines, other than for	4,200	5,100	005	20.0
11002	aircraft	7.450	8.288	838	11.2
G054	Wood pulp and wastepaper		3,816	817	27.2
/T041	Miscellaneous vehicles and transportation-related	2,333	5,010	017	21.2
/10-11	equipment	2 441	3.156	715	29.3
CH039	Other plastics in primary forms	3.992	4.670	678	17.0
ST024	Medical goods	7,360	7,997	637	8.7
AG034	Edible preparations		3.062	540	21.4
CH047	Miscellaneous rubber or plastics products		3,110	518	20.0
Rank or	der based on change in percentage growth:		,		
414000		0	40	40	400.0
MM008 AG062	Precious metal ores and concentrates	3 71	16 215	13 144	433.3 202.8
AG062	Ethyl alcohol for nonbeverage purposes		215	22	202.8
CH004	Wool and other animal hair Crude petroleum		30 44	22	120.0
AG064	Cotton, not carded or combed		2.653	1,125	73.6
\G038	Malt beverages		2,055	139	68.8
/M002	Certain miscellaneous mineral substances	202	5	2	66.7
AM002	Lead ores and residues	14	23	9	64.3
AM007	Certain ores, concentrates, ash, and residues	191	301	110	57.6
AG037	Nonalcoholic beverages, excluding fruit and	131	501	110	57.0
10007	vegetable juices	220	344	124	56.4
/M021	Primary iron products	8	12	4	50.0
	Fertilizers	1.877	2.780	903	48.1
H018	Zinc ores and residues	137	191	54	39.4
		107	101	0-1	00.7
AM006			100	132	39.2
AM006	Wire products of iron, steel, aluminum, copper,	337	469		
/M006 /M030	Wire products of iron, steel, aluminum, copper, and nickel	337	469	102	00.2
/M006 /M030	Wire products of iron, steel, aluminum, copper, and nickel Television picture tubes and other cathode ray				
/M006 /M030 ST014	Wire products of iron, steel, aluminum, copper, and nickel Television picture tubes and other cathode ray tubes	769	1,061	292	38.0
MM006 MM030 ST014 AG005	Wire products of iron, steel, aluminum, copper, and nickel Television picture tubes and other cathode ray tubes Poultry		1,061 1,691	292 462	38.0 37.6
MM006 MM030 ST014 AG005 CH080	Wire products of iron, steel, aluminum, copper, and nickel Television picture tubes and other cathode ray tubes Poultry Other wearing apparel	769 1,229 448	1,061 1,691 603	292 462 155	38.0 37.6 34.6
CH018 MM006 MM030 ST014 AG005 CH080 CH036 MM044	Wire products of iron, steel, aluminum, copper, and nickel Television picture tubes and other cathode ray tubes Poultry	769 1,229	1,061 1,691	292 462	38.0 37.6

Table 2-5 Domestic export growth: Ranking of top 20 industry/commodity groups

Table 2-6	
Domestic export declines: Ranking of top 20 industry/commodity groups	

		U.S. expo	orts	Change, 199	4 from 1993
USITC code	Industry/commodity group	1993	1994	Absolute	Percent
			— Million dollars	<u> </u>	
Rank or	der based on change in absolute value decline:				
MM020	Precious metals and related articles	9.895	6,531	-3,364	-34.0
MT042	Aircraft, spacecraft, and related equipment		28,576	-2,097	-6.8
AG030	Cereals		10,088	-640	-6.0
CH005	Petroleum products		6.014	-640	-9.6
AG032	Oilseeds		4,537	-221	-4.6
AG046	Logs and rough wood products	3,134	2,963	-171	-5.5
ST028	Arms and ammunition		2,212	-160	-6.7
AG013	Animal feeds		3,482	-134	-3.7
CH003	Coal, coke, and related chemicals products		3,464	-123	-3.4
ST025	Surveying and navigational instruments	1,556	1,470	-86	-5.5
AG010	Dairy produce	655	572	-83	-12.7
MM023	Iron and steel waste and scrap	1.323	1.269	-54	-4.1
CH028	Antibiotics	1,580	1,528	-52	-3.3
AG008	Fish canned, cured, or otherwise prepared, and	.,	1,020		0.0
10000	live fish	417	373	-44	-10.6
00001					
AG061	Printed matter		3,788	-40	-1.0
CH006	Natural gas and components	603	568	-35	-5.8
CH008	Other olefins	223	190	-33	-14.8
CH001	Electrical energy	61	30	-31	-50.8
MT017	Printing, typesetting, and bookbinding machinery				
	and printing plates	1,125	1,094	-31	-2.8
CH068	Women's and girls' suits, skirts, and coats		255	-28	-9.9
Rank or	der based on change in percentage decline:				
CH001	Electrical energy	61	30	-31	-50.8
MM020	Precious metals and related articles		6,531	-3,364	-34.0
CH059	Sacks and bags of textile materials		22	-8	-26.7
	Table and table bondles of wood				
AG051	Tools and tool handles of wood	20	16	-4	-20.0
CH007	Major primary olefins	148	123	-25	-16.9
CH073	Neckwear, handkerchiefs, and scarves	31	26	-5	-16.1
CH008	Other olefins	223	190	-33	-14.8
CH056	Cordage, nets, and netting	50	43	-7	-14.0
AG010	Dairy produce	655	572	-83	-12.7
MM050	Umbrellas, whips, riding crops, and canes	9	8	-1	-11.1
AG008	Fish canned, cured, or otherwise prepared, and	5	0		
40000		447	272	4.4	10.6
	live fish	417	373	-44	-10.6
ST030	Drawing and mathematical calculating or measuring				
	instruments	162	145	-17	-10.5
MM035	Iron construction castings and other nonmalleable				
	cast-iron articles	29	26	-3	-10.3
CH068	Women's and girls' suits, skirts, and coats	283	255	-28	-9.9
CH005	Petroleum products		6.014	-640	-9.6
MM022	Ferroalloys		87	-8	-8.4
				-0 -7	
\G050	Wooden containers	83	76	•	-8.4
AM034	Metal and ceramic sanitary ware	165	153	-12	-7.3
	Aircraft, spacecraft, and related equipment	30.673	28,576	-2,097	-6.8
MT042 ST028	Arms and ammunition		2.212	-160	-6.7

Table 2-7
Domestic import growth: Ranking of top 20 industry/commodity groups

		U.S. impo	orts	Change, 199	4 from 1993
USITC code	Industry/commodity group	1993	1994	Absolute	Percent
			— Million dollars		
Rank or	der based on change in absolute value growth:				
MT038	Automobiles, trucks, buses, and bodies and chassis				
	of the foregoing		79,240	10,633	15.5
ST018	Automatic data processing machines	37,906	46,161	8,255	21.8
ST016	Diodes, transistors, integrated circuits and				
	similar semiconductor solid-state devices		26,020	6,554	33.7
MM025	Steel mill products, all grades	8,670	12,435	3,765	43.4
MT023	Semiconductor equipment, robots, and other	0.404	0.404	4 000	00 5
	machinery		8,121	1,990	32.5
MM037	Unwrought aluminum	2,774	4,221	1,447	52.2
MT039	Certain motor-vehicle parts	14,646	16,085	1,439	9.8
ST007	Radio transmission and reception apparatus, and	0.400	7 704	4.044	00.0
	combinations thereof		7,764	1,344	20.9
MM055	Furniture and selected furnishings		7,638	1,340	21.3
ST002	Telephone and telegraph apparatus	6,143	7,448	1,305	21.2
MT036	Insulated electrical wire and cable, and conduit;	0.504	4.040	4.040	25.0
07004	glass and ceramic insulators	3,564	4,810	1,246	35.0
ST031	Measuring, testing, controlling, and analyzing	4 550	F 707	4 474	05.0
MTOAO	instruments		5,727	1,174	25.8
MT012	Construction and mining equipment	2,299	3,462	1,163	50.6
ST013	Apparatus for making, breaking, protecting, or	0.054	7 000	4 4 0 0	40.0
MTOOO	connecting electrical circuits	6,254	7,380	1,126	18.0
MT002	Internal combustion piston engines, other than for	0.040	7 40 4	4 00 4	474
10017	aircraft		7,424	1,084	17.1
AG047			6,059	1,027	20.4
AG028	Coffee and tea		2,655	950	55.7
CH012 ST004	Miscellaneous organic chemicals	3,502	4,445	943	26.9
51004	Tape recorders, tape players, video cassette				
	recorders, turntables, and compact disc		6 000	020	15 1
MT014	PlayersFarm and garden machinery and equipment		6,283 3.277	838 808	15.4 32.7
-		2,409	3,277	000	52.7
Rank or	der based on change in percentage growth:				
MM004	Copper ores and concentrates	42	126	84	200.0
MM051	Silverware and certain other articles of precious				
	metal or metal clad with precious metal	109	317	208	190.8
MM008	Precious metal ores and concentrates	20	49	29	145.0
MM021	Primary iron products	213	450	237	111.3
CH038	Saturated polyester resins	108	197	89	82.4
AG032	Oilseeds		268	113	72.9
MT037	Rail locomotive and rolling stock		1,161	432	59.3
AG028	Coffee and tea		2,655	950	55.7
CH036	Polyvinyl chloride resins in primary forms	117	182	65	55.6
MM039	Lead and related articles	97	149	52	53.6
MM037	Unwrought aluminum		4,221	1,447	52.2
MT008	Centrifuges and filtering and purifying equipment	706	1,067	361	51.1
MT012	Construction and mining equipment	2,299	3,462	1,163	50.6
CH007	Major primary olefins	193	289	96	49.7
MM030	Wire products of iron, steel, aluminum, copper,				
	and nickel	668	984	316	47.3
AG030	Cereals	586	861	275	46.9
CH001	Electrical energy	662	960	298	45.0
MM025	Steel mill products, all grades	8,670	12,435	3,765	43.4
		644	913	269	41.8
MT021	Machine tools for metal forming and parts thereof	644	913	209	41.0

Table 2-8
Domestic import declines: Ranking of top 20 industry/commodity groups

		U.S. impo	orts	Change, 199	4 from 1993
USITC code	Industry/commodity group	1993	1994	Absolute	Percent
			— Million dollars		
Rank or	der based on change in absolute value decline:				
MM062	Games and fairground amusements	3,461	2,575	-886	-25.6
AG041	Unmanufactured tobacco		613	-757	-55.3
CH005	Petroleum products		10,450	-591	-5.4
MT043	Ships, tugs, pleasure boats, and similar vessels	1,019	653	-366	-35.9
AG002	Cattle and beef		2,716	-329	-10.8
AG043	Cigarettes	360	73	-287	-79.7
AG057	Newsprint		3,333	-260	-7.2
ST020	Exposed photographic plates, film, and paper	156	107	-49	-31.4
ST019	Photographic supplies	1,702	1,675	-27	-1.6
AG007	Frozen fish	1.293	1,267	-26	-2.0
MM058	Prefabricated buildings	71	48	-23	-32.4
AG046		387	366	-23	
	Logs and rough wood products				-5.4
AG042	Cigars, and certain other manufactured tobacco	107	90	-17	-15.9
CH013	Selected inorganic chemicals and elements	1,252	1,235	-17	-1.4
MT035	Electric and gas welding and soldering equipment	502	486	-16	-3.2
MM054	Bicycles and certain parts	841	825	-16	-1.9
ST025	Surveying and navigational instruments	477	461	-16	-3.4
CH033	Explosives, propellant powders and related items	209	196	-13	-6.2
CH009	Primary aromatics	169	158	-11	-6.5
MT018	Textile machinery and parts	1,843	1,833	-10	5
Rank or	der based on change in percentage decline:				
AG043	Cigarettes	360	73	-287	-79.7
AG041	Unmanufactured tobacco		613	-757	-55.3
MT043	Ships, tugs, pleasure boats, and similar vessels	1.019	653	-366	-35.9
MM058	Prefabricated buildings	71	48	-23	-32.4
MM011	Ceramic bricks and miscellaneous ceramic	, ,	-0	20	52.4
	construction articles	22	15	-7	-31.8
ST020	Exposed photographic plates, film, and paper	156	107	-49	-31.4
MM062	Games and fairground amusements	3,461	2.575	-49	-25.6
AG042	Cigars, and certain other manufactured tobacco	107	90	-17	-15.9
AG011	Eggs		30	-5	-14.3
AG002	Cattle and beef		2,716	-329	-10.8
CH023	Natural tanning and dyeing materials	64	58	-6	-9.4
CH048	Gelatin	97	90	-7	-7.2
AG057	Newsprint		3,333	-260	-7.2
CH009	Primary aromatics	169	158	-11	-6.5
CH033	Explosives, propellant powders and related items	209	196	-13	-6.2
CH005	Petroleum products		10,450	-591	-5.4
AG046	Logs and rough wood products	387	366	-21	-5.4
AG004	Sheep and meat of sheep	62	59	-3	-4.8
AG005	Poultry	24	23	-1	-4.2
ST025	Surveying and navigational instruments	477	461	-16	-3.4
01020		711	401	-10	-3.4

Table 2-9 U.S. trade position improvements: Ranking of top 30 industry/commodity groups (Million dollars)

		U.S. balar	nce	Absolute change,
USITC code	Industry/commodity group	1993	1994	1994 from 1993
AG043	Cigarettes	3,566	4,892	1,326
AG064	Cotton, not carded or combed		2.646	1.118
MM062	Games and fairground amusements		-1,458	1,003
MT039	Certain motor-vehicle parts		4,600	777
AG041	Unmanufactured tobacco		690	754
MT041	Miscellaneous vehicles and transportation-related			
-	equipment	976	1,700	724
AG002	Cattle and beef		-355	674
ST024	Medical goods	2,979	3,592	613
MT043	Ships, tugs, pleasure boats, and similar vessels	-17	550	567
AG005	Poultry	1.205	1,668	463
CH018	Fertilizers	277	740	463
AG054	Wood pulp and wastepaper		1,487	387
CH039	Other plastics in primary forms		2,986	380
AG034	Edible preparations	1.174	1,501	327
ST006	Records, tapes, compact discs, computer software,	.,	1,001	02.
	and other recored media	2.665	2,987	322
CH010	Benzenoid commodity chemicals	874	1,163	289
MM066	Miscellaneous articles		-2,925	274
AG057	Newsprint		-2,852	245
AG056	Industrial papers and paperboards		2,439	222
ST002	Telephone and telegraph apparatus		-724	220
CH030	Perfumes, cosmetics, and toiletries	442	660	218
AG033	Animal or vegetable fats and oils	598	805	207
CH011	Benzenoid specialty chemicals		1.792	205
CH044	Plastic or rubber semifabricated forms		1,310	186
AG023		450	617	167
AG023 AG062	Ethyl alcohol for nonbeverage purposes	-72	69	141
MT005		-12	09	141
CODINI	Certain industrial thermal-processing equipment	738	876	138
MM022	and certain furnaces			
MM032	Industrial fasteners of base metal	-900	-767	133
CH052	Boardwoven fabrics		-1,615	132
CH025	Pesticide products and formulations	759	884	125

Table 2-10
U.S. trade position declines: Ranking of top 30 industry/commodity groups
(Million dollars)

Mill	lion	dol	lars)
	1011	uui	iai 3)

		U.S. balance		Absolute change,	
USITC code	Industry/commodity group	1993	1994	1994 from 1993	
MT038	Automobiles, trucks, buses, and bodies and chassis				
	of the foregoing	-50,052	-57,875	-7,823	
ST018	Automatic data processing machines	-12,509	-17.059	-4,550	
MM025	Steel mill products, all grades	-5.859	-9,406	-3.547	
MM020	Precious metals and related articles	5,901	2,498	-3.403	
MT042	Aircraft, spacecraft, and related equipment		22,145	-2,273	
ST016	Diodes, transistors, integrated circuits and		,		
	similar semiconductor solid-state devices	-5,653	-7,922	-2,269	
MM037	Unwrought aluminum	-2,003	-3,325	-1,322	
AG047	Lumber	-2,562	-3.601	-1,039	
MM055	Furniture and selected furnishings	-3.357	-4,338	-981	
MT036	Insulated electrical wire and cable, and conduit;	0,001	.,000	001	
	glass and ceramic insulators	-573	-1,521	-948	
AG030	Cereals	10.142	9.227	-915	
AG028	Coffee and tea		-2.424	-906	
MT012	Construction and mining equipment		3,485	-867	
CH006 ST004	Natural gas and components Tape recorders, tape players, video cassette recorders, turntables, and compact disc	-3,818	-4,633	-815	
	players	-4,866	-5,643	-777	
ST001	Office machines	-3,282	-4,004	-722	
MM019	Natural and synthetic gemstones		-6,161	-653	
ST010	Television apparatus (except receivers and monitors), including cameras, camcorders, and	0,000	0,101		
	cable apparatus	-2.197	-2.838	-641	
CH066	Shirts and blouses		-9,819	-631	
AG009	Shellfish	-2,383	-2.992	-609	
MT014	Farm and garden machinery and equipment	1,255	652	-603	
CH082	Footwear and footwear parts	-10,501	-11,068	-567	
ST009	Television receivers and video monitors and	,	,		
	combinations including television receivers	-2,508	-3,017	-509	
ST007	Radio transmission and reception apparatus, and	0 1 2 7	2 509	-461	
MT028	combinations thereof	-2,137	-2,598	-401	
	equipment	-49	-502	-453	
CH027	Medicinal chemicals, except antibiotics	793	391	-402	
MM047	luggage handbage and flat goode		-2.775	-402 -390	
	Luggage, handbags, and flat goods	-2,385			
MM063	Sporting goods	-1,019	-1,373	-354	
AG032	Oilseeds	4,603	4,269	-334	
MM036	Copper and related articles	-506	-838	-332	

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

Table 2-11

Top absolute bilateral U.S. trade shifts (changes) in imports, exports, and total, and resulting change in U.S. trade balance, by trading partner, during 1993-94

(Million dollars)								
Rank	Partner	Exports	Imports	Total	Change in U.S. balance			
1	Canada	11,777	18,271	30,048	-6,494			
2	Mexico	8,871	9,938	18,808	-1,067			
3	Japan	5,016	11,369	16,385	-6,352			
4	China	559	7,147	7,706	-6,589			
5	Korea	3,141	2,561	5,701	580			
6	Malaysia	858	3,395	4,253	-2,538			
7	Germany	234	3,463	3,697	-3,229			
8	Singapore	1.059	2.543	3.601	-1.484			
9	United Kingdom	258	3,226	3.483	-2.968			
10	Belgium	1.943	1,167	3.111	776			
11	Brazil	1,927	1.085	3,011	842			
12	Thailand	1,069	1.737	2,806	-668			
13	Taiwan	655	1.605	2.260	-950			
14	Italy	730	1.516	2,246	-785			
15	Russia	-386	1,482	1,868	-1,868			

Source: Compiled by the U.S. International Trade Commission from official statistics of the U.S. Department of Commerce.

Canada

The U.S. trade deficit with Canada expanded by \$6.5 billion in 1994, to \$25 billion. The continuing depreciation of the Canadian real exchange rate, which has fallen by over 5.5 percent per annum over the last 3 years, has made Canadian products increasingly cost-competitive in foreign markets.¹⁷ The international competitiveness of Canadian producers was further improved by a decline in unit labor costs. Unit labor costs, which represent roughly 60 percent of total production costs in the Canadian economy, fell for the fifth consecutive quarter at the end of 1994. Lower unit labor costs were the result of restrained wage growth and improvements in productivity performance.18 The combination of these factors encouraged a 17-percent rise (\$18 billion) in U.S. imports from Canada to \$129 billion. U.S. exports to Canada increased by 13 percent (\$12 billion) in 1994 to \$104 billion. The rise in exports was sustained by the strong Canadian economy. Canadian GDP grew by 4.5 percent in 1994, outpacing the combined rate of growth of the G7 (3.0 percent) including the United States (4.1 percent).¹⁹ The U.S.-Canadian Free-Trade Agreement (CFTA) and the NAFTA have provided U.S. producers with improved access to the Canadian markets and significant reductions in Canadian tariffs.

Canada continues to be the leading trading partner of the United States, accounting for one-fifth of total U.S. imports (\$129 billion) in 1994 and a market for a comparable share of U.S. exports (\$104 billion). The United States was both the leading market for Canadian exports (85 percent) and the principal source of imports (76 percent).²⁰ Such factors as geographical proximity, resource endowment, infrastructure, communications, media linkages, similar cultures and language promote trade between the two countries.

Motor vehicles accounted for the most significant share of U.S. trade with Canada in 1994. Reflecting continued integration of the North American motor vehicle industry,²¹ U.S. imports of motor vehicles and parts from Canada rose by 15 percent (\$4.8 billion) in 1994, to \$38 billion; while exports of motor vehicles and parts to Canada increased by 18 percent (\$3.7 billion) to \$25 billion. North American motor vehicle producers achieve increased economies of scale by concentrating the production of specific car models at a single location. These locations supply both the U.S. and Canadian markets. North American car manufactures generally award contracts to the most cost-competitive manufacturers of car parts on either side of the border.

U.S. imports from Canada of magnetic readers, automatic data processing machines, personal computers, and computer parts increased by 17 percent (\$938 million) in 1994 to \$5.4 billion, while U.S. exports rose by 18 percent (\$1.4 billion) to \$9.2 billion. U.S. multinationals such as IBM, Digital Equipment, and Hewlett Packard supply assembly operations in Canada. Products made by these operations are sold throughout North America. U.S. exports of computer and related equipment and parts were further boosted by the efforts of the Canadian commercial services sector²² to increase the ratio of its services exported as a percentage of merchandise trade. Canadian firms have invested in more sophisticated office automation and computer equipment in order to be more competitive in the international services marketplace. The Canadian ratio (10 percent) is significantly lower than those of the United States, Italy, and France (over 30 percent).²³

Imports of furniture from Canada rose by 30 percent (\$465 million) to \$2 billion in 1994, while U.S exports of furniture to Canada rose by 12 percent (\$151 million) to \$1.4 billion. The bulk of the increase in imports was accounted for by wood household furniture and motor vehicle seats and parts. Canadian household furniture producers provide furniture to the U.S. market at lower prices than their European competitors. Producers in Canada have ready access to lumber and significantly lower transportation costs because of proximity to the U.S. market. To a large extent, Canadian producers of electronically adjustable car seats are reliant on parts from the United States. The finished seats are used by vehicle assembly operations on both sides of the U.S.-Canada border.

U.S. imports of aluminum rose by 25 percent (\$929 million) to \$3.2 billion in 1994; while U.S. exports of aluminum rose by 24 percent (\$264 million) to \$1.4 billion. Cross border trade in these products involves processing and subsequent manufacturing into parts, particularly auto parts.

Canada's comparative advantage in the global market is based partly on its wealth of natural resources. Lumber, particle board, paper, and pulp used to make paper and corrugate boxes accounted for a significant trade shift between Canada and the United States. U.S. imports of these products rose by 20 percent (\$1.6 billion) in 1994 to \$9.7 billion. U.S. supply shortages of lumber and particle

¹⁷ Ray Barrell, Nigel Pain, and Julian Morgan, "The World Economy," *National Institute Economic Review*, Nov. 1994, p. 43.

¹⁸ The Economy in Brief, Department of Finance Canada, Mar. 1995, p. 3.

¹⁹ Scotiabank: The Bank of Nova Scotia, *Global Economic Outlook* (Nova Scotia, Canada, May 1995), p. 3.

²⁰ U.S. Department of State, *Country Reports on Economic Policy and Trade Practices* (Washington, DC: GPO, Feb. 1995), p. 143.

²¹ Integration of the North American motor vehicle industry was greatly facilitated by the Automotive Products Trade Act of 1965 (APTA), which provided for free trade between the United States and Canada for most motor vehicles and parts (Public Law 89-283, 79 stat. 1016). The APTA later served as a model for the CFTA and the NAFTA.

²² This sector includes firms involved in consulting, administration and management, communication, and data processing.

²³ National Bank of Canada, *Economic and Financial Forecast, North-American Financial Environment*, Department of Economic Analysis, Autumn 1994, p. 7.

board caused by both environmental restrictions imposed on timber harvests and an increase in U.S. domestic demand because of a robust economy provided Canadian producers with a beneficial market. Canadian pulp and paper producers were also able to capitalize on rising paper prices because of strong U.S. and world demand for printing and writing paper.

Another resource-based product that contributed significantly to the rise in U.S. imports from Canada was natural gas and hydroelectric energy, as U.S. imports of energy-related products rose by 25 percent (\$1.3 billion) in 1994, to \$6.4 billion. Canadian producers have phased in new ethylene and ethylene glycol plants. Further, low-cost ethane feedstock in West Canada gives producers in this area a competitive advantage over producers in the U.S. Gulf of Mexico region.²⁴ Development of Canada's oil sands²⁵ could fuel the growth of the petroleum sector into the next century by tripling production to as much as 1.2 million barrels a day.²⁶

Higher levels of government debt are expected to reduce both the level of Canadian output and the share of output that is available for domestic Canadian consumption in 1995.²⁷ Net public debt in FY 1993-94 exceeded 74 percent of Canada's GDP.²⁸ To handle this debt, the Canadian Government must either raise taxes and subsequently reduce the share of output that is available for consumption, or borrow. When a government's debt-to-GDP ratio rises, as has that of the Canadian Government, interest rates usually increase because lenders demand a higher rate of return. Higher interest rates, in turn, reduce investment in new plants, equipment, and research and development.

In order to cut spending and devote more resources to lowering its debt, the Canadian Government, among other things, is implementing the following measures: (1) no longer own, operate, and subsidize large parts of its transportation system; (2) eliminate the subsidies under the Western Grain Transportation Act, the Atlantic Region Freight Assistance Act, and the Maritime Freight Rates Act as of August 1, 1995;²⁹ and (3) cut dairy subsidies by 30 percent over the next 2 years.³⁰ Further, the Canadian Government is currently evaluating the efficiency of its unemployment insurance programs. A significant portion of Canadian tax revenues are devoted to this policy.³¹

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Mexico

Bilateral merchandise trade between the United States and Mexico expanded by more than 20 percent in 1994, the first year following implementation of the NAFTA. Real economic growth in Mexico increased to an estimated 2.8 percent following a sluggish 0.4 percent in 1993. Mexico remained the fastest growing and the third-largest U.S. trading partner (after Canada and Japan). Despite relatively slow growth in the Mexican economy, U.S. exports to Mexico grew by 22 percent (\$9 billion) to \$49 billion in 1994. Imports from Mexico also expanded, rising by 25 percent (\$10 billion) to \$48.6 billion. As a result, the U.S. merchandise trade surplus with Mexico continued to decline, from \$1.6 billion in 1993 to \$531 million in 1994.

Implementation of the NAFTA on January 1, 1994, continued market reforms, and an accelerated influx of foreign investment all expanded the role played by foreign trade in Mexico's economy in 1994. The economic reforms of the Carlos Salinas de Gortari administration (unilateral tariff reductions, privatization, control over inflation, and opening industry sectors to foreign investment) paved the way for the NAFTA. In turn, the NAFTA has eliminated quotas in textiles and apparel; established rules and protection for investors; strengthened the protection of intellectual property; and assured market access for U.S. agricultural goods.³² Because of NAFTA, U.S. exports of semiconductors and computers, telecommunications equipment, medical devices, electronic equipment, and machine tools are now eligible for zero Mexican tariffs, which has increased the competitiveness of U.S. exports in those sectors, particularly vis-a-vis other foreign suppliers to the Mexican market.

Political and social developments were also an important factor for Mexico in 1994. The January uprising of the Zapatista National Liberation Army in the Chiapas region, the kidnapping of the president of Banacci, a large private bank, and the assassination of Luis Donaldo Colosio, the Presidential candidate for the Institutional Revolutionary Party (PRI), in March, gave rise to concern about the future of Mexico. Although implementation of NAFTA inspired investor confidence, the developments following these incidents contributed to massive capital outflows. The peso had depreciated by 8 percent as of July 1994, a precursor of the peso crisis

²⁴ Scotiabank, p. 3.

²⁵ Canadian oil sands refer to oil that is found in sedimentary rocks, such as sandstone.

²⁶ U.S. Department of State Telegram, "Canadian Policy, Economic and Financial Development for the Period: May 12-May 18, 1995," message reference No. 2553, prepared by U.S. Embassy, Ottawa, Canada, May 1995, p. 2.

 ²⁷ Bank of Canada Review, "Some Macroeconomic Implications of Rising Level of Government Debt," Bank of

Canada Review, Winter, 1994-95, Ottawa, p. 41. ²⁸ U.S. Department of State, *Country Reports*, Feb.

^{1995,} p. 143.

²⁹Adjustment packages of more than \$500 million Canadian dollars will be provided to operations directly effected by these measures.

³⁰ Department of Finance Canada, *Budget of Canada,* 1995, Ottawa, Canada, Feb. 1995, p. 16.

³¹ Miles Corak and Wendy Pyper, "The Distribution of UI Benefits and Taxes in Canada," *Canadian Economic Observer*, Statistics Canada, Dec. 1994, p. 3.1.

³² U.S. Department of Commerce, "Mexico," U.S. Global Outlook: 1995-2000, Mar. 1995, p. 92.

that would occur in December.³³ Capital outflows were also exacerbated by rising U.S. interest rates that drew short-term investors away from Mexico and to the U.S. market. In addition, Mexico's foreign reserves were depleted by the Salinas administration's efforts to bolster the peso's strength.³⁴ These conditions culminated in December's peso devaluation and resultant financial crisis.³⁵

Mexico accounted for 10 percent of total U.S. exports in 1994 and 7 percent of U.S. imports. Expanded trade with Mexico accounted for 21 percent of the increase in U.S. exports in 1994 and 12 percent of the rise in imports. Bilateral trade between the two countries is characterized by U.S. exports of capital goods, machinery, office equipment, agricultural products, and components for assembly, and Mexican exports of raw materials, petroleum, agricultural products, and goods assembled from U.S. components. Mexico's maquiladora industry (the assembly of foreign components for re-export) accounted for nearly one-quarter (\$12 billion) of U.S. exports to Mexico in 1994, and almost one-half (\$23 billion) of U.S. imports from Mexico.

The importance of the maquiladoras program as a competitive strategy for U.S. companies is further illustrated by the continued integration of the North American motor vehicle industry. U.S. exports of motor vehicles and parts to Mexico grew by \$816 million in 1994 to \$5 billion, while imports of motor vehicles and parts from Mexico rose by \$1.1 billion to \$7.1 billion. Most of this U.S.-Mexico trade in motor vehicles consists of U.S.-made components being assembled into auto parts, industry-related subassemblies, and finished vehicles. Leading examples of motor vehicle parts being assembled in Mexico are ignition wiring sets (\$2.9 billion), seat covers (\$805 million), engines (\$619 million), and catalytic converters (\$339 million). Two-way trade in finished vehicles is becoming increasingly important as trade and investment barriers continue to fall under NAFTA. U.S. imports of cars and trucks from Mexico expanded by \$1 billion in 1994 to reach \$5 billion, while U.S. vehicle exports to Mexico jumped from \$123 million to \$589 million.³⁶

The U.S. electronics industry also employs production sharing in its competitive strategy. Their "high-tech" products typically require a certain degree of labor-intensive assembly operations. As a result, U.S. exports of electronic equipment to Mexico increased by \$1.7 billion (21 percent) in 1994 to \$9.8 billion. At the same time, imports of electronic equipment from Mexico rose by \$3.6 billion (36 percent) to \$13.6 billion. Products accounting for the largest increases in U.S. electronic equipment trade with Mexico are shown in table 2-12 below.

In terms of other important trade sectors, the United States increased its trade surplus with Mexico in agricultural products by \$763 million in 1994 to \$1.3 billion. The most important U.S. exports were cereals (\$958 million), soybeans (\$537 million), and beef (\$269 million). The United States continued to import high, relatively constant volumes of vegetables and root products (\$1 billion) and fruits and nuts (\$429 million). U.S. exports of textiles and apparel increased by \$482 million (28 percent) in 1994 to \$2.2 billion, mainly in the form of various textiles and fabrics, and shirts and blouses; while imports jumped by \$574 million (31 percent) to \$2.4 billion, mostly in men's and women's trousers, undergarments, and footwear. U.S. exports of various plastic articles expanded by \$742 million (36 percent) to \$2.8 billion, while exports of paper products increased by \$264 million (24 percent) to \$1.4 billion.

The future of the Mexican economy, and the impact that the changes may have on its trade relationship with the United States, is somewhat unclear in 1995.³⁷ However, the NAFTA will continue to confer benefits on its members through improved access, freer markets, and low to zero tariffs. Mexican President Ernesto Zedillo has committed his administration to continue to open its financial institutions to foreigners, as well as to privatize other important sectors, and to restore consumer and investor confidence in the Mexican economy.³⁸

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Japan

The total dollar value of the U.S. merchandise trade deficit with Japan increased again in 1994, expanding by \$6.4 billion to \$66.5 billion, continuing the trend begun in 1991.³⁹ This rise in the bilateral trade deficit in 1994

³³ For more information see, USITC, "NAFTA Update: Steady U.S. Bilateral Trade Growth With Mexico Faces Mixed Prospects in 1995," *Industry Trade and Technology Review*, Mar. 1995, p.1.

³⁴ USITC, "International Trade Developments: Financial Crisis in Mexico," *International Economic Review*, Mar. 1995, p. 12.

³⁵ U.S. Department of State, *Country Reports*, Feb. 1995, p. 394.

³⁶Lawrence H. Summers, Under Secretary of the Treasury, testimony before the Senate Banking Committee, *Treasury News*, Mar. 10, 1995.

³⁷ For a more in-depth discussion of the factors contributing to the peso's collapse, see USITC, *Year in Trade 1994*, USITC publication 2894, ch. 4, "Mexico." See especially pp. 85-86.

³⁸ Since U.S.-Mexican trade in the automotive sector consists principally of applying Mexican labor to U.S.-made parts, the United States will continue to run a bilateral trade deficit in the sector to the extent that the value added by Mexican labor exceeds the value of U.S. automotive products actually consumed in Mexico.

³⁹ The Economist Intelligence Unit (EIU), Country Report: Japan, 4th quarter 1994 (London, 1994), p. 37, and Douglas Ostrom, "Japan's Trade Numbers Dip in First Quarter," JEI Report, No. 17B, (Washington, DC: Economic Institute, May 5, 1995), pp. 2-3.

Table 2-12 Principal U.S. exports and imports of electronic products to Mexico, absolute value increase between 1993 and 1994, and total value in 1994

(Million dollars)			
Commodity	Increase from 1993 to 1994	Total in 1994	
Television receivers:	683	2,217	
Integrated circuits: Exports	480	912	
Computers and related equipment: Imports Exports	448 223	931 786	
Camcorders and telephone products: Imports	419	652	
Printed circuit boards: Exports	311	748	
Parts for television sets(picture tubes): Exports	243	679	
Electric capacitors: Exports	143	409	

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

was the third-largest increase with any U.S. trading partner, only slightly behind that with China (\$6.6 billion) and Canada (\$6.5 billion). The United States accounted for about 30 percent of all Japanese merchandise exports (on a customs-clearance basis) between 1990 and 1994 and was by far Japan's largest export market. The United States was also by far the largest source of Japanese imports, supplying from 22 to 23 percent of the total during the same period.

Analysts have given a variety of explanations for the continued expansion of the U.S. trade deficit with Japan in nominal U.S. dollars, even though the average nominal value of the yen has appreciated against the U.S. dollar since 1991. One general explanation emphasizes differences between countries in year-to-year rates of growth in real GDP, noting that the U.S. economy has been expanding in recent years, while that of Japan slowed sharply during 1991-93, before gaining slightly in 1994.⁴⁰ Another type of explanation looks at the U.S. Federal budget deficit and disparities between savings

rates in the United States and Japan.⁴¹ A third type of explanation focuses on changes in exchange rates, one aspect of which is the so-called J-curve effect where, as the yen appreciates against the U.S. dollar, U.S. customers pay more in dollars for the same volume (quantity) of Japan's exports to the United States in the short run, and Japanese customers pay less in dollars for the same volume of U.S. products.⁴² Finally, as noted in the U.S. Government has contended that Japan engages in structural practices that impede imports or result in prices not being sufficiently lower on imported products to reflect the full appreciation of the yen.

Although the rate of growth of the U.S. deficit with Japan had followed a rising trend, growth slowed in 1994 as shown in the following tabulation (in billions of dollars):

Year	Increase	Total
1991	2.4	45.1
1992	4.6	49.7
1993	10.4	60.1
1994	6.4	66.5

⁴¹ See Greenspan, statement before the Committee on the Budget, U.S. House of Representatives, Mar. 8, 1995, pp. 422-424; Bradsher, "Greenspan Says," p. D2; and Kristof, "Japan's Secret Weapon," section 4, p. 1, discussed more fully in the "Exchange Rate Shifts" section.

⁴² In a fully free market, customers and suppliers adjust to changed prices and costs, and the U.S. trade deficit with Japan would decrease. However, one analyst stated, "the demand for many Japanese exports is relatively price inelastic." EIU, *Country Report: Japan*, 4th Quarter 1993 (London, 1993), p. 5. Another source showed that during the period since 1988, the volume (quantity) of Japanese imports increased substantially more than Japanese exports, and it presented evidence that Japan's import and export prices have not fully adjusted to reflect exchange rate changes. This source stated that these data led to assertions that Japanese exporters squeezed profit margins to hold on to market share and that import prices at the retail level did not fall fully to reflect the appreciation of the yen. EIU, *Country Profile: Japan, 1994-95* (London, 1994), pp. 40-41.

³⁹—Continued

Japan's merchandise trade and current account surpluses have for many years caused Japan's major trading partners to ask it to make structural adjustments in its economy to allow increased imports. U.S. Department of State, Country Reports on Economic Policy and Trade Practices (Washington, DC: GPO, Feb. 1993), pp. 107-108 (hereinafter *Country Reports*, 1993); U.S. Department of State, Country Reports on Economic Policy and Trade Practices (Washington, DC: GPO, Feb. 1994), pp. 62-66 (hereinafter Country Reports, 1994); U.S. Department of State, Country Reports, Feb. 1995, pp. 61-65 (hereinafter Country Reports, 1995); United States Trade Representative (USTR), 1994 National Trade Estimate Report on Foreign Trade Barriers, see especially pp. 141-146 (hereinafter 1994 National Trade); and USTR, 1995 National Trade Estimate Report on Foreign Trade Barriers, see especially pp. 163-172 (hereinafter 1995 National Trade).

⁴⁰ See Thomas, "U.S. International Transactions," pp. 408-410, discussed in the "Exchange Rate Shifts" section.

The trade deficit with Japan in 1994 was by far the largest bilateral deficit that the United States had with any country; China (\$29.4 billion) and Canada (\$25.1 billion) were a distant second and third. Nevertheless, when measured as a percent of the total trade deficit, Japan's share continued to slide, as shown in the following tabulation:

Year	Japan's share	Total trade deficit
	(Percent)	(Billion dollars)
1991 1992 1993 1994	54 50 44 38	82.9 100.1 135.6 176.0

U.S. imports from Japan increased by \$11.4 billion (11 percent) to \$117.5 billion in 1994, while exports to Japan grew by \$5.0 billion (11 percent) to \$51.1 billion.⁴³ This sharp rebound in U.S. exports, followed a decline of \$294 million in 1992 and a slight rise of only \$195 million in 1993. This occurred mainly because the rate of growth of the Japanese economy began to recover in 1994 from the sharp slowdown it experienced in 1991-93, and because the yen appreciated against the U.S. dollar.⁴⁴ Having increased annually since 1991, U.S. imports from Japan were more than twice as large as U.S. exports in 1994.

⁴⁴ See Thomas, "U.S. International Transactions," pp. 408-410, cited in the "Exchange Rate Shifts" section. Real GDP in Japan increased by 0.6 percent in 1994, the third-lowest increase since GDP figures began to be collected in their current form in 1970. Very low levels of capacity utilization deterred a recovery in spending on new plant and equipment, which decreased by 8.8 percent in real terms in 1994. Growth in consumer spending, housing construction, business inventories, and government spending just barely offset the decrease in plant and equipment spending and in net external demand. One source estimated that the decrease in net external demand reduced the growth rate of real GDP by 0.6 percentage point in 1994. Prior to the 1990s, Japan had never had 2 consecutive years of less than 3 percent growth in real GDP. The revised figures for 1992, 1.1 percent, and 1993, -0.2 percent, mean that Japan has now had 3 years of below 3-percent growth. EIU, Country Report: Japan, 4th quarter 1994, p. 9, Douglas Ostrom, "Japan's Economy Ekes Out Small Gain in 1994," JEI Report, No. 11B (Washington, DC: Japan Economic Institute, Mar. 24, 1995), pp. 1-3, and U.S. Department of State, Country Reports, Feb. 1995, pp. 60-61. For a discussion of the monetary policies pursued by Japan since 1989 that initially caused the sharp slowdown in Japan's economy and of the monetary and fiscal policies adopted to try to stimulate the economy out of recession, see Country Reports, 1993, pp. 107-108; Country Reports, 1994, pp. 62-63; and *Country Reports*, 1995, pp. 60-61.

Japan's large, persistent current account surplus with the world decreased by \$2.3 billion to \$129.1 billion (2.8 percent of Japan's GDP) in 1994, reversing the upward trend begun in 1991, but registering the second-highest surplus⁴⁵ following the record \$131.4 billion in 1993 (3.1 percent of GDP).⁴⁶ The rising current account surplus in 1991 began simultaneously with an appreciation in the value of the yen, which accelerated rapidly in nominal terms in 1994. Consistent with the J-curve theory, this appreciation contributed, for a given quantity of goods, directly to an increase in the dollar value of U.S. imports from Japan (Japanese exports) and to a decrease in the dollar value of U.S. exports (Japanese imports).

The U.S. trade deficit in the highly contentious automobile sector (\$28.0 billion) accounted for 42 percent of the total U.S. bilateral trade deficit with Japan in 1994. Although U.S. exports of passenger cars to Japan nearly doubled in 1994, rising by \$811 million to \$1.9 billion, imports of that class of vehicle from Japan climbed by \$3.2 billion (12 percent) to \$29.9 billion. The 15:1 ratio in favor of Japan in bilateral auto trade is disconcerting to U.S. trade policy makers. The sectoral trade imbalance has led to a 25-percent Japanese share of the U.S. auto market whereas U.S. car manufacturers supply only 3 percent of the Japanese market. By contrast, automobiles assembled by subsidiaries of Ford Motor Co. and General Motors supply roughly one-quarter of the European new vehicle market.

Japan's trade surplus with the United States in selected auto parts and engines widened still further in 1994. climbing \$696 million to \$5.9 billion (tables 2-13 and 2-14).

⁴³ The value of the rise in imports was the second-largest bilateral expansion in 1994, behind the \$18.3 billion increase from Canada. Total U.S. trade with Japan equaled \$168.6 billion (15 percent of the total) in 1994, making it the second-largest trading partner behind Canada. It also ranked second behind Canada both as a market for U.S. exports and as a source of imports.

⁴⁵ Douglas Ostrom, "Japan's Current Account Surplus Falls Slightly in 1994," JEI Report, No. 7B, (Washington, DC: Japan Economic Institute, Feb. 24, 1995), p. 2, and Douglas Ostrom, "Japan's Current Account Surplus Registers Sharp Drop," *JEI Report*, No. 19B, (Washington, DC: Japan Economic Institute, May 19, 1995), p. 2. In addition to the nominal drop, the real (in 1985 prices) current account surplus fell for the second straight year, by 1.7 trillion yen to 1.9 trillion yen in 1994, after having fallen by 722 billion yen in 1993, as Japanese imports of goods and services expanded more rapidly than exports of goods and services. Douglas Ostrom, "Japan's Economy Ekes Out Slight Gain in 1993," JEI Report, No. 13B (Washington, DC: Japan Economic Institute, Apr. 1, 1994), pp. 2-3, and Ostrom, "Japan's Economy Ekes Out Small Gain in 1994," p. 2.

Further, although Japanese merchandise trade data are not available in real terms, the nominal yen merchandise trade surplus (customs-clearance basis) with the world continued to decline, for the second straight year, by 9,829 hundred million yen in 1994 to 123,932 hundred million yen, following a 1,088 hundred million yen drop in 1993 to 133,761 hundred million yen. Despite the dip in the nominal yen merchandise trade surplus with the world in 1993 and 1994, Japan's surplus with the United States continued upward in those years, albeit in smaller amounts, rising by 487 hundred million yen in 1994, and by 717 hundred million yen in 1993. Economic Section, Embassy of Japan, Washington, DC. See also Douglas Ostrom, "Japan's Trade," pp. 2-3. ⁴⁶ 1994 National Trade, p. 141.

Table 2-13
Leading increases in U.S. imports from Japan, 1993-94

	Increase in 1994—		
Industry/commodity	Value	Percent	Total value in 1994
	Million dollars		Million dollars
Automobiles, trucks, and buses	3,400	12.2	31,241
Computers	2,017	15.6	14,874
Diodes and other semiconductor devices	1,870	32.3	7,649
Steel mill products	506	38.6	1,814
Motor vehicle engines	413	18.7	2,619
Certain motor vehicle parts	407	10.7	4,201
Certain motor vehicle parts	274	26.4	1,313
Construction and mining equipment	261	30.1	1,126
Farm and garden machinery and equipment	256	49.3	776
other industrial machinery	244	12.0	2,274
storage batteries	193	36.5	719
analyzing instruments	169	14.9	1,300
Photographic camera and equipment	152	16.6	1,063
All other	1,207	2.7	46,565
Total	11,369	10.7	117,532

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

Table 2-14 Leading increases in U.S. exports to Japan, 1993-94

	Increase in 1994—		
Industry/commodity	Value	Percent	Total value in 1994
	Million dollars		Million dollars
Automobiles, trucks, and buses	848	76.2	1,961
Aircraft, spacecraft, and related equipment	526	18.7	3,326
	427	14.5	3,364
Radio transmission and reception apparatus	343	124.8	618
Diodes and other semiconductor devices	309	28.5	1,392
Medical goods	222	20.6	1,297
Semiconductor equipment, robots, and certain			,
other industrial machinery	211	39.4	747
Measuring, testing, controlling, and			
analyzing instruments	211	20.4	1,242
Cigarettes, cigars, and tobacco	195	12.2	1.795
Certain motor vehicle parts, including engines	125	16.5	883
Furniture and selected furnishings ¹	121	106.8	235
Boilers, turbines, and related machinery	103	185.0	158
	100	8.1	1,329
Beef Cereals ²	99	4.3	2.374
	1,175	4.0	
All other	1,175	4.0	30,339
Total	5,016	10.9	51,061

¹ Virtually all leather seat covers for motor-vehicles, which were reexported to the United States in finished vehicles. ² U.S. exports of rice increased by \$224 million to \$238 million, caused by a serious shortfall in domestic production. Exports of certain other cereals decreased. Japan agreed in the Uruguay Round to begin to import rice. Source: Compiled from official statistics of the U.S. Department of Commerce.

Japan exported eight times as much to the United States as the United States exported to Japan in selected auto parts and engines in 1994, with Japan's exports to the United States growing by \$820 million to \$6.8 billion while U.S. exports to Japan increased by \$125 million to \$883 million.

In aggregate, motor vehicles and selected parts (including vehicles such as trucks, buses, and motorcycles) accounted for 32 percent (\$38.1 billion) of Japan's total exports to the United States in 1994, but only 6 percent (\$2.8 billion) of U.S. exports to Japan. In addition to passenger cars and selected parts, U.S. imports of tractors, trucks, and construction vehicles also grew significantly in 1994, rising by \$636 million to \$3.1 billion.

In sharp contrast to the persistent bilateral trade deficit endured by the United States with Japan in the motor vehicles and parts sector, the United States continues to enjoy a trade surplus with Japan in aircraft, jet engines, and other aircraft parts. U.S. exports to Japan in the aircraft sector grew by \$599 million in 1994 to \$4.0 billion (8 percent of total exports to Japan), while imports from Japan rose by \$88 million to \$600 million, for a 7-to-1 U.S. trade surplus.

Two-way trade in computers and semiconductor devices continued to flourish in 1994, albeit to Japan's advantage, as the industries in each country found receptive market niches in the other country. U.S. imports grew by \$3.9 billion to \$22.5 billion, accounting for 19 percent of total U.S. imports from Japan in 1994; while U.S. exports climbed by \$736 million to \$4.8 billion, or 9 percent of total exports to Japan. Other top U.S. export performers in 1994 were manufacturing equipment, cellular telephones, medical goods, and cigarettes. Other leading export gainers from Japan to the U.S. market were manufacturing equipment, steel, batteries, and photographic equipment. For the most part, growth in U.S. imports from Japan reflects the continued strength of the U.S. economy while the typically smaller rise in U.S. exports represents the turnaround in expansion in GDP in Japan.⁴⁷

There were only a limited number of significant aberrations to the trend toward expansion in U.S.-Japan trade. The most important of these was a \$1.2 billion drop (46 percent) in Japanese exports of games to the United States, to \$1.4 billion as the world video game market caught its breath prior to the next anticipated round of technological innovations and price increases. Other big decreases in U.S. imports from Japan were tape, record, and compact disc players, by \$212 million (9 percent), and stereo receivers and other radio transmission and reception apparatus, by \$163 million (10 percent). The most significant reductions in U.S. exports to Japan in 1994 were petroleum, by \$205 million (37 percent), leather and hides, by \$154 million (37 percent), and oilseeds, by \$135 million (14 percent).

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China

The U.S. merchandise trade deficit with China grew by \$6.6 billion to \$29.4 billion in 1994, compared with a \$4.6 billion expansion to \$22.8 billion in 1992, continuing the widening of the deficit with China begun in 1984.⁴⁸ The U.S. trade deficit with China in 1994 was surpassed only by that with Japan (\$66.5 billion).⁴⁹ The rate of increase in U.S. exports to China slowed notably in 1994 to 6 percent, a growth of \$559 million to \$9.2 billion, down from a 17 percent (\$1.3 billion) expansion to \$8.6 billion in 1993. In contrast, U.S. imports from China increased at the same rate as in 1993, by 23 percent (\$7.1 billion) to \$38.6 billion.⁵⁰ Furthermore, the value of U.S. imports from China rose from roughly 3.6 times the value of U.S. exports to China in 1993 to 4.2 times the value of U.S. exports in 1994. The slowdown in the rate of increase in U.S. exports to China was surprising since China had enjoyed three consecutive years of very high growth in real GDP: 12.8 percent in 1992; 13.4 percent in 1993; and 11.8 percent in 1994.51 This rapid GDP

⁴⁹ The trade deficit with China accounted for 17 percent of the \$176.0 billion total U.S. merchandise trade deficit in 1994, compared with 17 percent of the \$135.6 billion in 1993 and 18 percent of \$100.1 billion in 1992.

⁵⁰ China accounted for the fourth-largest bilateral increase in the value of U.S. imports in 1994 and the seventeenth-largest increase in the value of exports. It ranked fourth as a source of U.S. imports and fourteenth as a market for exports in 1994. Total U.S. trade with China amounted to \$47.8 billion in 1994, ranking it as the sixth-largest U.S. trading partner, up from its seventh-largest partner in 1993.

⁴⁷ The United States has encouraged Japan in recent years both in the United States-Japan Framework for a New Economic Partnership and in other specific industry "Arrangements" and talks to import more U.S. products in many of the industry/commodity groups in which the United States experienced its greatest increases in exports in 1994, including wood products, motor vehicles and parts, semiconductors, medical devices, and telecommunications equipment. See *1994 National Trade*, pp. 142, 147-149, 151-152, 156-160, 176-179, and 180-183.

⁴⁸ This bilateral trade deficit increase was the largest the United States had with any country in 1994. Based on Chinese data, the United States was the second-largest market, behind Hong Kong, for Chinese exports and the third-largest source, behind Hong Kong and Japan, of imports in 1993. *EIU, Country Report: China/Mongolia*, 1st quarter 1995 (London, 1995), p. 50.

⁵¹ Real GDP in 1980 prices. Real GDP increased from 1.44 trillion renminbi in 1993 to 1.61 trillion renminbi in 1994. "PRC State Statistical Bureau Statistical Communique on the 1994 National Economic and Social Development (Feb. 28, 1995)," *Daily Report: China* (Hong Kong: Foreign Broadcast Information Service (FBIS), 1995), FBIS-CHI-95-044, Mar. 7, 1995, p. 41. See also, *Country Reports*, 1995, pp. 40-41. The comparable 1994 report stated that some estimates based on a purchasing-power-parity comparison basis suggest that China has the third-largest economy in the world. Thus, it concluded, as foreign investment in China reached record levels in 1992-93, "many foreign firms see China as a key

growth was led by an even faster rise in Chinese exports, which jumped by 32 percent (\$29.2 billion) to \$121.0 billion in 1994. Meanwhile, China's imports grew at a more moderate pace, increasing by only 11 percent (\$11.9 billion) to \$115.9 billion in 1994, compared with a sharp increase of 29 percent (\$23.4 billion) to \$104.0 billion in 1993. The resulting \$5.1 billion surplus was a sharp reversal of the overall merchandise trade deficit of \$12.2 billion it experienced in 1993, China's first deficit since 1989.⁵²

The high growth rate of total Chinese exports was attributed to two primary factors. First, prior to 1994, foreign-invested enterprises incurred a large trade deficit because of rapidly increasing investment in plant, equipment, raw materials, and semifinished products required to begin operations. The deficit shifted in 1994 as these firms began to fulfill the requirement to export 80 percent of their output that most of these firms incurred as a condition to invest in China. Such firms accounted for 37 percent (\$87.7 billion) of total Chinese trade in 1994, up 31 percent from 1993. Second, the merging of the dual exchange rate system into one on January 1, 1994, resulted in a devaluation of as much as 30 percent of the renminbi against the U.S. dollar.⁵³ However, this change occurred in early 1994, and, by the end of 1994, the renminbi had appreciated slightly, leading to speculation that the rate of increase of Chinese exports would slow in 1995.54

A number of factors may explain the lackluster rate of growth of U.S. exports to China. The significant and pervasive controls over and barriers to entry of imports maintained by the Chinese Government may provide some of the explanation. The USTR noted in 1995 that

⁵² "Statistical Communique of the State Statistical Bureau of the People's Republic of China on the 1993 National Economic and Social Development (Feb. 28, 1994)," China Economic News (Hong Kong), Supplement No. 3, Mar. 14, 1994, p. 1, and "PRC State Statistical," *Daily Report: China* (Hong Kong), p. 44. However, the USTR stated, Chinese export data "may significantly understate" the value of Chinese exports because such exports are routinely calculated using a value-added method rather than internationally accepted accounting methods. 1995 National Trade, p. 47. This would mean that China may have an even greater trade surplus. Certain other observers have questioned the reliability of China's data on real GDP (it may have been overstated by about 4 percentage points in 1993 and 1994) and on prices. EIU, "Stagflationary Spectre," *Business China*, vol. 21, No. 8, Apr. 17, 1995, pp. 1-2, and EIU, "Everything Is Not What It Seems With China's Inflation Figures," *Business China*, vol. 21, No. 4, Feb. 20, 1995, pp. 3-4. For more detailed data on China's foreign trade in 1994, see "China's I/E Trade in 1994 Totaled US\$236.7 Billion," China Economic News (Hong Kong), vol. 16, No. 6, Feb. 13, 1995, p. 9.

⁵³ EIU, *Country Report*, 1st quarter 1995, p. 25.

China has made significant progress under the terms of the October 10, 1992, Memorandum of Understanding on Market Access that China signed with the United States. The memorandum committed China to dismantle 90 percent of its nontariff import restrictions over 5 years and to lower tariffs on a large number of goods.⁵⁵ The 1995 USTR report noted that "nonetheless, at present, China still uses an intricate system of tariff and non-tariff administrative controls to implement its industrial and trade policies."56 Such controls include import licenses, a complex and sometimes arbitrary import approval process (including lack of transparent public access to it), quotas and/or restrictions (often unpublished), a general lack of transparency of its trade regime, high and "prohibitively high" tariffs, tariffs that vary for the same product, additional taxes, foreign exchange controls, the use of standards and certification requirements to ban imports or to make them less competitive with Chinese products, indirect subsidies to exports, lack of protection of intellectual property, and industrial policies aimed at protecting and fostering domestic industry. The last named practice, import substitution, directly contradicts China's claim that it had eliminated all import substitution regulations, guidance, and policies and that it would not engage in such practices in the future.⁵⁷ However, in July 1994, China issued the Automotive Industrial Policy, placing local content requirements on the automobile industry. Strict local-content requirements mandate that Chinese auto parts be used "whether comparable or not in quality or price."58

The rate of expansion of U.S. exports to China may also have been slowed by efforts of the Chinese Government to restrain the rate of growth of inflation. The Chinese economy experienced a sharp increase in inflation in 1993 that continued in 1994 caused by the combination of rapid growth of GDP, the freeing of some domestic prices, and the pressure to raise some domestic prices to world prices as China implemented agreements to open its economy.⁵⁹ The bulk of the products exported from

⁵⁸ 1995 National Trade, p. 52. See also, Country Reports, 1995, p. 43. The latter also stated that "in the 'Framework Industrial Policy for the 1990s,' the government announced plans to issue industrial policies for the following other sectors: telecommunications and transportation, machinery and electronics, construction, foreign trade, investment and, possibly, textiles."

⁵⁹ The cost of living for households increased overall by 14.7 percent in 1993 and by 24.1 percent in 1994, while that for households in 35 large and medium cities jumped by 19.6 percent and by 24.8 percent, respectively. Producers' prices of manufactured products increased by 24.0 percent in 1993 and by 19.5 percent in 1994. "Statistical Communique," *China Economic News* (Hong Kong), pp. 4-5, and "PRC State Statistical," *Daily Report: China* (Hong Kong), p. 44. In late 1993 and early 1994, observers noted that continued lack of control over fiscal and monetary policy tools threatened continued and further opening of the Chinese

⁵¹—Continued

growth market." *Country Reports*, 1994, pp. 42-43. The USTR stated that "China is now the fastest growing major economy in the world." *1995 National Trade*, p. 47.

⁵⁴ "A Hopeful Returning to the Foreign Trade," *China Economic News* (Hong Kong), vol. 16, No. 8, Feb. 27, 1995, p. 1.

⁵⁵ 1994 National Trade, pp. 44-45; Country Reports, 1994, p. 45; and 1995 National Trade, p. 48.

⁵⁶1995 National Trade, pp. 47-59 and 63-64. See also, Country Reports, 1995, pp. 42-46.

⁵⁷ 1994 National Trade, pp. 48-49; Country Reports, 1994, pp. 43-45.
⁵⁸ 1995 National Trade, p. 52. See also, Country

China to the United States in 1994 continued to be consumer goods, many of which were made in factories that benefited from foreign investment, often in the form of joint ventures between Asian, U.S., or other foreign producers and Chinese manufacturers. Foreign investors are attracted to China both (a) to take advantage of low labor costs in the production of those goods that require labor-intensive manufacturing, quality control, or packaging operations and (b) to gain access to what is expected to become the largest consumer market in the world. These goods can be further categorized as sewn goods. electronic products, and miscellaneous low-technology products. Chief Chinese exports to the United States in the sewn goods category are footwear, apparel, luggage, handbags, and dolls. Electronic products include stereo, radio, telephone, computer equipment, lamps, and video game software. China is also a leading supplier to the U.S. market of other goods that involve low-technology manufacturing processes and fairly simple assembly such as toys, Christmas decorations, artificial flowers, and certain types of sporting goods and furniture. Table 2-15 ranks industry/commodity groups based on the leading increases in the value of U.S. imports from China in 1994.

Unlike U.S. exports to China, where large, year-to-year shifts in trade have tended to be concentrated in a few industry/commodity groups, shifts in U.S. imports from China have been spread across a broad array of groups, in part reflecting the much larger total magnitude of imports. Increased imports of these products reflects both the robust growth of the U.S. economy and the relatively low prices of goods made in China. The only industry/commodity group that recorded a major decrease in U.S. imports from China in 1994 was shirts and blouses, which dropped by \$271 million (16 percent) to \$1.5 billion.

Because of Chinese Government control over the composition of imports, U.S. exports to China tend to be goods that can be used in improving China's infrastructure (such as transportation and communications) or that can assist in enhancing production (such as machinery, components, raw materials, and chemicals). There was a significant shakeup in the composition of U.S. exports to China in 1994 with major decreases in exports of manufactured goods and significant increases in exports of certain commodities. Sharply reversing a decreasing trend begun in 1992, U.S. exports of fertilizers and cotton both jumped significantly in 1994.⁶⁰ Fertilizers increased by

\$652 million (223 percent) to \$944 million; and cotton, by \$645 million, from \$179,000.⁶¹ Soybean oil increased from only \$270,000 to \$104 million. In contrast, U.S. exports to China of cars and trucks decreased sharply in 1994, after having increased steeply in both 1992 and 1993. Exports fell in 1994, by \$424 million (68 percent) (nearly as much as they increased in 1993), to \$200 million in 1994.⁶² U.S. exports of aircraft also dropped significantly after 2 straight years of large increases, falling much more than the 1993 increase, by \$393 million (18 percent) to \$1.8 billion.⁶³ U.S. exports of refined petroleum and wheat also fell in 1994, refined petroleum by \$185 million (74 percent) to \$65 million and wheat by \$108 million (39 percent) to \$166 million.

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Korea

Classified as one of the ten "Big Emerging Markets" in 1994 by the U.S. Department of Commerce,⁶⁴ Korean merchandise trade with the United States increased in a number of sectors that same year. Korean economic policies in the postwar era have used government intervention to spur rapid export-led development and maintain protection of domestic industries. Recently, however, pressure from the international trading community, including the United States,65 has encouraged efforts to liberalize the trade and investment regime in this traditionally agrarian yet aggressively entrepreneurial society. President Kim Young-Sam announced a 5-year economic plan in July 1993 for a "New Economy" that envisions wide-ranging economic deregulation and liberalized domestic economic and international trade policies. Even though the implementation of key market reforms is not scheduled until 1996 and 1997, moderate efforts to date to reduce trade barriers, liberalize the tax structure, encourage foreign investment, and increase consumer spending, are reflected in the growing merchandise trade volume between the United States and Korea. Korea is the sixth-largest market for U.S. exports, and the eighth-largest supplier of goods to the U.S. market.

⁵⁹—Continued

market to imports. *1994 National Trade*, p. 43; *Country Reports*, 1994, pp. 43-44. China had still not gained sufficient control over these tools in 1994. *Country Reports*, 1995, pp. 41-42.

⁶⁰ Fertilizers dropped by \$337 million (53 percent) to \$293 million; and cotton, by \$186 million (nearly 100 percent) to \$179,000 in 1993.

⁶¹ See articles on fertilizers and cotton later in this report for a discussion of factors affecting demand for these products in China.

 $^{^{62}}$ Such imports rose by \$474 million (315 percent) to \$624 million in 1993. See the discussion above in this section of China's import substitution policy on the automobile industry announced in July 1994.

⁶³ Such exports increased by \$263 million (13 percent) to \$2.6 billion in 1993.

⁶⁴ The other nine Big Emerging Markets are Argentina, Brazil, the Chinese Economic Area (including Hong Kong and Taiwan), India, Indonesia, Mexico, Poland, Turkey, and South Africa.

⁶⁵ The major U.S. trade consultation mechanism with Korea for discussing economic issues is the Dialogue for Economic Cooperation (DEC). The DEC was announced by President Clinton and President Kim during the U.S.-Korea summit in July 1993.

Table 2-15	
Leading increases in U.S. imports from China, 1	993-94

	Increase in 1994—		
Industry/commodity	Value	Percent	Total value in 1994
	Million		Million
	dollars		dollars
Footwear	749	16.6	5,254
Computers	525	72.9	1,245
Radio transmission and reception apparatus	507	53.6	1,455
Telephone and telegraph apparatus	396	58.9	1,068
recorders, turntables, and compact disc players	393	140.2	673
Toys and models	342	14.1	2.760
Leather apparel and accessories	258	55.9	720
Furniture and selected furnishings	251	50.4	748
Luggage, handbags, and flat goods	242	18.5	1,552
Sporting goods	235	60.6	623
Lamps and lighting fittings	234	38.7	840
Miscellaneous rubber or plastics products	232	27.3	1.080
Games	209	60.2	556
Miscellaneous articles	185	18.4	1,191
Office machines	126	59.3	337
Microphones, loudspeakers, and audio amplifiers	112	70.3	271
Dolls	103	18.5	655
connecting electrical circuits	102	52.2	296
All other	2,387	14.5	18,807
Total	7,147	22.7	38,572

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

The Korea Development Bank (KDB) reports that worldwide economic recovery in 1994 contributed to brisk economic activity in Korea and boosted its GNP growth rate to 8.2 percent, up from 5.8 percent in 1993. According to the KDB, after stagnating in 1993 because of government policies designed to cool inflation, facility investments, which Korea considers essential for invigorating international competitiveness and expanding the economy's growth potential, rose by 23 percent in 1994. Aggressive facility investments in electrical equipment and electronics, motor vehicles, and shipbuilding led the investment surge.⁶⁶ The increasing growth rates also helped buoy demand for U.S. products, as well as narrow the U.S. merchandise trade deficit slightly, to \$2.0 billion in 1994, from \$2.6 billion in 1993.

Korea's main imports are machinery, electronics and electrical equipment, oil, steel, transport equipment, and organic chemicals. Japan, the United States, and the EU provide the majority of Korea's total imports (26, 24, and 15 percent, respectively).⁶⁷ Total U.S. exports to Korea were valued at \$17.5 billion in 1994, up 22 percent from 1993 (\$14.4 billion). Machinery and parts comprised the bulk of the increase, totaling \$3.2 billion in 1994, up 37 percent from the 1993 total of \$2.4 billion. Driving the boost in exports was a sharp rise in machinery used in manufacturing and related activities. Table 2-16 shows other notable increases in U.S. exports to Korea in 1994.

A number of infrastructure projects have helped spur demand for imports in Korea. For example, for the period 1994-2004, the government has allocated \$20 billion to expand its superhighways, \$12.5 billion for new port construction and expansion, and \$15 billion to build a international airport in Seoul. In new the telecommunications field, there is a \$1.4 billion cellular project, as well as a \$500 million cable TV project. The government also plans to spend an additional \$50 billion on nuclear, coal, and combined cycle power projects by the end of the decade. Environmental projects include \$3.8 billion for incineration plants, \$8.1 billion for waste water treatment plants, and \$230 million for the Kimpo landfill construction project. In the oil and petrochemical field, projects include a \$20.5 billion expansion of the existing domestic natural gas pipeline system and \$20.4 billion for new oil refineries.⁶⁸

The main exports of Korea include electronics and electrical equipment, machinery, steel, automobiles, ships, and textiles. Its major export markets are the United States, Japan, and the EU accounting for 26, 17, and 15 percent of total exports, respectively.⁶⁹ Total U.S. imports from Korea increased from \$17 billion in 1993 to \$19.5 billion in 1994 (15 percent).

The largest import category, integrated circuits, microassemblies, and other electronic parts, which constituted 20 percent (\$3.9 billion) of the total, experienced a 59-percent increase, from \$2.4 billion to \$3.9 billion. Automobile imports nearly doubled,

⁶⁶ The Korea Development Bank, *KDB in the World: The Korean Development Bank 1994 Annual Report*, (Seoul: Korea Development Bank, Mar. 1995), pp. 8-9.

⁶⁷ U.S. Central Intelligence Agency, *World Factbook*, 1994.

⁶⁸ William R. Golike, Korean desk officer, U.S.

Department of Commerce, "South Korea-This Big

Emerging Market," Business America, Mar. 1994.

⁶⁹ Central Intelligence Agency, World Fact Book, 1994.

Table 2-16
Leading increases in U.S. exports to Korea, 1993-94

Product	Increase in 1994		
	Value	Percent	Total value in 1994
	Million dollars		Million dollars
Cellular telephones and other telephone equipment	383	115	715
Aircraft engines and other parts Integrated circuits and microassemblies Wood pulp	351 309 132	67 35 44	873 1,186 431
Corn	200	377 46	253 272
Computers and peripherals	123 1,292	34 11	487 13,284
Total	3,141	22	17,499

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

jumping by \$729 million to \$1.5 billion. Korea became the fifth-largest motor vehicle manufacturer in the world in 1994, yet it imported less than 0.3 percent of the cars sold in its national market.⁷⁰ Imports of parts of computers and other office machines also took off in 1994, increasing by \$456 million (61 percent) to \$1.2 billion, as Korea asserted itself as a player in the world market for high-tech products.

By contrast, Korea's exports of low-technology, labor-intensive products dropped off in 1994 reflecting the continuing re-orientation of Korean industry. For example, U.S. imports of footwear from Korea dropped by \$345 million (33 percent) in 1994 to \$689 million. Imports of leather apparel fell by \$220 million (43 percent) to \$292 million. In both sectors, some Korean producers have shifted production to China and Indonesia where labor costs are significantly lower.

Korea has taken steps to expand foreign trade. A number of Korea's policies are aimed specifically at promoting exports. New export promotion policies and financial support programs were announced in 1993 and 1994 to support existing programs of tax breaks, duty rebates, loans, and special depreciation allowances intended to support Korea's export industries. The government has offered development loans with below-market rates and attractive payment plans in order to stimulate and fund technology development among small and medium-size firms.⁷¹

On the import side of the trade equation, a 5-year tariff reduction plan that ended in January 1994, achieved its objective of an average 7.9-percent tariff rate. The initial average rate was 12 percent. Korea also ratified the Uruguay Round Agreement (URA), and as such is committed to further reducing tariffs on over 30 agricultural products of primary export interest to the United States, such as vegetable oils and meals, processed potatoes, mixed feeds, feed corn, fruits, nuts, popcorn, frozen french fries and breakfast cereals.⁷² Effective January 1995, Korea began phasing out tariffs on most or all products in the paper, toys, steel, semiconductor and pharmaceuticals sectors in compliance with the URA.⁷³ Also in 1995, Korea was to begin allowing rice imports of up to 1 percent of domestic consumption.

Although formal barriers to imports have been reduced, according to the U.S. Department of State, Korea has raised more subtle secondary barriers that effectively prevent the widespread liberalization that was envisioned under major trade initiatives of the late 1980s. Korea maintains more than 18 "individual laws" that allow relevant ministries to make certain products subject to a "recommendation" that can result in a quota or a ban. Its URA ratification has committed Korea to phasing out these laws. Still, the U.S. Department of State noted, Korean safeguard regulations permit the government to impose special "emergency tariffs" of up to 100 percent on imported goods to protect the domestic industry. The State Department also reported that restricting the ability to import on credit is one of the most pervasive remaining formal barriers for U.S. exports to Korea. U.S. firms estimate that they could increase exports by up to one-third if Korean firms were allowed to buy on credit.⁷⁴ The State Department commented that "the government has done little to educate a public accustomed to a closed domestic market on the benefits of imports, particularly to consumers. Most Koreans have been taught that imports are, by definition, luxury goods. The government has encouraged regular 'frugality campaigns' against over-consumption that hit consumer imports particularly hard." Furthermore, domestic industry often pressures the government to restrict the activities of foreign firms.⁷⁵ The Korean

⁷⁰ USTR, 1995 National Trade Estimate, pp. 215-216.

⁷¹ Ibid.

⁷² Ibid.

⁷³ Korea became a founding member of the World Trade Organization on January 1, 1995.

⁷⁴ U.S. Department of State, *Country Reports*, Feb. 1995, pp. 68-69.

⁷⁵ Ibid, pp. 69-70.

Government hopes that progression on this track will facilitate its eventual admission to the Organization for Economic Cooperation and Development.

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Malaysia

The U.S. merchandise trade deficit with Malaysia widened markedly in 1994, rising by \$2.5 billion to a new high of \$7.3 billion. The increase was substantially greater than the increase in 1993 of just under \$600 million, or that in 1992 of \$1.8 billion. The deficit worsened in 1994 because of a sharp increase in imports, mainly in electronic and electrical products, and a slowdown in export growth, largely due to a big decline in aircraft sales. U.S. imports grew by \$3.4 billion (32 percent) to a total of almost \$13.9 billion, after rising by \$2.3 billion (28 percent) in 1993. U.S. exports expanded by \$858 million (15 percent) to a level of \$6.6 billion in 1994, after advancing by \$1.7 billion (42 percent) a year earlier.

The United States is one of Malaysia's most important trading partners. In 1994, the United States supplied 17 percent of Malaysia's imports, second only to Japan with 27 percent of the total. The United States also continued to be the largest market for Malaysian exports, accounting for more than 21 percent of the exports, followed by Singapore with just under 21 percent and Japan, a distant third at 12 percent.⁷⁶

Exports have contributed significantly to the economic growth that has taken place in Malaysia in the years following the 1985-86 recession. They accounted for 80 percent of the Malaysia GDP, which grew by 8.7 percent in real terms in 1994, after having expanded by an average annual rate of 8.3 percent in 1987-93.77 Malaysia's exports in 1994 rose by 26 percent to an estimated \$59 billion (f.o.b.), bringing the average annual growth in postrecession exports to 18.6 percent. Malaysia's imports posted an even greater gain, rising by 31 percent to about \$60 billion (c.i.f.), with postrecession growth averaging 24 percent a year.⁷⁸ Three-fourths of the 1994 exports came from the manufacturing sector, a substantial portion of which is controlled by multinational firms. U.S. and Japanese companies dominate the production of electronic and electrical products, which accounted for roughly one-half of

Malaysia's exports in 1994. Capital and intermediate goods accounted for 85 percent of the imports that year. This investment spending is of particular importance for U.S. exports because capital goods have become an increasingly important component of U.S. exports.

The pace of economic growth in Malaysia has, however, led to an increasingly tight labor market and rising labor costs. With manufacturing wages rising by 13 percent in 1993, Malaysia's competitive advantage of relatively low labor costs is becoming more difficult to maintain. To sharpen its competitive edge, Malaysia has increased government funding of higher education and industrial training in an effort to upgrade labor skills. Malaysia's ability to sustain strong export growth in the future will depend not only on the level of global economic activity, but more importantly on its success in attracting new foreign investment and shifting the manufacturing base to higher technology and value-added products.⁷⁹

The growth in U.S. imports from Malaysia in 1994 was largely in electronic and electrical products, which rose by \$1.8 billion (30 percent) to \$8 billion. A large part of these imported products, (57 percent of total imports from Malaysia) consisted of intracompany trade among U.S. firms with assembly facilities there. Within the electronic sector, the major import increases were in integrated circuits and microassemblies, up \$658 million (27 percent) to \$3.1 billion; reception apparatus for radio telephony, up \$319 million (32 percent) to \$1.3 billion; television receivers, up \$142 million (49 percent) to \$432 million; video recording and reproduction apparatus, up \$109 million (18 percent) to \$727 million; and semiconductor devices, up \$58 million (16 percent) to \$411 million.

Once again, intense price competition in the United States for computer equipment was the most important factor contributing to a large, \$781 million (63 percent) increase in U.S. imports of computer equipment from Malaysia. A substantial part of this growth is attributed to rapid increases in imports of disk storage devices, which rose by \$259 million (48 percent) to \$802 million; and personal computers, including peripheral devices, which nearly doubled to \$553 million. Other imports showing significant gains included parts of computers and other office machines, which rose by \$161 million (76 percent) to \$372 million, and apparel products of vulcanized rubber, primarily surgical and medical gloves of latex rubber, which, after growing by 43 percent annually during 1990-93, increased by only 14 percent (\$48 million) to \$402 million in 1994. Imports of all apparel from Malaysia, including these surgical and medical gloves, totaled just over \$1 billion in 1994.

The 1994 slowdown in export growth to Malaysia was concentrated in aircraft. U.S. exports of aircraft, mainly large civilian aircraft, declined by \$565 million (40 percent) to \$841 million after having grown by 59

⁷⁶ The information in this paragraph is from U.S. Department of State telegram, "Bank Negara 1994 Report: Malaysia's Economy Continues to Glow," message reference No. 002292, May 4, 1995.

⁷⁷ Data for 1994 from U.S. State Dept., "Bank Negara 1994 Report;" other data from The World Bank, *Trends in Developing Economies - 1994*, Washington, DC, p. 304.

⁷⁸ Trade data for 1994 based on estimated data in "Bank Negara 1994 Report." Growth rates for 1987-93 based on trade data in United Nations, *Monthly Bulletin of Statistics*, Mar. 1995, p. 116.

⁷⁹ U.S. Department of Commerce, International Trade Administration, "Malaysia: Economic Trends and Outlook," National Trade Data Bank—The Export Connection, Dec. 26, 1994.

percent a year in 1990-93. However, U.S. exports of all other goods to Malaysia continued their strong growth, increasing by 33 percent (\$1.4 billion) to almost \$5.7 billion. U.S. exports of electronic products jumped 42 percent, gaining \$1.0 billion to \$3.4 billion. A large part of these exports was destined for U.S. multinational corporations, where value was added, and then re-exported, often back to the United States. Within the electronic sector, U.S. exports of integrated circuits and microassemblies rose by \$817 million (47 percent) to \$2.6 billion; electric generating sets and rotary converters more than doubled to \$113 million; and semiconductor devices rose by \$31 million (13 percent) to \$285 million. Other significant increases in U.S. exports to Malaysia in 1994 included parts of computers and other office machines, up \$100 million (91 percent) to \$211 million; and computers and peripherals, up \$30 million (42 percent) to \$102 million.

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Germany

The German economy is the largest in Europe, with an estimated annual GDP of \$1.9 trillion in 1994, accounting for nearly 30 percent of total EU production of goods and services. Germany's economy exhibited signs of a vigorous recovery in 1994. The country's GDP grew by 3 percent in 1994, compared with a 1-percent decline in 1993.⁸⁰ This reversal signaled the end of a steep recession (1990-93), during which investment in research and development dropped sharply and public consumption stagnated. The recession was largely attributable to the \$100 billion annual cost associated with the reconstruction of Eastern Germany. The reconstruction expense was largely financed by transfers from the western part of the country, which was heavily burdened by this resource drain.⁸¹

Despite clear manifestations of a growing economy in 1994, certain structural weaknesses in Germany remained, such as relatively high unemployment, which has been fueled by high wages and restrictive labor practices. Studies have shown that wages and benefits in German manufacturing industries are, on the average, more than 50 percent higher (in dollar terms) than wages and benefits in the United States.⁸² In addition, as an

economy that has been relying mainly on traditional manufacturing industries, Germany is regarded as having been somewhat slow in moving to high-technology industries, such as microelectronics and biotechnology. As a result, competitiveness in high-technology processes and equipment has become a major issue for German industry and government.⁸³

Germany is the world's second-largest exporting country, behind the United States. Total exports exceeded \$400 billion in 1994, and are expected to rise to \$450 billion in 1995.⁸⁴ The United States has recorded trade deficits with Germany during the past 10 years. Despite an approximately 15-percent drop in the exchange value of the U.S. dollar vis-a-vis the German mark in 1994, increased U.S. demand for German-made goods and services promoted the widening of the longstanding U.S. merchandise trade deficit with Germany between 1993 and 1994 by an additional \$3.2 billion to \$13.4 billion. A \$3.5 billion (12-percent) rise in U.S. imports to \$31.6 billion in 1994 overwhelmed a smaller increase in U.S. exports to Germany that year.

The increase in U.S. imports from Germany was led by entries of motor vehicles and parts, which together accounted for nearly 22 percent of the annual total from Germany in 1994. U.S. imports of motor vehicles from Germany increased because of stronger sales of automobiles in the U.S. market. German automakers (particularly Volkswagen) also introduced new model lines that were able to attract both traditional and new U.S. consumers.

The largest percentage increase in U.S. imports for all product groups in the transportation sector was recorded in aircraft and related products, which rose by \$152 million in 1994 (594 percent) to \$178 million. The increase reflected shipments of about a dozen commuter aircraft manufactured by Dornier that were ordered by U.S. airlines. U.S. imports of aircraft parts from Germany also increased, rising by \$124 million (37 percent) in 1994 to \$457 million. A large portion of these imports were spare parts associated with the above mentioned commuter aircraft.

Expanded two-way trade in computer and electronic products reflected globalization in these industries and was further stimulated by reduced trade barriers. For example, U.S. imports of office machine parts (mostly parts of personal computers and word processors) from Germany rose by \$93 million (46 percent) in 1994 to \$298 million, while U.S. exports of these products to Germany also increased, advancing by \$122 million (13 percent) in the same year to \$1.1 billion. Similarly, U.S. imports of integrated circuits and other microelectronic components increased by \$146 million (67 percent) in 1994 to \$365 million, while U.S. exports of these products rose by \$60 million (19 percent) to \$374 million in the same year. The growth in exports of integrated

⁸⁰ "The Economic Situation in the Federal Republic of Germany," *Monatsbericht*, Jan. 1995, p. 1.

⁸¹ According to German Embassy sources, Treuhandanstalt, the institution primarily responsible for privatizing state-owned assets of the East German economy, largely implemented its goals and ceased its activities at the end of 1994. USITC staff telephone interview with an official of the German Embassy in Washington, DC, May 11, 1995.

⁸² Average hourly compensation costs for manufacturing employees in 1993 was \$25.71 in Germany, compared with \$16.73 in the United States. U.S. Bureau of Labor Statistics, Office of Productivity and Technology, *International Comparisons of Hourly Compensation Costs for Production Workers in Manufacturing, 1991-93*, Nov. 1994.

⁸³ U.S. Department of Commerce, U.S. Global Trade Outlook: 1995-2000, Mar. 1995, p. 39.

⁸⁴ Ibid, p. 40.

circuits reflected continued pent-up demand in Germany for these items. Globalization also resulted in an increase in U.S. imports of pharmaceutical products from Germany by \$88 million (53 percent) in 1994 to \$255 million, as German drug companies expanded shipments to their U.S. subsidiaries.

Despite the recovering German economy and a sharp decline in the value of the U.S. dollar against the German mark, U.S. exports to Germany were up only slightly in 1994, advancing by \$234 million (1 percent). Among the leading commodities exported, the largest increases were recorded in aircraft parts (e.g., engines and gas turbines) and precious metals (particularly gold bullion), which rose by 18 percent and 37 percent, respectively. U.S. exporters of these goods were able to take advantage of easing German trade barriers as a result of EU consolidation of trade policies.

At the same time, the rollback of U.S. defense commitments in Germany and reduced German Government procurement inhibited U.S. exports of aircraft and related equipment (both civilian and military), which declined by \$257 million (35 percent) to \$472 million in 1994. In addition, the softening of the increasingly crowded European automobile market caused U.S. exports of automobiles to decrease by \$153 million (18 percent) to \$682 million in 1994. Conversely, U.S. exports of vehicle parts increased slightly (5 percent) to \$622 million, almost exclusively for cars manufactured by the European subsidiaries of General Motors and Ford in Germany.

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Singapore

In order to survive and grow in global markets after gaining independence in 1965, the Republic of Singapore, an island city-state, has been a model of open-market policies that encourage trade and investment. Today, Singapore's open-market economy, based on political stability, corruption-free and pro-business environment, tax concessions for foreign investors, a skilled and disciplined labor force, and well-developed communications and transportation infrastructures, has attracted multinational investment from the United States and other countries.85 Despite its lack of natural resources and small domestic market, Singapore's real GDP has been growing since its independence.⁸⁶ In addition, Singapore has a compulsory national savings program and has maintained a budget surplus since the 1970s, building large capital reserves. Singapore's monetary policies

⁸⁵ U.S. Department of State, *Country Reports*, Feb. 1995, pp. 93-94. favor a strong currency in order to control inflation.⁸⁷ In addition, Singapore imports most of its production inputs, and the strong currency attracts competitively priced products. During 1994, Singapore's currency appreciated by 10 percent against the U.S. dollar. Trade policies allow almost all imports to enter Singapore free of duty,⁸⁸ and the government actively encourages but does not subsidize exports.

For over a decade prior to 1994, the United States was the second largest importer of Singapore's products, behind Malaysia. Although Singapore was the 10th-largest export market for the United States in 1994, the U.S. bilateral trade deficit with Singapore rose by almost \$1.5 billion between 1993 and 1994, according to official statistics of the U.S. Department of Commerce. The United States exported \$11.7 billion worth of goods and services to Singapore in 1994, an increase of 10 percent. Exports of semifinished data processing equipment and components and other electronic products comprised \$3.0 billion (25 percent) of total U.S. exports to Singapore in 1994. According to Singapore's Economic Development Board, the electronics sector in Singapore accounted for 42 percent of its total manufacturing value added and 12 percent of nominal GDP in 1994.89 Of the \$3.0 billion worth of electronic goods exported to Singapore, integrated circuits, microassemblies, and components totaled \$1.8 billion in 1994. Exports of computer equipment and components rose by over 31 percent in 1994 to \$0.7 billion. This includes items such as data storage devices (disk drives, for example), computer keyboards, monitors, printer units, and data input devices (optical scanners, for example). U.S. exports of other parts and accessories⁹⁰ for specific office machines accounted for \$0.5 billion of total exports to Singapore, an increase of 7 percent between 1993 and 1994.

Singapore's rapid growth in the aerospace industry, partly due to booming Asian-Pacific economies, has attracted foreign investment flows, making Singapore the hub for aircraft maintenance and repair in the region. The value of civilian and military aircraft, such as helicopters and fighter jets, and parts thereof that the United States exported to Singapore in 1994 exceeded

⁸⁶ According to the U.S. Department of State,

Singapore's economy experienced over 10 percent growth in real GDP in 1994.

⁸⁷ In order to reduce taxes on earnings in the long run, the government has lowered income taxes but has imposed a 3-percent consumption-based tax on most domestic and imported goods and services, effective April 1, 1994. The tax has contributed to Singapore's reaching its highest inflation rate of 3.5 percent since 1991. First quarter financial reports for 1995 indicate that the inflation rate has dropped to 2.5 percent, however.

⁸⁸ Singapore maintains substantial duties on cigarettes, alcoholic beverages, automobiles, and gasoline.

⁸⁹ U.S. Department of State telegram, "1995 Singapore Economic Trends Report," message reference No. 3767, prepared by the U.S. Embassy, Singapore, July 11, 1995.

⁹⁰ According to the explanatory notes of the *Harmonized Tariff Schedule (HTS)*, this includes form feed devices, automatic spacing devices, listing devices, auxiliary printing devices, etc. for typewriters, accounting machines, etc.

\$1.5 billion, almost 13 percent of total U.S. exports to Singapore during the year. U.S. multinational corporations in Singapore dominate the aerospace sector, and firms in the United States additionally supply most of Singapore's military hardware. Singapore's Ministry of Defense wants to develop indigenous defense capabilities to maximum capacity; and Singapore's defense spending equals about 6 percent of its GDP.⁹¹ The country has been upgrading its existing military hardware and has announced intentions to purchase F-16 fighters from General Dynamics. Singapore has also shown interest in purchasing other military equipment and technology.

Other U.S. exports of goods and services to Singapore were varied in 1994. Exports of mineral fuels, precision instruments used for scientific, specialized technical, and medical purposes, plastics and plastic articles, photographic and cinematographic goods, and tobacco totaled \$1.7 billion, almost 14.5 percent of total exports to Singapore in 1994. Exports of all other individual commodities were less than 1 percent of the total U.S. exports to Singapore.

Between 1993 and 1994, the value of U.S. imports from Singapore rose by 20 percent to \$15.3 billion. Imports of components and electronic products accounted for the largest share of total imports. Imported electronic goods totaled \$10.5 billion in 1994, almost 69 percent of total imports from Singapore. Of this \$10.5 billion, the United States imported \$6.0 billion worth of automatic data processing machines and parts, an increase of 13 percent from 1994. Multinational corporations dominate Singapore's industrial sector, and inter-plant transfers between countries account for nearly 75 percent of Singapore's export production.⁹² For example, U.S. companies in Singapore virtually monopolize disk-drive manufacturing in Singapore,⁹³ producing nearly half of the world's disk-drive output and typically re-exporting the finished merchandise to the United States. U.S. imports of other parts and accessories for office machines totaled \$2.5 billion, rising by 60 percent between 1993 and 1994. Electronic integrated circuits, microassemblies, and parts totaled \$2.0 billion, an increase of \$0.6 billion (45 percent) from 1993 import levels. The United States also imported miscellaneous other commodities from Singapore in 1994. Imports of precision instruments and organic chemicals totaled almost \$1 billion, or nearly 6 percent of total imports

from Singapore. Imports of any other individual commodity comprised less than 1 percent.

Singapore is expected to remain an important trading partner with the United States. The Singapore Government is targeting several areas as priorities for development. The dearth of local skilled labor has been forcing wages upward, raising costs for labor-intensive industries, such as textiles. As a result, incentives exist for companies to automate operations and move into "high-tech," high-value areas, such as biotechnology and information technology. In order to reduce its dependence on unskilled labor from abroad, now accounting for about 18 percent of its workforce,⁹⁴ the government limits the percentage of foreign workers that an industry may employ and imposes a monthly levy for each foreign worker. Plans for Singapore include developing partnerships with U.S. companies to pursue infrastructure projects in the region, inducing reluctant environmental companies from the United States to export their highly regarded technologies to Asia, and becoming an "intelligent island" by making information technologies widely pervasive in government and defense.

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United Kingdom

The United Kingdom was the fifth-largest U.S. trading partner in 1994, and the second-largest in Europe, after Germany. Also after Germany, the United States is the largest British trading partner. Trade between the United States and the United Kingdom is facilitated by a common language, similar legal systems, and strong cultural ties. Another bond is that each country is a major source of foreign investment to the other. Increased U.S. imports from the United Kingdom in 1994 and relatively stable exports there caused the U.S. trade surplus with the United Kingdom to shrink from \$3.2 billion in 1993 to \$226 million in 1994. U.S. imports from the United Kingdom in 1994 were \$24.5 billion, up by 15 percent from 1993. Exports to the United Kingdom were up by just 1 percent, to \$24.8 billion.

In mid-1993 the British economy began to recover, after bottoming out of a recession that had begun in 1990. The British GDP rose by 2 percent for all of 1993 and by 3.5 percent in 1994. Although employment gains were small, improving productivity led to increased output. As other European countries recover from the recession, it is expected that the United Kingdom will increase its trade with other EU members.

⁹¹ U.S. Department of State telegram, "FY95 Strategic Commercial Plan - Singapore," message reference No. 7830, prepared by U.S. Embassy, Singapore, Dec. 1994.

⁹² U.S. Department of State, *Country Reports on Economic Policy and Trade Practices* "Economic Policy and Trade Practices: Singapore," reprinted in NTDB—the Export Connection, St. Ecopol Singapore, Dec. 26, 1994.

⁹³ In late 1993, a Taiwan manufacturer of disk drives in Singapore ceased operations, creating a monopoly for U.S. multinational firms. A Japanese producer, Matsushita, broke the 2-month monopoly in March 1994 when it announced a \$25.6 million-investment in a Singapore plant.

⁹⁴ U.S. Department of State telegram, "Singapore -Economic News," message reference No. IMI941205 prepared by the U.S. Embassy, Singapore, reprinted in NTDB - The Export Connection, IT Market 111088735, drawing on U.S. Department of Commerce, International Trade Administration, Mar. 1, 1995.

For U.S. exports to the United Kingdom, the most notable development in 1994 was the 64-percent drop in gold shipments to \$1.4 billion. However, rather than reflecting sharp changes in financial markets, this reflected a movement to more typical levels of trade for gold from a sharp increase in 1993. That year U.S. exports of gold to the United Kingdom increased nearly fourfold, from \$960 million to \$3.8 billion. Countering this sharp decline in gold exports in 1994 were increased exports of several products. Shipments to the United Kingdom of data processing machines rose by \$374 million, to \$1.9 billion, and shipments of integrated circuits increased by \$295 million, to \$990 million. Both of these gains were largely stimulated by increased capital investment as British firms recovered from the recession. Exports of automobiles to the United Kingdom from the United States nearly tripled from \$152 million to \$451 million, also largely reflecting the improving British economy.

U.S. imports from the United Kingdom are dominated by crude petroleum shipments from the North Sea reserves. In 1994, these imports rose by 37 percent, to \$2.7 billion. Imports of refined petroleum products also increased significantly, by 40 percent to \$471 million. Other products contributing to the import increase were automobiles, up 32 percent to \$1.0 billion; certain pharmaceuticals, up 29 percent to \$659 million; and parts for office machines, up 53 percent to \$403 million.

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Belgium

Belgium is the ninth-largest trading nation in the world. It ranked 20th in terms of global suppliers of imported U.S. goods in 1994, and 12th in terms of global purchasers of U.S. merchandise exports in 1994.⁹⁵ Belgium has traditionally maintained an open economy, and has a long history of reliance on imported inputs and international trade for its well-being. Imports and exports are each equivalent to nearly 70 percent of GDP, making Belgium one of the highest per capita exporters in the world. About 75 percent of Belgium's trade is with other EU countries. Belgium has an outstanding network of ports, airports, rail, highways, and canals that provide cost-effective transportation and make Belgium one of the top entrepot and distribution centers in the world.

Only Germany among the EU member states had a worse recession than Belgium in 1993. Belgium's economic condition is highly vulnerable to declines in economic activity in Germany, France, and the Netherlands, which together account for 55 percent of Belgium's exports. In 1994, Belgium emerged from its recession and realized positive GDP growth of over 1 percent. Most of the growth came from exports; Belgium's total exports increased by 4 percent in 1994 to \$115.6 billion, and total imports increased by 3 percent to \$117.5 billion. Of these imports, nearly \$100 billion were manufactured products.

U.S. trade with Belgium increased considerably in 1994; U.S. exports to Belgium jumped by 24 percent, and U.S. imports rose by 23 percent. The U.S. trade surplus increased as well, from \$3.1 billion in 1993 to \$3.9 billion in 1994.

U.S. exports of cigars and cigarettes grew by \$697 million (73 percent) in 1994 and accounted for over one-third of the total increase in U.S. exports to Belgium that year. Reflecting the role of Belgium as a distribution point for Western Europe, cigars and cigarettes accounted for 16 percent of total exports to Belgium in 1994.

Many U.S. companies with production facilities in Europe ship parts and other supplies from the United States to Belgian ports for distribution to their European affiliates. Exports of parts for construction machinery to Belgium rose by \$144 million (52 percent) to \$418 million in 1994 and exports of auto parts increased by \$104 million (35 percent) to \$400 million. These two categories made up 12 percent of the growth in U.S. exports to Belgium in 1994 and 8 percent of total exports that year.

Exports of aircraft to Belgium also rose sharply in 1994, from \$6 million in 1993 to \$95 million in 1994. Soybeans led U.S. export declines in 1994, falling by \$56 million (31 percent) to \$123 million.

Automobiles and excavating vehicles led U.S. import growth from Belgium in 1994, with imports of autos climbing \$233 million (33 percent) to \$950 million and imports of excavating vehicles jumping from \$100 million in 1993 to \$321 million in 1994. These two categories accounted for 39 percent of the growth in U.S. imports from Belgium in 1994 and 20 percent of total imports that year. Diamonds remained by far the leading import from Belgium. At \$1.44 billion, diamonds accounted for nearly one-quarter of total U.S. imports in 1994.

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Brazil

A consumer-led economic boom in Brazil, brought about by a government monetary and fiscal stabilization plan, sharply increased imports into Brazil, including imports of U.S. products. During 1994, Brazil's real GDP grew by 4 percent, and its rate of inflation declined by 57 percent.⁹⁶ Brazil's trade regime significantly reduced

 $^{^{95}}$ These rankings apply to Belgium and Luxembourg as one market.

⁹⁶ U.S. Department of State, *Country Reports*, Feb. 1995, p. 334, U.S. Department of Commerce, *U.S. Global Trade Outlook*, p. 69.

tariffs and nontariff barriers, and Brazilian imports (ranging from industrial and agricultural products to consumer goods) increased. Tariffs were lowered in Brazil (from a ceiling of 110 percent to the current maximum of 35 percent); quotas on products were abolished; and import licensing was simplified.⁹⁷

In July 1994, Brazil introduced its new currency, the "real." The new currency together with lower government expenditures, stricter monetary policy, and privatization of state-run industries, succeeded in reducing the annual rate of inflation in Brazil from nearly 5,000 percent at the end of 1993, to a monthly rate in September 1994 of 1.5 percent.⁹⁸ In line with reducing inflation, the Government loosened import restrictions to provide price discipline to domestic industries as well as to supply increased consumer purchases made possible by the end of hyperinflation. The higher number of consumer purchases taxed the capacity of many consumer goods industries in Brazil, including durable goods and automobile industries. Sales of Brazilian autos set a record high in late 1994.⁹⁹

When the government introduced the real, it initially established exchange rate parity with the dollar—1 real per U.S. dollar. However, with a strong trade surplus (\$13 billion in 1994), and a continuing inflow of foreign capital into Brazil, the real appreciated. By September 1994, the real had reached 0.85 per dollar, and the Brazilian Central Bank intervened to deflate the currency.¹⁰⁰

The United States remained Brazil's largest foreign supplier in 1994, accounting for 29 percent of Brazil's total imports of \$28 billion.¹⁰¹ Brazil is the third-largest market for U.S. exports in the Western Hemisphere, after Canada and Mexico. The United States is the largest single country market for Brazilian exports although EU countries together purchase more. Of Brazil's total 1994 exports of \$42 billion, the U.S. market purchased 21 percent, and the EU countries, 26 percent.¹⁰²

Two-way trade between the two countries increased by 22 percent from \$13.5 billion to \$16.5 billion during 1993-94. Brazil's bilateral trade surplus with the United States fell from \$2.1 billion in 1993 to \$1.2 billion in 1994. Brazil's surging domestic market brought in a higher volume of both U.S. intermediate and consumer goods in 1994; meanwhile, appreciation of the Brazilian currency handicapped the competitiveness of many

leading Brazilian exports: footwear, industrial equipment, and iron and steel products.

In 1994, U.S. exports to Brazil rose by \$1.9 billion (34 percent) to \$7.6 billion, led by increased sales of computers and electronic equipment; industrial and heavy machinery (such as boilers, machinery, engines, turbojets, gas turbines, and parts); electrical machinery and equipment; automobiles and auto parts; and other consumer goods. U.S. exports of automobiles to Brazil rose by nearly \$138 million in 1994. U.S. exports of ethyl alcohol (used in Brazil for fuel), soybeans, and rice also registered sharp increases.

U.S. imports from Brazil increased by 14 percent (\$1.1 billion) in 1994 to \$8.8 billion. The bulk of the increase was attributable to growth in imports of coffee, production-sharing goods (under *Harmonized System* subheading 9801), pig iron, flat-rolled steel, aluminum, and wood pulp. Brazil's leading export to the U.S. market, footwear, with \$1.3 billion in sales (14 percent of total imports from Brazil), registered a drop of \$142 million, reflecting the effects of the stronger "real," and competition from lower priced Chinese footwear.

Iron and steel exports from Brazil, representing \$0.9 billion of total U.S. imports from that country in 1994, accounted for 36 percent of the \$1.1 billion increase in Brazilian exports to the United States. Aluminum exports, which rose by \$139 million in 1994, accounted for about 13 percent of the total increase. Owing to the Brazilian frost-damaged harvest, rising coffee prices boosted the value of U.S. coffee imports from Brazil by \$218 million; coffee imports were responsible for 20 percent of the total import increase in 1994.

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Thailand

The continued U.S. trade deficit with Thailand, rising by \$668 million to almost \$5.7 billion in 1994, has largely been the result of Thailand's pursuit of an export-oriented, free market economy. The Royal Thai Government has begun to address infrastructure bottlenecks, environmental degradation, shortages of skilled labor, and lagging rural development (where the majority of the Thai labor force is engaged in agricultural production) that have come with the country's rising industrialization, so that these problems will not hinder Thailand's export competitiveness.¹⁰³

U.S. imports from Thailand rose by 20 percent (\$1.7 billion) to \$10.3 billion in 1994. Electronic products accounted for most of the import increase, followed by imports of fish and crustaceans, and optic, photo, and medical instruments. Within the electronic products grouping, imports of computers showed the largest

⁹⁷ U.S. Department of Commerce, U.S. Global Trade Outlook, p. 71.

⁹⁸ U.S. Department of State, *Country Reports*, Feb. 1995, p. 335.

⁹⁹U.S. Department of State, "Sao Paulo Economic Highlights," message reference No. 000803Z, prepared by the U.S. Consulate, Sao Paulo, Mar. 28, 1995.

¹⁰⁰ U.S. Department of State, *Country Reports*, Feb. 1995, p. 336.

¹⁰¹ U.S. Department of Commerce, U.S. Global Trade Outlook, p. 69.

¹⁰² U.S. Department of Commerce, U.S. Global Trade Outlook, p. 70.

¹⁰³ U.S. Department of State, *Country Reports*, Feb. 1995, p. 99.

growth, rising by 42 percent (\$415 million), to \$1.4 billion, followed by imports of integrated circuits, which rose by 43 percent (\$200 million), to \$664 million. Imports of video tape recorders jumped by 75 percent (\$100 million), to \$235 million. Strong U.S. demand for computers and home electronic equipment contributed to the acceleration of imports from Thailand.

U.S. imports from Thailand of fish and crustaceans, fresh or frozen, rose by 41 percent (\$243 million), to \$835 million, and preserved fish and crustacean imports rose by 27 percent (\$53 million), to \$251 million. Entries of optic, photo, and medical instruments also climbed by 58 percent (\$93 million), to \$254 million, with most of the increase concentrated in photocopy apparatus that rose by 88 percent (\$62 million), to \$135 million. Imports of only a few items fell, principally tobacco by 55 percent (\$43 million),¹⁰⁴ to \$35 million; and prepared vegetables, fruit, nuts, or other plant products, by 15 percent (\$33 million), to \$183 million.

U.S. exports to Thailand advanced by 30 percent (\$1.1 billion) to \$4.6 billion in 1994. The major contributors to the rise in exports were electronic products, articles of iron or steel, cotton, and miscellaneous chemicals. U.S. exports of electronics were concentrated in integrated circuits and microassemblies, which rose by \$162 million; blank tapes for recording music, increased by \$50 million; parts of computers and other office machines rose by \$34 million; and cellular telephones and other telephone equipment increased by \$47 million. U.S. exports of electronic products were principally due to intracompany trade from U.S. firms with assembly facilities in Thailand. These firms in turn exported electronic assemblies to Malaysia, Singapore, or the United States for further processing.

U.S. exports of articles of iron or steel to Thailand jumped by \$147 million to \$168 million, and were principally tubes and pipes of steel for oil exploration (\$88 million), and springs (\$43 million). Exports of cotton nearly tripled, increasing by \$71 million to \$115 million as supplies of cotton from China to the world market were greatly reduced in 1994. Exports of only a few articles declined in 1994, the only significant decrease being a \$67-million (30 percent) fall in exports of aircraft to \$155 million.

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Taiwan

U.S. imports from Taiwan rose by \$1.6 billion from \$25.0 billion in 1993 to \$26.6 billion in 1994, while U.S.

exports to Taiwan expanded by \$655 million from \$15.6 billion to \$16.2 billion. Consequently, the U.S. trade deficit with Taiwan increased from \$9.4 billion in 1993 to \$10.3 billion in 1994. Taiwan was the sixth-largest supplier of foreign goods to the United States and the seventh-largest export market for U.S. exporters in 1994. Computers, parts of computers and office machines, and integrated circuits and microassemblies accounted for 29 percent (\$7.6 billion) of total U.S. imports from Taiwan in 1994. Other electronic products imported from Taiwan in 1994 included electronic circuit control devices (\$619 million), telephone and telegraph apparatus (\$297 million), audio amplifiers (\$283 million), and radio transmission and reception apparatus (\$225 million). Imports from Taiwan of textiles, apparel, and footwear were second only to electronics in terms of the value of imports for a product sector. In 1994, these imports amounted to \$3.4 billion. The largest product groupings imported from Taiwan in this sector in 1994 were shirts and blouses (\$658 million) and footwear (\$456 million). Significant U.S. imports from other product sectors in 1994 included furniture and selected furnishings (\$1.2 billion), sporting goods (\$741 million), metal industrial fasteners (\$622 million), bicycles and parts (\$452 million), lamps and lighting fittings (\$427 million), and air-conditioning equipment and parts (\$400 million).

In 1994, U.S. exports to Taiwan of products related to the electronic technology sector amounted to 24 percent (\$4.0 billion) of total exports to Taiwan. Semiconductor solid-state devices contributed about half the value of these exports. U.S. exports of aircraft (\$1.5 billion); automotive vehicles (\$1.1 billion); chemicals and plastics (\$2.4 billion); precious metals (\$421 million); machinery (\$1.4 billion) and agricultural products (\$2.3 billion), especially cereals (\$723 million) and soybeans (\$442 million), accounted for most of the remaining exports to Taiwan.

A \$1.2-billion increase in the value of U.S. imports of parts and accessories for computers and other office machines, electronic integrated circuits. and microassemblies accounted for about 75 percent of the \$1.6 billion growth in the value of U.S. imports from Taiwan during 1993-94. In many cases, the products imported incorporate microprocessors and high-density memory chips from the United States that are attached to printed circuit boards in Taiwan for subsequent export to the United States and other countries. The increased value of these imports reflect the surge in U.S. demand for electronic components for use in personal computers, telecommunications apparatus, and other electronic equipment. Higher prices, especially for dynamic random access memories, Taiwan's main semiconductor export to the United States, also played a role. The remainder of the increase was primarily accounted for by a rise in imports of sporting goods (an increase of \$84 million), steel mill products (\$81 million), industrial metal fasteners (\$78 million), and television and video apparatus (\$62 million).

¹⁰⁴ U.S. imports of tobacco from most countries were greatly reduced in 1994 because of new U.S. regulations requiring that cigarettes produced in the United States consist of at least 75 percent U.S.-grown tobacco. See the industry/commodity article on tobacco later in this report.

The increased value of U.S. imports of electronic products from Taiwan reflected both the shift in the Taiwan economy to the production of capital-intensive and high-technology products for domestic consumption and for export, as well as continued production of electronic products such as electronic integrated circuits and microassemblies that use processes that are labor-intensive and low-value-added and as such, are no longer produced en masse in the United States. Currently, exports from Taiwan account for about 39 percent of the Taiwan GNP.¹⁰⁵ The Taiwan economy has been export-oriented for many years; however, in the past, Taiwan exports consisted of relatively most low-technology labor-intensive items such as toys, apparel, and footwear. U.S. imports of some of these products from Taiwan declined significantly during 1993-94, particularly footwear, which declined by \$128 million. Investment in Taiwan has recently been concentrated in such high technology areas as aerospace, biotechnology, semiconductors, computer hardware and software, precision machining, and environmental protection.¹⁰⁶ Overall, U.S. and world exports to Taiwan have grown, buoyed by a strong annual economic growth rate in Taiwan (about 6 percent in 1994 based on real GNP), increased domestic and foreign investments, and a rise in private consumption. A \$383 million increase in U.S. exports to Taiwan of parts for electronic integrated circuits and microassemblies accounted for about 58 percent of the \$655 million growth in the value of U.S. exports to Taiwan during 1993-94.

U.S. exports to Taiwan during 1993-94 also increased for other product groupings including organic chemicals (an increase of \$247 million), parts for aircraft (\$73 million), and certain raw hides and skins (\$56 million). Partially offsetting these increases, U.S. exports of aircraft fell by \$504 million during 1993-94,¹⁰⁷ and U.S. exports of soybeans and rail locomotive and rolling stock fell by \$113 million and \$104 million, respectively.

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Italy

The U.S. merchandise trade deficit with Italy grew for the third consecutive year in 1994, expanding by \$786 million to \$7.7 billion in 1994, following a \$3.1 billion increase in 1993 and a \$358 million increase in 1992. The

increase in the volume of U.S. imports from Italy exceeded the increase in the volume of U.S. exports to Italy, largely reflecting a relatively faster economic growth rate experienced by the U.S. economy than by the Italian economy in 1994, and a modest strengthening of the U.S. dollar vis-a-vis the Italian lira. At the same time, the increase in the U.S. trade deficit in 1994 was significantly less than the increase in the deficit during 1993. This reflected Italian economic recovery from recessionary levels in 1993, stronger consumer demand in Italy, and a greater stability in the value of the Italian lira vis-a-vis the U.S. dollar in 1994.¹⁰⁸ Italv experienced moderate economic expansion in 1994 with real GDP growing at a rate of 2.2 percent compared to a real decline of 0.7 percent in 1993. Industrial production¹⁰⁹ also grew strongly, particularly in the textiles, leather, and machinery and equipment sectors of the economy.¹¹⁰ Italy's industrial performance was aided by falling interest rates, low inflation, and rising business confidence. At the same time, brighter employment prospects, together with a favorable inflation outlook, raised consumer confidence levels and increased consumer demand.

U.S. imports from Italy increased by \$1.5 billion (11 percent) in 1994, to \$14.6 billion, with significant growth in a variety of products. The largest dollar volume increases occurred among imports of furniture, which grew by \$129 million (30 percent) to \$554 million; footwear, which increased by \$108 million (17 percent) to \$736 million; and selected motor vehicle parts, up by \$107 million (40 percent) to \$375 million. A significant increase was also registered in imports of computers and related equipment, which rose by \$84 million (91 percent) to \$176 million; and in parts of computers and other office machines, up \$94 million (56 percent) to \$262 million. Partially offsetting the net increase in U.S. imports was a decline in imports of refined petroleum, down \$132 million (41 percent) to \$205 million.

U.S. exports to Italy increased by \$730 million (12 percent) in 1994 to \$6.9 billion. Over half of this growth was accounted for by a \$445 million rise in exports of aircraft and jet engines. These exports more than doubled in 1994 to \$765 million, or 11 percent of total U.S. exports to Italy for that year. This expansion is in sharp contrast to the large decline of \$566 million (68 percent) in exports of aircraft to Italy in 1993. The Italian aviation industry maintains strong ties with U.S. aircraft manufacturers and U.S. advanced technology is widely used in Italian airborne and ground avionics systems. Italian carriers are presently beginning an extensive upgrading of these systems.¹¹¹ The next largest source of

¹⁰⁵ U.S. Department of Commerce, International Trade Administration, Taiwan: "Commercial Overview," reprinted in National Trade Data Bank (NTDB)—The Export Connection; program, Country Commercial Guides; item, ID

IT CCG Taiwan 01, Dec. 26, 1994.

¹⁰⁶ Ibid.

¹⁰⁷ According to an industry observer, in 1993, nine Boeing 747s were delivered from the United States to Taiwan. In 1994, this source indicated that deliveries from the United States to Taiwan consisted of 10 smaller planes (Boeing 757s and MD82s) that were significantly less expensive than the Boeing 747s.

¹⁰⁸ The U.S. dollar appreciated by an average of nearly 2 percent against the lira during 1994, compared to an average appreciation of 27 percent vis-a-vis the lira in 1993.

¹⁰⁹ Italian industrial production grew at a real annual rate of 4.3 percent in 1994, following declines in the 2 previous years.

¹¹⁰ OECD Economic Outlook: Italy, Dec. 1994, p. 73. ¹¹¹ U.S. Department of Commerce, U.S. Global Trade Outlook, p. 48.

U.S. export growth to Italy in 1994 was in chemical wood pulp, up \$53 million (37 percent) to \$194 million. The most significant decline in U.S. exports to Italy occurred in soybeans, which fell by \$54 million (31 percent) to \$122 million. This was in contrast with 1993, when soybean exports increased by 24 percent and accounted for the largest dollar increase in U.S. exports to Italy.

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Russian Federation

Economic conditions continued to deteriorate in Russia during 1994, the fourth year of restructuring following the breakup of the Soviet Union. However, the nature of Russia's economic crisis has changed. Price liberalization, the disruption of industry linkages (caused by breakup of the Soviet system of central planning and distribution), and tight fiscal and monetary policies were primary causes of economic disruption during 1992 and 1993. However, a lack of domestic demand and continuing inflation (caused mostly by expansion of the money supply) accounted for most of the economic difficulties in 1994. Aggregate demand fell because of several factors, most notably the country's payments crisis. This crisis was precipitated by the accumulation of accounts receivable,¹¹² as customers' failure to pay bills led to a massive debt chain that resulted in delays in payment of wages and taxes, hindered investment, and reduced national and local budget revenues. A rapid increase in the money supply in 1994 in response to lower tax revenues, resulted in a rate of inflation, estimated at 300 percent in 1994. Much of the inflation increase accrued during the last 5 months of the year, as Russia's GDP declined for the third year in a row in 1994, reflecting the decline in industrial output.¹¹³

Foreign trade has become a more important component of Russian GDP, in part reflecting the economy's increasing capitalist nature, but also underlining some of the economy's difficulties. Russian exports increased between 1993 and 1994 at a faster rate than imports, and trade (particularly exports) continued to be redirected toward the convertible-currency countries. Exports and their associated hard currency revenues have become more attractive for a number of reasons, not the least of which is that companies with access to foreign markets increasingly have relied on exports to maintain production and pay their work force. Rapid depreciation of the Russian ruble enhanced the value of export sales made in convertible currency,¹¹⁴ overcoming concerns about losing competitiveness because of rising transportation, energy, raw materials, and labor costs. Exports also received a boost when government regulations covering export activity were relaxed between 1992 and 1993, and again during 1994. Russian export duties and limitations imposed by export quotas and licensing were reduced or eliminated, and the Russian Central Bank rescinded regulations that required the sale of a portion (around 40 percent) of hard currency export earnings.¹¹⁵ Investment, another component of GDP, has declined by an estimated 50 percent since 1991, reflecting a reduction in the government's share of investment from 95 percent of total investment to less than 20 percent during 1991-94.¹¹⁶ Foreign investment in Russia has been discouraged by concerns regarding property rights, political turmoil (including the rule by presidential decree and high turnover of personnel in key government posts), a growing crime rate, increasing foreign debt of the Russian Government, and changing business legislation among other things.¹¹⁷ Russia's

¹¹² Intercompany debt accounted for approximately 60 percent of total company debt and represented 14 percent of Russian gross domestic product in 1994. According to Russian Economics Ministry personnel, 52 percent of company accounts payable (worth 81.4 trillion rubles) were in arrears as of Nov. 1, 1994, and company solvency has deteriorated since the end of 1993 amid reduced demand for products. Interfax, *Trade and Investment Report*, Dec. 30, 1994-Jan. 6, 1995, p. 2. On the national level, Russia's foreign debt increased from about \$79 billion in 1992 to \$103 billion in 1994. Because this is roughly twice the value of Russia's exports, it has given rise to concerns about Russia's ability to repay its debt.

¹¹³ Russia's GDP fell by 15 percent in 1994 from the 1993 level, and was down 39 percent from 1991; industrial output in 1994 was 79 percent of 1993, and 56 percent of the level in 1991. Russian State Statistics Committee data quoted in *Interfax Weekly Business Report*, Mar. 17-24, 1995, p. 3. Also, Interfax, *Trade and Investment Report*, Dec. 30, 1994-Jan. 6, 1995, p. 2. Industrial output declined most in light industry (generally, textiles and apparel), machine-building, chemicals and petrochemicals, and the timber and pulp industries.

¹¹⁴ The exchange value of the ruble fell from Rb 414.5 per \$1 on Dec. 31, 1992 to Rb 1,247 per \$1 on Dec. 28, 1993, thereafter, declining to Rb 1,810 per \$1 on Apr. 21, 1994, and to Rb 3,550 per \$1 at the end of 1994. As of the Mar. 17, 1995, auction on the Moscow Interbank Currency Exchange, the exchange value was Rb 4,824 per \$1. Also, private sector purchases of foreign currency (used to hedge against a decline in the value of ruble-based assets) increased to 6 trillion rubles in August 1994, from a total of 1.9 trillion during January through June 1994. The Russian Ministry of Economics, quoted in Interfax, *Trade and Investment Report*, Jan. 20-27, 1995, p. 3.

¹¹⁵ B.G. Fedorov, Russian Ministry of Finance, *Russian Finances in 1993*, Moscow, Jan. 1994. Also, Interfax, *Trade and Investment Report*, Aug. 20-27, 1994, pp. 3-4.

¹¹⁶ Interfax, *Trade and Investment Report*, Jan. 13-20, 1995, p. 8.

¹¹⁷ Negotiations began between the Russian Ministry of Finance and the World Bank, International Monetary Fund, London Club, and Paris Club to renegotiate terms of repayment of Russia's debt (including debt incurred during the Soviet era) in 1994-95. This debt burden, social tension, government intervention in the economy, restrictions on the movement of capital, and other difficulties make Russia a high-risk country for foreign investment. The current investment law dates from July 1991 and explicitly allows assets held by foreigners to be nationalized; it also restricts foreign participation in a number of key sectors by declaring them government in manufacturing, construction, transportation, and mining by giving local and national

domestic political and economic crises have also stimulated capital flight, estimated to have exceeded \$100 billion during 1991-94.¹¹⁸

Reflecting factors discussed earlier that made Russia's exports more competitive in world markets and which restricted Russia's ability to pay for imports, the U.S. merchandise trade balance with Russia slipped from a \$1.2 billion surplus in 1993 to a \$707 million deficit in 1994, representing a net change of nearly \$1.9 billion. U.S. exports to Russia declined by \$386 million (13 percent), while U.S. imports from Russia increased by nearly \$1.5 billion (86 percent) to \$3.2 billion.

The fastest-rising U.S. imports from Russia were raw materials and commodities, where price is the leading factor of competition, and quality of the production process is not as important as it is for higher level manufactured goods. Such import gains were recorded across a broad range of products, including forestry and marine products, minerals, metals (including scrap), petroleum, petrochemicals, and fertilizer. The most significant increases in U.S. imports from Russia in 1994 are shown in the following tabulation (values in millions of dollars, customs value):

Production description	Value of increase in 1994	Value of U.S. imports in 1994
Steel	\$494 478	\$591 960
Uranium	177	300
and gold coins Arms and	144	420
ammunition	42	51
Fish and crab	39	113

U.S. imports of oil (including crude petroleum) declined most, falling by \$85 million (34 percent) to \$165 million, mainly because of export licensing (which restricted the

¹¹⁷—Continued

number of exporters) and excise taxes imposed by Russian authorities in 1994. U.S. imports of art and antiques from Russia also declined, by nearly \$72 million (91 percent) to \$7.5 million in 1994.

The most significant increases in U.S. exports to Russia in 1994 are shown in the following tabulation (values in millions of dollars, f.a.s. value):

Production description	Value of increase in 1994	Value of U.S. imports in 1994
Aircraft (passenger) Meat, sausage, and	\$340	\$343
poultry	225	336
Tobacco products	66	181
Lubricating oils	29	34
Fishing vessels	28	29
Instruments	20	144

Increased Russian import tariffs and reduced consumer subsidies led to reduced U.S. exports of corn, soybeans and soybean meal, and wheat, which together declined by \$735 million to \$90 million in 1994. U.S. exports of these items to Russia also fell between 1992 and 1993. U.S. exports of butter also declined by \$57 million (69 percent) to \$26 million. Russia's trade with countries outside the former Soviet Union increased by more than 7 percent in value to \$76.2 billion between 1993 and 1994. The increase in exports, which rose by 8 percent to \$48 billion, more than compensated for the 5-percent increase in imports (to \$28.2 billion) as Russia netted a merchandise trade surplus of nearly \$20 billion.¹¹⁹ Trade with industrially developed countries accounted for the bulk of both exports and imports (67 and 69 percent, respectively) in 1994, increasing in volume and as a share of total trade between 1993 and 1994.120 Russia's trade with developing countries and with former members of the Council for Mutual Economic Assistance (CMEA) declined in volume and as a percent of Russia's total trade.121

Fastest rising exports included pig iron, rolled steel, ferroalloys, and nonferrous metals (such as copper, nickel, and aluminum), chemicals, and timber. Exports of crude petroleum, natural gas, and petroleum products (which accounted for some 44 percent of exports) remained about the same, while exports of coal and

governments veto powers over equity partners. For example, see Lev Makarevich, "Russia Remains a Highest-Risk Country: Factors Curbing an Influx of Bank Investment in the Economy Are Analyzed," Moscow, *Izvestiya (Finansovyye Izvestiya)*, translated in FBIS-SOV-95-085-Sa, May 3, 1995, pp. 12-15.

¹¹⁸ Estimates of the amount of money held by Russians abroad varies from the \$10 to \$20 billion estimated for 1992-93, to over \$130 billion cumulatively during the post-Soviet era. For example, see "Rybkin on Funds Accumulated Illegally Abroad," Moscow, *Ekonomika i Zhizn*, translated in FBIS-SOV-95-075, Apr. 19, 1995, p. 1. The system of monitoring exports and their associated foreign exchange earnings began in earnest only from Jan. 1, 1994. Russian experts estimate that during 1994 about 12.5 percent of export earnings remained abroad (equivalent to about \$6 billion in 1994 alone), but the percentage of foreign exchange earnings retained abroad has fallen significantly. Reportedly, some import transactions also are phony. Ivan Zhagel, "Exporters Secrete One Dollar in Eight Abroad, But that Is Only Half as Much as a Year Ago," Moscow, *Izvestiya*, translated in FBIS-SOV-95-060-S, Mar. 29, 1995, p. 10.

¹¹⁹ Calculated from data published by the Russian Ministry of Economics, published in *Interfax Trade and Investment Report*, Jan. 13-20, 1995, p. 7.

¹²⁰ These data show that Germany was Russia's largest trading partner, accounting for 13 percent of Russia's total trade with countries outside the former Soviet Union, followed by the United States (7 percent), United Kingdom (6 percent), Italy (6 percent), China (5 percent), and the Netherlands, Finland, Switzerland, and Japan, each accounting for 4 to 5 percent.

¹²¹ Data show that Russia's exports to industrially developed countries and imports from these countries increased by 22 and 20 percent, respectively between 1993 and 1994. Exports to developing countries and to former CMEA members declined by 5 and 20 percent, respectively, while Russia's imports from these two groups declined by 20 and by 17 percent, respectively.

manufactured goods declined between 1993 and 1994. Falling world prices for the majority of raw material exports forced Russian exporters to boost volumes in order to maintain revenues. Also impeding exports, certain Russian exports have been subject to antidumping duties in the markets of major trading partners, including the United States and EU. Russia has not acceded to the General Agreement on Tariffs and Trade (GATT) or to its successor, the World Trade Organization, which might lead to reduced restrictions on exports. The interim trade agreement between Russia and the EU, needed prior to EU acceptance of Russia's partnership status, was postponed until mid-1995. Imports of certain food items, such as meat, poultry, butter, and manufactured goods increased in 1994, while centralized purchases of grain and sugar (i.e., subsidized state purchases of imports) were reduced.122

Russia's total trade with the former Soviet republics (excluding the three Baltic countries) declined by 51 percent to \$26.2 billion in current dollars in 1994, after falling by 22 percent in 1993.¹²³ Russia's exports to

these countries were reported at Rb 31.5 trillion (\$13.9 billion), with imports from these countries totaling Rb 27.8 trillion (\$12.3 billion). Trade with these countries accounted for about 26 percent of Russian foreign trade in 1994 (approximately 30 percent of imports into Russia and 23 percent of exports from Russia).¹²⁴ Within the CIS, Ukraine is Russia's largest trading partner, accounting for approximately 50 percent of Russia's exports to, and 40 percent of Russia's imports from, CIS countries.

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¹²⁴ Calculated from data reported in The Economist Intelligence Unit, *Russia: EIU Country Report*, 1st Quarter 1995, p. 38. Whereas Russia's foreign trade with countries outside the CIS is estimated to grow by about 4 percent between 1994 and 1995, trade with CIS countries is estimated to decline by 20 to 30 percent, to \$16 to \$18 billion during the same period. "Foreign Economic Activity of Russia in 1995," Moscow, *Ekonomika i Zhizn*, translated in FBIS-SOV-95-075-S, Apr. 19. 1995, p. 2.

¹²² Import duties are slated to increase from current levels of about 10 percent to approximately 15 percent ad valorem on July 1, 1995.

¹²³ Reasons for the decline in trade include the disruption of many intra- and interindustry links following the breakup of the Soviet Union, the raising of new customs and financial barriers, and the use of new national currencies following collapse of the ruble zone (the newly independent countries used the ruble for trade until the Russian government canceled ruble accounts held abroad and ceased supplying currency to the former Soviet republics). The absence of a clearing mechanism has complicated exchange arrangements as has the scarcity of hard currency foreign exchange. The amount of total debt and growing arrears in

¹²³—Continued

payments, particularly for energy, owed by the other CIS countries to Russia poses an obstacle to trade expansion. In order to maintain some intra-CIS trade, the Russian Government has concluded bilateral trade and economic agreements with other CIS governments under which each contracting state assumes the delivery obligations of a narrow list of products and settlement of accounts is accomplished on a clearing basis. However, these contracts were unfulfilled to a large extent during 1994. See, Konstantin Levin, "In the Morning—Debt Payment, in the Evening—Trade and Economic Agreement," Moscow *Kommersant-Daily*, translated as "Problems of Trade, Economic Cooperation in CIS Framework Viewed," FBIS-SOV-94-239-S (Dec. 13, 1994), p. 5.

CHAPTER 3 Agricultural Products

The U.S. trade surplus in agricultural products increased by \$2.0 billion in 1994 and now stands at \$20.3 billion (table 3-1). Both exports and imports rose strongly, with total sector trade increasing by 8 percent from \$83.4 billion in 1993 to \$90.4 billion in 1994. U.S. exports grew by 9 percent from \$50.8 billion in 1993 to \$55.4 billion in 1994, while imports rose by 8 percent from \$32.5 billion in 1994 to \$35.0 billion in 1994.

Cereals accounted for one-sixth (\$10.1 billion) of total U.S. agricultural exports in 1994. Another one-third was accounted for by cigarettes, oilseeds, animal feed, edible preparations, and cotton; exports of these products amounted to \$5.0 billion, \$4.5 billion, \$3.5 billion, \$3.1 billion, and \$2.7 billion, respectively. Cotton and cigarette exports increased by \$1.1 billion and \$1.0 billion, respective-Large value and percentage increases in lv. cigarette exports to Belgium, Cyprus, Lebanon, and Russia, all of which also serve as transhipment centers, reflect the growing demand for U.S. cigarettes in Central Europe, the former Soviet Union (FSU) countries, and the Middle East. Exports of cotton, not carded or combed, increased significantly as reduced Chinese production led to a large price increase for cotton in world markets. U.S. exports of edible preparations, which consist of many food items that require little or no time for preparation before consumption, rose by \$540 million in response to increasing consumption worldwide of these prepackaged food products. Poultry exports rose by \$462 million in 1994, with expanded shipments to Russia accounting for roughly half of the total increase. The rise in poultry exports to Russia, which consisted mainly of chicken leg quarters, resulted from Russian domestic production problems, public perception of superior U.S. quality, and market privatization that prompted Russian trading firms to obtain foreign poultry supplies. U.S. exports of animal and vegetable fats and oils also increased by \$397 million to \$1.9 billion in 1994. These exports, while relatively stable in volume terms, increased as a result of higher world prices. Additional fats and oils exports went to Southeast Asia as the result of a production shortfall of palm oil in Malaysia, a traditional supplier to the region. Meanwhile, the overall value of U.S. exports of cereals, oilseeds, and animal feeds were down in the range from 4 to 6 percent, corresponding to lower levels of U.S. production and exportable supplies. The exports of most other commodity groupings increased.

The leading U.S. agricultural import groupings were shellfish (\$3.9 billion); cattle and beef (\$2.7 billion); coffee and tea (\$2.7 billion); edible preparations (\$1.6 billion); distilled spirits (\$1.6 billion); fresh, chilled, and frozen vegetables (\$1.4 billion); cocoa, chocolate, and confectionery (\$1.3 billion); frozen fish (\$1.3 billion); and tropical fruit (\$1.3 billion). These nine agricultural commodity groupings represented one-half of all agricultural imports during 1994. The value of U.S. imports of coffee and tea increased by \$950 million in 1994, largely as a result of substantially higher world prices for coffee that were prompted by weather-related events in Brazil, the leading world producer. Shellfish imports, of which shrimp accounts for the majority, rose strongly by \$653 million as the result of both increased demand for the physical product as well as a 14-percent increase in the unit value price of shellfish. A decline in imports of unmanufactured tobacco, which fell by \$757 million in 1994, was largely attributable to U.S. legislation that increased the domestic content of U.S. manufactured cigarettes to 75 percent U.S. tobacco. Ample U.S. production and lower U.S. market prices helped to reduce the value of U.S. imports of cattle and beef by \$329 million in 1994.

Large export increases during 1994 significantly increased the trade surpluses in the cotton and poultry sectors. The cigarette and cattle and beef sectors also experienced increased trade surpluses as a result of both increased exports and diminished imports. Deficits in the shellfish and coffee trade sectors were increased primarily by rising imports. Meanwhile, the \$915-million decline in the cereals trade surplus resulted from a combination of decreased exports and rising imports stemming from high U.S. market prices relative to world prices. Table 3-1

Agricultural products: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1993 and 1994¹

	-		Change, 19	94 from 1993
Item	1993	1994	Amount	Percent
		– Million dollars		
U.S. exports of domestic merchandise: Japan Canada Mexico Netherlands Korea Taiwan Thailand Belgium Brazil United Kingdom All other	12,189 5,648 3,725 1,776 2,197 2,211 372 1,444 218 1,045 20,001	$12,819 \\ 5,929 \\ 4,724 \\ 1,854 \\ 2,612 \\ 2,331 \\ 457 \\ 2,182 \\ 642 \\ 1,034 \\ 20,767$	630 282 999 78 415 121 85 738 424 -11 766	5.2 5.0 26.8 4.4 18.9 5.5 22.8 51.1 194.3 -1.1 3.8
Total EU-12 OPEC Latin America CBERA Asian Pacific Rim ASEAN Eastern Europe	50,824 8,363 2,687 7,304 1,919 20,111 1,781 408	55,350 9,083 2,747 8,742 1,912 22,761 2,207 295	4,526 719 61 1,438 -7 2,650 425 -113	8.9 8.6 2.3 19.7 -0.4 13.2 23.9 -27.7
U.S. imports for consumption: Japan Canada Mexico Netherlands Korea Taiwan Thailand Belgium Brazil United Kingdom All other	389 6,514 3,130 885 179 325 1,591 113 1,514 833 17,062	408 6,908 3,366 991 173 339 1,853 120 1,435 875 18,580	19 394 236 107 -6 15 263 7 -79 42 1,518	4.8 6.0 7.6 12.0 -3.2 4.5 16.5 5.9 -5.2 5.0 8.9
Total EU-12 OPEC Latin America CBERA Asian Pacific Rim ASEAN Eastern Europe	32,534 5,825 1,480 10,266 2,335 5,187 2,858 274	35,049 6,345 1,918 11,261 2,523 5,259 3,328 197	2,515 521 438 996 188 73 469 -77	7.7 8.9 29.6 9.7 8.1 1.4 16.4 -28.2
U.S. merchandise trade balance: Japan Canada Mexico . Netherlands . Korea . Taiwan . Thailand . Belgium . Brazil . United Kingdom . All other .	11,799 -866 595 2,018 1,886 -1,219 1,331 -1,296 212 2,939	12,411 -978 1,357 863 2,438 1,992 -1,397 2,063 -793 159 2,186	611 -112 763 -28 421 106 -178 732 502 -53 -753	(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)
Total EU-12 OPEC Latin America CBERA Asian Pacific Rim ASEAN Eastern Europe	18,290 2,539 1,207 -2,961 -415 14,924 -1,077 133	20,301 2,738 829 -2,519 -611 17,502 -1,121 98	2,011 199 -377 443 -195 2,578 -44 -36	(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)

 $^{\rm 1}$ Import values are based on Customs value; export values are based on f.a.s. value, U.S. port of export. $^{\rm 2}$ Not meaningful for purposes of comparison.

Note.—Because of rounding, figures may not add to the totals shown. The countries shown are those with the largest total U.S. trade (U.S. imports plus exports) in these products in 1994.

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

U.S. Bilateral Trade

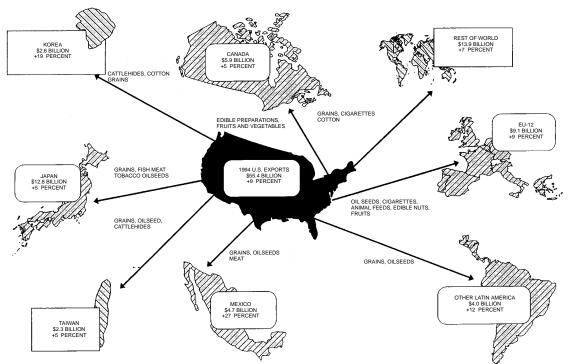
The major U.S. trading partners in agricultural products during 1994 were the EU-12, Japan, Canada, and Mexico, which together accounted for \$49.6 billion, or 55 percent of total U.S. foreign trade in 1994 (figures 3-1 and 3-2). The leading U.S. exports to Japan, which is the single largest U.S. agricultural product export market, included cigarettes, cereals, beef, and frozen fish, while U.S. imports from Japan were relatively minor. Principal exports to the European Union (EU) were cigarettes, oilseeds, and animal feeds, while spirits, wine, and beer were the leading U.S. imports from the EU. Leading export categories to Canada included fruits, vegetables, and edible preparations; while live cattle, meat, fish, and spirits were the Oilseeds, cereals, and largest import categories. meat exports from the United States to Mexico represented the largest export commodity groups, whereas live cattle, coffee, vegetables, and fruit were the leading commodity imports from Mexico.

U.S. exports to Mexico rose by \$999 million in 1994, or 27 percent, to \$4.7 billion. U.S. corn

exports to Mexico rose by \$297 million because of new tariff-rate quotas established by the NAFTA. U.S. exports to the EU rose by \$719 million in 1994 to \$9.1 billion, led by a \$701-million increase in cigarette exports. Significant increases in U.S. exports of rice, cigarettes, and beef to Japan helped to offset large decreases in U.S. exports of corn and soybeans and lift U.S. agricultural exports to Japan by \$630 million to \$12.8 billion.

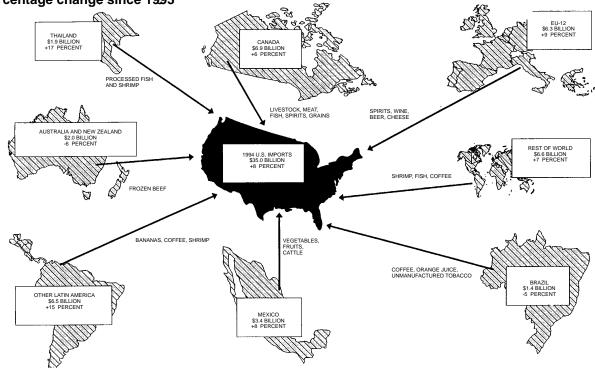
U.S. imports from the EU in 1994 were \$6.4 billion, an increase of \$521 million, or 9 percent. Increased U.S. imports of alcoholic beverages, leather, and pasta products more than offset the decline of unmanufactured tobacco imports. U.S. imports from Canada rose \$394 million, or 6 percent, to \$6.9 billion in 1994. Increased imports in oilseed, fats and oils, and cereals from Canada countered large declines in cigarettes and live cattle. U.S. imports from Mexico rose \$236 million, or 8 percent, to \$3.4 billion in 1994. Growth in imports of coffee, shrimp, and vegetables offset declines in live cattle and bananas. U.S. imports from Thailand totaled \$1.9 billion in 1994, a rise of \$263 million, or 17 percent. This expansion in imports was mainly attributable to shrimp.

Figure 3-1 U.S. agricultural sector exports, 1994: Leading U.S. exports, by major markets, and overall percentage change since 1993



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

Figure 3-2 U.S. agricultural sector imports, 1994: Leading U.S. imports, by major sources, and overall percentage change since 1993



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

Commodity Analysis

Cigarettes

The U.S. trade surplus in cigarettes increased by \$1.3 billion in 1994 to nearly \$4.9 billion as cigarette imports declined substantially and cigarette exports hit record levels. U.S. exports increased by over \$1 billion, with shipments to Belgium and Japan accounting for over \$3 billion, or nearly 62 percent of the total. A number of the leading destinations for U.S. exports, such as Belgium, Cyprus, Lebanon, and Hong Kong, are transhipment points. The rise in cigarette exports to Cyprus, Lebanon, and Belgium suggests strong growth potential for U.S. cigarettes in Central Europe and the FSU countries, and may support the business strategies of the large multinational firms to establish their presence in these emerging markets. Exports to Russia alone increased by 57 percent over 1993 totals. On the other hand, exports to Hong Kong declined in 1994. Competition from exports of Chinese manufactured cigarettes to neighboring countries, as well as the closing of the Chinese domestic and duty-free markets on January 1, 1994, contributed to the decline.

Although relatively small in comparison to exports, U.S. imports of cigarettes decreased dramatically by nearly 80 percent from 1993 levels. The turnaround can be almost entirely attributed to Canada's decision in February 1994 to roll back domestic excise taxes by \$3.80 per carton, while imposing an export tax of \$6.00 a carton. In addition to the Federal tax cuts, the Government offered to match cuts by Provincial Governments, providing as much as a \$20 break per carton for Canadian consumers. These actions closed the price gap between legal and illegal cigarettes and effectively put smugglers along the border out of business. Before February 1994, internal taxes made Canadian cigarettes among the most expensive in the world. This situation fostered the widespread importation of Canadian cigarettes by U.S. traders, who in turn sold them on Mohawk Indian reservations that straddle the U.S.-Canadian border. Once within the sovereign, tax-free territory of the Mohawk, the cigarettes could be smuggled into Canadian commerce at bargain rates.

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Cotton

Exports of U.S. cotton, not carded or combed (raw cotton), increased by nearly 75 percent, from \$1.5 billion in calendar year 1993 to \$2.7 billion in 1994. This increase, attributable to sharply decreased production in areas such as China and Pakistan, reversed a 3-year trend. U.S. exports of "all types"¹ of cotton during crop year 1994/95² are estimated by the U.S. Department of Agriculture (USDA)³ to be 7.2 million bales, or 1.6 million metric tons (mmt), up by nearly 5 percent from the previous year (6.9 million bales, or 1.5 mmt).⁴

Between 1990/91 and 1994/95, U.S. cotton has accounted for an average of 45 percent of Japanese cotton imports and 84 percent of Mexican cotton imports. During the same period, U.S. cotton exports accounted for an average of about 25 percent of the worldwide cotton trade. U.S. cotton exports in 1994/95 constituted an estimated 27 percent of the world cotton trade.

Between 1993 and 1994, U.S. imports rose sharply in value from \$413,000 to \$6.8 million, which, despite the increase, still equaled only 0.3 percent of the value of 1994 U.S. cotton exports. Much of this increase in U.S. cotton imports was of extralong staple (ELS) cotton from Egypt and Sudan. The increase in imports was at least partially in response to two developments. First, the U.S. ELS cotton crop of 355,000 bales was the lowest since 1988. The USDA attributed the production decline to lower acreage being planted to ELS cotton.⁵ Second, 1994 domestic mill consumption of ELS cotton was 50 percent above 1993 levels resulting from continued weak relative prices⁶ and adequate supplies.

"All cotton" production for 1994 was at a record high of 19.7 million bales (4.3 mmt), 22 percent larger than 1993. Production increased because of favorable growing conditions and yields, increased acreage, and diminished abandonment of planted area. Yield reached 710 pounds (322.1 kg) per harvested acre, 4 pounds (almost 2 kg) above the previous record set in 1987, and 104 pounds (47.2 kg) above that of last year. The upland cotton yield was also at a record high, 707 pounds (320.1 kg), 5 pounds (2.3 kg) higher than the 1987 yield, the previous record.⁷ The 1994 average ELS cotton yield was calculated by the USDA at 982 pounds (445.4 kg) per harvested acre, up 44 pounds (20 kg) from the previous year. Total U.S. cotton acreage in 1994 was 14.1 million acres (5.7 million hectares), up 4.3 percent from 13.5 million acres (5.5 million hectares) the previous year.⁸

Major markets for U.S. cotton, not carded or combed, in 1994, were China (\$360 million), Japan (\$323 million), Korea (\$317 million), Indonesia (\$238 million), Mexico (\$193 million), Hong Kong (\$119 million), and Thailand (\$115 million). Sales to China were particularly notable given that 1993 U.S. exports of cotton to that nation amounted to only \$179,000. The increase in exports to China was largely attributable to a sharp decline in production of cotton in China. Chinese cotton production declined by 34 percent from 26.1 million bales (5.7 mmt) in 1991/92 to 17.2 million bales (3.7 mmt) in 1993/94, because of poor weather and a bollworm infestation. In 1994/95, cotton production in China rebounded to the levels of 1992/93, 20.7 million bales (4.5 mmt).9

While exports of cotton for the current 1994/95 marketing year are projected by the USDA to remain strong, export demand for next season appears more volatile. According to the USDA, foreign demand is improving and production problems in several major cotton-producing nations have led to a decline in foreign cotton stocks, which is a positive indication for the U.S. cotton trade. However, foreign producers, especially in areas such as Egypt, India, China, and Pakistan, are expected to once again expand cotton acreage and production, which could provide excess supplies to compete with U.S. cotton will depend on the overseas balance between declining stocks and increased acreage.¹⁰

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Coffee

As the world's largest producer and exporter of green coffee beans, Brazil plays a large role in global coffee trade.¹¹ The rare combination of a severe frost in late June 1994 and a drought that lingered into September 1994 lowered Brazilian production estimates for 1995/96 by about 40 percent. Although these adverse conditions did not significantly affect 1994 production totals, New York spot prices for Brazilian arabica coffee responded quickly to the anticipated impact of the frost and drought on the size and quality of the 1995/96 harvests, by sending shock waves through the entire market. Coffee prices moderated on the

¹ The phrase "all types" refers to both extra-long staple (ELS) and upland cotton.

 ² The crop year for cotton runs from Aug. 1 to July 31.
 ³ USDA, Economic Research Service, (ERS), *Cotton and*

Wool Situation & Outlook Report (CWS-78; Nov. 1994).

⁴ The standard weight of a bale of cotton is 480 pounds. ⁵ USDA, ERS, *Cotton and Wool*.

⁶ Based on the ratio of Pima to Upland cotton prices.

⁷ Annual Crops Report, obtained electronically from the USDA-ERS bulletin board. This report was approved on January 12, 1995, by the Acting Secretary of Agriculture and the National Agricultural Statistics Service's Agricultural Statistics Board.

⁸ USDA, ERS, Cotton and Wool.

⁹ Ibid.

¹⁰ Ibid.

world market in September 1994 as rains came to the drought-stricken states of Paraná and Minas Gerais and new coffee crops were picked; but not before prices climbed to record, 8-year high levels—nearly three times as high as in September 1993.

With prices for all classes of coffee rising in response to the Brazilian forecasts, U.S. importers and roasters drew down existing stocks hoping that prices would fall. Consequently, U.S. imports of green coffee declined by over 16 percent to about 1.1 million metric tons in 1994, while U.S. coffee stocks were reduced by over 50 percent.¹² Reflecting substantially higher market prices for green coffee; however, the value of U.S. imports rose in 1994 by nearly 56 percent. Perhaps reflecting the increased value of U.S. roaster and processor stocks, the value of U.S. exports increased by about 23 percent. Half of the \$240 million U.S. export trade in coffee during 1994 went to our largest trading partner, Canada.¹³

> Greg Schneider (202) 205-3326

Cereals (food and feed grains)

The U.S. trade surplus in food and feed grains declined by \$0.9 billion in 1994 to \$9.2 billion as exports declined and imports rose. Food and feed grain exports fell by 6 percent (or by \$0.6 billion) to \$10.1 billion in 1994. On a volume basis, U.S. food and feed grain exports experienced an even sharper decline of 11 percent to 77 million metric tons in 1994. Meanwhile, U.S. imports of grain rose by 46 percent to \$0.9 billion in 1994 as Canadian grain entered the U.S. market in larger volumes.

Diminished U.S. grain exports in 1994 to Russia, to other FSU countries, and to a diverse group of smaller countries more than offset rising exports to Japan, Mexico, Egypt, and Korea. Grain sales to Russia alone fell by \$627 million in 1994. Sharply higher U.S. prices, in part related to reduced U.S. production because of the floods in the United States in 1993, and lower foreign demand for U.S. grain dampened U.S. exports in 1994. Wheat, corn, rice, and sorghum accounted for nearly all of the \$10 billion in U.S. grain exports in 1994: corn accounted for 41 percent; wheat, 40 percent; rice, 10 percent; and sorghum, 7 percent. U.S. wheat exports declined in 1994 by 13 percent in value from 1993, with lower exports to the FSU, China, and India. Corn exports fell in 1994 by 6 percent in value as higher corn prices and plentiful third-country exports (particularly from China) undercut U.S. corn sales. Offsetting the downturn in exports of wheat and corn, U.S. rice exports rose by a strong 30 percent in value in 1994 largely on the strength of an extraordinary \$224-million increase in Japanese purchases of U.S. rice to help offset a domestic crop failure.¹⁴

Among the leading foreign markets in 1994, Mexico was the fastest growing market for U.S. grain, with its purchases (mostly of corn) rising in 1994 by nearly \$288 million above the 1993 level. Egypt, a traditionally important U.S. market for wheat, purchased an additional \$245 million in U.S. grain in 1994. Korea, another important U.S. market for feed grain, increased its purchases of U.S. corn and sorghum, with its total grain purchases rising by \$200 million.

Offsetting these export gains, U.S. sales to a large number of foreign markets declined. In particular, sales to the FSU countries declined as these countries imported less feed grain to support their shrinking livestock sectors.¹⁵ Russian purchases of U.S. grain fell from \$680 million in 1993 to \$55 million in 1994. Taiwan, China, Venezuela, and Saudi Arabia also purchased less U.S. grain in 1994.

An additional contribution to the smaller U.S. trade surplus in grain in 1994 came in the form of increased imports from Canada. Since 1993, total U.S. imports of grain from all countries has risen by 47 percent to \$861 million; imports from Canada alone rose by 55 percent to \$630 million. Imports of Canadian barley and wheat rose by \$131 million and \$70 million, respectively, the result of both higher U.S. prices and lower domestic supplies of wheat and feed grains. In September 1994, the United States imposed, under section 22 of the Agricultural Adjustment Act, tariff-rate quotas that restricted U.S. imports of wheat for a period of 1 year because of their effects on U.S. farm programs.¹⁶ Canada was the foreign supplier.

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¹¹ Brazilian exportable production for 1994/95 is expected to reach about 18 million (60 kilogram) bags, out of a world total of 73 million bags.

¹² Includes Exchange and non-Exchange stock statistics compiled by the Green Coffee Association of New York City, Inc. but does not reflect business proprietary information on coffee bean stock holdings of roasters and processors.

¹³ These data principally reflect U.S. coffee bean imports that are processed and then exported with value added. U.S. domestic production of green coffee is modest and generally consumed domestically.

¹⁴ Japanese rice production fell by nearly 25 percent (3.2 million metric tons) from crop year 1992/93 to 1993/94. In 1994/95, Japanese production is projected to rise by over 4 million tons back to average historic levels. USDA, ERS, *Rice Situation and Outlook Report*, Oct. 1994, p. 32.

¹⁵ USDA, ERS, Foreign Agricultural Trade of the United States, Nov.-Dec. 1994, p. 2.

¹⁶ The President took the action following receipt of a report in July 1994 from the U.S. International Trade Commission. See USITC, *Wheat, Wheat Flour, and Semolina*

Unmanufactured tobacco

For the fifth year in a row, the United States continued to be the largest single country import market in the world for unmanufactured tobacco despite a 55- and 47-percent decrease in value and quantity, respectively, of U.S. imports in 1994. The drop in imports from \$1.4 billion in 1993 to \$613 million in 1994 can be largely attributed to the effects of U.S. legislation requiring 75-percent domestic content for U.S. manufactured cigarettes (the Ford Amendment¹⁷) and general uncertainty surrounding the direction of U.S. domestic content regulations.¹⁸ Assessments that were to be newly applied to imported tobacco as of January 1, 1994, provided an added incentive for importers to "load up" on imported unmanufactured tobacco in December 1993. December 1993 imports of over 116,000 metric tons were nearly three times those of December 1994. Imports subsequently fell to only 9,480 metric tons in January 1994 as Ford Amendment provisions came into force. Although imports from Turkey, the leading U.S. supplier by value, were down by about 34 percent in 1994, the percentage drop was smaller than the overall decrease in imports, because oriental tobacco from Turkey cannot generally be substituted in U.S. cigarette blends.

The United States remained the second-largest exporter of unmanufactured tobacco behind Brazil, exporting 196,792 metric tons in calendar year 1994, valued at \$1.3 billion. This was a decrease of 5 percent in quantity but virtually unchanged in value from 1993. Flat sales for U.S. tobacco leaf exports in 1994 were mainly attributable to oversupply in world markets. Exports to Turkey, the fourth-leading market for U.S. leaf behind Japan, Germany, and the Netherlands, continued to fall significantly, down by nearly 90 percent since 1992. According to industry sources, increased competition in the Turkish market and a new

Turkish cigarette brand, which uses less U.S. flue cured and burley tobacco, have adversely affected U.S. exports. Industry sources also assert that a significant share of the decline can be traced to concerns expressed by officials of the Turkish tobacco monopoly (TEKEL) about the negative effects of U.S. domestic content legislation on Turkish exports.

> Greg Schneider (202) 205-3326

Cattle and beef

The U.S. trade deficit in cattle and beef narrowed to \$355 million in 1994, down by \$674 million, from the previous year's deficit of \$1.0 billion. The improvement was registered as exports increased by \$355 million and imports declined by \$329 million. Developments in the domestic market generally strengthened the competitive position of the U.S. cattle and beef sector. Beef production in the United States in 1994, at 24.3 billion pounds, was 6 percent above the 1993 level and producer prices were about 10 percent below yearearlier levels.¹⁹

U.S. exports of cattle and beef increased from \$2.0 billion in 1993 to \$2.4 billion in 1994. Exports to all major markets increased, with sales to Mexico rising by \$127 million, Japan by \$100 million, Korea by \$76 million, and Canada by \$38 million.

The USDA has reported that exports of boxed beef to Mexico increased because of the NAFTA—imports of such beef received a rate of duty of zero effective January 1, 1994.²⁰ USDA also indicated that some Mexican cattlemen rebuilt their cattle herds in 1994, consequently reducing the number of head available for slaughter. As a result, U.S. exports of live cattle to Mexico increased.²¹ In addition, Mexico imposed a 45.74-percent ad valorem countervailing duty on imports of frozen beef from the EU effective June 3, 1994.²²

Contamination concerns associated with Australian beef (Australia is the leading U.S. competitor in the Japanese market) may have contributed to increased U.S. exports to Japan. Major supermarket chains in Japan suspended sales of Australian beef in the fourth quarter of 1994 because of the possible presence of a chemical contaminant, chlorofluazuron.²³

¹⁶—Continued

⁽investigation No. 22-54), USITC publication 2794, July 1994.

¹⁷ Omnibus Budget Reconciliation Act of 1993, sec.
1106, Public Law 103-66, 107 Stat. 318, Aug. 10, 1993.
"Proposed Rule' of Agricultural Stabilization and Conservation Service, U.S. Department of Agriculture (USDA)" 59 *F.R.* 7, Jan. 11, 1994. "Interim Rule' of Commodity Credit Corporation, USDA," 58 *F.R.* 245, Dec. 23, 1993 ("Interim Rule" correction: 59 *F.R.* 6, Jan. 10, 1994).

¹⁸ The Domestic Marketing Assessment (DMA), which went into effect on January 1, 1994, requires U.S. cigarette manufacturers that utilize more than 25 percent foreign tobacco in the manufacture of cigarettes in the United States to pay assessments equal to the difference between domestic and imported tobacco prices and to purchase unmanufactured tobacco from CCC stocks equal to the amount of imported tobacco used in excess of 25 percent. Prior to the DMA, cigarette manufacturers in the United States were utilizing nearly 40 percent foreign tobaccos, much of it going into discount brands.

¹⁹ USDA, ERS, *Livestock, Dairy and Poultry Situation and Outlook* (LDP-M-15), (Mar. 23, 1995).

²⁰ USDA Foreign Agricultural Service (FAS) *Livestock Annual* (MX4053) Aug. 1, 1994, p. 3.

²¹ USDA, ERS, *Livestock, Dairy and Poultry Situation* and Outlook (LDP-M-12) Dec. 21, 1994.

²² USDA, FAS, Dairy, Livestock, and Poultry: U.S. Trade and Prospects (FDLP 6-94), Aug. 1994, p. 4.

²³ USDA, FAS, Australian Marketing Efforts in Japan (AS5008), Jan. 27, 1995.

The Australian beef contamination concern also may have contributed to increased exports of beef to Korea. During 1994, Canadian imports of boneless beef, except from the United States, were subject to a tariff-rate quota (TRQ). The TRQ resulted from a finding by the Canadian International Trade Tribunal that imports from non-US suppliers threaten the Canadian beef industry with serious injury.²⁴ U.S. exports of beef to Canada were likely larger because of the TRQ.

U.S. imports of cattle and beef decreased from \$3.0 billion in 1993 to \$2.7 billion in 1994, or by 11 Imports from all major suppliers depercent. creased, with purchases from Canada declining by \$101 million, Australia by \$82 million, Mexico by \$77 million, and New Zealand by \$45 million. Good pasture conditions in Western Canada in the fall of 1994 temporarily reduced marketings of feeder cattle.25 Conversely, drought in parts of Northern Mexico resulted in lighter, less valuable feeder cattle with lower per animal values.²⁶ The total value of U.S. imports of beef from Australia declined by 11 percent, while unit values declined by 9 percent. Relatively low prices in the U.S. market caused exporters of Australian beef to reduce their shipments.²⁷ Also, Australian beef was in demand in the Japanese market in the first half of 1994 (prior to the contamination concerns) and exports to Canada increased in the first half of the year in anticipation of the TRQ.²⁸ The total value of U.S. imports of beef from New Zealand declined by 10 percent while unit values declined by 4 per-Voluntary restraint agreements (VRAs) with cent. the United States reportedly shifted New Zealand beef to other markets such as Korea and Japan.²⁹ In addition, generally low prices in the U.S. market, and associated relatively low unit values, contributed to a decline in the total value of imports.

> David Ludwick (202) 205-3329

Shellfish

The United States traditionally runs a deficit in shellfish trade, as the domestic industry generally is unable to satisfy domestic demand. U.S. imports and exports of shellfish both increased in 1994 compared with the previous year. However, the

²⁴ USDA, FAS, *Boneless Beef Surtax Removed* (CA4065), Oct. 18, 1994.

U.S. trade deficit in shellfish increased by \$609 million in 1994, to \$3 billion. The deficit worsened primarily as a result of an increase in the average import unit value of 14 percent between the periods, compared with a decline in the average export unit value of 4 percent. Total U.S. shellfish imports rose by 6 percent in quantity to about 440 thousand metric tons and by 20 percent in value to about \$3.9 billion in 1994. Exports, on the other hand, rose by 10 percent in quantity to about 148 thousand metric tons and by 5 percent in value to about \$904 million in 1994.

The primary U.S. shellfish import item was shrimp, which accounted for 68 percent of the total value in 1994. Major import sources in 1994 included Thailand (26 percent of the total value), Canada (13 percent), Ecuador (12 percent), Mexico (12 percent), and China (5 percent). The value of U.S. imports from most major sources rose significantly in 1994, with the exception of China. Increases in both the quantity imported and in the average import unit values from major sources resulted, in large part, from strong demand for shellfish in the U.S. market during the period under review. According to industry sources, disease problems in Chinese shrimp aquaculture operations and a decline in unit value contributed to an 18-percent decline in total value of U.S. imports from that country.

The 4-percent drop in the average unit value of U.S. shellfish exports in 1994 was the result of changes in product mix, market destination, market prices, and exchange rates. The major U.S. shellfish export items in 1994 were crabs, which accounted for 39 percent of the total value, and lob-Japan led all U.S. shellfish sters (15 percent). export destinations in 1994, accounting for 54 percent of the annual value total. Canada was a distant second (17 percent), and the remaining markets were scattered, mainly throughout Asia and Europe. While exports to Japan declined by 5 percent in 1994, those to most other major markets increased, both in terms of quantity and value. The largest relative increase (129 percent to \$20 million) occurred in exports to Spain, which consisted mainly of squid.

Doug Newman (202) 205-3328

Edible preparations

U.S. trade in edible preparations continues to experience growth in nearly all of the diverse products covered by this category. Products classified in this category include, drink mixes, baby food, pasta, mixes and doughs for pastries and puddings, fortified juices, breads, cakes, cookies, pizza, herb teas, and condiments such as hot sauces, ketchup, mayonnaise, and mustards. Many of the items within

 ²⁵ USDA, FAS, *Livestock* (CA5001) Jan. 31, 1995, p. 5.
 ²⁶ MX4053, p. 3.

²⁷ USDA, FAS, *Red Meat Exports to the U.S.* (AS4042), Aug. 2, 1994, pp. 1-2.

²⁸ Ibid.

²⁹ USDA, FAS, *Livestock Annual Report* (NZ4025), Aug. 1, 1994, p. 1.

this category, at either the retail or wholesale level, are food items that require little or no time for preparation before consumption. Increasing consumption worldwide of these high-valued prepackaged food products is reflected in the continuing trade flow increases.

The United States imported a total of \$1.6 billion of edible food preparations in 1994, up 16 percent over the 1993 total of \$1.3 billion. Canada, at \$513 million, accounted for nearly one-third of the total. Imports of edible preparations from Mexico and Japan accounted for a combined total of \$233 million, with a 15-percent import market share. Imports from Italy increased by 37 percent (\$44 million) to \$163 million, with a range of pasta products accounting for 75 percent (\$124 million) of Italy's exports of edible preparations to the United States.

U.S. exports of edible preparations more than doubled in value since 1990, climbing from \$1.3

billion in 1990 to \$3.1 billion in 1994. Canada, Mexico, and Japan accounted for 99 percent of U.S. exports of edible preparations in 1994. U.S. exports to Japan grew by 41 percent in 1994, while U.S. exports to NAFTA partners Canada and Mexico each increased by 31 percent. Canada accounted for 64 percent of U.S. exports of edible preparations in 1994. Baked products were the leading export to the Canadian market. U.S. exports of edible preparations to Mexico reached \$270 million, an increase of 31 percent (\$63 million) over 1993. The dominant exports to Mexico included prepared cereals and communion wafers. Japanese imports of U.S. edible products climbed by \$76 million in 1994 to \$260 million. Leading U.S. export categories to Japan included ice cream, sauces, soups, corn chips, and beverage mixes.

Jean Harman (202) 205-3313

Table 3-2Agricultural products sector: U.S. trade for selected industry/commodity groups, by specified periods, Jan.1993-Dec. 19941

				Change, 1994 from 1993	
USITC code ²	Industry/commodity group	1993	1994	Amount	Percen
			— Million dollars		
AG001	Certain miscellaneous live animals, meat, offals,				
	_ and animal products:				
	Exports	1,456	1,521	65	4.5
	Imports Trade balance	914 542	1,010 511	96 -31	10.5 -5.7
AG002	Cattle and beef:	542	511	-31	-5.7
10002		2.016	2,361	345	17.1
	Imports	3,045	2,716	-329	-10.8
	Trade balance	-1,029	-355	674	65.5
AG003	Swine and pork.				
	Exports	438	486	48	11.0
	Imports	501 -63	503 -17	2 46	0.4 73.0
AG004	Trade balance	-03	-17	40	73.0
10004	Exports	39	37	-2	-5.1
	Imports	62	59	-3	-4.8
	Trade balance	-23	-22	1	4.3
G005	Poultry:				
	Exports	1,229	1,691	462	37.6
	Imports	24	23	-1	-4.2
AG006	Trade balance	1,205	1,668	463	38.4
40000	Fresh or chilled fish: Exports	196	217	21	10.7
	Imports	652	744	92	14.1
	Trade balance	-456	-527	-71	-15.6
AG007	Frozen fish:				
	Exports	1,526	1,556	30	2.0
	Imports	1,293	1,267	-26	-2.0
0000	Trade balance	233	289	56	24.0
AG008	Fish canned, cured, or otherwise prepared, and live fish:	417	373	-44	-10.6
	Exports	617	685	68	11.0
	Trade balance	-200	-312	-112	-56.0
AG009	Shellfish:	200	0.2		00.0
	Exports	860	904	44	5.1
	Imports	3,243	3,896	653	20.1
0040	Trade balance	-2,383	-2,992	-609	-25.6
AG010	Dairy produce: Exports	655	572	-83	-12.7
	Imports	836	922	86	10.3
	Trade balance	-181	-350	-169	-93.4
AG011	Eggs:				
	Ĕxports	133	158	25	18.8
	Imports	35	30	-5	-14.3
0040	Trade balance	98	128	30	30.6
AG012	Sugar and other sweeteners:	269	303	34	12.6
	Exports	812	844	32	3.9
	Trade balance	-543	-541	2	0.4
AG013	Animal feeds:	0.0	011	-	0.1
	Exports	3,616	3,482	-134	-3.7
	Imports	543	613	70	12.9
0044	Trade balance	3,073	2,869	-204	-6.6
AG014	Live plants:	94	99	5	E 2
	Exports	216	238	22	5.3 10.2
	Imports Trade balance	-122	-139	-17	-13.9
G015	Seeds:		100		10.0
	Exports	319	340	21	6.6
	Imports	156	155	-1	-0.6
0010	Trade balance	163	185	22	13.5
AG016	Cut flowers:	22	00		
	Exports	39	38	-1	-2.6
	Imports Trade balance	382 -343	420 -382	38 -39	9.9 -11.4
G017	Miscellaneous vegetable substances:	545	-302	-03	-11.4
	Exports	436	433	-3	-0.7
	Imports	568	623	55	9.7
			-190		-43.9

See footnotes at end of table.

Table 3-2—ContinuedAgricultural products sector:U.S. trade for selected industry/commodity groups, by specified periods, Jan.1993-Dec.1994¹

USITC				Change, 1994	4 from 1993
code ²	Industry/commodity group	1993	1994	Amount	Percent
			— Million dollars		
AG018	Fresh, chilled, or frozen vegetables:				
	Exports	1,058	1,122	64	6.0
	Imports	1,253	1,364	111	8.9
		-195	-242	-47	-24.1
AG019	Prepared or preserved vegetables, mushrooms,				
	and olives: Exports	1,075	1,290	215	20.0
	Imports	777	909	132	17.0
	Trade balance	298	381	83	27.9
AG020	Edible nuts:				
	Exports	1,224	1,318	94	7.7
	Imports	460	497	37	8.0
10001		764	821	57	7.5
AG021	Tropical fruit: Exports	69	70	1	1.4
	Imports	1,217	1,253	36	3.0
	Trade balance	-1,148	-1,183	-35	-3.0
AG022	Citrus fruit:	.,	.,		
	Exports	647	674	27	4.2
	Imports	119	129	10	8.4
	Trade balance	528	545	17	3.2
AG023	Deciduous fruit:	506	774	170	20.0
	Exports	596 146	774 157	178 11	29.9 7.5
	Trade balance	450	617	167	37.1
AG024	Other fresh fruit:	400	017	101	07.1
	Exports	437	482	45	10.3
	Imports	473	528	55	11.6
	Trade balance	-36	-46	-10	-27.8
AG025	Dried fruit other than tropical:	200	200	0	2.5
	Exports	360 42	369 46	9 4	2.5 9.5
	Imports Trade balance	318	323	4 5	9.5 1.6
AG026	Frozen fruit:	510	525	5	1.0
	Exports	58	71	13	22.4
	Imports	63	64	1	1.6
		-5	7	12	(3)
AG027	Prepared or preserved fruit:	400	457	0	F 4
	Exports	166 421	157 414	-9 -7	-5.4 -1.7
	Imports Trade balance	-255	-257	-2	-0.8
AG028	Coffee and tea:	200	201	2	0.0
	Exports	187	231	44	23.5
	Imports	1,705	2,655	950	55.7
	Trade balance	-1,518	-2,424	-906	-59.7
AG029	Spices:	F 4	50	4	2.0
		51 223	52 272	1 49	2.0 22.0
	Imports Trade balance	-172	-220	-48	-27.9
AG030	Cereals:	172	220	40	21.5
	Exports	10,728	10,088	-640	-6.0
	Imports	586	861	275	46.9
	Trade balance	10,142	9,227	-915	-9.0
AG031	Milled grains, malts, and starches:		40.4	40	
	Exports	445	464	19	4.3
	Imports	96 349	132 332	36 -17	37.5 -4.9
AG032	Trade balance Oilseeds:	349	332	-17	-4.9
10002	Exports	4,758	4,537	-221	-4.6
	Imports	155	268	113	72.9
	Trade balance	4,603	4,269	-334	-7.3
AG033	Animal or vegetable fats and oils:				
	Exports	1,454	1,851	397	27.3
	Imports	856	1,046	190	22.2
		598	805	207	34.6
AC034					
AG034	Edible preparations:	2 5 2 2	3 062	540	21 4
AG034	Exports	2,522 1,348	3,062 1,561	540 213	21.4 15.8

See footnotes at end of table.

Table 3-2—Continued Agricultural products sector: U.S. trade for selected industry/commodity groups, by specified periods, Jan.
1993-Dec. 1994 ¹

				Change, 1994 from 1993	
USITC code ²	Industry/commodity group	1993	1994	Amount	Percen
			— Million dollars		
AG035	Cocoa, chocolate, and confectionery:				
	Exports	560	545	-15	-2.7
	Imports	1,299	1,299	0	0
	Trade balance	-739	-754	-15	-2.0
AG036	Fruit and vegetable juices:	100	104	10	2.0
.0000	Exports	470	539	69	14.7
	Imports	653	663	10	1.5
	Trade balance	-183	-124	59	32.2
AG037	Nonalcoholic beverages, excluding fruit and	100		00	02.2
	vegetable juices:	220	344	124	56.4
					26.0
	Imports	277	349	72	
AG038	Trade balance	-57	-5	52	91.2
40030	Malt beverages:	202	341	139	68.8
	Exports	929	1.038	109	11.7
	Imports	929 -727	-697	30	4.1
10000	Trade balance	-121	-097	30	4.1
4G039	Wine and certain other fermented beverages:	177	192	15	8.5
	Exports	984	1.044	60	
	Imports		7 -		6.1
0.0040	Trade balance	-807	-852	-45	-5.6
AG040	Distilled spirits:	344	356	12	3.5
		1.442	1.552	110	3.5 7.6
	Imports	-1,098	-1,196	-98	-8.9
4G041	Trade balance	-1,090	-1,190	-90	-0.9
46041		1,306	1,303	-3	-0.2
		1,300	613	-757	-0.2 -55.3
	Imports Trade balance	-64	690	754	-55.5 (³)
AG042	Cigars, and certain other manufactured tobacco:	-04	090	754	(-)
40042	Exports	327	402	75	22.9
	Imports	107	90	-17	-15.9
	Trade balance	220	312	92	41.8
4G043	Cigarettes:	220	312	92	41.0
40045	Exports	3,926	4,965	1,039	26.5
	Imports	360	73	-287	-79.7
	Trade balance	3,566	4.892	1,326	37.2
AG044	Hides, skins, and leather:	5,500	4,032	1,520	51.2
10044	Exports	1,977	2,108	131	6.6
	Imports	868	995	127	14.6
	Trade balance	1,109	1,113	4	0.4
AG045	Furskins:	1,100	1,110	-	0.4
10040	Exports	128	167	39	30.5
	Imports	83	109	26	31.3
	Trade balance	45	58	13	28.9
AG062	Ethyl alcohol for nonbeverage purposes:	10	00	10	20.0
COUCL	Exports	71	215	144	202.8
	Imports	143	146	3	2.1
	Trade balance	-72	69	141	(³)
AG063	Wool and other animal hair:				()
	Exports	14	36	22	157.1
	Imports	175	173	-2	-1.1
	Trade balance	-161	-137	24	14.9
AG064	Cotton, not carded or combed:		.0,		1.1.0
	Exports	1.528	2,653	1.125	73.6
	Imports	(4)	2,000	6	1,544.2
		1,528	2,646	1,118	73.2

¹ Import values are based on Customs value; export values are based on f.a.s. value, U.S. port of export.
 ² This coding system is used by the U.S. International Trade Commission to identify major groupings of HTS import and export items for trade monitoring purposes.
 ³ Not meaningful for purposes of comparison.
 ⁴ Less than \$500,000.

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

The trade deficit in forest products¹ increased from \$655 million in 1993 to \$1.7 billion in 1994 (table 4-1). Total trade rose by 10 percent to \$46.4 billion in 1994, as both imports and exports expanded. The value of U.S. imports of forest products grew by 12 percent, rising from \$21.4 billion to \$24.0 billion in 1994. Likewise, U.S. forest product exports rose by 8 percent, from \$20.7 billion in 1993, to \$22.4 billion in 1994. For many forest product groups, the increased trade level can primarily be attributable to improved commodity prices, which recovered in 1994 from the depressed levels of 1993.

U.S. exports of pulp, waste paper, and printing/writing papers each grew by over 20 percent in 1994, in value terms, from levels posted in 1993. Traditionally, pulp and waste paper, printed matter, industrial papers—including kraft linerboard, logs and rough wood products, and lumber account for threequarters of all forest product exports (table 4-2 and figure 4-1), whereas newsprint, lumber, printing/ writing papers, pulp, printed matter, and structural panels account for three quarters of the value of all forest product imports (table 4-3). U.S. imports of lumber increased by \$1.1 billion in 1994, rising by 20 percent and accounting for three-fifths of the total growth in imports of forest products in 1994.

U.S. Bilateral Trade

Bilateral trade in forest products amounted to \$46.4 billion in 1994. Imports from Canada, valued at \$16.4 billion (up by \$1.8 billion from 1993) accounted for over two-thirds of all U.S. forest product imports, and slightly more than one-third of all bilateral trade. The leading commodities imported from Canada were newsprint, lumber, pulp, and

CHAPTER 4 Forest Products

printing/writing papers. The Asian Pacific Rim supplied 12 percent (\$2.9 billion, \$243 million more than in 1993) of all U.S. forest product imports in 1994, while the European Union (EU)-12 supplied 8 percent (\$2.0 billion, \$209 million more than in 1993).

Collectively, about three-quarters of all U.S. forest product exports went to Canada, Japan, the EU-12, and Mexico in 1994 (figure 4-2). U.S. exports to Canada amounted to \$5.3 billion in 1994, \$473 million more than in 1993. Exports to Japan amounted to \$4.5 billion, \$92 million below 1993 shipments, while exports to the EU-12 totaled \$3.9 billion, up by \$297 million over the 1993 figure. Exports to Mexico grew by \$371 million (18 percent) to \$2.5 billion. The United States has had a significant trade deficit with Canada in forest products, but usually maintains bilateral surpluses with other leading trading partners.

Commodity Analysis

Lumber

The U.S. trade deficit in lumber widened from \$2.6 billion in 1993, to \$3.6 billion in 1994, as exports stagnated and imports continued to grow. U.S. lumber imports rose by \$1.0 billion (20 percent) in 1994 to \$6.1 billion. The bulk of the rise was accounted for by imports from Canada, by far the leading import supplier. Increases in U.S. lumber imports were also registered from most other sources including Brazil (up 56 percent), Chile (up 36 percent), and New Zealand (up 40 percent). Softwood lumber accounted for about 95 percent of total lumber imports in 1994. According to U.S. industry sources, domestic supply shortages in 1993, caused by a reduction in sales of timber from U.S. Government lands, and rising domestic demand, fueled by a general economic recovery and continued low interest rates, contributed to recordhigh U.S. lumber prices and import levels.

¹ Included here are products classified in sections IX and X of the *Harmonized Tariff Schedules of the United States* (*HTS*). This group includes wood, wood products, cork, manufacturers of straw, papermaking pulp, waste paper, paper and paperboard, articles made from paper and paperboard, and printed material.

Table 4-1

Forest products: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1993 and 1994¹

			Change, 19	94 from 1993
Item	1993	1994	Amount	Percent
		— Million dollars		
U.S. exports of domestic merchandise:				
Canada	4,833	5,306	473	9.8
Japan	4,634	4,542	-91	-2.0
Мехісо	2,081	2,452	371	17.8
United Kingdom	950	995	44	4.7
Germany	815	823	7	0.9
Korea	817	932	114	14.0
Taiwan	564	646	82	14.6
	276 449	313 570	36 121	13.1 27.0
Italy	125	169	44	35.3
All other	5,194	5,639	445	8.6
Total	20,739	22,386	1,647	7.9
EU-12	3,648	3,945	297	8.1
OPEC	553	610	57	10.4
Latin America	3,434	3,978	543	15.8
CBERA	688	754	66	9.7
Asian Pacific Rim	7,695	8,018	323	4.2
ASEAN	636	785	150	23.5
Eastern Europe	24	22	-2	-7.1
U.S. imports for consumption:	44540	40.070	4 004	40.0
Canada	14,542	16,373	1,831	12.6
Japan Mexico	392 516	427 565	34 49	8.8 9.6
United Kingdom	548	635	49 87	15.9
Germany	435	480	45	10.4
Korea	120	137	16	13.5
Taiwan	315	293	-21	-6.8
China	493	621	128	25.9
Italy	217	242	25	11.6
Brázil	480	625	145	30.1
All other	3,336	3,640	304	9.1
Total	21,394	24,037	2,644	12.4
EU-12	1,827	2,036	210	11.5
OPEC	523	549	26	4.9
	1,281	1,563	282	22.0
CBERA	66	80	14 243	20.9 9.3
Asian Pacific Rim	2,617 1,038	2,860 1,116	243 78	9.3 7.5
Eastern Europe	1,038	16	4	29.0
	15	10	4	23.0
U.S. merchandise trade balance: Canada	-9,708	-11,067	-1,358	(2)
Japan	4,241	4,116	-126	<u>}</u> 2{
Mexico	1,565	1,887	322	(2)
United Kingdom	402	359	-43	(2)
Germany	381	343	-38	(²)
Korea	697	795	98	(2)
Taiwan	250	353	104	(2)
China	-217	-309	-92	(<u>2</u>)
Italy	232	328	96	(2) (2) (2) (2) (2) (2)
Brazil	-355	-456	-101	$\binom{2}{2}$
All other	1,858	1,999	141	
Total EU-12	-655 1 821	-1,652	-997 87	(2) (2) (2) (2) (2) (2) (2) (2) (2)
OPEC	1,821	1,909 61	87 32	2
Latin America	30 2,153	2,415	261	$\sum_{i=1}^{n}$
CBERA	622	674	53	$\overline{2}$
Asian Pacific Rim	5,078	5,159	80	22
ASEAN	-402	-330	72	<u>2</u> 2
Eastern Europe	11	6	-5	<u>2</u> 2
	11	0	-0	()

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

Note.—Because of rounding, figures may not add to the totals shown. The countries shown are those with the largest total U.S. trade (U.S. imports plus exports) in these products in 1994.

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

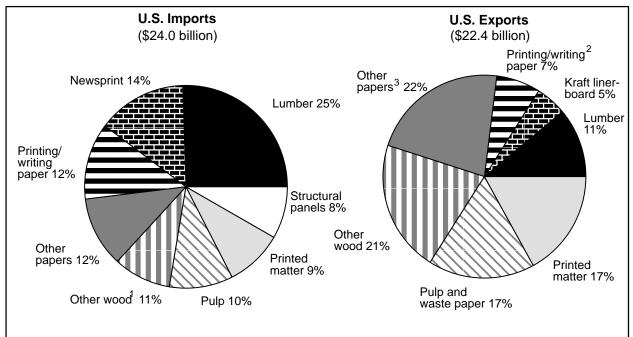
Table 4-2 Changes in U.S. exports of forest products in 1993-94

	Change in 1994			
Industry/Commodity	Value	Percent	Total value in 1994	
	Million dollars		Billion dollars	
Pulp and waste paper Printed matter Industrial papers Logs and rough wood products Lumber Other	817 -39 496 -171 -12 557	27 -1 15 -5 (¹) 11	3.8 3.8 3.0 2.5 5.5	
Total	1,647	8	22.4	

¹ Less than -0.5.

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

Figure 4-1 U.S. forest products trade: By major groupings, 1994



¹ Includes cork and rattan.

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

² Includes newsprint.

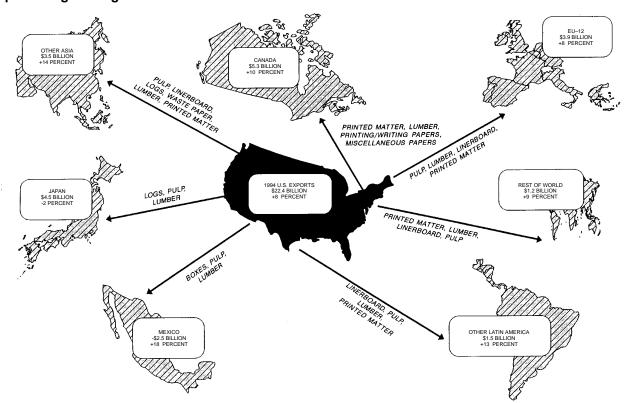
³ Includes industrial papers (excluding linerboard), specialty papers, and other converted papers.

Table 4-3
Changes in U.S. imports of forest products in 1993-94

	Change in 1994		
Industry/Commodity	Value	Percent	Total value in 1994
	Million dollars		Billion dollars
Lumber	1,027	20	6.1
Printing and writing paper	197	7	2.8
Printing and writing paper Printed matter	184	9	2.1
Pulp	430	23	2.3
Structural panel products	305	20	1.8
Newsprint	-261	-7	3.3
Other	760	16	5.5
Total	2,643	12	24.0

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

Figure 4-2 U.S. forest products sector exports, 1994: Leading U.S. exports, by major markets, and overall percentage change since 1993



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

U.S. lumber exports declined by \$12 million in 1994 to \$2.5 billion. Exports to Japan declined by 0.5 percent to \$761 million, while exports to Canada increased 5.5 percent to \$389 million. Together these two countries accounted for 47 percent of U.S. lumber exports. Exports to major EU markets increased slightly generally reflecting the EU emergence from a prolonged recession. The United States exports substantial amounts of both softwood and hardwood lumber.² U.S. softwood lumber exports declined in quantity from 5.4 million cubic meters in 1993 to 5.1 million cubic meters in 1994, or by 5 percent. The value of such exports declined by about 4 percent to \$1.3 billion. Strong U.S. demand, which elevated domestic prices, contributed to the decline.

Exports of hardwood lumber rose slightly from 2.3 million cubic meters in 1993 to 2.4 million cubic meters in 1994; the value rose by 4 percent to \$1.1 billion in 1994. The primary markets for hardwood lumber were Canada (23 percent of the total value of exports in 1994) and Japan (12 percent). The value of hardwood lumber exports to Canada increased by 7 percent to \$300 million. Hardwood lumber exports to Japan, Germany, and Belgium (the 2nd-, 3rd-, and 4th-ranked markets) declined by a combined \$30 million in 1994, as compared with the 1993 figure. However, exports to Mexico, South Korea, and Italy increased by a total of \$46 million.

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Wood pulp and wastepaper

The value of U.S. trade in wood pulp and wastepaper increased significantly between 1993 and 1994. This was primarily due to an improvement in global prices in 1994, following a year of depressed prices in 1993. Pulp producers, especially, experience wide price fluctuations. Slight imbalances between global supply and demand have contributed greatly to these cycles.

Pulp imports rose by 23 percent in 1994 to \$2.3 billion. This increase consisted of a 17-percent increase in average unit value—from \$379 per metric ton to \$444 per metric ton, and an overall 6-percent quantity growth—from 4.9 million metric tons to 5.1 million metric tons. The leading import grade of pulp, bleached softwood kraft, actually experienced a 2-percent decline in tonnage to 3.2 million metric tons. However, the import unit value for bleached softwood kraft pulp increased by 18 percent, reaching \$444 per metric ton in 1994. Canada supplied 98 percent of all bleached softwood kraft pulp imports in 1994. The second leading grade of imported pulp, bleached hardwood kraft, experienced a 33-percent growth in tonnage to 1.0 million metric tons and a 24-percent rise in unit value to \$452 per metric ton in 1994. Brazil edged out Canada as the leading source for U.S. imports of bleached hardwood kraft pulp in 1994, supplying 514,321 tons (up from 397,485 tons in 1993) to Canada's 486,115 tons (354,211 tons in 1993).

The value of pulp and wastepaper exports increased by 27 percent to \$3.8 billion in 1994. Pulp exports alone grew by 19 percent, on a value basis, to \$2.9 billion. The increase in pulp exports resulted from a 15-percent increase in average unit value to \$471 per metric ton and an overall 3-percent quantity rise to 6.2 million metric tons. Similar to U.S. imports, the leading and second-leading grades for U.S. pulp exports are bleached softwood kraft and bleached hardwood kraft pulps. Bleached softwood kraft exports grew by 12 percent, in unit value terms, to \$463 per metric ton and 7 percent, in quantity terms, to 2.8 million metric tons in 1994. U.S. exports of bleached hardwood kraft increased by 30 percent in unit value to \$409 per metric ton, although the quantity actually declined by 4 percent to 2.0 million metric tons in 1994. U.S. exports of both bleached hardwood and softwood kraft are shipped to numerous global markets, with no single market accounting for a dominant share of exports.

The value of wastepaper exports increased by 64 percent in 1994, as the result of an overall 31-percent growth in tonnage to 7.0 million metric tons, and an average 25-percent rise in unit value to \$125 per metric ton. The largest component of wastepaper exports, accounting for slightly under one-half of all wastepaper exports, was unbleached kraft paper. The primary component of unbleached kraft paper exports is old corrugated containers. Traditionally, four markets—Canada, Mexico, South Korea, and Taiwan—have collectively accounted for about two-thirds of all U.S. wastepaper exports. In 1994, Canada accounted for 23 percent (by quanti-ty) of these exports and the other three countries each accounted for about 15 percent.

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² Softwood lumber is used primarily for construction, while hardwood lumber is used primarily for furniture.

Table 4-4 Forest products sector: U.S. trade for selected industry/commodity groups, by specified periods, Jan. 1993-Dec. 1994¹

USITC	Industry/commodity group		1994	Change, 1994 from 1993	
code ²		1993		Amount	Percent
			— Million dollars		
AG046	Logs and rough wood products:				
	Exports	3,134	2,963	-171	-5.5
	Imports	387	366	-21	-5.4
0047		2,747	2,597	-150	-5.5
AG047	Lumber:	2 470	0.459	10	0.5
	Exports	2,470 5,032	2,458 6,059	-12 1,027	-0.5 20.4
	Trade balance		-3,601	-1,039	-40.6
AG048	Moldings, millwork, and joinery:	2,002	0,001	1,000	40.0
	Exports	458	443	-15	-3.3
	Imports	812	959	147	18.1
_	Trade balance	-354	-516	-162	-45.8
\G049	Structural panel products:				
	Exports	921	962	41	4.5
	Imports	1,515	1,820	305	20.1
G050		-594	-858	-264	-44.4
40050	Wooden containers: Exports	83	76	-7	-8.4
	Imports	174	197	23	13.2
	Trade balance	-91	-121	-30	-33.0
AG051	Tools and tool handles of wood:	01	121	00	00.0
	Exports	20	16	-4	-20.0
	Imports	94	109	15	16.0
	Trade balance	-74	-93	-19	-25.7
G052	Miscellaneous articles of wood:				
	Exports	155	177	22	14.2
	Imports	465	540	75	16.1
AG053	Trade balance	-310	-363	-53	-17.1
40000	Cork and rattan: Exports	44	50	6	13.6
	Imports	354	360	6	1.7
	Trade balance	-310	-310	õ	0
\G054	Wood pulp and wastepaper:			-	-
	Exports	2,999	3,816	817	27.2
	Imports	1,899	2,329	430	22.6
	Trade balance	1,100	1,487	387	35.2
AG055	Paper boxes and bags:	750	074	110	15.0
		752 358	871 451	119 93	15.8 26.0
	Imports Trade balance	394	420	26	20.0
AG056	Industrial papers and paperboards:	004	420	20	0.0
.0000	Exports	3,331	3,827	496	14.9
	Imports	1,114	1,388	274	24.6
	Trade balance	2,217	2,439	222	10.0
AG057	Newsprint:				
	Exports	496	481	-15	-3.0
	Imports	3,593	3,333	-260	-7.2
AG058	Trade balance	-3,097	-2,852	245	7.9
40000	Printing and writing papers: Exports	911	1,146	235	25.8
	Imports	2,634	2,831	197	7.5
	Trade balance		-1,685	38	2.2
AG059	Certain specialty papers:	.,	.,		
	Exports	432	530	98	22.7
	Imports	512	568	56	10.9
	Trade balance	-80	-38	42	52.5
AG060	Miscellaneous paper products:	700	704	75	10.0
	Exports	706	781	75	10.6
	Imports	489	583	94	19.2
G061	Trade balance Printed matter:	217	198	-19	-8.8
10001	Exports	3.828	3,788	-40	-1.0
	Imports	1,962	2,146	184	9.4
	Trade balance	1,866	1,642	-224	-12.0

 ¹ Import values are based on Customs value; export values are based on f.a.s. value, U.S. port of export.
 ² This coding system is used by the U.S. International Trade Commission to identify major groupings of HTS import and export items for trade monitoring purposes.

CHAPTER 5 Chemicals and Related Products

The U.S. trade surplus in chemicals and related products increased by \$1.3 billion in 1994 over 1993 to \$13.5 billion (table 5-1). As shown in table 5-2, both exports and imports increased in every major type of chemical product. The trade surplus grew in general organic chemicals because of a general increase in the world economy, especially in Asia and Latin America. The trade surplus in plastic resins and elastomers also rose substantially because of high export sales of specialty plastic resins made by leading domestic firms. The growth in the surplus in agricultural chemicals was caused principally by a large increase in exports of fertilizer products to China.

U.S. Bilateral Trade

Country and regional trade in chemicals and allied products is shown in table 5-1 and figures 5-1 and 5-2. Canada remains the largest U.S. trading partner for chemical products, with increases in both exports and imports of about \$1.5 billion, producing a slight decline of \$180 million in the U.S. bilateral trade surplus with Canada. Japan is the second-largest U.S. two-way trading partner for chemical products, accounting for approximately \$5 billion in U.S. exports and \$6 billion in imports, producing a \$518-million decline in the U.S. trade Mexico received U.S. chemical exports deficit. worth nearly \$6 billion, about a 30-percent increase over 1993, providing a growth in the trade surplus of slightly more than \$1 billion. Germany showed an expansion in both chemical exports and imports, increasing the U.S. bilateral trade deficit by \$190 million.

The largest U.S. regional trade surplus in 1994 was with Latin America. The \$8.8 billion surplus in 1994 was an increase of \$1.7 billion over 1993. The Asian Pacific Rim countries, as a group, and the European Union (EU) were the largest U.S. trading partners and were roughly equal in terms of total trade with the United States. Chemicals and allied products are principally used as producers' goods in manufacturing other products, for example, synthetic fibers, dyes, pipes, and tubing. The large quantity of U.S. trade in both directions with the previously noted regions reflects trade with industrialized countries, specialization of production, and the availability of low-cost ocean transportation systems. There is a considerable degree of multinational integration in many chemical products, contributing to the high two-way flow between related parties.

Commodity Analysis

Benzenoid commodity chemicals

The U.S. trade surplus in benzenoid commodity chemicals increased from \$874 million in 1993 to \$1,163 million in 1994 because of the increase in U.S. exports of monomers used to make plastic resins. A monomer is one of the repeating molecular units comprising the long chain of a polymeric substance. For example, styrene is the monomer for polystyrene, a common plastic resin.

Exports of styrene, the total value of which were \$725 million in 1994, accounted for 81 percent of the increase (\$343 million) in U.S. exports of benzenoid commodity chemicals over 1993-94. The principal 1994 export markets for styrene were Taiwan (\$324 million) and the Netherlands (\$111 million). Several factors led styrene exports to increase, including severe drought conditions in the Asia/Pacific region in 1994 that caused problems with hydroelectric generating facilities, which in turn reduced regional production of styrene, as well as other commodity chemicals. In addition, chemical plant fires in Taiwan, a major consuming country for plastics monomers, as well as other production problems at chemical plants throughout the region, necessitated an increase in imports of intermediate chemicals from other world producers, principally the United States. European producers also encountered styrene production problems during 1994.

According to reports in trade journals, the Asia/Pacific region accounted for 37 percent of world conTable 5-1

Chemicals and related products: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1993 and 1994¹

			Change, 1994 from 1993	
Item	1993	1994	Amount	Percent
		— Million dollars		
U.S. exports of domestic merchandise:				
Canada	10,588	12,022	1,434	13.5
Japan	4,590	4,954	364	7.9
	4,612	5,979	1,367	29.6
Germany	1,951	2,215	264	13.5
United Kingdom	1,968 2,028	2,204 2,399	236 371	12.0 18.3
Taiwan France	1,272	1,463	191	15.0
China	842	1,524	682	81.0
Belgium	2,305	2,698	393	17.0
Netherlands	2,304	2,530	226	9.8
All other	17,372	19,200	1,828	10.5
Total	49,833	57,188	7,355	14.8
EU-12	11,854	13,186	1,332	11.2
OPEC	1,811	1,817	6	0.3
Latin America	9,788	12,040	2,252	23.0
CBERA	1,237	1,363	127	10.2
Asian Pacific Rim	13,521	15,564	2,042	15.1
ASEAN	2,307	2,647	340	14.7
Eastern Europe	112	115	3	2.3
U.S. imports for consumption:				
Canada	7,197	8,812	1,615	22.4
Japan	5,442	6,324	882	16.2
Mexico	1,124	1,461	337	30.0
Germany	3,656	4,111	454	12.4
United Kingdom	2,862	3,216	353 -6	12.3 -0.5
Taiwan France	1,276 1,994	1,269 2,180	-6 185	-0.5 9.3
China	1,591	2,039	448	28.2
Belgium	711	785	73	10.3
Netherlands	733	797	64	8.8
All other	11,009	12,690	1,681	15.3
Total	37,596	43,683	6,087	16.2
EU-12	12,495	13,824	1,329	10.6
OPEC	860	1,225	365	42.4
	2,691	3,256	565	21.0
CBERA	527	604	76	14.5
Asian Pacific Rim	11,257	12,805	1,549	13.8
ASEAN	1,858	2,129	271	14.6
Eastern Europe	159	263	104	65.1
U.S. merchandise trade balance:				<i>(</i>)
Canada	3,391	3,210	-181	(2)
	-852	-1,370	-518	$\binom{2}{2}$
	3,489	4,518 -1,896	1,030 -190	(2)
Germany	-1,706 -895	-1,012	-118	
United Kingdom	-895 753	1,129	377	\sum_{2}
France	-722	-716	6	22
China	-749	-515	234	22
Belgium	1,594	1,913	319	(2)
Netherlands	1,571	1.733	162	(2)
All other	6,363	6,509	147	(2) (2)
Total	12,237	13,505	1,268	(2) (2) (2) (2) (2) (2) (2) (2) (2)
EU-12	-640	-638	2	(<u>2</u>)
OPEC	_ 951	592	-359	$\binom{2}{2}$
Latin America	7,097	8,784	1,687	(2)
CBERA	709	760	50	$\binom{2}{2}$
	2,265	2,758	493	(2)
ASEANEastern Europe	449 -47	518 -148	69 -101	2
	-+/	-140	-101	(-)

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

Note.—Because of rounding, figures may not add to the totals shown. The countries shown are those with the largest total U.S. trade (U.S. imports plus exports) in these products in 1994.

Table 5-2
U.S. trade in chemicals and related products, by major types, 1993 and 1994

Product grouping	1993	1994	Increase	Change
		— Million dollar	s	Percent
U.S. exports:				i ciccin
Tires, rubber, and plastic articles	9.055	10.486	1,431	15.8
General organic chemicals	11,854	13.647	1.793	15.1
Pharmaceuticals, incl. antibiotics	7.270	7.607	337	4.6
Plastic resins and elastomers	8.225	9.657	1,432	17.4
Consumer and industrial products	4.293	4.996	703	16.4
	3.887	4,990	316	8.1
General inorganic chemicals				
Agricultural chemicals	3,461	4,516	1,055	30.5
Dyes, pigments, paints, inks	1,788	2,076	288	16.1
Total	49,833	57,188	7,355	14.8
U.S. imports:				
Tires, rubber, and plastic articles	10,142	11,639	1,497	14.8
Canaral argania abamiaala				14.8
General organic chemicals	7,591	8,988	1,397	
Pharmaceuticals, incl. antibiotics	6,123	6,968	845	13.8
Plastic resins and elastomers	3,941	4,894	953	24.2
Consumer and industrial products	2,958	3,305	347	11.7
General inorganic chemicals	3,372	3,791	419	12.4
Agricultural chemicals	2,425	2,892	467	19.3
Dyes, pigments, paints, inks	1,044	1,206	162	15.5
Total	37,596	43,683	6,087	16.2
Balance of trade:				
Tires, rubber, and plastic articles	-1.087	-1.153	-66	(1)
General organic chemicals	4.263	4.659	396	21
Pharmaceuticals, incl. antibiotics	1.147	639	-508	$\rangle_1\langle$
Plastic resins and elastomers	4.284	4.763	-508 479	$\rangle_1\langle$
				$\sum_{i=1}^{n}$
Consumer and industrial products	1,335	1,691	356	(')
General inorganic chemicals	515	412	-103	(1)
Agricultural chemicals	1,036	1,624	588	(')
Dyes, pigments, paints, inks	744	870	126	(1)
Total	12,237	13,505	1,268	(1)

¹ Not meaningful for purposes of comparison.

Note.—Because of rounding, figures may not add to the totals shown. The product lines shown are arranged in decreasing order of total trade flow (imports + exports) in these products in 1994.

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

sumption of styrene monomer in 1994 (compared with 29 percent for North America and 30 percent for Western and Eastern Europe). The United States, with approximately 39 percent of world styrene production capacity, operated at an overall capacity utilization rate of 89 percent in 1994 and produced a total of about 11 billion pounds of this chemical.

U.S. exports of terephthalic acid (PTA), an intermediate chemical used in the production of polyester resins, and of phenol and p-xylene also increased over 1993-94. Like styrene, PTA and phenol are utilized as monomers in the manufacture of plastics resins, while p-xylene is the chemical feedstock for the manufacture of PTA. Exports of these chemicals increased for the same reasons that styrene exports increased.

Imports of benzenoid commodity chemicals increased slightly in 1994, from \$339 million in 1993 to \$392 million in 1994. However, such imports represented only 3 percent of apparent U.S. consumption of these chemicals in 1994. Canada was the largest source, and represented the greatest increase in imports of these chemicals during 1994, accounting for 47 percent of the value of total imports. The principal product imported from Canada in 1994 was styrene, valued at \$160 million. Virtually all styrene imported from Canada entered under the provisions of the North American Free Trade Agreement (NAFTA). Total NAFTA imports of this group of chemicals was \$188 million in 1994, with Canada and Mexico accounting for 89 percent and 11 percent respectively of the total value of these products.

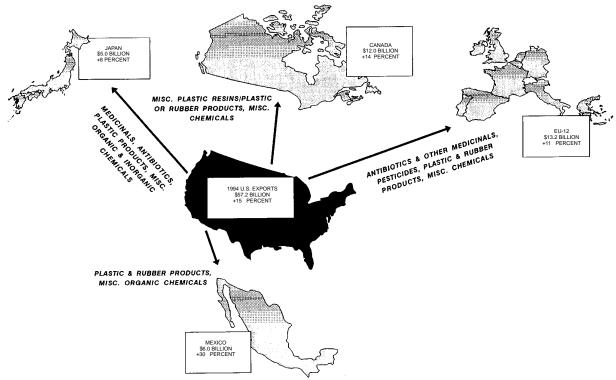
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Fertilizers

A small increase in U.S. imports, combined with a significant export increase, yielded a \$463-million increase in the U.S. trade surplus in fertilizers, to \$740 million in 1994. U.S. fertilizer exports increased by \$903 million (48 percent) to \$2.8 billion due to significant export increases to China (223 percent) and Brazil (94 percent). The Chinese increase is characteristic of their purchasing patterns, which frequently exhibit significant annual changes.

Figure 5-1

U.S. chemical and related products sector exports, 1994: Leading U.S. exports, by major markets, and overall percentage change since 1993



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

China is a major export market for U.S. nitrogenous and phosphatic fertilizers. Although China tends to purchase fertilizers from foreign suppliers during periods when the country has ample hard currency to pay for these products and when prices are as low as they were during 1994, other nonfiscal factors may take precedence in procurement decisions. For example, significant lag time in fertilizer distribution to end users in the Chinese market, caused by a lack of modern infrastructure, often disrupts procurement and can result in major shifts in fertilizer exports to China. Brazil, on the other hand, is a major market for U.S. potash. The fertilizer export increase to Brazil was largely attributed to the recapture of market share that was lost to lower priced potash originating from Russia and Belarus during 1993.

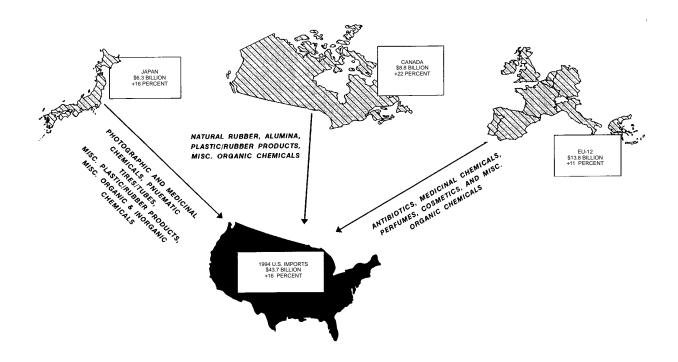
U.S. imports of fertilizers increased by \$440 million (28 percent) in 1994 to \$2.0 billion. This increase was due primarily to nitrogenous and potassic fertilizers, particularly ammonia. The United States has sustained import reliance in nitrogenous fertilizers for many years. Reported increased purchases of ammonia from Trinidad and Tobago, Mexico, and Saudi Arabia; urea from Canada, Bulgaria, and Mexico; and ammonium nitrate from Russia were the major contributors to the rise in the total value of fertilizer imports in 1994.

According to U.S. Government sources, imports of nitrogenous fertilizers increased in 1994 because the domestic nitrogenous fertilizer industry was unable to satisfy domestic demand, despite operating its plants at 100-percent capacity. This situation was largely due to increased Chinese demand for downstream nitrogenous and phosphatic fertilizers, which require ammonia as a production input.¹ The domestic potassic fertilizer industry lacks the natural resource base to satisfy domestic demand and therefore, U.S. consumers must rely on imported material, primarily from Canada.

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¹ Raymond L. Cantrell, "Nitrogen Compounds," draft article to be published in *Mining Engineering*, p. 1–3.

Figure 5-2 U.S. chemical and related products sector imports, 1994: Leading U.S. imports, by major sources, and overall percentage change since 1993



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

Medicinal chemicals, except antibiotics

The U.S. pharmaceutical industry has traditionally maintained a positive balance of trade. The size of the surplus, however, has fluctuated over the years. In 1994, the U.S. trade surplus in all medicinal chemicals except antibiotics declined by \$402 million to \$391 million. Although U.S. exports of these products increased by 7 percent to \$6.1 billion during 1993-94, U.S. imports increased by 16 percent (or \$791 million) to \$5.7 billion. The three largest sources of such imports in 1994, by value, were the United Kingdom (21 percent), Germany (12 percent), and Japan (10 percent). The largest increase by value in imports during 1993-94, how-

ever, occurred with two countries: Canada (53 percent) and Sweden (48 percent).

The increase in pharmaceutical imports, particularly from Sweden, is attributable to related party trade, in which the importer is often either the patent holder or the U.S. licensee. The increase can also be partially attributed to the expiration of U.S. patents on approximately 200 products during 1990-95. As a result, more companies are likely to be importing bulk product to manufacture generic formulations to supply the market or, for newer products, to obtain marketing approval from the U.S. Food and Drug Administration.

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Table 5-3 Chemicals and related products sector: U.S. trade for selected industry/commodity groups, by specified periods, Jan. 1993-Dec. 1994¹

				Change, 1994 from 1993	
USITC code ²	Industry/commodity group	1993	1994	Amount	Percent
			— Million dollars		
CH008	Other olefins:				
	Exports	223	190	-33	-14.8
	Imports Trade balance	35 188	38 152	3 -36	8.6 -19.1
CH009	Primary aromatics:	100	102	-50	10.1
	Exports	145	138	-7	-4.8
	Imports	169	158	-11	-6.5
CU010	Trade balance	-24	-20	4	16.7
CH010	Benzenoid commodity chemicals: Exports	1,213	1,555	342	28.2
	Imports	339	392	53	15.6
	Trade balance	874	1,163	289	33.1
CH011	Benzenoid specialty chemicals:	0.050	4.070	100	44.0
	Exports	3,650	4,073 2,281	423	11.6 10.6
	Imports Trade balance	2,063 1,587	1,792	218 205	12.9
CH012	Miscellaneous organic chemicals:	1,001	1,702	200	12.0
	Exports	4,886	5,897	1,011	20.7
	Imports	3,502	4,445	943	26.9
CH013	Trade balance	1,384	1,452	68	4.9
	Selected inorganic chemicals and elements: Exports	781	790	9	1.2
	Imports	1,252	1,235	-17	-1.4
	Trade balance	-471	-445	26	5.5
CH014	Inorganic acids:	4 5 7	100	0	4.0
	Exports	157 144	160 199	3 55	1.9 38.2
	Imports Trade balance	144	-39	-52	-400.0
CH015	Salts and other inorganic chemicals:	10	00	02	100.0
	Exports	2,222	2,487	265	11.9
	Imports	1,812	2,166	354	19.5
CH016	Trade balance Chlor-alkali chemicals:	410	321	-89	-21.7
	Exports	598	594	-4	-0.7
	Imports	125	149	24	19.2
	Trade balance	473	445	-28	-5.9
CH017	Industrial gases:	00	405	0	6.4
	Exports	99 39	105 42	6 3	6.1 7.7
	Trade balance	60	63	3	5.0
CH018	Fertilizers:			-	
	Exports	1,877	2,780	903	48.1
	Imports	1,600	2,040	440	27.5
CH019	Trade balance Paints, inks, and related items, and certain	277	740	463	167.1
011013	components thereof:				
	Exports	1,772	2,057	285	16.1
	Imports	980	1,148	168	17.1
011000	Trade balance	792	909	117	14.8
CH020	Synthetic organic pigments:	267	299	32	12.0
	Exports	294	339	45	15.3
	Trade balance	-27	-40	-13	-48.1
CH021	Synthetic dyes and azoic couplers:				
	Exports	200	227	27	13.5
	Imports Trade balance	583 -383	595 -368	12 15	2.1 3.9
CH022	Synthetics tanning agents:	-303	-500	15	5.5
0	Exports	10	11	1	10.0
	Imports	6	6	0	0
CHOOO	Trade balance	4	5	1	25.0
CH023	Natural tanning and dyeing materials: Exports	16	19	3	18.8
	Imports	64	58	-6	-9.4
	Trade balance	-48	-39	9	18.8
CH024	Photographic chemicals and preparations:				
	Exports	331	383	52	15.7
	Imports Trade balance	554 -223	650 -267	96 -44	17.3 -19.7
	11000 Dalance	-225	-201	-++	-13.1

See footnotes at end of table.

Table 5-3—*Continued* Chemicals and related products sector: U.S. trade for selected industry/commodity groups, by specified peri-ods, Jan. 1993-Dec. 1994¹ _

				Change, 199	4 from 1993
USITC code ²	Industry/commodity group	1993	1994	Amount	Percent
			— Million dollars	;	
CH025	Pesticide products and formulations:				
	Exports	1,584	1,736	152	9.6
	Imports	825	852	27	3.3
H026	Trade balanceAdhesives and glues:	759	884	125	16.5
	Exports	256	308	52	20.3
	Imports	118	134	16	13.6
H027	Trade balance Medicinal chemicals, except antibiotics:	138	174	36	26.1
	Exports	5,690	6,079	389	6.8
	Imports	4,897	5,688	791	16.2
	Trade balance	793	391	-402	-50.7
H028	Antibiotics:	1 590	1 500	50	2.2
	Exports	1,580	1,528	-52 54	-3.3 4.4
	Imports Trade balance	1,226 354	1,280 248	-106	-29.9
H029	Essential oils and other flavoring materials:	554	240	-100	-23.5
11020	Exports	734	848	114	15.5
	Imports	557	624	67	12.0
	Trade balance	177	224	47	26.6
H030	Perfumes, cosmetics, and toiletries:				
	Exports	1,415	1,715	300	21.2
	Imports	973	1,055	82	8.4
H031	Trade balance	442	660	218	49.3
11031	Soaps, detergents, and surface-active agents:	1,263	1,454	191	15.1
	Exports Imports	450	556	106	23.6
	Trade balance	813	898	85	10.5
H032	Miscellaneous chemicals and specialties:	010	000	00	10.0
511002	Exports	1,289	1,371	82	6.4
	Imports	603	733	130	21.6
	Trade balance	686	638	-48	-7.0
CH033	Explosives, propellant powders and related items:				
	Exports	259	252	-7	-2.7
	Imports	209	196	-13	-6.2
		50	56	6	12.0
CH034	Polyethylene resins in primary forms:	1 260	1 450	100	15 0
		1,260 571	1,459 783	199 212	15.8 37.1
	Imports Trade balance	689	676	-13	-1.9
CH035	Polypropylene resins in primary forms:	005	070	10	1.5
11000	Exports	432	449	17	3.9
	Imports	116	155	39	33.6
	Trade balance	316	294	-22	-7.0
H036	Polyvinyl chloride resins in primary forms:				
	Exports	500	671	171	34.2
	Imports	117	182	65	55.6
		383	489	106	27.7
CH037	Styrene polymers in primary forms:	000	000	00	40.0
	Exports	600	662	62	10.3
	Imports	235	300	65	27.7
CH038	Trade balance Saturated polyester resins:	365	362	-3	-0.8
1030	Exports	390	491	101	25.9
	Imports	108	197	89	82.4
	Trade balance	282	294	12	4.3
H039	Other plastics in primary forms:				
	Exports	3,992	4,670	678	17.0
	Imports	1,386	1,684	298	21.5
	Trade balance	2,606	2,986	380	14.6
CH040	Styrene-butadiene rubber in primary forms:				
	Exports	255	298	43	16.9
	Imports	111	137	26	23.4
	Trade balance	144	161	17	11.8
H041	Other synthetic rubber: Exports	769	874	105	13.7
	Imports	445	491	46	10.3
	Trade balance	324	383	59	18.2
			500	~~	10.2

 Table 5-3—Continued

 Chemicals and related products sector: U.S. trade for selected industry/commodity groups, by specified peri ods, Jan. 1993-Dec. 1994¹

				Change, 199	4 from 1993
USITC code ²	Industry/commodity group	1993	1994	Amount	Percent
			— Million dolla	rs	
CH042	Pneumatic tires and tubes (new)				
0.10.12	Exports	1,464	1,614	150	10.2
	Imports	2.661	2.960	299	11.2
	Trade balance	-1.197	-1.346	-149	-12.4
CH043	Other tires:	-1,137	-1,540	-143	-12.4
011045		66	79	13	19.7
	Exports	107	114	7	
	Imports				6.5
011044	Trade balance	-41	-35	6	14.6
CH044	Plastic or rubber semifabricated forms:	0.400	0 500		
	Exports	3,139	3,596	457	14.6
	Imports	2,015	2,286	271	13.4
	Trade balance	1,124	1,310	186	16.5
CH045	Plastic containers and closures:				
	Exports	914	1,060	146	16.0
	Imports	845	968	123	14.6
	Trade balance	69	92	23	33.3
CH046	Hose, belting and plastic pipe:				
	Exports	880	1.027	147	16.7
	Imports	699	855	156	22.3
	Trade balance	181	172	-9	-5.0
CH047	Miscellaneous rubber or plastics products:	101	172	0	0.0
011047	Exports	2.592	3.110	518	20.0
	Imports	3,815	4.456	641	16.8
	Trade balance	-1.223	-1.346	-123	-10.1
CH048	Gelatin:	-1,223	-1,540	-123	-10.1
CH040		25	26	4	2.0
	Exports	35	36	1	2.9
	Imports	97	90	-7	-7.2
011040	Trade balance	-62	-54	8	12.9
CH049	Natural rubber:				
	Exports	27	33	6	22.2
	Imports	852	965	113	13.3
	Trade balance	-825	-932	-107	-13.0

¹ Import values are based on Customs value; export values are based on f.a.s. value, U.S. port of export. ² This coding system is used by the U.S. International Trade Commission to identify major groupings of HTS import and export items for trade monitoring purposes.

CHAPTER 6 Energy-Related Products

The overall U.S. trade deficit in terms of energy-related products increased by \$2 billion in 1994, to \$45.9 billion (table 6-1). Historically, the United States has maintained a trade deficit in the energyrelated products sector primarily because of its heavy reliance on imported crude petroleum.

The primary sources of U.S. imports of energy-related products are Canada, Saudi Arabia, and Venezuela (figure 6-1). Canadian sources are connected to the U.S. mainland by a sophisticated and intricate system of pipelines that carry natural gas, crude petroleum, and refined petroleum products, and by an intricate system of electricity interconnection grids. The largest bilateral increase in the U.S. energy trade deficit was registered with Canada, rising from \$10.5 billion in 1993 to \$11.4 billion in 1994, primarily as a result of increased imports and decreased exports of electricity.

Saudi Arabia and Venezuela are also major sources of crude petroleum and refined petroleum products for the U.S. market. Because of a decline in the per-barrel price of crude petroleum on the world market, the value of the U.S. trade deficit with Saudi Arabia and Venezuela in particular (which are members of the Organization of Petroleum Exporting Countries (OPEC)), as well as with all of the OPEC nations combined, declined by \$1.3 billion. However, the actual trend in U.S. dependence on OPEC petroleum is just the opposite; in terms of quantity, U.S. imports of both crude petroleum and refined petroleum products from OPEC increased from 4.1 million barrels per day in 1993 to 4.5 million barrels per day in 1994.

The U.S. trade deficit with the EU in energy-related products increased by \$1.4 billion in 1994 because of a decline in U.S. exports of coal, which have decreased because of a plentiful supply of relatively inexpensive crude petroleum, the preferred energy source, on the world market. The U.S. energy-related products trade surplus with Japan decreased by \$367 million to \$1.5 billion in 1994 because of a decrease in U.S. exports of coke to that market.

Commodity Analysis

Electrical energy

Most U.S. utilities do not depend on foreign sources to provide major portions of their electricity supply; nevertheless, electricity trade plays a varying role from region to region, and it fluctuates from year to year as a result of changing hydroelectric conditions. Canada is the primary U.S. electricity trading partner because trade in electricity is conducted over the existing interconnected transmission systems. Trade with Quebec uses direct current lines; the Provinces of New Brunswick, Ontario, Manitoba, and Saskatchewan are interconnected with the United States in an alternating current grid and are synchronized with utilities in the Eastern U.S. power grid. Alberta and British Columbia are synchronized with U.S. utilities operating in the Western power grid and sell electricity to the Western portion of the United States.

The value of U.S. imports of electricity increased from \$662 million in 1993 to \$960 million in 1994. U.S. exports decreased from \$61 million in 1993 to \$30 million in 1994.

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Coal, coke, and related chemical products

The United States is one of the world's largest suppliers of coal and is a net exporter. However, in 1994, a slight decrease in exports combined with an increase in imports resulted in a \$319 million deterioration in the trade surplus to \$2.7 billion. U.S. exports of coal, coke, and related products decreased from \$3.6 billion in 1993 to \$3.5 billion in 1994. This decrease was primarily attributable to reduced demand for coal after relatively inexpensive crude petroleum (the preferred energy source) became abundant on the world market. The major markets for U.S. exports of these products continTable 6-1

Energy-related products: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1993 and 1994¹

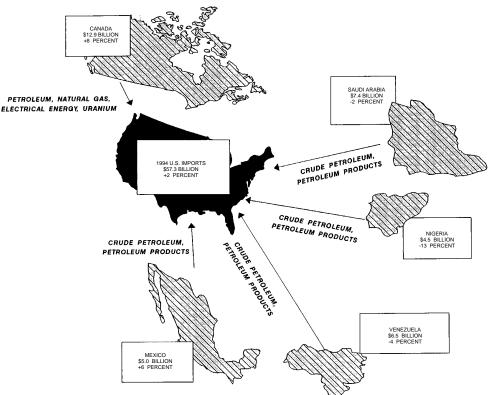
			Change, 1994 from 1993	
Item	1993	1994	Amount	Percent
		— Million dollars		
U.S. exports of domestic merchandise: Canada	1,463	1,527	64	4.4
Saudi Arabia	32	30	-2	-6.6
Venezuela	105	137	32 -26	30.7
Mexico Nigeria	1,114 37	1,089 3	-26 -34	-2.3 -92.5
United Kingdom	295	295	0	-0.1
Angola	1 2,019	1 1,695	0 -324	-24.2 -16.1
JapanAlgeria	2,019	1,095	-324 -2	-12.5
Kuwait	2	3	1	55.0
All other	7,123	6,673	-450	-6.3
Total	12,212	11,470	-742	-6.1
EU-12 OPEC	2,685 361	2,470 312	-215 -48	-8.0 -13.4
Latin America	2,756	2,773	17	0.6
CBERA	760	716	-44	-5.8
Asian Pacific Rim	4,385 707	3,821 769	-564 62	-12.9 8.8
Eastern Europe	92	117	24	26.5
LLO investo for a construction				
U.S. imports for consumption: Canada	12.012	12,975	963	8.0
Saudi Arabia	7,577	7,420	-157	-2.1
	6,835	6,541	-294	-4.3
Mexico Nigeria	4,751 5,231	5,027 4,530	276 -701	5.8 -13.4
United Kingdom	2,557	3,399	842	32.9
Angola	2,093	2,067	-25	-1.2
JapanAlgeria	170 1,583	212 1,539	42 -44	25.0 -2.8
Kuwait	1,758	1,472	-287	-16.3
All other	11,532	12,162	629	5.5
Total	56,098	57,344	1,245	2.2
EU-12 OPEC	4,226 25,408	5,391 24,109	1,166 -1,300	27.6 -5.1
Latin America	15,330	15,186	-143	-0.9
CBERA	1,295	1,242	-53	-4.1
Asian Pacific Rim	1,671 779	2,001 971	331 193	19.8 24.7
Eastern Europe	5	76	71	1,329.9
LLC as a sub-sub-sub-sub-sub-sub-sub-sub-sub-sub-				-
U.S. merchandise trade balance: Canada	-10.549	-11.448	-899	⁽²⁾
Saudi Arabia	-7,544	-7,389	155	(2)
Venezuela	-6,730	-6,404	326	$\binom{2}{2}$
Mexico Nigeria	-3,637 -5,194	-3,939 -4.527	-302 667	(2)
United Kingdom	-2,262	-3,104	-842	(2)
	-2,091	-2,066	25	$\binom{2}{2}$
Japan	1,850 -1,564	1,483 -1,523	-367 41	(2) (2) (2) (2) (2) (2)
Kuwait	-1,756	-1,469	288	(2)
All other	-4,409	-5,488	-1,079	
Total	-43,886	-45,874	-1,988	(2) (2) (2) (2) (2) (2) (2) (2)
EU-12 OPEC	-1,541 -25,048	-2,921 -23,796	-1,380 1,251	$\binom{2}{2}$
Latin America	-25,046	-12,413	160	22
CBERA	-535	-526	9	(²)
Asian Pacific Rim	2,714 -72	1,819 -202	-895 -130	$\binom{2}{2}$
Eastern Europe	-72	-202 40	-130 -47	<u>}</u> 2
	87	40	-47	(*)

 $^{\rm 1}$ Import values are based on Customs value; export values are based on f.a.s. value, U.S. port of export. $^{\rm 2}$ Not meaningful for purposes of comparison.

Note.—Because of rounding, figures may not add to the totals shown. The countries shown are those with the largest total U.S. trade (U.S. imports plus exports) in these products in 1994.

Figure 6-1

U.S. energy-related products sector imports, 1994: Leading U.S. imports, by major sources, and overall percentage change since 1993



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

ued to be Canada and Japan. U.S. exports of bituminous and lignite coals accounted for about 90 percent of total exports. These are high-quality, low-sulfur coals used primarily for the generation of electricity. The United States, which leads the world in total reserves and production of coal, is viewed as a secure source of coal on the world market.

U.S. imports of coal, coke, and related chemical products increased from \$603 million in 1993 to \$799 million in 1994. Canada was the leading source of U.S imports of coal and related chemical products, while Japan was the top source of U.S. imports of coke. In the past, Japan has imported metallurgical coal from several nations, including the United States, to produce coke, which is used in the production of steel. However, according to industry sources, a decline in Japanese steel production has led to excess coke production (since coke ovens cannot be shut down despite lack of demand) in Japan, which was being exported at low prices.

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Crude petroleum

U.S. imports of crude petroleum, which accounted for \$38.5 billion of the total U.S. trade deficit in 1994, accounted for more than 50 percent of domestic consumption of crude petroleum in 1994. U.S. imports began to increase in late 1985, when crude petroleum prices plummeted because of an oversupply on the world market. The price decreases resulted in the reduced profitability of highcost U.S. stripper wells, many of which were then shut down. Consequently, U.S. production declined steadily.

The quantity of U.S. imports of crude petroleum increased from 2.5 billion barrels (valued at \$38.2 billion) in 1993 to 2.7 billion barrels (valued at \$38.5 billion) in 1994. Saudi Arabia, Canada, Venezuela, and Mexico were the principal sources of U.S. imports. OPEC nations together accounted for more than 50 percent of total U.S. imports of crude petroleum in 1994.

U.S. exports of crude petroleum do little to ease the total U.S. trade deficit, which is so significantly affected by U.S. imports of crude petroleum. U.S. exports of crude petroleum are prohibited, except as approved by the U.S. Government. Canada has been the only consistent market for these exports as part of a commercial exchange agreement between U.S. and Canadian refiners, and approved by the Secretary of the Department of Energy. In 1987, small shipments of Alaskan North Slope crude petroleum were approved for export to Korea, Taiwan, and Australia. U.S. exports increased from 1.1 million barrels (valued at \$20 million) in 1993 to 2.2 million barrels (valued at \$44 million) in 1994. Canada accounted for 93 percent of these exports, with the remaining exports slated for Korea.

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Petroleum products

The value of U.S. imports of petroleum products decreased from \$11.0 billion in 1993 to \$10.5 billion in 1994. Canada, Venezuela, and Algeria were the leading import sources of petroleum products. In general, the quantity of each individual petroleum product increased, but, because of the decline in the per-barrel price of crude petroleum, the value of imports decreased. U.S. refineries are currently operating at over 90 percent of capacity in order to supply more of the domestic demand for petroleum products; imports account for any remaining demand, which has been increasing steadily since the late 1980s.

The United States is not a major exporter of petroleum products. The value of U.S. exports of petroleum products decreased from \$6.7 billion in 1993 to \$6 billion in 1994. Canada and Mexico were the major U.S. markets for these exports.

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Natural gas and components

The value of imports of natural gas and components increased from \$4.4 billion in 1993 to \$5.2 billion in 1994, or by 18 percent, primarily due to increased imports from Canada. The major individual product contributing to the growth in imports from Canada was pipeline natural gas, which rose in value from \$3.2 billion in 1993 to \$3.9 billion in 1994, or by nearly 21 percent. As such, Canada remained the United States' primary import source of natural gas and natural gas components in 1994, accounting for more than 90 percent of all imports.

The trade deficit in natural gas and its components grew by \$815 million in 1994. While imports from Canada increased, exports of natural gas to Mexico declined, due both to greater emphasis on utilization of domestic resources and diminished purchasing ability by the Mexican industry.

Total U.S. exports of natural gas and components dropped from \$603 million in 1993 to \$568 million in 1994. Exports to Mexico, which is the primary export market for these commodities and accounted for more than 90 percent of all U.S. exports in 1994, fell significantly. Exports of natural gas and components to Mexico declined by 15 percent during 1993-94, to a value of \$184 million; while exports of pipeline natural gas to Mexico shrank by 45 percent, from \$80 million in 1993 to \$44 million in 1994.

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Table 6-2 Energy-related products sector: U.S. trade for selected industry/commodity groups, by specified periods, Jan. 1993-Dec. 1994¹ _

			Change, 199	Change, 1994 from 1993	
Industry/commodity group	1993	1994	Amount	Percent	
		— Million dolla	rs		
Electrical energy:					
	61	30	-31	-50.8	
			÷ ·	45.0	
				-54.7	
	-001	-330	-525	-34.7	
	1 1 2 0	1 226	07	7.6	
			•••		
				19.8	
	209	112	-97	-46.4	
Coal,coke, and related chemicals products:					
Exports	3,587	3,464		-3.4	
Imports	603	799	196	32.5	
Trade balance	2,984	2,665	-319	-10.7	
Crude petroleum:	<i>.</i>	,			
	20	44	24	120.0	
				0.7	
				-0.7	
	50,220	-30,400	200	0.7	
	C CEA	6 014	640	-9.6	
				-5.4	
	-4,387	-4,436	-49	-1.1	
Exports				-5.8	
Imports	4,421	5,201		17.6	
Trade balance	-3,818	-4,633	-815	-21.3	
Major primary olefins:					
	148	123	-25	-16.9	
				49.7	
				-268.9	
	Electrical energy: Exports . Imports . Trade balance . Nuclear materials: Exports . Imports . Trade balance . Coal,coke, and related chemicals products: Exports . Imports . Trade balance . Crude petroleum: Exports . Imports . Trade balance . Petroleum products: Exports . Imports . Trade balance .	Electrical energy: 61 Imports 662 Trade balance -601 Nuclear materials: 1,139 Exports 1,139 Imports 930 Trade balance 209 Coal,coke, and related chemicals products: 209 Coal,coke, and related chemicals products: 2,984 Crude petroleum: 20 Exports 20 Imports 38,248 Trade balance -38,228 Petroleum products: -38,228 Exports 6,654 Imports 11,041 Trade balance -4,387 Natural gas and components: 603 Exports 603 Imports 4,421 Trade balance -3,818 Major primary olefins: -3,818 Exports 148 Imports 148	Electrical energy: Million dolla Exports 61 30 Imports 662 960 Trade balance -601 -930 Nuclear materials:	Industry/commodity group 1993 1994 Amount Electrical energy: 61 30 -31 Exports 662 960 298 Trade balance -601 -930 -329 Nuclear materials: 1,139 1,226 87 Exports 1,139 1,226 87 Imports 930 1,114 184 Trade balance 209 112 -97 Coal,coke, and related chemicals products: 209 112 -97 Exports 3,587 3,464 -123 1mports Imports 603 799 196 17rade balance -38,228 -38,486 -258 Exports 38,248 38,530 282 17rade balance -258 Petroleum 6654 6,014 -640 11,041 10,450 -591 Trade balance -4,387 -4,436 -49 98 -4,436 49 Natural gas and components: 4,421 5,201	

¹ Import values are based on Customs value; export values are based on f.a.s. value, U.S. port of export. ² This coding system is used by the U.S. International Trade Commission to identify major groupings of HTS import and export items for trade monitoring purposes. Source: Compiled from official statistics of the U.S. Department of Commerce.

CHAPTER 7 Textiles, Apparel, And Footwear¹

The U.S. trade deficit in textiles and apparel continued to widen in 1994, increasing by almost \$2.5 billion over the 1993 level to a record \$33.5 billion (table 7-1). The increase in the deficit was slightly more than that posted in 1993 and, as in other recent years, resulted from greater imports. Both exports and imports reached new highs in 1994, as exports grew by \$1.3 billion, to \$13.0 billion, and imports recorded an even larger gain, rising by \$3.8 billion, to \$46.6 billion. In percentage terms, exports increased by 11.5 percent and imports, by 8.9 percent.

The import advance in 1994 partly reflected a marked pickup in U.S. consumer spending on apparel, which accounted for 80 percent of sector imports and for 94 percent of the sector deficit. Real growth in consumer expenditures on clothing more than doubled to 6.0 percent from only 2.7 percent in 1993. The strong demand for apparel also partly spurred the growth in sector exports. Some 60 percent of the 1994 export gain went to Latin America, a major portion of which consisted of garment parts for assembly and reexport for sale in the United States.

Almost \$40 billion of sector imports in 1994 consisted of goods covered by the international Multifiber Arrangement (MFA) system of quotas.² The United States has quotas on MFA products from some 45 countries that supply about 80 percent of these imports. The structure of U.S. sector trade will become less restrictive as a result of the Agreement on Textiles and Clothing (ATC), which entered into force on January 1, 1995, as part of the World Trade Organization (WTO) agreements. The ATC replaced the MFA and calls for the phaseout of textile and apparel quotas for WTO member countries over a 10-year period. In recognition of the quota phaseout, the United States agreed to cut textile and apparel tariffs by an average of 11.5 percent, compared with 34 percent for all merchandise.

Trade liberalization under the WTO closely follows the implementation of the North American Free-Trade Agreement (NAFTA) on January 1, 1994, by the United States, Canada, and Mexico.³ Of particular importance to the sector is the NAFTA provision that grants Mexico duty-free and quota-free access to the U.S. market for goods assembled there from fabric that was both "formed and cut" in the United States. In 1994, U.S. imports of such goods from Mexico that entered free of duty and quota under the newly created 9802.00.90 tariff provision totaled \$1.5 billion, 70 percent of which represented the value of the U.S. components. These imports accounted for 63 percent of sector imports from Mexico.

U.S. Bilateral Trade

The geographical composition of U.S. sector trade has been changing in recent years, with Mexico and countries covered by the Caribbean Basin Economic Recovery Act (CBERA) assuming a large and rapidly growing role. Between 1989 and 1994, sector imports from Mexico and CBERA countries rose by 170 percent, compared with just 40 percent for those from all other countries (figure 7-1). Similarly, sector exports to the region climbed by 139 percent and those to all other countries, by only 72 percent. As a result, the region expanded its share of sector trade by roughly 7 percentage points to 15 percent of the imports and 37 percent of the exports in 1994.

The introduction in the late 1980s of the Special Access Program for CBERA countries and the Special Regime for Mexico contributed to the trade growth.⁴ Both programs provided for greater access to the U.S. market for apparel assembled of U.S. formed and cut fabric. The current textile agreements with Costa Rica, the Dominican Republic, El Salvador, Guatemala, and Jamaica contain

¹ The analysis for footwear appears at the end of this chapter.

² The MFA covered products of cotton, other vegetable fibers, wool, manmade fibers, and silk blends; it did not cover goods chiefly of silk or of leather, fur, rubber, or plastics.

³ The duty phaseout schedule of the United States-Canada Free Trade Agreement (CFTA), which came into force in 1989, was incorporated and continued under NAFTA.

⁴ The special regime with Mexico had been in effect for the 5 years before 1994, when NAFTA entered into force.

Table 7-1

Textiles and apparel: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1993 and 1994¹

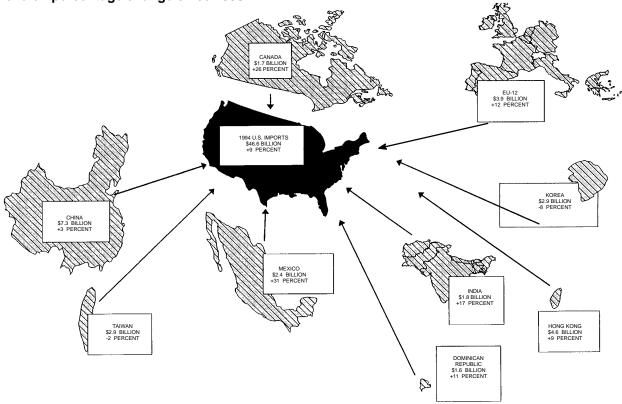
			Change, 1994 from 1993	
Item	1993	1994	Amount	Percent
		– Million dollars		
U.S. exports of domestic merchandise:	407	150	26	20.2
China	127 296	152 356	26 60	20.3 20.4
Mexico	1,755	2,237	482	27.5
Canada	2,113	2,348	235	11.1
Korea	161	200	38	23.8
Taiwan	98	126	27	28.0
Dominican Republic	785	902	117	14.9
Japan	1,020 23	1,076 36	56 12	5.5 52.7
Italy	124	134	11	8.5
All other	5,184	5,467	282	5.4
Total	11,686	13,033	1,347	11.5
EU-12	1,639	1,739	99	6.1
	554	478	-75	-13.6
Latin America	4,730 2,300	5,550 2,588	820 288	17.3 12.5
Asian Pacific Rim	2,300	2,395	228	10.5
ASEAN	306	314	9	2.8
Eastern Europe	30	28	-2	-5.6
U.S. imports for consumption:				
China	7,164	7,349	185	2.6
Hong Kong	4,210	4,606	396	9.4
Mexico	1,857 1,342	2,431 1,689	574 346	30.9 25.8
Korea	3,200	2,934	-266	-8.3
Taiwan	2,990	2,924	-66	-2.2
Dominican Republic	1,465	1,623	158	10.8
Japan	808	809	1	0.1
India	1,539	1,798	259	16.8
Italy	1,378	1,634	256	18.6
All other	16,797	18,778	1,981	11.8
Total	42,750	46,574	3,823	8.9
EU-12 OPEC	3,510 1,532	3,940 1,620	430 88	12.2 5.7
Latin America	6,929	8,134	1,205	17.4
CBERA	4,108	4,639	531	12.9
Asian Pacific Rim	23,191	23,795	604	2.6
ASEAN	5,399	5,654	254	4.7
Eastern Europe	275	292	17	6.3
U.S. merchandise trade balance:	7 000	7 407	150	(2)
China	-7,038 -3,914	-7,197 -4,250	-159 -336	$\frac{1}{2}$
Mexico	-102	-194	-92	2
Canada	771	659	-112	(2)
Korea	-3,039	-2,734	305	(2)
Taiwan	-2,892	-2,798	94	$\binom{2}{2}$
Dominican Republic	-680	-721	-41	(2) (2) (2) (2) (2) (2)
Japan India	212 -1,516	267 -1,763	55 -247	$\frac{1}{2}$
Italy	-1,254	-1,500	-246	22
All other	-11,613	-13,311	-1,698	(2)
	-31,064	-33,541	-2,476	(2) (2) (2) (2) (2) (2) (2) (2)
EU-12	-1,871	-2,201	-330	$\binom{2}{2}$
OPECLatin America	-979 -2,199	-1,142 -2,584	-163 -385	\\ 2\
CBERA	-1,808	-2,051	-243	$\overline{2}$
Asian Pacific Rim	-21,024	-21,400	-376	22
ASEAN	-5,094	-5,339	-246	(<u>2</u>)
Eastern Europe	-245	-264	-19	(2)

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

Note.—Because of rounding, figures may not add to the totals shown. The countries shown are those with the largest total U.S. trade (U.S. imports plus exports) in these products in 1994.

Figure 7-1

U.S. textiles and apparel sector imports, 1994: Leading U.S. imports by major sources, and overall percentage change since 1993



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

so-called guaranteed access levels (GALs) that permit them virtually unlimited access to the U.S. market for qualifying apparel exports. U.S. apparel producers have expanded their use of productionsharing activity in the region in order to compete effectively in their home market and to sustain domestic operations by having labor-intensive assembly tasks occur offshore. They ship apparel parts to the region for assembly and reimport the finished garments under the "807" tariff provision (now "9802"), which requires importers to pay duty on only the value added offshore.

In the first year that NAFTA was in effect, Mexico was the fastest-growing trading partner of the United States in the sector. U.S. textile and apparel exports to Mexico rose by \$482 million, or by 27 percent, to \$2.2 billion and imports from Mexico grew by \$574 million, or by 31 percent, to \$2.4 billion. The gains solidified Mexico's position as the second-largest export market after Canada and the fifth-largest import supplier after China and the traditional Big Three Asian suppliers, Hong Kong, South Korea, and Taiwan. About one-half of the exports to Mexico were garment parts for assembly and reexport to the United States.

Growth in sector imports from CBERA countries in 1994, although still quite rapid, was slower than that in recent years. CBERA shipments rose by 12 percent to \$4.6 billion. The growth is down from an average annual rate of 22 percent during 1987-93, following the inception of the GAL program in 1986. The slowdown likely stemmed from a diversion of new apparel production from CBERA countries to Mexico due to NAFTA. Whereas products assembled in Mexico from U.S. formed and cut fabric are now eligible to enter duty-free, such goods from CBERA countries continue to be dutiable at an effective rate of about 6 percent ad valorem. In addition, imports of certain garments from several CBERA countries are subject to quota. Legislation introduced in the 104th Congress, the Caribbean Basin Trade Security Act (H.R. 553 and S. 529), would temporarily provide CBERA countries tariff and quota treatment equivalent to that given to products from Mexico under NAFTA.

The sector trade deficit is driven mainly by trade with low-labor-cost countries in Asia. China and the traditional Big Three Asian suppliers generated just over 50 percent of the deficit in 1994. Another 24 percent stemmed from trade with India, Pakistan, and the Association of South East Asian Nations (ASEAN), which includes Brunei, Indonesia, Malaysia, the Philippines, Singapore, and Thailand. During the Uruguay Round trade negotiations, the United States sought market access commitments from WTO members that are significant exporters of textiles and apparel to the domestic market. The United States reached agreements providing the basis for increased U.S. export opportunities in textiles and apparel with Korea, Egypt, Singapore, Malaysia, the Philippines, Argentina, Brazil, Colombia, Japan, India, and Pakistan.⁵

China remained the largest supplier of sector goods by far, with 15.8 percent of sector imports in 1994. Imports from China grew considerably slower last year, by just 2.6 percent, after having climbed by 20 percent in 1993 and by 32 percent in 1992. The 3-year textile agreement currently in force with China provided for no quota growth in 1994 and for 1-percent growth in 1995 and 1996. In addition, a new and separate agreement with China signed in 1994 brought chiefly silk apparel under quota for the first time. Imports from China of such silk garments, which were not covered by the MFA and which had accounted for a major portion of the recent growth in Chinese shipments, totaled \$1.9 billion in 1994.

The Big Three Asian suppliers continued to decline in relative importance. Their shipments in 1994 rose by less than 1 percent to almost \$10.5 billion. The Big Three supplied just 22.5 percent of the imports in 1994, down from 37.4 percent 5 years earlier. Textile and apparel firms in the Big Three economies face rising operating costs, labor shortages, and growing competition from lower cost countries. As such, exporters in the Big Three have shifted their product mix to higher value-added goods, thereby earning more revenue without enlarging their export volume of products under quo $ta.^6$ They had also moved production of basic garments for export to lower cost locations such as China and the ASEAN countries, which (with the exception of Brunei) are highly export-oriented and subject to extensive quotas in the United States.

The growth in sector imports from the ASEAN countries slowed again last year. Their shipments rose by about 5 percent, to almost \$5.7 billion, after having grown by 8 percent in 1993 and by 28 percent in 1992. The slowdown partly reflected an 8-percent decline in imports from Singapore, whose shipments have decreased since 1992 when they peaked at \$652 million. Declining competitiveness has encouraged the sector in Singapore to move

⁵ Office of the United States Trade Representative, *1995 Trade Policy Agenda and 1994 Annual Report*, p. 105. low-end production to neighboring nations and to develop into a service and trading center for the regional industry.

Among the industrial countries, U.S. sector trade with Canada continued to grow rapidly, having more than doubled since the adoption of the CFTA in 1989. The trade surplus with Canada narrowed by \$112 million in 1994, to \$659 million, but it still was the largest of any trading partner by far. Exports to Canada, the principal market for sector exports, rose by \$235 million, or by 11 percent, to \$2.3 billion; imports from Canada rose by \$346 million, or by 26 percent, to \$1.7 billion. Textiles dominate sector trade with Canada, accounting for 58 percent (\$972 million) of the imports and 81 percent (\$1,902 million) of the exports in 1994. Canada trailed only China as the largest supplier of textiles in 1994, supplying 10.1 percent of the imports versus 10.5 percent for China. A major portion of the textile trade with Canada is intracompany trade (i.e., cross-border trade between the separate operations of individual firms). Apparel trade with Canada has also grown considerably in importance in the past 5 years; imports rose by 175 percent to \$715 million and exports grew by almost 300 percent to \$432 million.

Commodity Analysis

Textiles⁷

The increase in the U.S. textile trade deficit slowed considerably in 1994, widening by only \$160 million to \$2.1 billion. The deficit had expanded by \$646 million in 1992 and by \$484 million in 1993. Both exports and imports grew by about 10 percent to new highs in 1994, with the former rising by \$689 million, to \$7.5 billion, and the latter advancing by \$849 million, to \$9.6 billion. With U.S. producers' textile shipments growing by an estimated 5.5 percent in 1994, to \$74 billion, imports' share of the U.S. textile market remained at just under 10 percent. Import penetration is much higher in some textile segments, especially cotton broadwoven fabric, where imports supplied just over 30 percent of domestic sales.

The deterioration of the textile trade balance in 1994 largely reflected an increased bilateral deficit with the European Union (EU), the principal U.S. trading partner in textiles. The textile deficit with the EU reached \$981 million, an increase of \$117 million over the 1993 level and more than double

⁶ The quotas are based on quantity, and not value.

⁷ Textiles includes manmade fibers, yarns, fabrics, home furnishings, carpets, and industrial textiles, such as belting and cordage. These articles are covered in commodity groups CH050 to CH061 and nonwoven fabric in CH079.

the deficits posted in 1990-91. With EU economic activity improving in 1994, exports bounced back from a decline in 1993, rising by \$119 million to nearly \$1.3 billion. However, they remained slightly below 1991-92 levels. Textile imports from the EU rose by twice as much as textile exports, or by \$237 million, to more than \$2.2 billion.

The largest bilateral textile trade deficit in 1994 on an individual country basis was with China, the largest supplier, accounting for 10.5 percent of U.S. imports. The bilateral deficit with China widened by just \$7 million to \$861 million that year, the smallest increase so far in the 1990s. It had risen by \$223 million in 1992 and by \$90 million in 1993. Contributing to the small increase in the 1994 deficit was a slowdown in U.S. textile imports from China, which rose by \$33 million, or by 3 percent, to exceed the \$1 billion level for the first time. U.S. exports to China, which totaled a much smaller \$144 million, grew by \$25 million, or by 21 percent.

The largest bilateral textile trade surpluses in 1994 were with the NAFTA trading partners, which accounted for about half the 1994 gain in textile exports. The textile trade surplus with Canada narrowed slightly, by \$16 million, to \$930 million in 1994, whereas that with Mexico expanded by almost \$76 million to \$520 million. Textile trade with Canada continued to reach new highs in 1994, as exports grew by \$177 million, or by 10 percent, to \$1.9 billion and U.S. imports rose by \$194 million, or by 25 percent, to almost \$1.0 billion. Canada trailed only China as the largest source of imported textiles in 1994, supplying mostly manmade-fiber filament yarns and specialty fabrics. U.S. textile exports to Mexico rose by \$175 million, or by 20 percent, to just over \$1 billion, and U.S. imports of Mexican textiles grew by \$100 million, or by 23 percent, to \$540 million.

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Apparel⁸

The U.S. trade deficit in apparel widened markedly in 1994, increasing by \$2.3 billion to a new high of \$31.5 billion. The deficit had increased by \$2.0 billion in 1993. The growth in apparel trade continued at a similar pace as in 1993 as imports rose by 9 percent to \$36.9 billion and exports grew by 14 percent to \$5.4 billion. In 1993, imports had similarly grown by 9 percent and exports by 18 percent. The share of the domestic apparel market supplied by imports increased to an estimated 48 percent as consumption grew by 5 percent and production by an estimated 1 percent. Shirts and blouses remained the largest apparel item traded, accounting for 29 percent of imports and 19 percent of exports in 1994. These products, along with trousers and men's and boys' coats and jackets, accounted for just over one-half of the increase in imports and exports in 1994.

Mexico was the fastest growing supplier of apparel to the United States in 1994. Its apparel shipments climbed by \$474 million, or by 33 percent, to \$1.9 billion. The growth in these shipments enabled Mexico to surpass the Dominican Republic to become the fifth-largest supplier by value after China, Hong Kong, South Korea, and Taiwan. Threefourths of the apparel imports from Mexico were assembled from U.S. formed and cut fabric and entered free of duty and quota under the 9802.00.90 tariff provision.

U.S. imports of apparel from the CBERA countries in 1994 totaled \$4.5 billion, representing an increase of 13 percent over the 1993 level. The gain was down from growth of 22 percent in 1993, 30 percent in 1992, and 28 percent in 1991. As stated above, the smaller gain in 1994 likely reflected a slowdown in expansion of production-sharing activity in CBERA countries, as U.S. apparel producers await the outcome of pending U.S. legislation that would grant CBERA countries NAFTA-equivalent benefits. About 80 percent of the value of CBERA imports in 1994 consisted of apparel assembled from U.S. components. Such CBERA apparel is dutiable at an effective rate of about 6 percent ad valorem; garments assembled in Mexico from U.S. formed and cut fabric now enter duty-free.

China remained the largest foreign supplier of apparel to the United States in 1994, accounting for 17 percent of the imports. U.S. apparel imports from China rose by just 2 percent in 1994, to \$6.3 billion, after growing by 22 percent a year earlier. However, the volume of MFA apparel imports from China declined for the first time since 1988, falling by 3 percent. As noted earlier, the current textile agreement with China provided for no quota growth in 1994 and, for the first time, a separate agreement was reached with China that set quotas on chiefly silk apparel. Imports of such silk apparel, which totaled \$1.9 billion in 1994 and consisted mainly of shirts and blouses, accounted for much of the apparel import growth from China in 1993.

The traditional Big Three Asian suppliers continued to decline in relative importance in apparel trade. Their apparel shipments edged up by less than 1 percent in 1994 to \$8.9 billion, after a 7-percent decline in 1993. Hong Kong generated all of the 1994 increase as the value of its shipments rose by 9 percent, while those from South Korea and Taiwan decreased by 11 and 4 percent, respectively. The Big Three supplied 24 percent of apparel imports in 1994, down from 43 percent in 1989.

⁸ These articles are covered in commodity groups CH062 through CH080, excluding the nonwoven fabrics in CH079.

The growth in apparel imports from ASEAN countries slowed for the second consecutive year in 1994, when their shipments rose by just 5 percent to \$5.2 billion. Their shipments had increased by 8 percent in 1993 and by 27 percent in 1992. The growth in the value of imports from India and Pakistan picked up in 1994, by 21 percent and 15 percent, respectively. This compares with 1993 gains of 19 percent for India and 11 percent for Pakistan.

The apparel trade deficit with Canada, the leading industrial country supplier to the United States, widened further in 1994, rising by \$96 million to \$283 million. Apparel imports from Canada, led by men's wool suits and men's and women's trousers and knit shirts, were up by 27 percent to \$715 million in 1994. This increase was a continuation of the strong gains in apparel imports from Canada since the inception of the CFTA in 1989 and also reflected a receptive U.S. market. U.S. apparel exports to Canada rose by 15 percent to \$432 million in 1994. The gain was less than the increases of 22 percent in 1993 and 26 percent in 1992, as benefits of the ongoing tariff reductions under NAFTA were partially offset by changes in exchange rates.

The U.S. apparel trade surplus with Japan rose by only 7 percent to \$642 million in 1994, after having increased by 69 percent in 1993. The growth in U.S. apparel exports to Japan slowed substantially to 3 percent in 1994, compared with annual growth of 47 percent in 1993. Sluggish economic activity in Japan reduced demand for U.S. apparel exports.

The U.S. apparel trade deficit with the EU increased by 21 percent, reaching \$1.2 billion in 1994, after steadily declining since at least 1989. Increased U.S. imports from the EU were responsible for the rising deficit. They rose for the first time since 1991—by 13 percent—to \$1.7 billion.

Rising imports of apparel from Italy contributed to the increased imports. Men's and boys' suits and sports coats from Italy rose by 22 percent; sweaters from Italy rose by 21 percent; and women's and girls' suits, skirts, and coats from Italy rose by 7 percent. U.S. exports to the EU declined for the second year in a row; however, the rate of the decline slowed to 3 percent in 1994, compared with 11 percent in 1993. The most significant declines by product areas were U.S. exports of shirts and blouses to Belgium, which declined by 35 percent, exports of men's trousers to France, which declined by 20 percent, and exports of sweaters to the United Kingdom, which declined by 30 percent.

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Footwear

A sluggish U.S. footwear market limited import growth to 6 percent in 1994, but the 1994 trade deficit in footwear widened by \$567 million over the 1993 level to a record high of \$11.1 billion (table 7-2). Although both imports and exports increased in 1994, the growth in imports of \$609 million far exceeded that of exports of \$42 million. The widening of the footwear trade deficit resulted almost entirely from an increased bilateral deficit with China, which accounted for 47 percent of the total footwear trade deficit in 1994.

U.S. consumption of footwear registered a modest 3-percent gain to \$34.1 billion at retail, largely reflecting sluggish demand for athletic shoes, which accounted for nearly 40 percent of the U.S. footwear market in 1994. Nevertheless, imports continued to expand their already dominant share of the U.S. market, accounting for 88 percent of shoes sold by quantity in 1994, compared with 86 percent in 1993.

China was by far the leading supplier of footwear and also the largest contributor to the footwear deficit (figure 7-2). The footwear trade deficit with China grew by \$746 million in 1994 to \$5.2 billion as imports from China rose by 17 percent to \$5.3 billion. China's competitive advantages stem from its extremely low production costs in labor, material, and energy.

Favorable exchange rates for Spain and Italy contributed to a 22-percent import growth from the EU to \$1.6 billion in 1994. The 1994 footwear deficit with the EU widened by \$274 million to \$1.4 billion. Italy and Spain, which together supplied 80 percent of these imports and accounted for over 85 percent of the EU footwear trade deficit, increased their shipments by a combined 24 percent to \$1.2 billion in 1994.

The footwear trade deficit with Indonesia and Thailand combined showed a modest \$76 million growth in 1994 as imports mainly of low-priced athletic footwear from these countries increased by 7 percent, to \$1.3 billion in 1994. The slowdown in shipments from these countries compared to earlier years reflected their diminishing importance in the U.S. market caused by weak demand for athletic footwear that they had supplied in large quantities in the past. The slowdown in imports from Thailand also is attributable to its inadequate infrastructure and higher production costs compared with those of China and Indonesia.

By contrast, the footwear trade deficit with Brazil, Korea, and Taiwan declined in 1994. Imports from Brazil, the second leading supplier of mostly lowto medium-priced women's leather footwear, declined by 10 percent to \$1.3 billion, which brought down the deficit with Brazil by \$145 million to \$1.3 billion. The decline in Brazilian shipments occurred in the second half of the year following Table 7-2

Footwear: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1993 and 1994¹

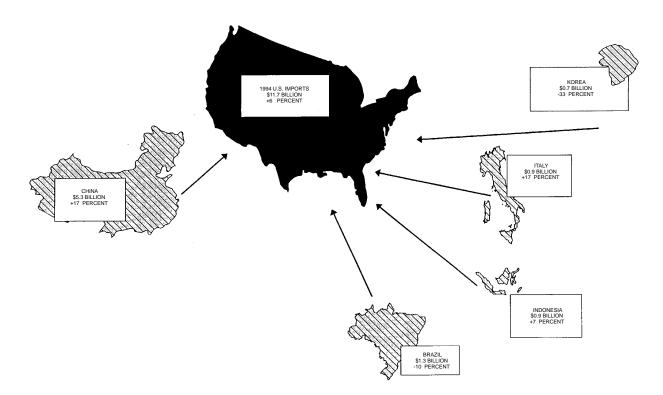
			Change, 1994 from 1993	
Item	1993	1994	Amount	Percent
		 Million dollars 		
U.S. exports of domestic merchandise:				
	4	8	4	87.1
BrazilItaly	3 24	6 16	2 -8	67.0 -33.5
Indonesia	3	6	3	85.5
Korea	23	18	-4	-19.0
Taiwan	10	12	2 1	19.4
ThailandSpain	3 7	3 6	(²)	18.9 -4.8
Dominican Republic	32	35	3	9.6
Mexico	100	96	-4	-4.0
All other	395	440	44	11.2
Total	604	646	42	7.0
EU-12	131	133	2	1.8
OPECLatin America	19 192	24 198	5 5	24.8 2.8
CBERA	65	65	(²)	0.2
Asian Pacific Rim	134	167	33	24.5
ASEAN	15	18	3	20.7
Eastern Europe	5	4	-1	-12.1
U.S. imports for consumption:				
China	4,505	5,254	749	16.6
Brazil	1,408	1,266	-143 128	-10.1
ItalyIndonesia	759 829	887 885	56	16.9 6.7
Korea	1,033	689	-345	-33.4
Taiwan	584	456	-128	-21.9
ThailandSpain	353 246	377 359	24 113	6.8 45.8
Dominican Republic	220	285	65	29.6
Mexico	215	206	-9	-4.1
All other	952	1,050	97	10.2
Total	11,105	11,714	609	5.5
EU-12	1,279	1,555	276	21.6
	833	889 1,869	55	6.6 -4.4
Latin America	1,954 241	321	-85 80	-4.4 33.4
Asian Pacific Rim	7,174	7,518	344	4.8
ASEAN	1,259	1,350	91	7.2
Eastern Europe	87	118	31	35.2
U.S. merchandise trade balance:				
China	-4,501	-5,247	-746	$\binom{3}{2}$
BrazilItaly	-1,405 -735	-1,260 -872	145 -136	
Indonesia	-826	-879	-53	33
Korea	-1,011	-670	340	(3)
Taiwan	-573	-443	130	$\begin{pmatrix} 3 \\ (3) \end{pmatrix}$
ThailandSpain	-350 -240	-373 -353	-23 -113	
Dominican Republic	-188	-250	-62	(3)
	-115	-110	5	$\binom{3}{2}$
All other	-557	-610	-53	(3)
Total	-10,501	-11,068	-566	$\binom{3}{2}$
	-1,148	-1,422	-274	
OPECLatin America	-815 -1,762	-865 -1,671	-51 91	
CBERA	-176	-256	-80	(3) (3) (3) (3) (3) (3) (3)
Asian Pacific Rim	-7,040	-7,351	-311	$\binom{3}{2}$
ASEANEastern Europe	-1,245 -82	-1,333 -114	-88 -31	
	-02	- 1 14	-01	(-)

¹ Import values are based on Customs value; export values are based on f.a.s. value, U.S. port of export. ² Less than 0.5 million.

³ Not meaningful for purposes of comparison.

Note.—Because of rounding, figures may not add to the totals shown. The countries shown are those with the largest total U.S. trade (U.S. imports plus exports) in these products in 1994.

Figure 7-2 U.S. footwear sector imports, 1994: Leading U.S. imports by major sources, and overall percentage change since 1993



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

the introduction of Brazil's new exchange rate pegged to the dollar in July 1994. The Brazilian currency subsequently appreciated against the dollar in 1994, which made its products more expensive in the U.S. market. The footwear trade deficits with Korea and Taiwan, once the dominant suppliers, declined by \$340 million and \$130 million, respectively, in 1994 as these countries, hit by mounting operating costs at home, have continued to shift their production to low-wage countries such as China. The combined imports from Korea and Taiwan decreased by 29 percent to \$1.1 billion in 1994.

Imports from the Dominican Republic, the ninthlargest supplier, increased by 30 percent to \$285 million. Roughly 85 percent of these imports consisted of footwear uppers and parts that entered duty-free under the CBERA (footwear is not eligible for duty-free treatment under the CBERA). The growth in imports from the Dominican Republic was facilitated by section 222 of the CBERA of 1990,⁹ which extends duty-free treatment to prod-

⁹ Customs and Trade Act of 1990, Public Law 101-382, Title II, 104 Stat. 629, 19 U.S.C. 2101 note. ucts, other than textiles and apparel and petroleum and petroleum products, which are processed or assembled wholly from U.S. fabricated components or materials in a beneficiary CBERA country.

Although China continued to remain the dominant supplier of low- to medium-priced footwear (in 1994 China supplied 876 million pairs or 72 percent of total footwear imports, priced less than \$16 per pair), the bulk of the import growth from China occurred in higher priced shoes at the expense of Korea and Taiwan. In 1994, imports of footwear from Korea and Taiwan, priced over \$16 per pair, declined by 19 million pairs, while those from China increased by 16 million to 24 million pairs. In 1994, China supplied 20 percent of imports, priced over \$16 per pair, compared with only 6 percent in 1993. China has also continued to increase its shipments of leather footwear. In 1994, China accounted for 45 percent by quantity, and 37 percent by value, of total leather footwear imports, compared with a year-earlier level of 40 percent and 31 percent, respectively.

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Table 7-3 Textiles, apparel, and footwear sector: U.S. trade for selected industry/commodity groups, by specified peri-ods, Jan. 1993-Dec. 1994¹ _

				Change, 199	4 from 1993
USITC code ²	Industry/commodity group	1993	1994	Amount	Percent
			— Million dollars		
CH050	Manmade fibers and filament yarns:				
	Exports	1,393	1,585	192	13.8
	Imports	1,126	1,299	173	15.4
	Trade balance	267	286	19	7.1
CH051	Spun yarns and miscellaneous yarns:				
	Exports	347	458	111	32.0
	Imports	497	594	97	19.5
CH052	Trade balance	-150	-136	14	9.3
50052	Boardwoven fabrics:	1,592	1,747	155	9.7
	Exports	3,339	3,362	23	9.7 0.7
	Trade balance	-1,747	-1,615	132	7.6
CH053	Knit fabrics:	.,	1,010	102	1.0
	Exports	322	344	22	6.8
	Imports	286	336	50	17.5
	Trade balance	36	8	-28	-77.8
CH054	Miscellaneous fabrics:				
	Exports	199	234	35	17.6
	Imports	105	130	25	23.8
011055	Trade balance	94	104	10	10.6
CH055	Coated, covered, impregnated, or laminated textile				
	fabrics:	370	450	00	21.6
	Exports Imports	206	450 227	80 21	21.6 10.2
	Trade balance	164	223	59	36.0
CH056	Cordage, nets, and netting:	104	220	00	00.0
011000	Exports	50	43	-7	-14.0
	Imports	123	147	24	19.5
	Trade balance	-73	-104	-31	-42.5
CH057	Certain textile articles and fabrics suitable for				
	industrial use:				
	Exports	277	282	5	1.8
	Imports	177	202	25	14.1
	Trade balance	100	80	-20	-20.0
CH058	Miscellaneous textiles and articles: Exports	793	848	55	6.9
	Imports	983	1,179	196	19.9
	Trade balance	-190	-331	-141	-74.2
CH059	Sacks and bags of textile materials:	100	001		1
	Exports	30	22	-8	-26.7
	Imports	50	52	2	4.0
	Trade balance	-20	-30	-10	-50.0
CH060	Carpets and rugs:				
	Exports	730	713	- <u>17</u>	-2.3
	Imports	671	748	77	11.5
		59	-35	-94	-159.3
CH061	Home furnishings:	252	064	0	2.2
	Exports	253 939	261 1,075	8 136	3.2 14.5
	Trade balance	-686	-814	-128	-18.7
CH062	Men's and boys' suits and sports coats:	000	014	120	10.7
011002	Exports	125	148	23	18.4
	Imports	664	748	84	12.7
	Trade balance	-539	-600	-61	-11.3
CH063	Men's and boys' coats and jackets:				
	Exports	102	136	34	33.3
	Imports	1,563	1,773	210	13.4
011004	Trade balance	-1,461	-1,637	-176	-12.0
CH064	Men's and boy's trousers:	075	4 050	75	
	Exports	975	1,050	75	7.7
	Imports	2,797 -1,822	3,145 -2,095	348 -273	12.4 -15.0
CH065	Women's and girls' trousers:	-1,022	-2,095	-215	-15.0
011000	Exports	325	409	84	25.8
	Imports	3,354	3,583	229	6.8
	Trade balance	-3,029	-3,174	-145	-4.8
		-,-=-	-,	-	
CH066	Shirts and blouses:				
CH066	Shirts and blouses: Exports	854	1,021	167	19.6
CH066	_	854 10,042 -9,188	1,021 10,840 -9,819	167 798 -631	19.6 7.9 -6.9

Table 7-3—*Continued* Textiles, apparel, and footwear sector: U.S. trade for selected industry/commodity groups, by specified periods, Jan. 1993-Dec. 1994¹

				Change, 199	4 from 1993
USITC code ²	Industry/commodity group	1993	1994	Amount	Percen
			— Million dollars		
CH067	Sweaters:	22	20	0	<u> </u>
		32 1,961	30 2,052	-2 91	-6.3 4.6
	Imports Trade balance	-1,929	-2,032	-93	-4.8
H068	Women's and girls' suits, skirts, and coats:	-1,929	-2,022	-93	-4.0
1000	Exports	283	255	-28	-9.9
	Imports	3,244	3,261	17	0.5
	Trade balance	-2,961	-3,006	-45	-1.5
CH069	Women's and girls' dresses:	,	- ,	-	-
	Exports	105	103	-2	-1.9
	Imports	1,082	1,260	178	16.5
	Trade balance	-977	-1,157	-180	-18.4
H070	Robes, nightwear, and underwear:	- / 0			
	Exports	512	569	57	11.1
	Imports	1,909	2,197	288	15.1
1074	Trade balance	-1,397	-1,628	-231	-16.5
H071	Hosiery:	206	220	14	6.8
	Exports	200	220	60	26.0
	Trade balance	-25	-71	-46	-184.0
H072	Body-supporting garments:	20	,,	40	104.0
	Exports	316	344	28	8.9
	Imports	639	751	112	17.5
	Trade balance	-323	-407	-84	-26.0
H073	Neckwear, handkerchiefs, and scarves:				
	Exports	31	26	-5	-16.1
	Imports	322	336	14	4.3
	Trade balance	-291	-310	-19	-6.5
CH074	Gloves, including gloves for sports:	457	400		7.0
	Exports	157	168	11	7.0
	Imports	1,349	1,499	150	11.1
CH075	Trade balance	-1,192	-1,331	-139	-11.7
11075	Exports	109	112	3	2.8
	Imports	778	821	43	5.5
	Trade balance	-669	-709	-40	-6.0
CH076	Leather apparel and accessories:				0.0
	Exports	97	93	-4	-4.1
	Imports	1,418	1,456	38	2.7
	Trade balance	-1,321	-1,363	-42	-3.2
CH077	Fur apparel and other fur articles:				
	Exports	55	58	3	5.5
	Imports	173	187	14	8.1
070	Trade balance	-118	-129	-11	-9.3
CH078	Rubber, plastic, and coated-fabric apparel:	70	87	17	24.3
	Exports Imports	160	172	12	7.5
	Trade balance	-90	-85	5	5.6
H079	Nonwoven and related products:	50	00	0	0.0
	Exports	447	526	79	17.7
	Imports	435	437	2	0.5
	Trade balance	12	89	77	641.7
H080	Other wearing apparel:				
	Exports	448	603	155	34.6
	Imports	2,006	2,292	286	14.3
011004		-1,558	-1,689	-131	-8.4
CH081	Apparel fasteners:	04	00	7	
	Exports	81	88	7	8.6
	Imports	122	122	0 7	0 171
H082	Trade balance Footwear and footwear parts:	-41	-34	1	17.1
1002	Exports	604	646	42	7.0
	Imports	11,105	11,714	609	5.5
	Trade balance	-10,501	-11,068	-567	-5.4

¹ Import values are based on Customs value; export values are based on f.a.s. value, U.S. port of export.
² This coding system is used by the U.S. International Trade Commission to identify major groupings of HTS import and export items for trade monitoring purposes.

CHAPTER 8 Minerals and Metals

The U.S. minerals and metals sector experienced an 81-percent increase in its trade deficit in 1994, to \$24.3 billion, as strong industrial growth in the United States caused a surge in U.S. sector imports (table 8-1). This follows an improvement in the trade balance of 4 percent in 1993. The \$10.9 billion deficit increase in 1994 was almost entirely attributable to a 23-percent increase in U.S. imports, which rose by \$10.5 billion to \$56.8 billion, as U.S. exports during this period were essentially unchanged, declining 1 percent (\$400 million) to \$32.5 billion.

The increase in the trade deficit for the U.S. minerals and metals sector in 1994 was largely attributable to an increase in imports of steel mill products of 43 percent (\$3.7 billion) to \$12.4 billion and a decline in U.S. exports of precious metals and related articles (gold bullion) of 34 percent (\$3.4 billion) to \$6.5 billion. Steel mill product imports were buoyed by strong automotive industry demand as U.S. vehicle sales neared historical peaks in 1994. The decline in precious metals exports largely resulted from the cessation of transaction activities by certain Latin American and European central banks. In 1993, certain foreign central banks transferred large portions of their gold stocks from the New York Federal Reserve Bank to accounts in European central banks (particularly in London) to take advantage of income-producing transactions, permitted by European regulatory authorities, on these gold deposits. Most of this speculative transfer of gold bullion ceased in early 1994. Also contributing to the rise in the U.S. trade deficit in 1994 was an increase of 50 percent (\$1.4 billion) in U.S. imports of unwrought aluminum to \$4.2 billion, and an increase in imports of natural and synthetic gemstones of 12 percent (\$690 million), to Increased imports of minerals and \$6.4 billion. metals largely reflected higher economic and industrial growth rates in the United States as major European and Asian industrial markets continued to experience the lingering effects of economic recession. Increased economic activity in the U.S. automotive, construction, and appliance industries created strong demand for imported steel mill and aluminum products. In response, foreign products traditionally sold in European and Asian markets were diverted into the stronger U.S. market.

In contrast to this sector's general trade pattern, at least one product segment experienced an improved trade position in 1994. The trade deficit in industrial fasteners of base metal declined by 15 percent (\$133 million) in 1994 to \$767 million, as U.S. exports increased by 18 percent (\$136 million) to \$879 million and U.S. imports remained essentially unchanged. U.S. exports of these products to Mexico increased by 71 percent (\$105 million) due to strong growth in certain industrial sectors of the Mexican economy and lower Mexican tariffs. In addition, significant export increases occurred in wire products of iron, steel, aluminum, copper, and nickel, which rose by 39 percent (\$132 million) to \$469 million and in certain ores, concentrates, ash, and residues, which rose by 58 percent (\$110 million) to \$301 million.

U.S. Bilateral Trade

The principal U.S. trading partners in the minerals and metals sector were Canada, Mexico, Japan, the United Kingdom, Germany, and Taiwan (figures 8-1 and 8-2). Aggregate U.S. imports from these countries accounted for 50 percent of total sector imports, and U.S. exports to these countries accounted for 65 percent of total sector exports. The U.S. trade deficit with these principal trading partners increased from \$2.9 billion during 1993 to \$7.5 billion during 1994, principally due to a 77-percent (\$2.5 billion) decline in the U.S. trade surplus with Total U.S. exports to the the United Kingdom. United Kingdom declined by 46 percent (\$2.2 billion), primarily due to a decline of \$2.4 billion in U.S. export shipments of precious metals and related products (gold bullion). The U.S. trade deficit with Canada rose by 50 percent (\$1.1 billion), largely due to an increase of \$593 million in imports of unwrought aluminum and of \$140 million in imports of unwrought copper and copper alloys; total U.S. imports from Canada increased by 18 percent (\$2.0 billion). The trade deficit with Japan grew by 26 percent (\$527 million), prompted by a \$506-million increase in U.S. imports of steel mill products from Japan.

Table 8-1

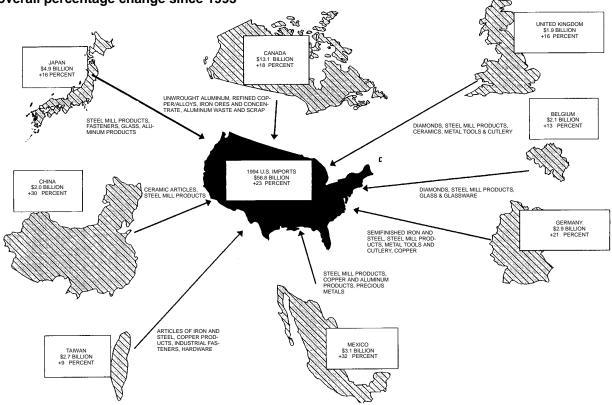
Minerals and metals: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1993 and 1994¹

			Change, 19	94 from 1993
Item	1993	1994	Amount	Percent
		- Million dollars		
U.S. exports of domestic merchandise:	0.040	0 705	000	
	8,913	9,795 2,337	882 153	9.9
Japan	2,184 3,272	2,337 4,111	839	7.0 25.6
United Kingdom	4,818	2.609	-2,209	-45.9
Germany	850	1,031	181	21.3
Taiwan	1,120	1,118	-3	-0.2
Belgium	398	572	174	43.7
France	621	811	190	30.6
	407	385 1.094	-22	-5.4
KoreaAll other	1,055 9,248	8,624	39 -625	3.7 -6.8
Total	32,887	32,487	-400	-1.2
EU-12	7,669	5,978	-1,690	-22.0
OPEC	848	856	8	0.9
	4,883	5,825	942	19.3
CBERA	612	565	-47	-7.6
Asian Pacific Rim	6,566 910	7,283 1,092	717 182	10.9 20.0
Eastern Europe	35	38	3	9.8
U.S. imports for consumption:				
Canada	11,064	13,061	1,997	18.0
Japan	4,236	4,916	680	16.1
Mexico	2,322	3,067	745	32.1
United Kingdom	1,615	1,868	253	15.7
	2,401 2.467	2,898 2,697	498 231	20.7 9.4
TaiwanBelgium	1.874	2,097	240	12.8
France	1,304	1,606	302	23.2
China	1,529	1,986	458	29.9
Korea	984	1,217	234	23.7
All other	16,449	21,344	4,895	29.8
Total	46,246	56,778	10,533	22.8
EU-12 OPEC	10,071 732	12,118 1,066	2,047 334	20.3 45.7
Latin America	5,405	7,353	1,948	36.0
CBERA	375	423	48	12.9
Asian Pacific Rim	10,513	12,282	1,769	16.8
ASEAN	879	1,077	199	22.6
Eastern Europe	238	413	174	73.0
U.S. merchandise trade balance:	2 1 5 1	2 266	1 115	121
CanadaJapan	-2,151 -2,052	-3,266 -2,579	-1,115 -527	\2\ 2\
Ларап	-2,052 949	1.043	-527 94	22 (2)
United Kingdom	3,203	740	-2,463	2
Germany	-1,551	-1,867	-317	(2)
Taiwan	-1,347	-1,580	-233	$\binom{2}{2}$
Beigium	-1,476	-1,542	-66	(2)
France	-683	-795	-112	(<u></u> 2)
China	-1,122	-1,602	-479 -194	$\binom{2}{2}$
KoreaAll other	71 -7,201	-123 -12,721	-5,520	(2) (2) (2) (2) (2) (2)
Total	-13,359	-24,292	-10,933	(2) (2) (2) (2) (2) (2) (2) (2)
EU-12	-2,402	-6,139	-3,737	$\binom{2}{2}$
OPEC	116	-210	-326	$\binom{2}{2}$
	-522	-1,528	-1,006	(<u></u> 2)
	237 -3,947	142 -5,000	-95	$\binom{2}{2}$
	-0.347	-3,000	-1,052	(_)
Asian Pacific Rim	32	15	-17	(2)

 $^{\rm 1}$ Import values are based on Customs value; export values are based on f.a.s. value, U.S. port of export. $^{\rm 2}$ Not meaningful for purposes of comparison.

Note.—Because of rounding, figures may not add to the totals shown. The countries shown are those with the largest total U.S. trade (U.S. imports plus exports) in these products in 1994.

Figure 8-1



U.S. minerals and metals sector imports, 1994: Leading U.S. imports, by major sources, and overall percentage change since 1993

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

U.S. imports of minerals and metals from Russia increased significantly in 1994, continuing the pattern established in 1993, which has added to a growing U.S. trade deficit in this sector. Russian producers accelerated the export of mineral and metal assets in an effort to increase the nation's hard currency foreign exchange reserves. U.S. imports of unwrought aluminum from Russia increased 31 percent (\$412 million) to \$863 million in 1994, following a \$435 million increase in 1993. Other significant import increases from Russia in 1994 included flat-rolled iron and steel products (by \$302 million to \$332 million); diamonds, not mounted or set (by \$97 million to \$156 million), and unwrought platinum (by \$45 million to \$250 million).

The only selected nation with which the United States experienced an improvement in its trade position in the minerals and metals sector in 1994 was Mexico. The U.S. trade surplus with Mexico increased by a modest 10 percent (\$94 million) in 1994 as U.S. exports to Mexico advanced by 26 percent (\$839 million), while U.S. imports from Mexico increased by 32 percent (\$745 million). The increase in trade with Mexico reflected strong economic growth for both nations in 1994 and the effects of the North American Free-Trade Agree-

ment (NAFTA) in lowering trade barriers between both nations. The export increase to Mexico largely consisted of articles of iron or steel, up 56 percent (\$394 million) to \$1.1 billion; aluminum and articles thereof, up 27 percent (\$128 million) to \$603 million; and copper and articles thereof, up 24 percent (\$62 million) to \$323 million.

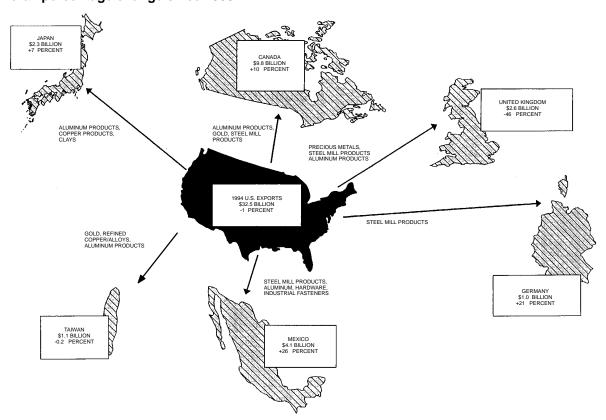
Commodity Analysis

Steel mill products¹

U.S. imports of steel mill products totaled a record \$12.4 billion in 1994, supplying much of the increase in domestic consumption and increasing by 43 percent over the 1993 level of \$8.7 billion. Total U.S. exports continued to increase in 1994, but by a lesser amount and from a much lower level than imports, rising by 8 percent (\$218 million) to \$3.0 billion. As a result, the trade deficit

¹ For additional detail on imports and industry conditions see USITC, *Steel Semiannual Monitoring Report* (investigation No. 332-327), USITC publication 2878, Apr. 1995.

Figure 8-2 U.S. minerals and metals sector exports, 1994: Leading U.S. exports, by major markets, and overall percentage change since 1993



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

in steel mill products increased by 61 percent (\$3.5 billion) to \$9.4 billion, while the level of import penetration rose from 14 percent in 1993 to 18 percent in 1994, in value terms. The deficit increase was the third-largest experienced by any commodity group.

Strong domestic demand, fueled by strength in the U.S. automotive industry, concurrent with relatively weaker demand for imported steel in foreign markets early in 1994, contributed to increased U.S. imports during 1994. U.S. demand by end-users, steelmakers, and converters contributed to a 39-percent increase (to \$1.8 billion) in U.S. imports from Japan, which remained the second-leading foreign steel supplier to the United States in 1994. Imports from Canada, the leading foreign steel supplier with 18 percent of the total, increased by 6 percent (\$136 million) to \$2.3 billion in 1994. Imports from Russia increased substantially, rising more than 10-fold from a low base to \$463 million in 1994, making Russia the 10th-largest foreign steel supplier, by value.

Imports in all product categories increased during 1994, with the greatest increases occurring in flatrolled products and semifinished steel products (primarily slabs which are rolled into flat products). Flat-rolled products are typically consumed by the automotive industry, which experienced large increases in demand for its products in 1994.

Imports of flat-rolled plate, sheet, and strip rose by 55 percent to \$6.2 billion in 1994 and imports of semifinished steel products (chiefly, slab and billet) surged 67 percent to \$1.9 billion from the already high levels of 1993.² A combination of strong demand, production cutbacks to enable scheduled equipment modernization, and high utilization levels on remaining capacity imposed constraints on the ability of domestic producers to satisfy orders. As a result, much of the import increase in flatrolled and semifinished products resulted from imports by U.S. steel producers and converters. In addition, increased Chinese steel production for domestic consumption and the subsequent reduction of Chinese steel imports, and slower economic growth in East Asia and the European Union (EU)-12 compared with growth in the United States contributed to a trade shift to the U.S. market.

Canada and Mexico remain the primary destinations for U.S. exports of steel mill products, together accounting for 68 percent of the total. U.S. exports

 $^{^2}$ U.S. imports of semifinished steel more than doubled to \$1.2 billion between 1992 and 1993.

of steel mill products to Canada increased by 16 percent to \$1.4 billion, while exports to Mexico increased by less than 1 percent to \$640 million. Because the automotive and machinery industries in the United States and Canada are integrated to a great extent, U.S. exports benefit from increased use of steel mill products by these industries in Canada. On the other hand, newly privatized Mexican steelmakers have restructured their operations and increased production in an effort to serve markets that have been traditionally supplied by U.S. exporters.

On a product basis, the most significant changes in 1994 occurred in exports of carbon steel pipes and tubes which rose by 36 percent to \$839 million and accounted for 26 percent of U.S. exports of steel mill products. Increased U.S. pipe exports resulted primarily from increased use of pipe in crude petroleum exploration and oil well development projects in East Asia (Thailand, in particular) and Canada.

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Precious metals and related articles

The U.S. trade surplus in precious metals and related articles dropped by \$3.4 billion to \$2.5 billion in 1994. Although U.S. imports of precious metals and related articles showed no appreciable change, U.S. exports declined significantly, from \$9.9 billion in 1993 to \$6.5 billion in 1994. Virtually all the change was a result of declining gold bullion exports to the United Kingdom and Switzerland.

The activities of certain Latin American and European central banks have caused large variations in U.S. exports since 1993. These foreign banks in the past had stored gold at the New York Federal Reserve Bank. However, in 1993 and the first part of 1994, transfers of some gold stocks to accounts in central banks in the United Kingdom and Switzerland occurred because these banks allow incomeproducing transactions, such as interest-bearing accounts, on gold deposits whereas Federal Reserve deposits are only custodial. During 1993, foreign stocks of gold bullion at the New York Federal Reserve dropped from approximately 9,750 metric tons to 9,075 metric tons, according to Gold Fields Mineral Services. During the same period, U.S. trade statistics showed 545 metric tons of gold bullion exported to the United Kingdom and Switzerland. Foreign gold stocks at the Federal Reserve declined to 8,900 metric tons in early 1994 and remained at about that level for the rest of the year.

The top import suppliers in 1994 were Canada, South Africa, and Russia, which together accounted

for 68 percent of the total value of U.S. imports. Russia continued to supply an increasing share of U.S. imports of platinum-group metals, up from 5 percent in 1993 to over 6 percent (\$258 million) in 1994. As recently as 1991, Russia had not supplied precious metals to the U.S. market. Unwrought gold and precious metal waste and scrap accounted for almost 90 percent of the total value of exports. Europe, Canada, and Hong Kong were the most important markets for U.S. exports in 1994.

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Unwrought aluminum³

The U.S. trade deficit in unwrought aluminum increased by 66 percent to \$3.3 billion from 1993 to 1994, as increased imports supplied all the increase in U.S. apparent open market consumption. This deficit has continued to grow since 1991; the 1994 increase was the seventh-largest experienced by any commodity group.

U.S. imports of unwrought aluminum rose by 52 percent (\$1.4 billion) to \$4.2 billion in 1994, reflecting an increase in average price of nearly 57 percent and a 34-percent rise in the volume of imports of primary aluminum and aluminum scrap to 2.9 million metric tons. Increased imports of these items occurred largely in response to reduced domestic production of primary aluminum, due to relatively low prices and rising costs coupled with increased demand by downstream consuming industries in the United States, including beverage can and automobile parts manufacturers. Canada and Russia, two of the world's largest aluminumproducing countries, accounted for three-quarters of the increase in U.S. imports. Imports increased from Canada because of cross-border ties between Canadian suppliers and their U.S. automotive customers; included in this increase are imports into Canada from Russia that were processed and exported to the United States. U.S. imports of aluminum metal from Russia continued to increase as Russian exporters sought hard-currency foreign exchange reserves in response to economic difficulties. In addition, tariff quotas imposed by the European Union on aluminum imports from Russia contributed to diversion of some aluminum to the U.S. market. Increases also occurred in U.S. imports of aluminum metal from Brazil and Venezuela which together accounted for nearly 16 percent (\$227 million) of the total increase in U.S. imports.

U.S. exports of unwrought aluminum increased by 16 percent (\$125 million) to \$896 million during 1994, reflecting the combined effects of an increase

³ Aluminum that has not been worked by mechanical means, such as by rolling, extruding, or forging. This commodity group includes aluminum-containing ores (bauxite and alumina) and scrap in addition to aluminum metal.

in average unit value (up 12 percent) and a highervolume of exports (up 4 percent to 778,000 metric tons). Increased exports of aluminum scrap (up 69 percent to \$285 million and up 49 percent to 262,000 metric tons) accounted for most of the overall increase. Exports increased largely because of declining U.S. dollar exchange rates vis-a-vis major trading partners, relatively low aluminum prices, and increased economic activity abroad in industries manufacturing aluminum and steel products. U.S. aluminum scrap exports increased to nearly all major market destinations in 1994 with the largest increases occurring in exports to Taiwan, South Korea, Hong Kong, China, and Mexico, where aluminum scrap was consumed in steel refining (steel production increased in South East Asia in 1994) and in the production of aluminum castings and forgings (principally of automobile parts).

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Natural and synthetic gemstones

The trade deficit for this product sector expanded by about 12 percent (\$653 million) to \$6.2 billion. As in the past several years, rising discretionary income continued to fuel domestic demand for natural and synthetic gemstones (principally, cut diamonds), causing imports to increase by 12 percent to \$6.4 billion. The combined value of U.S. imports from Israel, Belgium, and India—major diamond-cutting and trading centers—increased by 11 percent (\$473 million) to \$4.7 billion. These countries continue to account for the bulk of imports, representing 74 percent of the import value of natural and synthetic gemstones in 1994.⁴

An increased demand for better quality diamonds was reflected in a 24-percent increase in the average unit price of U.S. diamond exports, contributing to a 16-percent (\$37 million) increase in exports to \$268 million.⁵ U.S. exports to most of the major markets improved during 1994. Exports to Switzerland, Canada, Hong Kong, France, Japan, and India, which together accounted for 82 percent (\$219 million) of total U.S. exports of natural and synthetic gemstones in 1994, grew by 24 percent. With the exception of Canada and France, these countries are established jewelry-manufacturing and diamond markets. Exports to Canada consisted primarily of smaller (not over one-half carat), lower quality cut diamonds and unsorted diamonds that

are thought to be derived from subsidiary gold mining operations in the United States. Exports to France increased by 104 percent to \$16 million and consisted primarily of larger (over one-half carat), higher quality cut diamonds.⁶ U.S. exports of larger cut diamonds to more traditional markets decreased for the second year, from \$4 million to \$1 million for Israel and from \$3 million to \$1 million for the United Kingdom.

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Copper and related articles

Strong U.S. copper demand, especially in the transportation and construction sectors, caused U.S. imports of copper and related articles to increase by 28 percent to \$2.7 billion in 1994. The growth in imports was offset partially by a \$255-million increase in exports, resulting in a \$332-million (66 percent) increase in the trade deficit.

Both the transportation and construction sectors are major consumers of copper and copper alloys for electrical/electronic systems, heat exchange applications, and builders' hardware. In 1994, motor vehicles and parts production increased by 14 percent and new private housing starts increased by 13 percent over 1993 levels. Wire and brass mills, the principal producers of copper and copper alloy semifabricates, were reportedly operating at close to full capacity levels during 1994.

Quantity and price changes contributed to the increase in import value. Positive developments in the U.S. market combined with a modest expansion in European and Japanese consumption contributed to an increase in the world price of copper. The London Metals Exchange settlement price for copper rose from an average of \$0.87 per pound in 1993 to over \$1.00 per pound in 1994.

Refined copper products accounted for 70 percent of the change in import levels in 1994, although there were also significant increases in imports of certain semifabricated products (brass bars and rods, copper tubes, and copper wire). Increased imports from Canada, Chile, Mexico, and Germany accounted for most of the change in total imports. Waste and scrap articles accounted for most of the increase in 1994 exports levels.

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⁴ Russia recorded the largest increase in gemstone sales to the United States, from \$60 million in 1993 to \$160 million in 1994. Russia was reportedly selling more than their agreed amount outside the DeBeers network during this time in an effort to collect much needed foreign-exchange revenue.

⁵ While the average unit price and the total value of diamond exports (up by nearly 20 percent to \$183 million) increased in 1994, the quantity of diamonds exported decreased by 3 percent to 378,106 carats.

⁶ Although a smaller market than the six listed countries, exports to Taiwan increased by 123 percent to \$6.8 million, of which cut diamonds account for 44 percent (\$3.0 million) and piezo-electric quartz account for 43 percent (\$2.9 million). Piezo-electric quartz is used primarily for electronics.

Table 8-2Minerals and metals sector: U.S. trade for selected industry/commodity groups, by specified periods, Jan.1993-Dec. 19941

				Change, 1994 from 1993	
USITC code ²	Industry/commodity group	1993	1994	Amount	Percent
			— Million dollars		
/M001	Clays and nonmetallic minerals and products, not				
	elsewhere specified or included:	855	950	95	11 1
	Exports	800 125	950 153	95 28	11.1 22.4
	Trade balance	730	797	67	9.2
/M002	Certain miscellaneous mineral substances:			0.	0.2
	Exports	3	5	2	66.7
	Imports	33	34	1	3.0
MM003	Trade balance	-30	-29	1	3.3
1111003	Exports	167	162	-5	-3.0
	Imports	415	510	95	22.9
	Trade balance	-248	-348	-100	-40.3
MM004	Copper ores and concentrates:				
	Exports	342	393	51	14.9
	Imports Trade balance	42 300	126 267	84 -33	200.0 -11.0
MM005	Lead ores and residues:	300	207	-55	-11.0
	Exports	14	23	9	64.3
	Imports	(3)	(3)	⁽³⁾	-37.2
	Trade balance	14	23	9	64.3
MM006	Zinc ores and residues:	407	404	F 4	20.4
	Exports	137 18	191 18	54 0	39.4 0
	Trade balance	119	173	54	45.4
MM007	Certain ores, concentrates, ash, and residues:	110		01	10.1
	Exports	191	301	110	57.6
	Imports	476	508	32	6.7
11.1000	Trade balance	-285	-207	78	27.4
4M008	Precious metal ores and concentrates: Exports	3	16	13	433.3
	Imports	20	49	29	145.0
	Trade balance	-17	-33	-16	-94.1
MM009	Certain nonmetallic minerals and articles:				
	Exports	861	944	83	9.6
	Imports	1,438 -577	1,820 -876	382 -299	26.6 -51.8
MM010	Industrial ceramics:	-377	-070	-299	-51.6
	Exports	387	411	24	6.2
	Imports	330	356	26	7.9
		57	55	-2	-3.5
MM011	Ceramic bricks and miscellaneous ceramic				
	construction articles: Exports	17	19	2	11.8
	Imports	22	15	-7	-31.8
	Trade balance	-5	4	9	180.0
MM012	Ceramic floor and wall tiles:				
	Exports	23	24	1	4.3
	Imports	472	519	47	10.0
MM013	I rade balance	-449	-495	-46	-10.2
	Exports	110	105	-5	-4.5
	Imports	1,426	1,563	137	9.6
	_ Trade balance	-1,316	-1,458	-142	-10.8
MM014	Flat glass and certain flat glass products:	051	1 0 2 1	90	0.4
	Exports Imports	951 698	1,031 864	80 166	8.4 23.8
	Trade balance	253	167	-86	-34.0
MM015	Glass containers:		-		
	Exports	133	127	-6	-4.5
	Imports	265	323	58	21.9
	Trade balance	-132	-196	-64	-48.5
MM016	Household glassware: Exports	167	192	25	15.0
	Imports	568	643	75	13.2
	Trade balance	-401	-451	-50	-12.5
MM017	Certain glass and glass products:				
	Exports	387	437	50	12.9
	Imports	408	518 -81	110 -60	27.0
	Trade balance	-21	-81	-60	-285.7

See footnotes at end of table.

Table 8-2—ContinuedMinerals and metals sector: U.S. trade for selected industry/commodity groups, by specified periods, Jan.1993-Dec. 19941

odde² Industry/commodity group 1993 1994 Amount Percent Million dollars M018 Fiber glass products: Exports 387 448 61 15 Trade balance 387 448 61 15 Trade balance 387 448 61 15 M019 Natural and synthetic genstones: 231 268 37 16 Imports 5,733 6,429 690 12 448 -343 -34 M020 Preductslance 5,901 2,498 -3,403 -57 Exports 9 845 6,531 -3,364 -34 M021 Primary iron products: 8 450 237 111 Trade balance -213 450 237 111 M022 Feronalloys: 205 438 -233 113 M023 Trade balance 1141 1031 -110 -9 M024 Abraseva and ferous powders: 1322 288					Change, 199	Change, 1994 from 1993	
M018 Fiber glass products: 387 448 61 15 Imports 200 255 55 27 M019 Natural and synthetic genstiones: 21 268 37 16 Exports 57.39 6.429 680 11 M020 Precious metals and related articles: 9.895 6.511 -3.364 -3.44 Imports 3.994 4.033 -39 1 -3.364 -3.44 Imports 3.994 4.033 -39 1 -3.66 -6.161 -6653 -111 M021 Prinzel kolance 5.701 2.488 -3.344 -57 1.345 2.433 -39 1 Trade balance -205 -438 2.433 -113 M023 170 -96 -77 -8 -8 -60 -27 -2 -3 M022 Iron and steel waste and scrap: -166 -760 -7 2 -3 -3 -3 -3 -3	USITC code ²	Industry/commodity group	1993	1994	Amount	Percent	
Exports 387 448 61 15 M1019 Natural and synthetic genstones: 21 286 37 Exports 5739 6,429 690 12 Trade balance 5,508 -6,611 -6633 -111 M020 Precious metals and related articles: 9,895 6,631 -3,364 -34 M021 Prade balance 5,508 -6,631 -3,364 -34 Imports 9,895 6,631 -3,364 -34 Imports 131 450 237 101 Trade balance -205 -438 -233 1113 M022 Ferroaloys: 95 87 -8 -8 Imports -760 777 17 2 -777 17 2 Trade balance -665 -690 -25 -33 113 M023 trade balance 1,141 1,031 -110 -9 M024 Abrasite and scrap: -132 <td></td> <td></td> <td></td> <td>— Million dolla</td> <td>ars ——</td> <td></td>				— Million dolla	ars ——		
Imports 200 255 55 27 Trade balance 187 193 6 3 M019 Natural and synthetic genstones: 231 268 37 16 Imports 5,738 6,429 6600 12 M020 Precious metals an related articles: 9,695 6,531 3,364 34 Imports 3,994 4,033 39 1 1 Trade balance 5,901 2,498 3,403 -57 Imports 8 12 4 50 237 111 IM021 Primary iron products: 8 12 4 50 Exports 95 87 78 -8 -111 IM022 Ferroalloys: 95 87 -8 -112 Trade balance -665 -690 -25 -3 IM023 Iron and steel waste and scrap: 1,121 1,229 -54 -4 Imports -162 98 432 </td <td>1M018</td> <td></td> <td></td> <td></td> <td></td> <td></td>	1M018						
Trade balance 187 193 6 3 MM19 Natural and synthetic genstones: 231 268 37 16 Imports 5739 6.429 690 12 Trade balance -5,508 6,6161 -653 -11 M020 Precious metals and related anticles: 9,895 4,033 -3,364 -3,403 Imports				-		15.8	
M019 Natural and synthetic genstones: 231 288 37 16 Imports 5,739 6,429 6600 12 M020 Trade balance -5,508 6,161 -653 -11 M021 Precious metals and related articles: 9,895 6,531 -3,384 -3,43 M021 Printary iron products: 8 12 4 500 Imports 213 450 237 111 Trade balance -2005 -438 -233 -113 M022 Ferrealoys: 95 87 -8 -8 Imports						27.5	
Exports 231 263 37 16 Imports 5,739 6,429 690 12 Trade balance 5,508 -6,161 -653 -11 M020 Precious metals and related articles: 9,895 6,531 -3,364 -34 Imports 3,994 4,633 -3,44 50 -57 M021 Primary iron products: 8 12 4 50 Imports -205 -433 -233 -113 M021 Fercalloys: 95 87 -8 Exports -95 87 -8 -7 Imports -1323 1,269 -253 -33 M023 Iron add steel waste and scrap: -1422 238 56 -30 M024 Abrasive and ferrous powders: -3 -48 -43 -111 -9 M024 Abrasive and ferrous powders: -147 -163 -16 -10 M025 Steep ips and tube fittings, and certain ca	11/010		107	193	0	3.2	
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Exports 9,895 6,531 3,364 -34 IM021 Primary iron products: 5,901 2,498 -3,403 -57 IM021 Primary iron products: 8 12 4 50 IM022 Forcablys: 95 87 6 8 Imports 760 777 17 2 2 Trade balance -665 -690 -25 -3 Imports -1323 1,269 -54 -4 Imports -1323 1,269 -54 -4 Imports -1323 1,269 -54 -4 Imports -141 1,031 -110 -9 M024 Abrasive and ferrous powders: 398 432 34 8 Imports -165 595 50 9 -166 -10 -10 M025 Staports -346 545 595 50 9 -44 Imports -166 143						-11.9	
Imports 3,994 4,033 39 1 Trade balance 5,901 2,498 -3,403 -57 M021 Farde balance 213 450 237 111 M022 Farde balance -205 +438 -233 -113 M023 Ferroalloys: 95 97 -6 -90 -25 -33 M023 Iron and steel waste and scrap: -665 -690 -25 -33 M024 Abrasive and ferrous powders: -1323 1,289 -56 -30 M024 Abrasive and ferrous powders: -1323 -289 -56 -30 M024 Abrasive and ferrous powders: -147 -163 -10 -9 M025 Steel mill products, all grades: -147 -163 -765 43 Trade balance -147 -163 -765 43 M025 Steel pipe and tube fittings, and certain cast products: -9,406 -3,547 -00 M025 Steel pipe and tube fitt	1M020						
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M021 Primary iron products: 8 12 4 50 Imports 213 450 233 111 Trade balance -205 -438 -233 111 M022 Ferroalloys: -760 777 17 2 Imports -760 777 17 2 Itrade balance -665 -690 -25 -33 Itrade balance -665 -690 -25 -33 Itrade balance -1,323 1,269 -54 -4 Imports -122 748 -535 -56 30 IM024 Abrasive and ferrous powders: -101 -9 -9 -163 -16 -10 M025 Steel mill products, all grades: -2,811 3,029 2,18 7 Exports -8,670 12,435 3,765 7 43 M026 Steel pipe and tube fittings, and certain cast products: -100 -10 -10 M026 Steel pipe and tube fittings, and certain cast products: -174 117 25 -32						1.0 -57.7	
Exports 8 12 4 50 MM022 Ferroalloys: -205 -438 -233 -113 Trade balance -205 -438 -233 -113 IM023 For coalloys: 95 87 -8 -8 Imports -760 777 17 2 - Trade balance -665 -690 -25 -3 IM023 Iron and steel waste and scrap: - - - Exports 1.323 1.269 -54 -4 Imports 1.52 238 56 30 Trade balance 1.141 1.031 -110 -9 IM024 Abrasive and ferrous powders: 388 432 34 8 Exports -545 592 37 60 -10 IM025 Steel mil products, all grades: -241 -165 -10 Imports -233 -167 18 17 12435 37.657	1M021		5,501	2,430	-3,403	-57.7	
Imports 213 450 237 111 Trade balance -205 -438 -233 -113 M022 Ferroalloys: -95 87 -8 -8 Imports -760 777 17 2 - Trade balance -665 -690 -25 -3 M023 Iron and steel waste and scrap: - - - Exports 1,822 23 56 30 M024 Ardabasive and ferrous powders: - - - Exports - - 147 -163 -16 -10 M025 Steel mill products, all grades: - 2.811 3.029 2.18 7 Trade balance - - - - 174 - 163 -60 M026 Steel pipe and tube fittings, and certain cast products: - 884 484 0 - Imports - 174 117 - -			8	12	4	50.0	
M022 Ferroalloys: 95 87 8 8 Imports 760 77 17 2 3 M023 Iron and steel waste and scrap: -665 -690 -25 -3 M023 Iron and steel waste and scrap: 1323 1.269 -54 -4 Imports 182 238 56 30 M024 Abrasive and ferrous powders: 398 432 34 8 Imports .545 595 50 9 Trade balance .147 -163 -16 -10 M025 Steel mill products, all grades: 2.811 3.029 218 7 Exports .2.611 3.029 218 7 -16 -10 M026 Steel pipe and tube fittings, and certain cast products: 2.811 3.029 218 7 Exports .310 367 57 18 -7 -7 M027 Fabricated structurals: .117 122 5 4 Imports .310 367 57 18			213	450	237	111.3	
Exports 95 87 8 8 Imports 760 777 17 2 Trade balance -665 -690 -25 -3 Imports 1.323 1.269 -54 -4 Imports 1.82 238 56 30 Trade balance 1.141 1.031 -110 -9 M024 Abrasive and ferrous powders: 398 432 34 8 Exports .398 432 34 8 7 166 -100 M025 Steel mill products, all grades: 2.811 3.029 218 7 Imports .2.811 3.029 218 7 -166 -100 M026 Steel pipe and tube fittings, and certain cast products: 8670 -3.547 -60 Imports .2.811 3.029 218 7 -7 IM026 Steel pipe and tube fittings, and certain cast products: 117 122 5 4 Imports			-205	-438	-233	-113.7	
Imports 760 777 17 2 Trade balance -665 -660 -25 -3 MU023 Iron and steel waste and scrap: -665 -660 -25 -3 Imports 1.323 1.269 -54 -4 Imports 1.141 1.031 -110 -9 MU24 Abrasive and ferrous powders: 398 432 34 8 Imports	1M022	_ ,	05	07	0		
Trade balance -665 -680 -25 -3 M023 Iron and steel waste and scrap: 1,323 1,269 -54 -4 Imports 1,141 1,031 -110 -9 M024 Abrasive and ferous powders: 398 432 34 8 Exports						-8.4 2.2	
IM023 Iron and steel waste and scrap: 1.323 1.269 -54 -4 Imports 1.82 2.38 56 30 IM024 Abrasive and ferrous powders: 398 432 34 8 Imports						-3.8	
Exports 1.323 1.269 -54 -4 Imports 182 238 56 30 M024 Abrasive and ferrous powders: 398 432 34 8 Imports	IM023		-000	-050	20	0.0	
Trade balance 1,141 1,031 -110 -9 M024 Abrasive and ferrous powders: 398 432 34 8 Imports 545 55 50 9 IM025 Steel mil products, all grades: -147 -163 -16 -10 IM025 Steel mil products, all grades: 2,811 3,029 218 7 Imports 8,670 12,435 3,765 43 IM026 Steel pipe and tube fittings, and certain cast products: 844 484 0 Imports 310 367 57 18 IM027 Fabricated structurals: 7 42 28 Trade balance 117 122 5 4 Imports 85 109 24 28 Trade balance 32 13 19 -59 IM028 Metal construction components: 117 122 5 4 Imports 32 13 19 -59 IM028 Metal construction components: 269 272 3			1,323	1,269	-54	-4.1	
IM024 Abrasive and ferrous powders: 398 432 34 8 Imports 545 595 50 9 IM025 Steel mill products, all grades: 2,811 3,029 218 7 Exports 2,8670 12,433 3,765 43 Trade balance -5,859 -9,406 -3,547 -60 IM026 Steel pipe and tube fittings, and certain cast products: 8670 12,433 3,765 43 Trade balance -5,859 -9,406 -3,547 -60 IM027 Fabricated structurals: 117 12,757 -18 Trade balance 174 117 -57 -32 IM027 Fabricated structurals: 117 122 5 4 Imports 32 13 -19 -59 IM028 Metal constructurals: 117 122 5 4 Imports 138 181 43 31 Trade balance 269 272 3 1 IM028 Metal construction components: 282		Imports	182			30.8	
Exports 398 432 34 8 Imports 545 555 50 9 Trade balance -147 -163 -16 -10 M025 Steel mill products, all grades: 2,811 3,029 218 7 Imports 8,670 12,435 3,765 43 M026 Steel pipe and tube fittings, and certain cast products: 484 484 0 Exports -174 117 -57 32 M027 Fabricated structurals: 117 122 5 4 Imports 32 13 -19 -59 M028 Metal construction components: 407 453 46 11 Imports 138 181 43 31 1 Imports 269 272 3 1 Imports 263 642 7 1 Imports 333 18 -35 -9 M029 Metalic constructin co			1,141	1,031	-110	-9.6	
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Trade balance -147 -163 -16 -10 IM025 Steel mill products, all grades: 2,811 3,029 218 7 Imports 8,670 12,435 3,765 43 M026 Steel pipe and tube fittings, and certain cast products: 8,670 12,435 3,765 43 M027 Fabricated structurals: 310 367 57 18 Imports 174 117 -57 -32 IM027 Fabricated structurals: 117 122 5 4 Imports 85 109 24 28 Trade balance 32 13 -19 -59 IM028 Metal construction components: 85 109 24 28 Exports 138 181 43 31 Trade balance 269 272 3 1 IM029 Metal construction components: 269 272 3 1 Imports 353 318 143 33 31 135 -9 IM029 Me						8.5 9.2	
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Exports	11 100 1		-665	-768	-103	-15.5	
Imports	111/10/34		165	152	-12	7 2	
						-7.3 22.1	
Trade balance						-146.2	

See footnotes at end of table.

Table 8-2—Continued

Minerals and metals sector: U.S. trade for selected industry/commodity groups, by specified	periods, Jan.
1993-Dec. 1994 ¹	•

				Change, 199	Change, 1994 from 1993	
USITC code ²	Industry/commodity group	1993	1994	Amount	Percent	
		-	— Million dollar	s		
MM035	Iron construction castings and other nonmalleable cast-iron articles:					
	Exports	29	26	-3	-10.3	
	Imports	57	72	15	26.3	
	Trade balance	-28	-46	-18	-64.3	
MM036	Copper and related articles:	-	-	-		
	Exports	1,562	1,817	255	16.3	
	Imports	2.068	2.655	587	28.4	
	Trade balance	-506	-838	-332	-65.6	
MM037	Unwrought aluminum:	000	000	002	00.0	
101007	Exports	771	896	125	16.2	
	Imports	2.774	4.221	1.447	52.2	
	Trade balance	-2.003	-3,325	-1,322	-66.0	
MM038		-2,003	-3,525	-1,522	-00.0	
11111030	Aluminum mill products:	1 700	2.177	449	26.0	
	Exports	1,728	_,			
	Imports	1,096	1,446	350	31.9	
	Trade balance	632	731	99	15.7	
MM039	Lead and related articles:		70	•	~ ~ ~	
	Exports	64	70	_6	_9.4	
	Imports	97	149	52	53.6	
	Trade balance	-33	-79	-46	-139.4	
MM040	Zinc and related articles:					
	Exports	58	67	9	15.5	
	Imports	746	813	67	9.0	
	Trade balance	-688	-746	-58	-8.4	
MM041	Certain base metals and chemical elements:					
	Exports	808	923	115	14.2	
	Imports	1,472	1,720	248	16.8	
	Trade balance	-664	-797	-133	-20.0	
MM042	Nonpowered handtools:					
	Exports	1.315	1.455	140	10.6	
	Imports	1,789	1,939	150	8.4	
	Trade balance	-474	-484	-10	-2.1	
MM043	Cutlery other than tableware, certain sewing					
	implements, and related products:					
	Exports	308	385	77	25.0	
	Imports	525	585	60	11.4	
	Trade balance	-217	-200	17	7.8	
MM044	Table flatware and related products:	-217	-200	17	7.0	
1011044	Exports	21	28	7	33.3	
			20	15	7.2	
	Imports	209	-196			
	Trade balance	-188	-196	-8	-4.3	
MM045	Certain builders' hardware:	550	600	67	10.4	
	Exports	553	620	67	12.1	
	Imports	646	709	63	9.8	
	Trade balance	-93	-89	4	4.3	
MM046	Miscellaneous products of base metal:		•			
	Exports	2,344	2,776	432	18.4	
	Imports	2,936	3,502	566	19.3	
	Trade balance	-592	-726	-134	-22.6	

¹ Import values are based on Customs value; export values are based on f.a.s. value, U.S. port of export.
 ² This coding system is used by the U.S. International Trade Commission to identify major groupings of HTS import and export items for trade monitoring purposes.
 ³ Less than \$500,000.

Chapter 9 Machinery

A \$9.2 billion increase in U.S. imports of machinery in 1994 more than offset the \$5.4 billion rise in U.S. exports of these products and turned a U.S. trade surplus of \$1.2 billion into a \$2.6 billion deficit (table 9-1). The 12-percent rise in U.S. exports from \$44.4 billion in 1993 to \$49.9 billion in 1994, was countered by the 21-percent upturn in imports that amounted to \$52.4 billion in 1994. The import surge was led by strong U.S. demand for injection molds and molding machinery for rubber and plastics, semiconductor-manufacturing equipment, ignition wiring harnesses for motor vehicles, tractors and other farm and garden equipment, automotive air-conditioning and household refrigeration equipment and parts, and metal-cutting machine tools and parts. The sustained growth of the U.S. automotive market and lower interest rates, which boosted capital equipment purchases and U.S. construction activity, were principal contributors to the robust U.S. demand for this equipment in 1994.

The relatively slower expansion in U.S. exports of machinery was concentrated in shipments to Canada and Mexico, which accounted for nearly one-half of the total annual increase during 1994. The implementation of the North American Free-Trade Agreement (NAFTA) was a major impetus to increased U.S. machinery shipments to Mexico, despite the devaluation of the Mexican peso in July 1994.¹ The more significant devaluation of the peso on December 10, 1994, is expected to substantially impact U.S. shipments of certain automobile parts and electrical machinery products to Mexico in 1995.² The fact that some product categories experienced strong increases in both imports and exports in 1994. reflects growth in two-way trade

commensurate with reciprocal reductions in trade barriers, market-opening policies in several newly industrialized countries, and continued globalization of industries.

U.S. Bilateral Trade

Canada, Mexico, Japan, and the European Union (EU)-12 (most notably Germany and the United Kingdom) accounted for the vast majority of U.S. trade in machinery during 1994 (figures 9-1 and 9-2). Together, these U.S. trading partners were responsible for 60 percent of total U.S. exports; 76 percent of U.S. imports; 75 and 76 percent of the change in U.S. exports and imports, respectively; and 78 percent of the increase in the U.S. trade deficit.

Canada was the leading U.S. export market for machinery in 1994, and the fourth-leading source of U.S. imports. U.S. exports to Canada rose by \$1.6 billion (15 percent) in 1994 to \$12.3 billion, or 25 percent of the annual U.S. total. U.S. imports of this equipment from Canada, on the other hand, surged by 41 percent (\$1.8 billion) to \$6.4 billion, thereby lowering the U.S. trade surplus with Canada by \$216 million to \$5.9 billion. Canadian demand was driven principally by an upturn in Canadian automotive production and rising farm income, as reflected by the major products contributing to the increase in U.S. exports: automotive air-conditioning equipment, farm and garden equipment, insulated electrical wire and cable, and metal-cutting machine tools. The major factors driving U.S. demand for these products in 1994 was the strong U.S. motor vehicle market, a decline in U.S. interest rates, and an increase in U.S. farm income. Principal categories of U.S. imports of machinery from Canada in 1994 were injection and compression molds for rubber and plastic automotive parts; taps, cocks, and valves; and tractors and commercial and residential lawn and garden equipment.

An upturn of \$1.8 billion (34 percent) in U.S. imports of machinery from Mexico pushed the annual total to \$7.1 billion in 1994 and reversed the U.S.

¹ For a more detailed explanation of the fluctuation of the peso in 1994, see "Exchange Rate Shifts" on p. 2-7 and the country profile on "Mexico" on p. 2-20.

² This impact is expected to be somewhat mitigated by efforts of the Mexican Government to attract foreign capital into export-oriented industries (notably the maquiladora industry). See Ruben Mata, "NAFTA update: Steady U.S. bilateral trade growth with Mexico faces mixed prospects in 1995," *Industry, Trade, and Technology Review* (Washington, DC: U.S. International Trade Commission (USITC) Mar. 1995), pp. 1-4.

Table 9-1

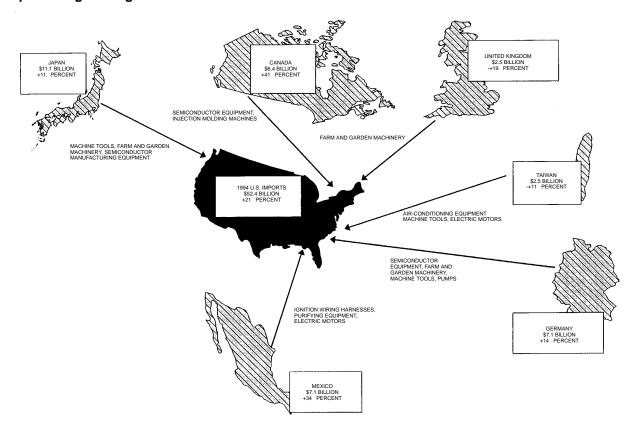
Machinery: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1993 and 1994¹

			Change, 1994 from 1993	
Item	1993	1994	Amount	Percent
		- Million dollars		
U.S. exports of domestic merchandise: Canada Mexico Japan Germany United Kingdom Taiwan China Korea	10,676 5,871 2,154 1,626 1,804 1,347 1,381 1,786	12,308 6,861 2,582 1,665 2,050 1,437 1,433 2,361	1,631 989 428 39 246 90 51 575	15.3 16.9 19.9 2.4 13.6 6.7 3.7 32.2
Italy France All other	545 1,176 16,050	650 1,380 17,124	105 204 1,074	19.2 17.4 6.7
Total EU-12 OPEC Latin America CBERA Asian Pacific Rim ASEAN Eastern Europe	44,417 7,294 2,908 10,147 1,125 10,643 2,644 175	49,850 8,294 2,585 11,483 1,266 12,320 3,138 187	5,433 1,000 -323 1,336 141 1,677 494 12	12.2 13.7 -11.1 13.2 12.6 15.8 18.7 7.1
U.S. imports for consumption: Canada Mexico Japan Germany United Kingdom Taiwan China Korea Italy France All other	4,512 5,278 10,034 6,221 2,085 2,220 1,918 827 1,971 1,053 7,121	6,360 7,080 11,117 7,085 2,488 2,472 2,390 1,035 2,472 1,245 8,698	1,848 1,802 1,082 864 403 252 473 208 501 192 1,577	40.9 34.1 10.8 13.9 19.3 11.4 24.6 25.1 25.4 18.2 22.1
Total EU-12 OPEC Latin America CBERA Asian Pacific Rim ASEAN Eastern Europe	43,242 12,795 62 5,926 85 16,301 1,396 187	52,442 15,046 87 7,899 97 18,566 1,690 244	9,200 2,251 26 1,973 11 2,265 295 58	21.3 17.6 41.5 33.3 13.2 13.9 21.1 31.0
U.S. merchandise trade balance: Canada Mexico Japan Germany United Kingdom Taiwan China Korea Italy France All other	6,164 593 -7,881 -4,595 -281 -873 -536 959 -1,426 123 8,929	5,948 -219 -8,534 -5,420 -438 -1,036 -957 1,326 -1,822 135 8,426	-216 -812 -654 -825 -158 -163 -421 367 -396 13 -503	(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)
Total EU-12 OPEC Latin America CBERA Asian Pacific Rim ASEAN Eastern Europe	1,175 -5,501 2,846 4,221 1,039 -5,658 1,248 -12	-2,592 -6,752 2,498 3,585 1,169 -6,246 1,447 -57	-3,767 -1,251 -349 -637 130 -587 199 -46	(2) (2) (2) (2) (2) (2) (2) (2) (2)

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

Note.—Because of rounding, figures may not add to the totals shown. The countries shown are those with the largest total U.S. trade (U.S. imports plus exports) in these products in 1994.

Figure 9-1 U.S. machinery sector imports, 1994: Leading U.S. imports, by major sources, and overall percentage change since 1993



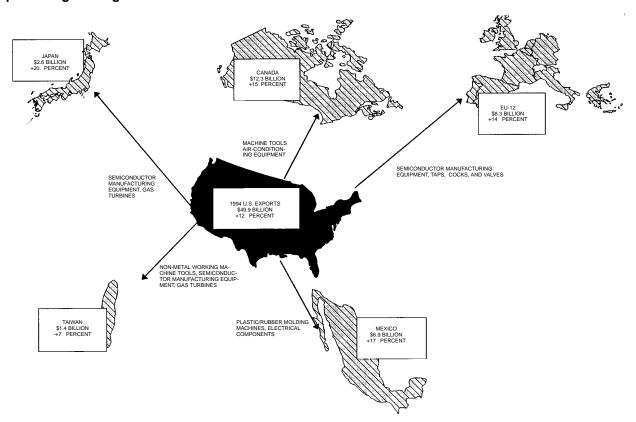
Source: Derived from official statistics of the U.S. Department of Commerce.

trade balance with Mexico from a surplus of \$593 million in 1993 to a deficit of \$219 million in This development occurred in spite of a 1994. 17-percent rise in U.S. exports to Mexico, which reached \$6.9 billion in 1994. The major sources of increased U.S. imports from Mexico were ignition wiring harnesses for motor vehicles, electric motors, and catalytic converters, all products significantly comprised of U.S. components that undergo substantial assembly operations in Mexico under the provisions of U.S. tariff schedule item 9802.00.80.3 The increase in wiring harnesses alone, which are the focus of substantial maquiladora assembly operations by U.S.-based suppliers, was approximately \$800 million in 1994. Rising U.S. demand for these products was largely attributable to strong domestic sales of motor vehicles and consumer electrical appliances in 1994.

U.S. bilateral trade with Japan in machinery was dominated by imports, which rose by 11 percent in 1994 to \$11.1 billion, and accounted for 21 percent of the annual U.S. total. In spite of a 20-percent increase in exports to Japan, which brought the 1994 total to \$2.6 billion, the trade deficit in these products grew by \$654 million to \$8.5 billion in 1994. The \$1.1 billion growth in imports from Japan, which remained the single largest foreign source, was principally supported by shipments of semiconductor-manufacturing equipment, injectionmolding equipment and parts, industrial vibrators, metal-cutting machine tools, farm and garden equipment, and automotive air-conditioners and refrigeration compressors. The principal product categories in which U.S. export increases to Japan were concentrated were centrifuges and filtering equipment and specialized semiconductor manufacturing equipment.

³ For further discussion of these and other similar assembly operations see USITC, *Production Sharing: Use of U.S. Components and Materials in Foreign Assembly Operations, 1990-1993*, USITC publication 2886, May 1995.

Figure 9-2 U.S. machinery sector exports, 1994: Leading U.S. exports, by major markets, and overall percentage change since 1993



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

U.S. trade in machinery with members of the EU-12 was generally not favorable during 1994, as the trade deficit with this bloc of countries increased by \$1.3 billion to \$6.8 billion, on U.S. imports of \$15.0 billion and U.S. exports of \$8.3 billion. Germany was by far the leading contributor to this trend, as U.S. imports from this source rose by 14 percent to \$7.1 billion and U.S. exports to Germany posted only a 2-percent gain to \$1.7 billion. The resulting trade deficit with Germany of \$5.4 billion represented 80 percent of the total deficit with the EU-12 in machinery during 1994. The leading German imports during 1994 were printing and typesetting equipment, pumps for liquids, metal-cutting machine tools, and wrapping and packag-German manufacturers of this ing equipment. equipment have established strong competitive positions in U.S. markets through their world-renowned craftsmanship, technological leadership, and niche specialization.

Commodity Analysis

Semiconductor manufacturing equipment, injection and compression molds and machinery⁴

The trade surplus in this broad grouping of products decreased by 19 percent to \$1.2 billion in 1994, as a 33-percent increase (\$2 billion) in imports to \$8.1 billion surpassed a more modest 23-percent increase (\$1.7 billion) in exports to \$9.3 billion.

⁴ The major product groups in this category are industrial robots, semiconductor-manufacturing machinery, injection and compression molds, and other miscellaneous machinery and equipment.

This significant increase in trade was spurred by activity in two major product categories: injection and compression molding machinery, and equipment used to manufacture semiconductors.

Most import growth occurred in injection and compression molds for rubber and plastics from Cana-Imports of these products from Canada inda. creased by 222 percent (\$722 million), to \$1 billion in 1994. Increased demand for Canadian molds resulted from expanded use of large specialized molds by the U.S. automotive industry, which continued to experience solid growth in demand for its products in 1994. Canadian manufactures of this equipment also gained a price advantage in the U.S. market because of the decline in the value of the Canadian dollar vis-a-vis the U.S dollar.⁵ Japan remained the largest source for U.S. imports of all goods within the broader category; machinery and mechanical appliances and related parts, specialized machinery for semiconductor manufacturing, and industrial vibrators spurred a 15-percent increase in U.S. imports from Japan during 1994 (up \$300 million to \$2.3 billion).

Export growth in this category was concentrated in machinery for the production and assembly of semiconductors and related parts (\$720 million), which constituted 42 percent⁶ of the total increase in exports. France, Japan, Korea, and Taiwan were the leading U.S. markets for these types of equipment. U.S. manufacturers have reportedly benefited from the boom in construction of semiconductor fabrication plants because of the growing demand for semiconductors worldwide. For example, Taiwan reportedly plans to invest \$8 billion in 10 new fabrication plants between 1995 and 1998.⁷ Much of the recent growth in Southeast Asia is attributed to offshore investment by Japanese firms.

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Insulated electrical wire and cable and related products

Reflecting the increased use of assembly plants in Mexico to make auto parts, U.S. imports of insulated electrical wire and cable and related products rose from \$3.6 billion in 1993 to \$4.8 billion in 1994, or by 35 percent, totally eclipsing the 10-percent (\$298 million) increase in U.S. exports of these products that reached \$3.3 billion in 1994. The resulting U.S. trade deficit in these products increased to \$1.5 billion, considerably greater than the \$573 million deficit registered in 1993, and generally reflecting the strong U.S. markets during 1994 for bulk (wire and cable w/o fittings) and finished or semifinished (with fittings) wire and cable products used in the assembly of motor vehicles, electronic products (such as computers and office machines), and electrical appliances.

The bulk of the \$1.25 billion-increase in U.S. imports of these products (\$933 million, or 75 percent) was the result of accelerated entries from Mexico, which accounted for 62 percent (\$3.0 billion) of the U.S. total in 1994, up from 57 percent in 1993. The vast majority (\$2.5 billion) of imports from Mexico consisted of wiring harnesses for motor vehicles supplied by established U.S.-owned assembly operations using U.S. components to take advantage of lower Mexican wages. The labor-intensive production operations typically performed consist of cutting U.S.-made insulated wire to length, affixing the appropriate U.S.-made terminal connecter to the end of each wire, and wrapping the entire assembly. In recent years, foreign suppliers of these automotive components to the U.S. transplant operations of Japanese and European automakers have also established extensive operations along the Mexican border, adding to the annual influx. U.S. demand for these components was also heightened by strong U.S. sales of motor vehicles during 1994.

The Philippines, Canada, and China, the next three leading import suppliers in 1994, each recorded significant increases of 42 percent (to \$323 million), 27 percent (to \$282 million), and 53 percent (to \$249 million), respectively. Imports from the Philippines were almost exclusively of ignition wiring harnesses for motor vehicles for use in the U.S. transplant operations of foreign automotive produc-Canadian entries were generally widespread ers. across all of the wire and cable categories represented in this grouping, with significant concentrations of activity in low-voltage (80 volts and under) wire not fitted with connecters (nfwc), intermediatevoltage (81 to 600 volts) copper wire and cable nfwc, and ignition wiring harnesses. During 1994, U.S. imports from China consisted principally of miscellaneous wire and cable rated at between 81 to 1,000 volts and fitted with connecters (fwc), wiring harnesses, and low-voltage wire fwc.

During 1994, each major product category of wire and cable imports recorded double-digit increases. The largest absolute and percentage increase by far was in ignition wiring harnesses, which rose from approximately \$2.3 billion in 1993 to over \$3.3 billion in 1994, or by 46 percent. This product category accounted for nearly 70 percent of total U.S imports of all insulated electrical conductors during 1994, up from 64 percent in 1993. Imports in the

⁵ The U.S. dollar strengthened by an average of 5 percent vis-a-vis the Canadian dollar in 1994.

⁶ Excluding a significant increase in exports of parts of construction equipment (\$250 million) included in this group of products, this percentage would increase to 50 percent.

⁷ Telephone conversation with industry official on May 11, 1995.

next leading category, miscellaneous wire and cable rated at between 81 to 1,000 volts and fwc, increased by 13 percent during 1994 to \$549 million, and represented 11 percent of the 1994 total.

The growth in exports of insulated electrical conductors was principally the result of an 11-percent rise (\$83 million) in shipments to Canada, the second-leading export recipient, and of increases to a scattering of considerably smaller foreign markets. The most notable of these developing markets for U.S. exports in 1994 were the United Kingdom (up by 33 percent to \$94 million), Korea (88 percent higher at \$59 million), and Thailand (expanding by 151 percent to \$54 million). Exports of insulated electrical conductors to Mexico, the leading U.S. market, were up only slightly in 1994, by 2 percent The three leading U.S. export to \$1.3 billion. categories in 1994, principally for use in Mexican maquiladora assembly operations of U.S. auto part suppliers, were ignition wiring harnesses (including parts), which accounted for \$1.4 billion, or 43 percent of the annual total; coaxial wire and cable (\$401 million, or 12 percent); and low-voltage wire nfwc (\$310 million, or 9 percent).

John Cutchin (202) 205-3396

*Metal-cutting machine tools, parts, and accessories*⁸

The U.S. trade deficit in metal-cutting machine tools, parts, and accessories rose by 21 percent, from \$897 million in 1993 to almost \$1.1 billion in 1994. U.S. demand for these products has remained strong because of increased retooling for new models by motor vehicle and related equipment industries and lower borrowing costs that spurred capital investments in the general machinery industries to raise manufacturing productivity. The trade deficit may have been moderated since demand for new machines by the aerospace and oil-drilling machinery industries continued to be weak in 1994.

U.S. imports increased by 25 percent (\$546 million) to \$2.7 billion in 1994. Half of the increase was attributable to imports from Japan, which rose by 26 percent (\$274 million) to \$1.3 billion. Imports from Switzerland and Taiwan also rose significantly. Because of weak demand in European and Japanese markets during 1993-94, foreign metal-cutting machine tool builders exported to the United States at low prices to counter the lack of orders in their home markets. Over half the increase in imports from Japan and Taiwan occurred in metal-cutting

machine tools that had been covered by voluntary restraint agreements between these countries and the United States that expired at the end of 1993.

U.S. exports of metal-cutting machine tools, parts, and accessories rose by 28 percent (\$361 million), to almost \$1.7 billion in 1994. About 80 percent of the increase in exports was to Canada and principally attributable to retooling by motor vehicle and related equipment industries. U.S. exports of metal-cutting machine tools, parts, and accessories to China rose by 10 percent (\$37 million) in 1994. Exports to Mexico declined by 24 percent (\$35 million) to \$113 million in 1994 because of financial instability in Mexico. Exports to Venezuela fell by 47 percent (\$31 million) to \$35 million in 1994 as large one-time orders were filled in 1993.

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Farm and garden machinery and equipment

The U.S. trade surplus in agricultural and garden machinery fell by 48 percent (\$603 million) to \$652 million in 1994, due principally to a 33-percent increase in such imports to nearly \$3.3 billion in 1994. Growing domestic demand for agricultural machinery stems from steadily rising farm income reflecting higher commodity prices in 1993 and expanded crop acreage in 1994. Demand for farm and garden machinery was tempered somewhat by droughts in the Southeast and flooding in the Midwest in 1993. Rising consumer incomes also increased demand for residential lawn and garden equipment. Demand for commercial lawn equipment rose as the number of golf courses increased. About one-third of the increase in imports was from Japan, followed by Canada, the United Kingdom, Germany, and Italy. More than one-half of the increase in imports was of tractors and parts.

U.S. exports of farm and garden machinery rose by almost 6 percent (\$205 million) to \$3.9 billion in 1994. Exports to Canada, Mexico, Australia, Ar-However, gentina, and Russia rose significantly. export gains were partially offset by declines in exports to Saudi Arabia, the United Arab Emirates, China, and Iran. Exports to Canada rose because of rising Canadian net farm income. Exports to Mexico rose in part because of agricultural land reform measures launched by the Government of Mexico and because of Government efforts to mechanize agricultural production. Mexican tariffs on most farm machinery were eliminated in March 1993 to facilitate Mexican imports. Exports to Saudi Arabia fell because the Government of Saudi Arabia reduced its demand for grains from large

⁸ Work-holders, tool-holders, and dividing heads.

commercial farms that purchased imported tractors and combines.

Dennis Fravel (202) 205-3404

Air-conditioning equipment and parts

Increased construction activity in the United States helped boost U.S. imports of air-conditioning equipment and parts by 20 percent (\$611 million) to \$3.7 billion in 1994. With imports expanding faster than the moderate rise in U.S. exports, which were sustained by gradual economic growth in major foreign markets, the U.S. trade surplus in airconditioning equipment and parts declined by \$229 million in 1994, to \$4.1 billion. A significant expansion in residential construction, home renovation and improvements, and institutional building (for example, correction facilities) in 1994 occurred largely because of a decline in U.S. interest rates.

Rising imports of these products were attributable to a rebounding U.S. market for air-conditioning equipment and parts and to brisk import competition in select market niches. In 1994, the leading foreign sources of air-conditioning equipment and parts imports was Japan, followed by Mexico, Taiwan, China, and Germany. Imports from Japan increased by 9 percent (\$75 million) to \$873 million in 1994, largely consisting of automotive air-conditioners and refrigeration compressors (less than 1-horsepower) for use in major household appliances and air-conditioning equipment. Imports from Mexico increased by 45 percent (\$153 million) to \$490 million in 1994. According to U.S. industry sources, various leading producers of airconditioning equipment in Canada and the United States increased production capacity in Mexico in anticipation of NAFTA implementation. This increase in production capacity resulted in the significant level of these imports from Mexico in 1994. The largest category of this equipment from Mexico consisted of window or wall air-conditioners and

component parts, such as compressors, for use in heat pumps and supermarket display cases.

U.S. exports of air-conditioning equipment and parts increased moderately, from \$3.7 billion in 1993 to \$4.1 billion in 1994. According to industry sources, implementation of the NAFTA in January 1994 led to substantial growth in U.S. exports to Canada and Mexico, which each grew by 16 percent, to \$1.3 billion and \$433 million, respectively. The bulk of the trade is in automotive air-conditioners and compressors conducted between parent corporations based primarily in the United States and subsidiary companies in Northern Mexico and Southern Canada.

Saudi Arabia and Korea were also important markets in 1994. While exports to Saudi Arabia were relatively flat (4 percent growth to \$216 million), exports to Korea rose by 35 percent (\$49 million) to \$189 million. An official Government of Korea campaign to boost energy efficiency in the airconditioning equipment market, in conjunction with rapidly increasing per-capita income, resulted in brisk demand for these products. Principal exports of these products to Korea consisted of household condensing units with stand-alone or cabinet-type compressors, window or wall type air-conditioners, and dehumidifiers.

Other notable increases in U.S. exports of air-conditioning equipment and parts in 1994 were to China and Thailand. U.S. exports to China increased by 61 percent (\$49 million) to \$127 million in 1994. A significant amount of these U.S. exports consisted of refrigeration component parts (for example, compressors) for the institutional markets (hotels and factories) in China. During the same period, U.S. exports to Thailand increased by 43 percent (\$35 million) to \$117 million. Rapid economic growth and significant construction activity in Thailand resulted in a surge in U.S. exports of all types of unitary equipment and of rotary compressors.

Ruben E. Mata (202) 205-3403

Table 9-2 Machinery sector: U.S. trade for selected industry/commodity groups, by specified periods, Jan. 1993-Dec. 1994¹

Industry/commodity group 193 194 Amount Percent wT003 Pumps for liquids:					Change, 1994 from 1993	
VT003 Pumps for liquids: 2,043 2,222 179 8.8 VT004 Trade balance 1,477 1,777 300 20.3 VT004 Ar.conditioning equipment and parts: 3,750 4,121 32 12 Exports 3,055 4,666 361 20.0 33.5 VT005 Certain industral thermal-processing equipment 684 455 -229 -33.5 VT006 Commercial modunaces: 1,532 1,879 347 2,673 VT006 Commercial modunaces 1,870 2,031 161 8.6 VT007 Excorts 1,870 2,031 161 8.6 VT007 Excorts 3,570 3,858 288 8.1 VT007 Excorts 3,570 3,658 288 8.1 VT007 Exports 1,720 3,570 3,858 288 8.1 VT008 Contriduges and itering and purifying equipment 1,723 1,510 217 16.8	USITC code ²	Industry/commodity group	1993	1994	Amount	Percent
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Imports 1,477 1,777 300 20.3 WT004 Air-conditioning equipment and parts: 566 445 121 21.4 Air-conditioning equipment and parts: 3,739 4,121 3821 20.2 MT005 Certain functasi thermal-processing equipment and certain funcases: 3,739 4,121 3821 22.9 MT005 Certain functasi thermal-processing equipment and certain funcases: 734 1,003 209 26.3 MT006 Cernmercial machinery: 1,532 1,879 347 22.7 Imports 734 1,003 209 26.3 18.7 Commercial machinery: 1,870 2.031 161 8.6 Imports 2,277 2,348 71 3.1 Imports 2,277 2,348 71 3.1 Imports 2,277 2,348 71 3.1 Imports 1,233 1,501 -217 16.8 MT008 Cernitiges and Itering and purifying eqquipment 1,233 1,510	MT003					
Trade balance						
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Imports 3,055 3,866 611 20.0 Trade balance 684 465 -229 -33.5 Certain industrial therma-processing equipment and certain furnaces: 1,532 1,873 347 22,7 Exports 1,633 209 26,3 18,75 18,76 20,31 161 8.6 MT006 Commercial machinery: 18,70 2,031 161 8.6 18,22 MT007 Trade balance 964 1,082 118 12.2 MT007 Trade balance 964 1,082 118 12.2 MT007 Trade balance 3,670 3,858 288 8.1 Trade balance 1,293 1,802 174 10.1 Imports 1,728 1,902 174 10.1 Imports 706 1,067 361 51.1 Trade balance 716 742 120 17.9 Trade balance 767 792 120 17.9			3,739	4,121	382	10.2
VT005 Certain industrial thermal-processing equipment and certain linumaces: 1.532 1.879 347 22.7 (Inports) vT006 Commercial machinery: 734 1.003 209 26.3 vT006 Commercial machinery: 1.870 2.031 161 8.6 imports 1.870 2.031 161 8.6 imports 964 1.082 118 12.2 Trade balance 906 944 4.3 4.7 elating equipment: 2.277 2.348 71 3.1 Imports 3.570 3.858 288 8.1 VT008 Cexports 1.728 1.902 174 10.1 Imports 706 1.067 361 51.1 Trade balance 1.022 835 -187 1.83 VT000 Stack balance 1.022 832 -187 1.83 VT010 Stack balance -162 183 21 1.11 Imports 539		Imports		3,666		
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Imports 719 843 124 17.2 Trade balance -47 -51 -4 -8.5 VT010 Scales and weighing machinery: 108 120 12 11.1 Imports 162 183 21 13.0 Trade balance -54 -63 -9 -16.7 WT013 Mineral processing machinery: 539 569 30 5.6 Imports 236 260 24 10.2 11.1 Trade balance 3,724 3,929 205 5.5 Imports 3,724 3,929 205 5.5 Imports 1,255 652 -603 -48.0 VT015 Industrial food-processing and related machinery: Exports 10.2 5.3 Imports 11,439 28 6.8 6.8 7 7.80 32.7 VT016 Pulp, paper, and paperboard machinery: 655 6.44 -11 -1.7 Imports 709 <t< td=""><td>WT009</td><td></td><td>672</td><td>702</td><td>120</td><td>17.0</td></t<>	WT009		672	702	120	17.0
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other special attachments for machine tools: 1,292 1,653 361 27.9 Imports 2,188 2,735 547 25.0 Trade balance -896 -1,082 -186 -20.8	1011020					
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Trade balance		Exports				
•						
See footnates at end of table	o		-896	-1,082	-186	-20.8

See footnotes at end of table.

Table 9-2—Continued

Machinery sector: U.S. trade for selected industry/commodity groups, by specified periods, Jan. 1993- Dec. 1994¹

				Change, 1994 from 1993	
USITC code ²	Industry/commodity group	1993	1994	Amount	Percent
			— Million dollars	s <u> </u>	
/T021	Machine tools for metal forming and parts thereof:				
	Exports	737	778	41	5.6
	Imports	644	913	269	41.8
	Trade balance	93	-135	-228	-245.2
MT022	Non-metalworking machine tools and parts thereof:			-	-
	Exports	665	861	196	29.5
	Imports	681	818	137	20.1
	Trade balance	-16	43	59	368.8
MT023	Semiconductor equipment, robots, and other machinery:				
	Exports	7,574	9,292	1,718	22.7
	Imports	6,131	8,121	1,990	32.5
	Trade balance	1,443	1,171	-272	-18.9
MT024	Taps, cocks, valves, and similar devices:				
	Exports	1,665	1,909	244	14.7
	Imports	2,175	2,600	425	19.5
	Trade balance	-510	-691	-181	-35.5
MT026	Gear boxes and other speed changers; torque				
	converters; ball screws; flywheels and				
	pulleys; clutches and shaft couplings;				
	universal joints; and parts thereof:				
	Exports	652	764	112	17.2
	Imports	1,102	1,412	310	28.1
47007	Trade balance	-450	-648	-198	-44.0
MT027	Boilers, turbines, and related machinery:	4 4 9 4	4 004	07	0.0
	Exports	1,134	1,231	97	8.6
	Imports	306	348	42	13.7
MT028	Trade balance	828	883	55	6.6
VI1026	Electric motors, generators, and related equipment:	2.925	2.955	30	1.0
	Exports	2,925	2,955	483	16.2
	Trade balance	-49	-502	-453	-924.5
MT029	Electrical transformers, static converters, and inductors:	-45	-302	-400	-324.5
1025	Exports	1,421	1,750	329	23.2
	Imports	2,467	2.713	246	10.0
	Trade balance	-1,046	-963	83	7.9
MT031	Portable electric handtools:	1,040	000	00	7.0
	Exports	323	357	34	10.5
	Imports	370	423	53	14.3
	Trade balance	-47	-66	-19	-40.4
MT032	Nonelectrically powered hand tools and parts thereof:			-	-
	Exports	378	474	96	25.4
	Imports	550	619	69	12.5
	Trade balance	-172	-145	27	15.7
MT034	Flashlights and other similar electric lights, light bulbs				
	and fluorescent tubes; arc lamps:				
	Exports	712	811	99	13.9
	Imports	965	1,030	65	6.7
	Trade balance	-253	-219	34	13.4
/T035	Electric and gas welding and soldering equipment:				
	Exports	405	460	55	13.6
	Imports	502	486	-16	-3.2
	Trade balance	-97	-26	71	73.2
MT036	Insulated electrical wire and cable, and conduit; glass				
	_ and ceramic insulators:				
	Exports	2,991	3,289	298	10.0
	Imports	3,564	4,810	1,246	35.0
	Trade balance	-573	-1,521	-948	-165.4

¹ Import values are based on Customs value; export values are based on f.a.s. value, U.S. port of export. ² This coding system is used by the U.S. International Trade Commission to identify major groupings of HTS import and export items for trade monitoring purposes.

CHAPTER 10 Transportation Equipment

The U.S. trade deficit in transportation equipment widened significantly in 1994 to \$24.2 billion, compared with a deficit of \$14.2 billion in 1993 (table 10-1). Despite solid export growth of 6 percent—fueled in part by improving economic conditions in Canada and Western Europe—the sectoral deficit worsened as a result of a \$15.8 billion increase in imports over 1993. This represented an annual import growth rate of 14 percent. A large increase in the U.S. motor-vehicle trade deficit and a decline in the U.S. aircraft surplus were the primary factors leading to the sharp decline in the overall transportation equipment trade position.

The rise in 1994 transportation equipment imports can be attributed almost entirely to a surge in U.S. import demand for motor vehicles. Total imports of automobiles, trucks, buses, as well as bodies and chassis of these vehicles, grew by \$10.6 billion in 1994 to \$79.2 billion. Motor-vehicle imports alone accounted for 62 percent of all U.S. transportation equipment imports in 1994. Strong growth in sales of motor vehicles and motor-vehicle parts in the U.S. market helped fuel large increases in imports, especially from Japan and Canada. Although substantial export growth occurred during 1994 for both motor vehicles (15-percent increase) and motor-vehicle parts (12-percent increase), these gains were not large enough to offset the sizable increase in motor-vehicle imports.

The size of the sectoral deficit was magnified by a substantial decline in sales of U.S. large civil aircraft (LCA) in key foreign markets. Continuing cutbacks in purchases of aircraft by world airlines, coupled with an ongoing contraction of military spending, pushed U.S. exports of aircraft, spacecraft, and parts down to \$28.6 billion, a 7-percent decline from the corresponding 1993 figure. U.S. sales of aircraft to China and Taiwan were particularly hard-hit in 1994, declining by 18 and 20 percent, respectively.

Significant import growth was also apparent in 1994 for construction and mining equipment. Strong U.S. demand for excavating equipment from Japan and Belgium helped reduce the U.S. construction and mining equipment trade surplus from \$4.4 billion in 1993 to \$3.5 billion in 1994. Similarly, U.S. imports of internal combustion engines grew by 17 percent in 1994, driving the motor-vehicle engine trade surplus down to \$864 million. This import increase reflected the impact of a sharp upturn in U.S.-based automobile and truck production by U.S. and Japanese automakers. On the positive side of the sectoral trade balance picture, however, the U.S. surplus in miscellaneous vehicles (including tanks and other armored vehicles) grew by \$724 million in 1994 to \$1.7 billion, largely as a result of a sizable increase in U.S. tank exports to Saudi Arabia.

U.S. Bilateral Trade

The largest U.S. trading partners in the transportation equipment sector during 1994 were Canada, Japan, Mexico, Germany, and the United Kingdom. Canada remained the largest single export market for U.S. transportation equipment, accounting for 32 percent of 1994 U.S. exports in the sector (figures 10-1 and 10-2). Canada also emerged as the leading U.S. transportation equipment import supplier in 1994, surpassing Japan. Together, Canada and Japan accounted for \$87.7 billion in U.S. transportation equipment imports in 1994—68 percent of total sectoral imports. The principal traded goods in this sector are motor vehicles, motor-vehicle parts, and aircraft, which together represented 74 percent of combined U.S. imports and exports during 1994.

The \$13.4 billion increase in U.S. imports of automobiles, trucks, and buses from Japan represented the single largest 1994 bilateral shift in the sector. Although U.S. exports of motor vehicles increased to \$21.4 billion in 1994, large increases in imports from Japan and Canada easily offset this positive change. Moreover, a decline in orders for U.S. aircraft from China, Taiwan, and Malaysia pushed U.S. aircraft exports down by \$2.1 billion in 1994, lowering the aircraft trade surplus to \$22.1 billion. Table 10-1

Transportation equipment: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1993 and 1994¹

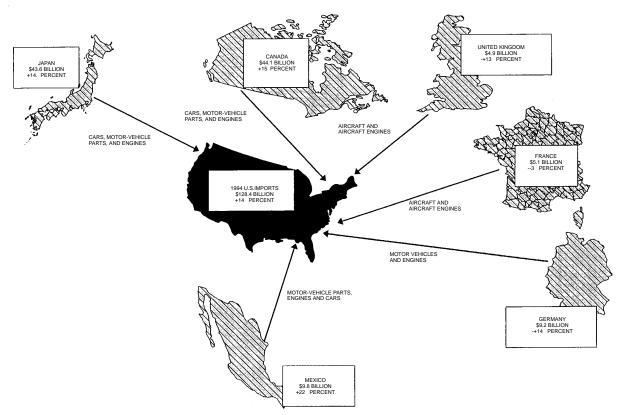
			Change, 19	94 from 1993
Item	1993	1994	Amount	Percent
		– Million dollars		
U.S. exports of domestic merchandise: Canada Japan Mexico Germany United Kingdom France Korea Taiwan Netherlands China All other	28,884 5,704 7,005 3,550 4,714 3,703 2,196 3,557 1,689 3,337 34,166	33,452 7,345 8,169 3,286 5,183 3,237 2,675 2,980 2,276 2,558 33,088	4,568 1,640 1,164 -264 469 -466 479 -577 587 -779 -1,078	15.8 28.8 16.6 -7.4 10.0 -12.6 21.8 -16.2 34.8 -23.4 -3.2
Total EU-12 OPEC Latin America CBERA Asian Pacific Rim ASEAN Eastern Europe	98,505 17,291 7,012 13,144 1,214 23,740 6,238 548	104,249 18,285 6,039 14,814 1,352 23,981 5,324 347	5,745 994 -973 1,669 138 241 -914 -201	5.8 5.7 -13.9 12.7 11.4 1.0 -14.7 -36.7
U.S. imports for consumption: Canada Japan Mexico Germany United Kingdom France Korea Taiwan Netherlands China All other	38,297 38,361 8,047 8,069 4,296 5,291 1,298 681 830 282 7,213	44,081 43,581 9,837 9,221 4,867 5,128 2,063 779 671 358 7,858	5,783 5,221 1,790 1,153 571 -162 765 98 -159 76 646	15.1 13.6 22.2 14.3 13.3 -3.1 59.0 14.4 -19.2 27.1 9.0
Total EU-12 OPEC Latin America CBERA Asian Pacific Rim ASEAN Eastern Europe	112,664 21,318 111 9,071 14 41,399 439 127	128,444 22,826 164 10,960 19 47,653 532 168	15,781 1,508 53 1,890 5 6,254 93 41	14.0 7.1 48.1 20.8 35.3 15.1 21.2 32.4
U.S. merchandise trade balance: Canada Japan Mexico Germany United Kingdom France Korea Taiwan Netherlands China All other	-9,413 -32,656 -1,042 -4,519 417 -1,588 898 2,876 859 3,056 26,953	-10,629 -36,237 -1,667 -5,935 316 -1,891 612 2,201 1,605 2,200 25,230	-1,215 -3,580 -626 -1,416 -102 -303 -286 -675 746 -856 -1,723	(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)
Total EU-12 OPEC Latin America CBERA Asian Pacific Rim ASEAN Eastern Europe	-14,159 -4,027 6,902 4,074 1,199 -17,659 5,800 421	-24,195 -4,541 5,875 3,853 1,333 -23,672 4,792 179	-10,036 -514 -1,027 -220 133 -6,013 -1,008 -242	(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)

 $^{\rm 1}$ Import values are based on Customs value; export values are based on f.a.s. value, U.S. port of export. $^{\rm 2}$ Not meaningful for purposes of comparison.

Note.—Because of rounding, figures may not add to the totals shown. The countries shown are those with the largest total U.S. trade (U.S. imports plus exports) in these products in 1994.

Figure 10-1

U.S. transportation equipment sector imports, 1994: Leading U.S. imports, by major sources, and overall percentage change since 1993



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

Commodity Analysis

Automobiles, trucks, buses, and bodies and chassis

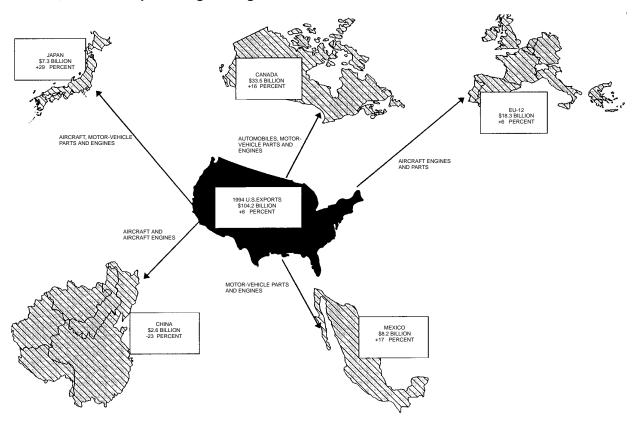
The U.S. trade deficit in automobiles, trucks, buses, and bodies and chassis increased by \$7.8 billion to \$57.9 billion in 1994. The U.S. deficit with Japan and Canada accounted for 51 percent (\$29.3 billion) and 33 percent (\$19.3 billion), respectively, of the total U.S. trade deficit for the sector. The deficits with Japan and Canada increased by \$2.6 billion and \$2.3 billion, respectively, despite increased U.S. exports to both countries.

U.S. imports of automobiles, trucks, buses, and bodies and chassis totaled \$79.2 billion in 1994, representing an increase of \$10.6 billion (16 percent) from 1993. Imports from Japan and Canada each accounted for 39 percent (\$31.2 billion and \$30.7 billion, respectively) of total U.S. imports. Japan and Canada accounted for about 41 percent and 33 percent, respectively, of the rise in U.S. imports. These increases were attributable to the continuing recovery of the U.S. automobile market in 1994. While the value of U.S. imports from Japan increased, the number of vehicles imported did not, in part reflecting price increases that followed the appreciation in the value of the yen during 1994. Japanese producers did not increase the prices of their U.S.-marketed vehicles proportionately to increases in the value of the yen.¹

U.S. exports increased by \$2.8 billion (15 percent) in 1994, to \$21.4 billion. The largest rise (\$2.1 billion) was to Canada, which received 53 percent, or \$11.4 billion of the 1994 total. U.S.-owned General Motors, Ford, and Chrysler increased their share of the Canadian market, primarily at the expense of Japanese-owned automakers. U.S.-owned

¹ John K. Teahen, Jr., "Japanese Prices Far Behind Yen Rise," *Automotive News*, May 15, 1995, p. 1.

Figure 10-2 U.S. transportation equipment sector exports, 1994: Leading U.S. exports, by major markets, and overall percentage change since 1993



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

automakers used their diverse product line of lightduty trucks to take advantage of strong growth in that segment of the Canadian market. U.S. firms have also increased their competitiveness vis-a-vis Japanese automakers, all of which have raised the prices of vehicles they sell in North America following the appreciation in the value of the yen.

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Certain motor-vehicle parts²

The U.S. trade surplus in motor-vehicle parts grew by nearly \$778 million to \$4.6 billion in 1994. This improvement in the U.S. trade position was largely attributable to the increasing international competitiveness of U.S. parts makers, and the dominance of U.S. parts makers in leading edge technological developments, such as safety and environmental systems. Moreover, the production rationalization strategies of the U.S. Big Three automakers within North America contributed to increased trade with Canada and Mexico.

Imports of certain motor-vehicle parts in 1994 rose by \$1.4 billion to \$16.0 billion, a 10-percent increase over 1993. U.S. imports from Canada, the leading foreign source for auto parts, rose by 8 percent to \$6.4 billion in 1994. Imports of auto parts from Japan, the second-leading source of these products, increased by 11 percent, to \$4.2 billion in 1994. This latter increase was principally attributable to increased U.S. production of automobiles by the Japanese transplants, which rose by over 10 percent in 1994 to over 2 million vehicles. Imports from the third-leading foreign source of auto parts, Mexico, increased by 3 percent to \$2.1 billion in 1994.

² Products contained in this group include body stampings, bumpers, brakes and parts, gear boxes, axles, wheels, shock absorbers, radiators, exhaust systems, clutches, steering wheels, and miscellaneous parts and accessories. Total production of these parts accounted for approximately 70 percent of the value of all motor-vehicle parts and accessories produced worldwide in 1994.

U.S. exports of certain motor-vehicle parts rose by \$2.2 billion to \$20.7 billion in 1994, representing a 12-percent increase. U.S. exports to Canada, the leading export market, rose by 14 percent to \$11.8 billion in 1994, responding to a slight increase in car and truck production in that market. U.S. exports to Mexico, the second-leading export market, rose by 9 percent to \$4.4 billion in 1994, responding to a 10-percent increase in Mexican car and truck production. Japan reestablished itself as the third-leading export market, with U.S. exports rising by 15 percent to \$640 million in 1994. This increase likely was attributable to efforts by Japanese automakers to increase the use of foreign parts in their domestic auto production, and to the significant appreciation of the yen in 1994, which made U.S. auto parts comparatively less expensive.

Among the top 10 U.S. export markets for certain motor-vehicle parts, significant percentage increases in 1994 exports were recorded for Belgium (44 percent) and Australia (55 percent). Australia's new vehicle market grew in 1994, prompting Ford to expand production there. Industry sources report that this recovery followed 4 years of low vehicle sales. Moreover, in 1993, Australia reduced localcontent requirements and tariffs on imported auto parts, thereby making the market more accessible to U.S. auto parts producers. Industry sources report that Belgian car and truck production increased by approximately 15 percent in 1994. Increased vehicle production and U.S. auto parts exports are likely attributable to Ford, which has begun producing what it calls its World Car, the Mondeo, in Belgium.

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Aircraft, spacecraft, and parts

The U.S. trade surplus in aircraft, spacecraft, and parts declined by \$2.3 billion (9 percent) in 1994, to \$22.1 billion. This slide was the result of the continued contraction in the global market for large civil aircraft (LCA), and the worldwide trend toward downsizing military forces. The primary market for LCA consists of the world airlines. During 1994, these airlines were recovering from unprecedented financial losses incurred during the early 1990s; therefore, many orders and deliveries of LCA were either deferred or canceled. Deliveries of military aircraft were similarly affected, largely due to slow economic growth in important markets and defense restructuring.

U.S. exports of aircraft, spacecraft, and parts declined by \$2.1 billion (7 percent), to \$28.6 billion in 1994. The most significant decreases in U.S. exports were to Taiwan (\$428 million), China (\$389 million), and India (\$376 million). These declines were primarily the result of decreased U.S. shipments of LCA.

The leading foreign markets for U.S. aircraft, spacecraft, and related parts exports in 1994 were Japan, the United Kingdom, and China. Japan received \$3.3 billion in exports in 1994, a 19-percent increase from 1993; the United Kingdom received \$2.8 billion, up by 7 percent over 1993; and China received \$1.8 billion in U.S. exports, an 18-percent decrease from 1993. LCA accounted for 62 percent of U.S. exports to Japan and the United Kingdom, whereas exports of LCA to China amounted to more than 90 percent of all aircraft exports. U.S. exports to Japan and the United Kingdom were largely designed to meet projected demand, whereas U.S. exports to China were largely required to meet immediate demand for air-transportation service.

Imports of aircraft, spacecraft, and parts rose by \$176 million, (3 percent) during 1994, to \$6.4 bil-France, Canada, and the United Kingdom lion. were the leading sources of these imports, accounting for 69 percent of total U.S. imports. Imports from France, the leading source of these products, declined by \$120 million to \$1.9 billion (down 6 percent) during 1994. LCA, such as French-assembled Airbus aircraft, represented 41 percent (\$788 million) of these imports from France, compared with 63 percent in 1993. Typically, orders for LCA are made 2 years in advance of their deliveries. The decline in 1994 foreign deliveries to U.S. airlines may be explained by the lack of profitability of U.S. airlines in 1992.

Imports from Canada rose by 27 percent to \$1.6 billion during 1994. Imports from Canada largely consisted of completed turbofan aircraft weighing under 33,000 pounds and parts for aircraft. Such aircraft are typically used in both commuter and business applications, whereas the parts are used in many types of aircraft. The rise in imports reflected the recovering U.S. market for these products. Imports of parts for aircraft from the United Kingdom amounted to \$454 million in 1994 and represented more than one-half of total U.S. imports from that country.

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Construction and mining equipment

The U.S. trade surplus in construction and mining equipment declined by \$866 million to \$3.5 billion in 1994, due largely to the increased value of imports from most of the major supplying countries, particularly Japan and Belgium. This continued the decline in the trade surplus in this equipment from its peak of \$5.3 billion in 1991.

U.S. imports of construction and mining equipment rose by 51 percent (\$1.2 billion) to \$3.5 billion in 1994. U.S. imports from Japan, the leading foreign source of these products, grew by 30 percent to \$1.1 billion in 1994. Imports of excavators, which accounted for about one-half of Japanese shipments, rose by 27 percent in response to strong U.S. demand and limited U.S. production. Imports from both Belgium and Brazil tripled to \$358 million and \$102 million, respectively. U.S.-owned Caterpillar is believed to have sourced equipment (for example, excavators) from its Belgian and Brazilian factories during the ongoing United Auto Workers labor strike that began in June 1994 at its U.S. The increase in the value of U.S. operations.³ equipment imports was also partially attributable to the depreciation of the U.S. dollar relative to major supplying countries' currencies, which increased the unit price of imported equipment and inflated the value of imports.

U.S. exports of construction and mining equipment rose by 5 percent (\$296 million) to \$6.9 billion in 1994. U.S. exports to Canada and Mexico, two of the leading U.S. markets in 1994, increased by 32 percent (to \$983 million) and 37 percent (to \$488 million), respectively. Industry sources indicate that the North American Free-Trade Agreement (NAF-TA) was instrumental in the growth of U.S. exports U.S. exports to Venezuela, to these countries. which rose by 34 percent to \$510 million, primarily consisted of drilling equipment for oil wells and gas fields. Demand for these products was stimulated by the relaxation of foreign investment restrictions in the Venezuelan hydrocarbon sector in 1993 and the related increase in offshore exploration.

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Internal combustion piston engines, other than for aircraft

The U.S. trade surplus in internal combustion piston engines (for motor vehicles) decreased by \$246 million in 1994, to \$846 million. Although U.S. exports of engines increased in 1994, imports increased by a slightly larger margin. The demand for engines in the United States grew in 1994, particularly in the diesel truck market. Production of U.S. cars grew by 10 percent in 1994, while U.S. truck production increased by 17 percent.

U.S. imports of engines rose by \$1.1 billion (17 percent), to \$7.4 billion in 1994. Imports from the leading source, Japan, increased by 19 percent, to \$2.6 billion in 1994. This increase was primarily attributable to an increase in vehicle production by Japanese-owned automobile assembly plants in the United States. Imports from the second-leading source, Canada, increased by just 4 percent, to \$1.9 billion in 1994. However, a significant increase in imports came from the third-leading supplier, Mexi-U.S. imports of Mexican engines increased co. from \$526 million in 1993 to \$879 million in 1994, or by 67 percent. This sharp increase was attributable to expanded engine capacity in Mexico by U.S. and other foreign manufacturers that supply their U.S. vehicle assembly plants with engines from Mexico.

U.S. exports of engines rose by \$0.8 billion (11 percent), to \$8.3 billion in 1994. Exports to the leading market, Canada, increased by 10 percent, to \$4.4 billion in 1994. Exports to the second-leading market, Mexico, increased by 22 percent to reach \$1.1 billion in 1994. The latter increase was attributable to an 11-percent increase in car production, and a 6-percent increase in truck production in Mexico in 1994. Exports to the third-leading market, Australia, increased by 12 percent, to \$336 million in 1994. The Australian motor-vehicle market improved dramatically in 1994, spurring increased vehicle production.

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*Miscellaneous vehicles and transportation equipment*⁴

The U.S. trade surplus in miscellaneous vehicles and transportation equipment increased by \$724 million to \$1.7 billion in 1994, due largely to the increased value of U.S. exports to Saudi Arabia. This reversed the decline in the trade surplus, which had fallen to \$976 million in 1993 from \$1.5 billion in 1992.

The level of U.S. imports of miscellaneous transportation equipment remained relatively unchanged, totaling \$1.5 billion in 1994. U.S. imports from Canada, the leading import source of these products, declined by 15 percent to \$689 million in

³ "UAW Officer Casstevens Wants to Delay Retirement; UAW Says No," NewsEDGE/LAN, May 5, 1995, and *Machinery Outlook*, "1st half U.S. machinery trade figures yield interesting trends," Sept. 1994, p. 15.

⁴ Included in this sector are—snowmobiles, golf carts, and all-terrain vehicles; tanks and other armored fighting vehicles; special purpose motor vehicles (for example, fire trucks, concrete mixers, wreckers); wheelchairs; truck trailers; and parts thereof.

1994. This decline was principally attributable to a 29-percent drop in imports of all-terrain vehicles.

U.S. exports of miscellaneous transportation equipment rose by 29 percent (\$715 million) to \$3.2 billion in 1994. This growth was driven by a 246-percent increase in U.S. exports to Saudi Arabia, which totaled \$845 million in 1994. About 86 percent of this total was accounted for by tanks and other armored fighting vehicles (with tracked running gear), exports of which increased by sevenfold, to \$730 million in 1994.

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Table 10-2 Transportation equipment sector: U.S. trade for selected industry/commodity groups, by specified periods, Jan. 1993-Dec. 1994¹

				Change, 1994 from 1993	
USITC code ²	Industry/commodity group	1993	1994	Amount	Percent
			 Million dollars 		
MT001	Aircraft engines and gas turbines:	0.000	0.407	004	0.4
	Exports	8,266	8,467	201	2.4
	Imports	5,735	5,825	90	1.6
MT002	Trade balance Internal combustion piston engines, other than for aircraft	2,531	2,642	111	4.4
1011002	Exports	7,450	8.288	838	11.2
	Imports	6,340	7,424	1,084	17.1
	Trade balance	1,110	864	-246	-22.2
MT011	Forklift trucks and similar industrial vehicles:				
	Exports	566	691	125	22.1
	Imports	721	955	234	32.5
MT010	Trade balance	-155	-264	-109	-70.3
MT012	Construction and mining equipment:	6,651	6,947	296	4.5
	Exports	2,299	3,462	1,163	50.6
	Trade balance	4,352	3,485	-867	-19.9
MT025	Ball and roller bearings:	1,002	0,100	001	10.0
	Exports	719	801	82	11.4
	Imports	1,114	1,302	188	16.9
	Trade balance	-395	-501	-106	-26.8
MT030	Primary cells and batteries and electric storage batteries:				
	Exports	957	1,125	168	17.6
	Imports	1,079 -122	1,441 -316	362 -194	33.6 -159.0
MT033	Ignition, starting, lighting, and other electrical equipment:	-122	-310	-194	-159.0
101000	Exports	1,432	1,409	-23	-1.6
	Imports	1,495	1,699	204	13.6
	Trade balance	-63	-290	-227	-360.3
MT037	Rail locomotive and rolling stock:				
	Exports	574	750	176	30.7
	Imports	729	1,161	432	59.3
MTOOO	Trade balance	-155	-411	-256	-165.2
MT038	Automobiles, trucks, buses, and bodies and chassis				
	of the foregoing: Exports	18,555	21,365	2,810	15.1
	Imports	68,607		10,633	15.5
	Trade balance	-50,052	-57,875	-7,823	-15.6
MT039	Certain motor-vehicle parts:		- ,	7	
	Exports	18,469	20,685	2,216	12.0
	Imports	14,646	16,085	1,439	9.8
	Trade balance	3,823	4,600	777	20.3
MT040	Motorcycles, mopeds, and parts:	FOC	E 1 1	F	1.0
	Exports	506 877	511 937	5 60	1.0 6.8
	Imports Trade balance	-371	-426	-55	-14.8
MT041	Miscellaneous vehicles and transportation-related	-571	-420	-55	-14.0
	equipment:				
	Exports	2,441	3,156	715	29.3
	Imports	1,465	1,456	-9	-0.6
	Trade balance	976	1,700	724	74.2
MT042	Aircraft, spacecraft, and related equipment:				
	Exports	30,673	28,576	-2,097	-6.8
	Imports	6,255	6,431	176	2.8
MT043	Trade balance	24,418	22,145	-2,273	-9.3
WI 040	Exports	1,002	1,203	201	20.1
	Imports	1,002	653	-366	-35.9
	Trade balance	-17	550	567	3,335.3
MT044	Motors and engines, except internal combustion,	••	200		2,200.0
	aircraft, or electric:				
	Exports	244	275	31	12.7
	Imports	283	374	91	32.2
	Trade balance	-39	-99	-60	-153.8

¹ Import values are based on Customs value; export values are based on f.a.s. value, U.S. port of export. ² This coding system is used by the U.S. International Trade Commission to identify major groupings of HTS import and export items for trade monitoring purposes.

CHAPTER 11 Electronic Products

The U.S. trade deficit in electronic products widened significantly in 1994 to \$36.5 billion, compared with a deficit of \$26.6 billion in 1993 (table 11-1). Despite a strong 16-percent increase in sector exports—due in large part to rapid growth in demand for electronic products in Japan, Canada, and Mexico—the sector deficit worsened as a result of a \$25.0-billion increase in U.S. electronics imports. This represented a 21-percent increase over the corresponding 1993 import figure. Sharp increases in the U.S. trade deficits for both computers and semiconductors were the principal factors contributing to the dramatic decline in the overall U.S. electronics trade position during 1994.

The large increase in U.S. electronics imports during 1994 can be attributed to the rapid growth in U.S. consumer spending on computers and the related surge in demand for semiconductor components that are used extensively by U.S.-based manufacturers of computers and communications equipment. U.S. imports of computers, computer peripherals, and parts grew by \$8.3 billion in 1994 to \$46.2 billion, while imports of diodes, transistors, integrated circuits, and other semiconductor devices increased by \$6.6 billion to \$26.0 billion. Together, these two categories of products accounted for 50 percent of 1994 U.S. electronics imports, and the combined import increase for computers and semiconductors represented 59 percent of the total 1994 import increase for the sector. Significant increases in imports were also apparent during 1994 for radio transmission and receiving equipment (\$1.3 billion increase) and measuring, testing, controlling, and analyzing instruments (\$1.2 billion increase). Import growth for both of these categories reflected the continuing impact of strong growth in the U.S. economy.

Though improvements in export performance were insufficient to offset the effects of import growth, large increases in export revenues occurred during 1994 for both telephone and telegraph equipment (29-percent growth), and computers (15-percent growth). For both of these industries, strong consumer demand in East Asia and Canada, as well as the continuing weakness of the U.S. dollar, helped boost export revenues dramatically. In the case of medical goods and recorded media (including compact discs, tapes, and computer software), large increases in U.S. exports during 1994 reflected the impact of sustained consumer interest in U.S. technology, particularly in Western Europe and Japan. In contrast to most other electronics industries, substantial improvements in the industry trade balance position were apparent in 1994 for both medical equipment (\$613 million trade surplus increase) and recorded media products (\$322 million trade surplus increase).

U.S. Bilateral Trade

Ranked in terms of total import and export value, the largest U.S. trading partners in electronics products during 1994 were Japan, Canada, Mexico, Singapore, and Taiwan. Japan remained the largest electronics import supplier in 1994, accounting for 31 percent (\$45.1 billion) of all U.S. imports in the sector. Canada remained the largest U.S. electronics export market in 1994, purchasing \$15.8 billion in U.S. electronics goods (14 percent of total U.S. sectoral exports). The most widely traded electronics products in 1994—in terms of combined import and export value—were computers and computer parts, semiconductors, telecommunications equipment, radio transmission and receiving equipment, and precision instruments.

Substantial increases in U.S. imports of semiconductors from Japan (\$1.9 billion increase) and Korea (\$1.4 billion increase), as well as the \$2.0 billion increase in computer imports from Japan, represented the largest changes in bilateral trade patterns during 1994 (figure 11-1). Meanwhile, U.S. exports of semiconductors to Malaysia grew by \$849 million in 1994 (42 percent). Another sizable bilateral trade improvement was evident in telephone and telegraph equipment, where U.S. exports to Korea rose by 132 percent in 1994 to \$664 million (figure 11-2).

Bilateral deficits with Mexico, Singapore, and Taiwan also increased in 1994, to \$1.6 billion, \$7.5 billion, and \$7.1 billion, respectively. Sustained Table 11-1

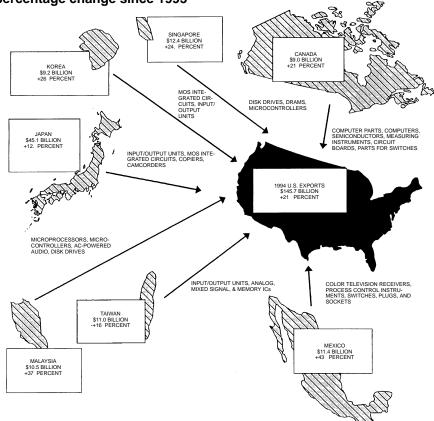
Electronic products: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1993 and 1994¹

			Change, 1994 from 1993	
Item	1993	1994	Amount	Percent
		- Million dollars		
U.S. exports of domestic merchandise: Japan Canada Mexico Singapore Taiwan Malaysia Korea United Kingdom Germany China All other	9,512 13,784 7,761 4,609 3,556 2,648 3,220 6,967 6,278 1,406 34,315	11,320 15,780 9,852 4,954 3,956 3,738 4,479 8,192 6,291 1,410 39,205	1,808 1,997 2,091 346 400 1,089 1,259 1,225 1,225 12 4 4,890	19.0 14.5 26.9 7.5 11.2 41.1 39.1 17.6 0.2 0.3 14.2
Total EU-12 OPEC Latin America CBERA Asian Pacific Rim ASEAN Eastern Europe	94,056 25,922 2,246 13,628 1,030 31,303 9,893 354	109,177 28,242 2,046 17,207 1,191 37,716 12,296 344	15,120 2,320 -199 3,579 162 6,413 2,403 -10	16.1 8.9 -8.9 26.3 15.7 20.5 24.3 -3.0
U.S. imports for consumption: Japan Canada Mexico Singapore Taiwan Malaysia Korea United Kingdom Germany China All other	40,414 7,470 7,991 10,010 9,502 7,671 7,265 3,553 4,081 4,731 17,993	45,085 9,021 11,436 12,441 10,972 10,493 9,173 4,089 4,522 7,272 21,152	4,671 1,551 3,444 2,431 1,471 2,822 1,908 536 441 2,541 3,159	11.6 20.8 43.1 24.3 15.5 36.8 26.3 15.1 10.8 53.7 17.6
Total EU-12 OPEC Latin America CBERA Asian Pacific Rim ASEAN Eastern Europe	120,682 13,208 586 8,880 468 84,947 22,983 38	145,656 14,908 934 12,461 542 101,552 30,050 52	24,974 1,700 348 3,581 74 16,605 7,067 14	20.7 12.9 59.4 40.3 15.8 19.5 30.7 37.8
U.S. merchandise trade balance: Japan Canada Mexico Singapore Taiwan Malaysia Korea United Kingdom Germany China All other	-30,902 6,313 -230 -5,402 -5,946 -5,023 -4,045 3,414 2,197 -3,325 16,322	-33,765 6,760 -1,584 -7,486 -7,016 -6,755 -4,694 4,103 1,768 -5,862 18,053	-2,863 446 -1,354 -2,085 -1,071 -1,732 -649 689 -429 -2,537 1,731	(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)
Total EU-12 OPEC Latin America CBERA Asian Pacific Rim ASEAN Eastern Europe	-26,626 12,714 1,660 4,747 562 -53,644 -13,090 316	-36,480 13,334 1,112 4,746 650 -63,836 -17,753 292	-9,853 620 -547 -1 88 -10,191 -4,663 -25	(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)

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

Note.—Because of rounding, figures may not add to the totals shown. The countries shown are those with the largest total U.S. trade (U.S. imports plus exports) in these products in 1994.

Figure 11-1 U.S. electronic products sector imports, 1994: Leading U.S. imports, by major sources, and overall percentage change since 1993



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

demand from U.S. consumers for low-priced computers, peripherals, and semiconductors contributed most to the changes in bilateral trade patterns with all three of these countries. U.S. electronics imports from Mexico grew by 43 percent, to \$11.4 billion, largely as a result of rapid growth in imports of computers (\$550 million increase). In the case of Singapore, U.S. imports grew by 24 percent, to \$12.4 billion. A \$1.7 billion (24 percent) increase in U.S. imports of computers and peripherals was the primary factor behind the change in the U.S.-Singapore trade balance. Finally, U.S. electronics imports from Taiwan grew by \$1.5 billion in 1994, reflecting the impact of strong U.S. demand for Taiwan computers and parts (\$716 million increase), and semiconductors (\$558 million increase).

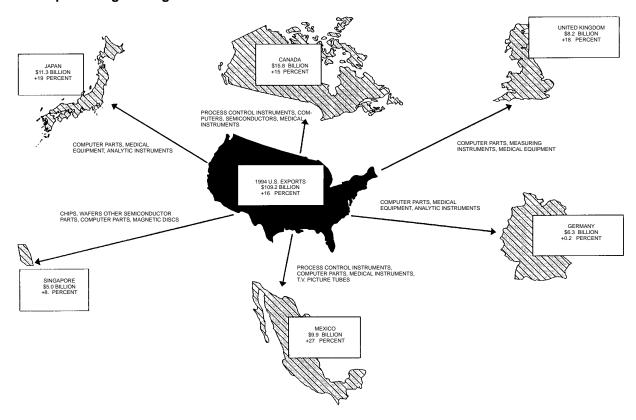
Commodity Analysis Automatic data processing machines

The U.S. trade deficit in automatic data processing machines (i.e., computers, peripherals, and computer parts) grew again in 1994 to \$17.1 billion, up

sharply from the \$12.5 billion deficit in 1993. The continuing deterioration of the U.S. computer trade balance reflects the impact of a sharp increase in imports, which rose from \$37.9 billion in 1993 to \$46.2 billion in 1994-a 22-percent increase. Imports from China, Malaysia, and Mexico grew fastest in 1994, with the value of computer imports from each of these countries rising by more than 50 percent between 1993 and 1994. Japan retained its position as the leading supplier of U.S. computer imports, while Singapore strengthened its position as the second-leading import supplier, largely as a result of rapid growth in U.S. imports of disk storage products. These disk drives are used extensively by computer manufacturers in the United States.

Declining computer and peripheral prices, which typically result from the steady improvements in the processing power of microelectronic components, continued to drive rapid growth in U.S. import demand throughout 1994. U.S. consumer interest in networked personal computers and printers accelerated in 1994, forcing many U.S. manufacturers of finished computer systems to boost imports of key computer inputs, such as printed circuit boards upon which microelectronic devices are mounted, display units, and hard disk drives.

Figure 11-2 U.S. electronic products sector exports, 1994: Leading U.S. exports, by major markets, and overall percentage change since 1993



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

U.S. imports of flat-panel displays-advanced technology screens designed for use in notebook computers-increased by \$1.2 billion in 1994 to \$1.8 billion. Production capacity shortages in Japan, the preeminent world supplier of flat-panel displays, kept prices for these screens quite high in comparison with more widely used cathode-ray tube monitors. However, superior imaging features in the new screens helped fuel demand from qualityconscious U.S. consumers. U.S.-based manufacturers of notebook computers-including Apple Computer, Inc. and Dell Computer Corp.-purchased large numbers of advanced displays from Japanese suppliers, such as Sharp Electronics Corp. Magnetic disk storage device imports also grew substantially in 1994, mirroring the growth in U.S. demand for finished computers. Singapore, Japan, Malaysia, and Thailand accounted for virtually all U.S. imports of data storage devices in 1994.

The size of the increase in the 1994 computer trade deficit was reduced somewhat by a significant increase in U.S. information technology exports. Overall, U.S. exports of computers, peripherals, and

parts grew by \$3.7 billion (15 percent) in 1994 to \$29.1 billion. Particularly strong growth was apparent in U.S. exports to Ireland, France, Singapore, and Mexico. U.S. exports to each of those four countries grew by more than 20 percent during 1994. Strong growth in foreign demand for pricecompetitive computer workstations, servers, and printed circuit boards mounting microelectronic components, coupled with the continuing weakness of the U.S. dollar versus the yen and major European currencies, helped explain the large increase in 1994 exports. Moreover, exports grew in response to the ongoing expansion in intracompany shipments of such items as computer subassemblies and peripherals. This factor explains much of the growth in U.S. sales to such countries as Ireland, Singapore, and Mexico, where U.S.-owned manufacturers such as Compaq Computer Corp. and International Business Machines Corp. have established large computer assembly facilities.

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Diodes, transistors, integrated circuits, and similar semiconductor solid-state devices

The value of both U.S. imports and exports of semiconductors grew by over 30 percent in 1994, largely as a result of price increases.¹ During 1994, semiconductor import and export prices were on average 21 percent and 26 percent higher, respectively, than in 1993. Worldwide prices of semiconductors rose during 1994 because most semiconductor producers did not anticipate that demand for their products would grow so rapidly.² As a result, production capacity was insufficient to meet demand, leading customers to bid up semiconductor prices.³

Semiconductor prices also rose during 1994 because Japanese producers, which accounted for 29 percent of U.S. imports, raised many of their export prices in response to the yen appreciation. Price increases did not reduce the market shares of Japanese producers because they typically lead changes in the price of the types of semiconductors that they export. Most notably, these producers generally lead changes in the price of dynamic random access memories (DRAMs). These devices accounted for about 26 percent of U.S. semiconductor imports and 5 percent of U.S. semiconductor exports in 1994.⁴

U.S. semiconductor import and export growth in 1994 was also driven by an expansion in world demand for personal computers (PCs), telecommunications apparatus, and other electronic equipment that incorporates semiconductors. In 1994, sales of this equipment grew by 13 percent in the United States and at a somewhat lower rate in other areas of the world.⁵

U.S. exports of semiconductors grew by \$4.3 billion (31 percent) in 1994 to \$18.1 billion. Unassembled, chips, dice, wafers, and other semiconductor parts accounted for about half of this increase. These parts are primarily sent abroad to have laborintensive assembly and testing operations performed on them and then returned as imports to the United States. Microprocessors accounted for about

15 percent of the 1994 growth in U.S. semiconductor exports. U.S. firms dominate the production of these devices, which are primarily used in PCs. In 1994, world demand for PCs shifted to PCs incorporating more advanced and expensive microprocessors, most notably Intel's 80486 and Pentium microprocessors. DRAMs accounted for about 10 percent of the rise in U.S. semiconductor exports.

The composition of U.S. semiconductor exports did not change notably between 1993 and 1994. Unassembled semiconductors and other semiconductor parts accounted for about 51 percent of all U.S. semiconductor exports both in 1993 and 1994. Assembled microprocessors accounted for 10 percent of these exports in 1994, compared to 8 percent in 1993. Assembled DRAMs and other memory products accounted for 8 percent of U.S. semiconductor exports in 1994, compared to 7 percent in 1993. The latter two rises were offset primarily by a decrease in the share of U.S. exports of discrete semiconductors. Discretes are generally technologically more mature and less sophisticated products than integrated circuits. Discretes' share of semiconductor consumption has fallen worldwide over the last two decades. These devices accounted for 9 percent of U.S. semiconductor exports in 1994, compared to 11 percent in 1993.

The Asia-Pacific Rim region and the EU accounted for most of the growth in U.S. exports of semiconductors. These regions are large producers of electronic equipment. Both regions are also principal exporters of this equipment and the Asia-Pacific Rim region is the main site used to assemble and test U.S. semiconductor parts.

U.S. imports of semiconductors increased by \$6.6 billion (33 percent) in 1994 to \$26.0 billion. Products from Japan, South Korea, and Taiwan accounted for almost 60 percent of this import growth. These countries principally supply the United States with DRAMs, whose use is particularly intensive in the 80486 and Pentium microprocessor-based PCs that dominated the PC market in 1994. Malaysia, Singapore, Hong Kong, and the Philippines, the main sites for the assembling and testing of U.S. semiconductor parts, accounted for most of the remaining increase in U.S. imports.

In 1994, the composition (by value) of U.S. semiconductor imports changed primarily because of DRAM and, to a lesser extent, microprocessor price increases. DRAMs and other memory products accounted for about 39 percent of the value of U.S. semiconductor imports in 1994, compared to 34 percent in 1993. Microprocessors, accounted for about 10 percent of the value of these imports in 1994, compared to 9 percent in 1993. These rises were offset primarily by a decrease in U.S. imports of microcontrollers. Many of these devices are technologically more mature products and subject to

¹ During 1994, U.S. semiconductor import and export unit growth was 11 percent and 6 percent, respectively.

² Edmund B. Swort, CFA, "Semiconductor Industry," *Value Line*, Jan. 27, 1995, p. 1056.

³ "A Question of Balance," *Electronics Weekly*, Apr. 19, 1995, p. 13.

⁴ Anthony Cataldo, "DRAM Vendors Weigh Price Jumps," *Electronics Weekly*, Mar. 27, 1995, p. 1.

⁵ Electronic Industries Association (EIA), *Outlook 1995* (Washington DC: EIA, 1995).

great pricing pressures. These devices accounted for about 19 percent of U.S. semiconductor imports in 1994, compared to 22 percent in 1993. From 1993 to 1994, both semiconductor parts' and discretes' share of U.S. imports remained unchanged accounting for about 10 percent and 9 percent, respectively, of semiconductor imports.

During 1993-94, the U.S. trade deficit in semiconductors increased by \$2.3 billion, or by 41 percent, while rising to \$7.9 billion. U.S. imports rose more rapidly than U.S. exports as the rate of growth in semiconductor demand in the United States was higher than that in the rest of the world.⁶ The U.S. trade deficit in semiconductors has grown since 1989. The deficit has reached a record level in each year since 1991.

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Telephone and telegraph apparatus

U.S. exports of telecommunication apparatus flourished in 1994 as many U.S. trading partners worked to upgrade and expand their national communication infrastructures. Exports reached \$6.7 billion for the year, representing an increase of \$1.5 billion (29 percent) over 1993. During the same period, U.S. imports of telecommunication equipment grew by 21 percent, permitting the overall trade deficit in equipment to enter its sixth year of decline, with a decrease from \$944 million in 1993 to \$724 million in 1994.

U.S. exports to Asia, Australia, and Mexico grew significantly during 1994. Within Asia, sales of equipment to Korea and Hong Kong were particularly strong, increasing by 133 and 58 percent, respectively. Both countries increased their imports of cellular equipment to respond to rising domestic demand. Korea's second licensed cellular carrier began a 3-year project to install digital equipment for its mobile services. Similarly, Hong Kong's cellular market continued its rapid growth, though it already boasts the highest per capita consumption of handheld portable phones of any major cellular market in the world. Both countries also increased purchases of wireline equipment, such as private branch exchanges, key telephone sets, cordless phones, and modems, in an effort to improve communications in the business community.

Exports to Australia were up by nearly 68 percent, from \$118 million in 1993 to \$197 million in 1994. Exports consisted primarily of carrier line equipment and cellular apparatus to supplement Australia's extensive communications network.

U.S. exports to Mexico expanded by \$217 million (58 percent) as the country continued efforts to improve its domestic telecommunication infrastructure and increase main line penetration ratios.⁷ Toward these goals, Mexico's public telephone company, Telmex, increased its purchases of line equipment and parts for switches. In addition, the North American Free-Trade Agreement (NAFTA) has encouraged the establishment of new businesses in Mexico, resulting in demand for office telecommunication equipment such as telephone sets, private branch exchanges, and modems. U.S. producers account for approximately half of Mexico's telecommunications imports, due to the geographical proximity of U.S. suppliers, high quality and compatibility of U.S. products, rapid delivery time, and availability of technical assistance.

Examined by product category, exports of cellular equipment, PBXs, and line apparatus grew most rapidly in 1994. Increased cellular exports are explained by the growing number of countries establishing or expanding their wireless systems. Many U.S. trading partners licensed additional cellular carriers to respond to escalating consumer demand in 1994. Exports of line apparatus were largely in response to demand from countries that are working to improve their national telecommunication infrastructures. Finally, demand for PBXs reflects continued efforts by multinational firms to enhance competitiveness by improving corporate communication systems.

By comparison, U.S. imports of telecommunication equipment grew by \$1.3 billion, or by 21 percent, in 1994 to \$7.4 billion. Korea and Mexico recorded the greatest increases among major foreign suppliers of telecommunication equipment to the U.S. market, with import growth concentrated in modems and parts for terminal and switching equipment.⁸

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⁶ Semiconductor consumption grew by 33 percent in the United States, which accounts for about a third of world semiconductor consumption, and by 24 percent in the rest of the world. Robert Reistelhueber, "Global Electronics Forecast: Semiconductors," *Electronics Business Buyer*, Jan. 1995, p. 63.

 $^{^7}$ These ratios reflect the number of telecommunication lines per 100 people in a country. Mexico currently has less than 10 lines per 100 people, compared with over 50 for the United States.

⁸ Approximately 40 percent of imports of telecommunications equipment from Mexico in 1994 consisted of products assembled or processed from U.S. components and entered under subheading 9802 of the U.S. Harmonized Tariff System (HTS). On average, 45 percent of the value of such imports was considered to be of U.S. origin and therefore entered duty free. Several U.S. companies, including AT&T and Motorola, maintain production facilities in Mexico.

Apparatus for making, breaking, protecting, or connecting electrical circuits⁹

Both U.S. exports and imports of apparatus for making, breaking, protecting, or connecting electrical circuits grew significantly in 1994. The growth in the traded value of these electronic apparatus resulted primarily from a worldwide rise in demand for electronic equipment, particularly PCs, telecommunications gear, automobile electronic systems, and medical equipment. The use of these apparatus in electronic equipment is extensive and generally growing.¹⁰ U.S. trade in these apparatus also grew in 1994 as a result of the NAFTA, which encouraged trade between the United States and Mexico. The value of trade also expanded, partly in response to rising prices for some of these apparatus. Worldwide demand for these apparatus has grown in the past by no more than 5 percent annually, but in 1994 demand unexpectedly grew by 12 to 15 veloped, raising the prices of some of these goods.¹²

U.S. exports of apparatus for making, breaking, protecting, or connecting electrical circuits rose by \$1.2 billion (24 percent) in 1994 to \$6.5 billion. This growth was primarily accounted for by Mexico (37 percent of the increase), Canada (23 percent), the EU (22 percent), and members of the Association of South East Asian Nations (ASEAN) (6 percent). The 1994 rise in U.S. exports to Mexico and Canada consisted primarily of apparatus classified under HTS heading 8536. Producers in Mexico and Canada primarily use these components to manufacture automobiles and automobile subassemblies as well as PCs and telecommunications accessories for the U.S. market, which expanded rapidly

in 1994. Most of the rise in U.S. exports to the EU consisted of printed circuit boards used principally to make PCs and package integrated circuits (ICs). U.S. firms are major suppliers for manufacturers of PCs and ICs in the United Kingdom, Germany, and France, all of which increased their production of these end products in 1994.¹³

U.S. imports of apparatus for making, breaking, protecting, or connecting electrical circuits rose by \$1.1 billion (18 percent) in 1994 to \$7.4 billion. All major sources, especially Mexico, China, and the ASEAN countries, increased their supply of these imports. Mexico, China, and the ASEAN countries are primary suppliers of subcontract production operations to U.S. producers.

From 1993 to 1994, the U.S. trade deficit in these apparatus decreased by \$121 million (12 percent) to \$909 million. During 1994, U.S. exports of these goods grew at a faster pace than U.S. imports because domestic producers generally have a worldwide competitive advantage in supplying many of the components used by manufacturers of PCs, telecommunications gear, and the other electronic equipment. Time-to-market is of key importance in maintaining a competitive advantage in the worldwide electronic equipment marketplace, and most of the innovation in this equipment takes place in the By virtue of their geographical United States. proximity, organizational flexibility, and innovative design teams, U.S. suppliers of these manufacturers, including producers of apparatus for making, breaking, protecting, or connecting electrical circuits, can generally make design changes and deliver products more quickly than foreign suppliers. These U.S. suppliers also often hold an advantage in supplying equipment producers abroad because the product designs and supply requirements of foreign producers generally mirror those of U.S. products.

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Measuring, testing, controlling, and analyzing instruments

U.S. exports of measuring, testing, controlling, and analyzing instruments grew by \$1.0 billion in 1994, reaching \$10.1 billion. The 12-percent increase was mostly due to the growth in U.S. exports of technology-intensive instruments, of which the United States is the leading producer. Such instruments are increasingly being used by all segments of the manufacturing sector to increase productivity, and to attain greater consistency in the quality of

⁹ These apparatus consist of the following: (1) fuses, relays, switches, connecters, and electrical terminals for a voltage exceeding 1000 V (classified in *HTS* heading 8535), and (2) fuses, relays, etc., of a voltage not exceeding 1000 V (*HTS* heading 8536), (3) boards and consoles incorporating these components (*HTS* heading 8537), and (4) parts of these components (*HTS* heading 8538), as well as (5) printed circuit boards (classified in *HTS* heading 8534).

¹⁰ "How's Business," and "Global Electronics Forecast," *Electronic Business Buyers Guide*, Jan. 1995, p. 15 and pp. 64-69.

¹¹ Bernard Levine, "New Gear Buoys Sales of Veteran Caps, Resistors, and Connecters," and "Booming Growth Can't Last, Say Distributors-Again" *Electronic News*, Jan. 2, 1995, pp. 61 and 62.

¹² While prices of electronic components generally fall due to technological innovations, prices for switches and connecters, for example, rose by about 2 percent in 1994. "Electronic Buying Data Prices," *Electronic Business Buyer*, Jan. 1995, p. 105.

¹³ Peter Fletcher, "European Industry Exhibits Mild Growth," *Electronics*, Jan. 9, 1995, p. 11.

manufactured products, as well as to identify and control contaminants in the air, water, and solid waste. In addition, the rise in U.S. exports can be attributed to the growing number of U.S. manufacturers that have become more focused on developments in export markets.

U.S. imports of instruments rose by \$1.2 billion (26 percent) to \$5.7 billion in 1994. This substantial increase in U.S. imports of instruments was stimulated by the availability of a growing number of advanced-technology and competitively priced foreign-made instruments. A rise in intra-corporate trade between U.S. companies and their subsidiaries in foreign countries, and between the U.S. subsidiaries of foreign companies and related parties in other countries also bolstered import growth. Additionally, the NAFTA has led to an increase in the value of U.S. imports from Canada and Mexico.

U.S. exports of technology-intensive instruments grew substantially in 1994. Among the products with significant increases were miscellaneous measuring and checking instruments, up by 23 percent to \$1.1 billion; automatic regulating and controlling instruments, up by 13 percent to \$2.0 billion; and instruments for measuring or checking electrical quantities, up by 8 percent to \$2.4 billion. Canada was the largest market for U.S.-made instruments, accounting for 19 percent of total U.S. exports, followed by Japan with 12 percent, and Mexico, with 11 percent. U.S. exports to Canada, Japan, and Korea grew fastest in 1994. Exports to Canada rose by 29 percent (\$420 million); to Japan, by 20 percent (\$211 million); and to Korea, by 34 percent The substantial increase in U.S. (\$135 million). exports to Canada was primarily generated by a 37-percent (\$230 million) increase in U.S shipments of automatic regulating and controlling instruments. The rise in U.S. exports to Japan was mostly a result of a 21 percent (\$73 million) growth in exports of instruments for measuring or checking electrical quantities, and a fivefold (\$64 million) increase in exports of optical instruments for inspecting semiconductor wafers. The marked rise in Ú.S. exports to Korea was due in large part to greater demand for advanced-technology instruments in the expanding Korean industrial infrastructure. The growth in U.S. exports to Mexico was generated by increased U.S. shipments of parts and components to U.S.-owned assembly plants located in Mexico, as well as U.S. shipments of instruments purchased by Mexico's rapidly growing manufacturing sector.

Japan remained the largest source of U.S. imports of instruments in 1994, accounting for 23 percent of the total, followed by Mexico with 18 percent, Canada with 13 percent, Germany with 12 percent, and the United Kingdom with 10 percent. Imports from Mexico and Canada showed the greatest increases. U.S. imports from Mexico increased by 61 percent (\$391 million), mostly due to a 170-percent rise in U.S. imports of speedometers and tachometers, as well as a 67-percent increase in U.S. imports of parts and accessories for automatic regulating and controlling instruments. U.S. imports from Canada grew by 41 percent (\$213 million), due in large part to a fourfold increase in U.S. imports of speedometers and tachometers, and a 140-percent increase in imports of parts and accessories for automatic regulating and controlling instruments. U.S. imports from Japan grew by 15 percent (\$169 million), mostly from an increase in U.S. imports of automatic regulating and controlling instruments, and parts thereof. It is believed that related party transactions accounted for a substantial part of U.S. imports from Mexico, Canada, and Japan.

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Radio transmission and reception apparatus, and combinations thereof

U.S. imports of radio transmission and reception apparatus, and combinations thereof increased by 21 percent from 1993 to 1994, from \$6.4 billion to \$7.7 billion. The products experiencing the greatest increases were radiobroadcast receiver combinations, imports of which rose by 31 percent to \$1.3 billion. The principal reasons for the increase were the acceleration of trade with Mexico as a result of the NAFTA, and the movement of the production of mass-produced, low-value-added consumer electronic products from more developed Southeast Asian countries like Japan and Korea to less developed countries like China and Malaysia. The availability of lower cost products from China, Malaysia, and Mexico has led to increased demand because the elasticity of demand for consumer electronic products is high. Imports of radio combinations from China, Malaysia, and Mexico increased by \$437 million to \$1.2 billion, \$320 million to \$1.0 billion, and \$234 million to \$485 million, re-Although imports of low-cost radio spectively. combinations from these countries increased dramatically, imports from Japan and Korea declined by \$102 million and \$31 million, respectively.

U.S. exports of radio transmission and reception apparatus increased by 21 percent to \$5.2 billion. Exports to Mexico and Japan, the two largest markets for U.S. products, increased by 10 percent to \$701 million and 125 percent to \$618 million, respectively.

The continuing trade deficit increased by \$461 million to \$2.6 billion. China, Japan, and Korea remained the countries with which the United States had the largest trade deficits. The deficits with Japan and Korea improved, by \$667 million to \$670 million and \$60 million to \$356 million, respectively, while the deficit with China grew by \$426 million to \$1.1 billion. Trade surpluses with Canada and Mexico continued, but declined by \$113 million to \$241 million and by \$156 million to \$55 million, respectively.

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Audio and video recording and reproducing equipment

U.S. imports in this sector increased by \$838 million, or 15 percent, from \$5.4 billion in 1993, to \$6.3 billion in 1994. Exports also increased, but only by \$61 million, and the sector trade deficit expanded by \$777 million (16 percent) in 1994.

More than 90 percent of the increase in imports was accounted for by three product types: standalone videocassette recorders (VCRs), compact-disc (CD) players, and television-VCR (TV-VCR) combinations. VCRs accounted for the largest increase in value terms, \$332 million or 12 percent, but TV-VCR combinations experienced a much larger proportional growth, 87 percent, or \$209 million. Of these three product types, only relatively high-end TV-VCR combinations were produced in significant quantities in the United States during 1993-94. Thus, the increase in imports of these products was due primarily to an expansion of the U.S. market as discretionary consumer spending rose during the recent U.S. economic recovery.

The total increase in U.S. imports of audio and video recording and reproducing equipment in 1994 was more than fully accounted for by three countries, which represented 37 percent of 1994 imports, Imports from Malaysia, primarily CD players, VCRs, and TV/VCRs, rose by \$458 million, or 51 percent in 1994; imports from China, primarily CD players and VCRs, by \$393 million, or 140 percent; and imports from Thailand, primarily VCRs, by \$121 million, or 65 percent. Imports from Japan, the largest single source, declined by \$211 million, or 8 percent.

Approximately 90 percent of the \$61-million increase in U.S. exports was accounted for by soundrecording and miscellaneous sound-reproducing equipment. These categories include CD players, optical-disc recording equipment, and a wide variety of miscellaneous products.

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Medical goods

The U.S. trade surplus in medical goods increased by \$613 million in 1994 to \$3.6 billion, continuing an 8-year trend of steadily increasing trade surpluses for the U.S. industry. U.S. exports increased by almost 9 percent (by \$637 million to \$8.0 billion), while imports rose by less than 1 percent during the period (by \$24 million to \$4.4 billion). Asian markets, led by Japan and Korea, were responsible for a significant portion of the increase in the U.S. trade surplus as exports to those two markets increased by 21 percent and 43 percent, respectively.

Private and public hospitals, clinics, and physicians in Japan increased their purchases of medical goods to meet the escalating health care requirements of one of the most aged populations in the world. Although exports to that country had slowed considerably over the past several years due to Japan's severe recession, somewhat improved economic conditions in Japan in 1994 enabled many Japanese health care entities to expand their purchases of such items as electromedical equipment and apparatus, patient monitoring equipment, as well as needles, syringes, and other commodity hospital and medical supplies. Korea and other rapidly developing East Asian markets, such as Taiwan, Singapore, Thailand, Malaysia, and China, which are among the fastest growing markets for medical goods in the world, were also important markets for U.S. exports in 1994. Other significant markets for medical goods in 1994 were France, the Netherlands, and Belgium in the EU; Australia, Argentina, and Russia.

U.S. imports of medical goods in 1994 declined significantly from Japan and Europe, as cost-containment efforts by U.S. Government and privatesector health care insurance plans resulted in slower growth in purchases of high-end electromedical and medical imaging equipment in the mature U.S. market. The only countries to significantly increase their exports to the United States were Mexico and the Dominican Republic, suppliers of relatively low-priced, commodity hospital and medical supplies, such as needles, catheters, and intravenous and blood administration sets. Major U.S.-based companies, such as Abbott Laboratories, Baxter International, and Johnson & Johnson maintain assembly operations in Mexico and the Dominican Republic to take advantage of relatively low wage rates and preferential tariff treatment available in those two countries under NAFTA and the Caribbean Economic Recovery Act (CBERA), respectively. The Mexican and Dominican Republic subsidiaries of those companies have not been hurt as much as have foreign suppliers of relatively expensive, high-end medical equipment, such as medical imaging equipment, which has been affected most by more stringent reimbursement policies by U.S. public and private health care insurance.¹⁴

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¹⁴ Telephone interviews by USITC staff, U.S. and foreign industry insurance company officials and investment analysts, Feb., Mar., May, and July 1995.

Office machines

The U.S. trade deficit for office machines increased by \$722 million, or by 22 percent, to \$4.0 billion in 1994, as imports increased and exports were flat. Imports of office machines increased by 14 percent in 1994 to \$5.8 billion. Most U.S. producers purchase at least part of the low end of their product line from foreign sources. U.S. exports of office machines increased by just \$7 million, or less than 1 percent, in 1994 to \$1.8 billion.

The principal imported items were plain paper electrostatic copying machines and parts for photocopying apparatus, which together accounted for 58 percent of total imports. Japanese low- and mid-range copiers have made significant inroads in the U.S. market through price competition. At the same time, U.S. producers of photocopying apparatus are continuing to buy components from many countries, which accounted for the 6-percent increase in imports for parts of photocopying apparatus in 1994.

The principal source of U.S. imports of office machines in 1994 was Japan, which accounted for 54 percent of the total. Of the imports from Japan, 78 percent were office copying machines and parts for photocopying apparatus. China and Taiwan were the second and third principal sources of imports, accounting for 6 and 5 percent, respectively, of imports. The principal imports from China were calculators and parts (48 percent) and miscellaneous office machines (21 percent). The principal imports from Taiwan were cash registers (32 percent) and hand-held calculators (22 percent). Many of these calculators were for the lower end of the market.

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Television apparatus (except receivers and monitors) including cameras, camcorders, and cable apparatus

U.S. imports of television apparatus (except receivers and monitors) including cameras, camcorders, and cable apparatus, rose by 29 percent from 1993 to 1994, from \$2.5 billion to \$3.3 billion. The major reasons for the import increase were the expansion in U.S. trade with Mexico as a result of NAFTA and increasing demand for cable television end-user equipment, notably set-top converters. U.S. imports of television apparatus from Mexico—virtually all apparatus for cable and close-circuit television systems, including set-top converters—more than tripled from 1993 to 1994, from \$169 million to \$527 million, as Mexico's share of U.S. imports increased from 6 to 16 percent. Al-

though Japan was the source of 63 percent of U.S. imports of television apparatus in 1994, imports from Japan grew by less than 3 percent.

U.S. exports of television apparatus increased by \$88 million to \$427 million. The greatest increase in exports was for miscellaneous transmission apparatus for television, which increased by 61 percent to \$227 million. Exports to the United Kingdom and Mexico increased the most, by \$16 million to \$48 million and by \$14 million to \$71 million, respectively. The increase in imports was over eight times greater than the increase in exports. Thus, the trade deficit grew by \$641 million to \$2.8 billion.

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Records, tapes, compact discs, computer software, and other recorded media

The U.S. trade surplus in this product grouping rose by \$322 million, or 12 percent, from \$2.7 billion in 1993 to \$3.0 billion in 1994. This increase was fully accounted for by growth in exports of miscellaneous recorded media products. The trade surplus in this miscellaneous category rose by \$435 million, or 23 percent, from \$1.9 billion in 1993 to \$2.4 billion in 1994. The principal products included in this miscellaneous category are computer software programs recorded on magnetic ("floppy") and optical (CD-ROM) disks.¹⁵

U.S. exports of unspecified recorded media increased by \$506 million, or 22 percent, from \$2.3 billion in 1993 to \$2.8 billion in 1994. Imports of unspecified recorded media increased nearly as much in proportional terms, 21 percent, but by only \$71 million in value, from \$338 million to \$409 million.¹⁶ For the recorded media sector as a whole, exports rose by 14 percent or \$461 million and imports by 23 percent, or \$139 million.

¹⁵ It is likely that both import and export statistics underestimate the value of transactions involving computer software, inasmuch as these transactions are generally valued at the cost of the storage medium rather than at the much higher value of the information content. Furthermore, software, music, and video recordings are often exported (or imported) in the form of master recordings for replication within the foreign market. See USITC, *Industry and Trade Summary: Computer Software and Other Recorded Media*, USITC publication 2850, Jan. 1995.

¹⁶ For the sake of compatibility with export statistics, imports here include those under the heading "master records or metal matrices therefrom for use in the production of sound records for exports; recordings on wire," which accounted for \$1.6 million in imports in 1994, down \$0.2 million from the previous year. Import statistics for 1995 will also include a separate category for prepackaged computer software, but export statistics will still not report these data separately.

As in past years, the continuing increase in U.S. exports of computer software appears to have been the result of increases in the use of personal computers, the adoption of U.S. technical standards for computer operating systems, and the enforcement of software copyrights in foreign markets. U.S. exports of computer software to Japan, Korea, Mexico, and Brazil each increased by over 40 percent for a second consecutive year, to \$217 million, \$95 million, \$77 million, and \$65 million, respectively.¹⁷ These are all countries that allegedly have had very high rates of software "piracy" but which are improving copyright enforcement.¹⁸ The rise in exports to Japan is also the result of the increased adoption of two U.S. PC operating system standards, Microsoft Corp.'s Windows and Apple

Computer's Macintosh, in place of NEC Corp.'s proprietary operating system.¹⁹ Exports of computer software to Canada, the largest foreign market, rose by 23 percent from \$602 to \$740 million. This increase was likely the result primarily of market growth rather than improved copyright enforcement.

Another factor impacting the increase in U.S. exports may be a heightened attention to sales opportunities in foreign markets by small- and mediumsized U.S. software companies.²⁰ Larger U.S. software companies usually serve foreign markets through foreign subsidiaries rather than through U.S. exports.

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¹⁷ Exports to Brazil and Mexico have increased by at least 60 percent annually for 3 and 4 consecutive years, respectively.

¹⁸ Business Software Alliance, *1993 Software Piracy Estimates* (news release, Washington, DC, Apr. 27, 1994).

¹⁹ USITC staff telephone interview with an industry official, May 2, 1994. See also USITC, *Computer Software and Other Recorded Media*.

 $^{^{20}}$ USITC staff telephone interview with an industry official, May 2, 1994.

Table 11-2Electronic products sector: U.S. trade for selected industry/commodity groups, by specified periods, Jan.1993-Dec. 19941

USITC			1994	Change, 1994 from 1993	
USITC code ²	Industry/commodity group	1993		Amount	Percent
			 Million dollars 		
ST001	Office machines:			_	
		1,770	1,777	7	0.4
	Imports Trade balance	5,052 -3,282	5,781 -4,004	729 -722	14.4 -22.0
T002	Telephone and telegraph apparatus:	-0,202		122	22.0
	Exports	5,199	6,724	1,525	29.3
	Imports	6,143	7,448	1,305	21.2
T003	Trade balance Microphones, loudspeakers, audio amplifiers and combinations thereof:	-944	-724	220	23.3
	Exports	851	1,006	155	18.2
	Imports	1,473	1,827	354	24.0
T004	Trade balance Tape recorders, tape players, video cassette recorders, turntables, and compact disc players:	-622	-821	-199	-32.0
	Exports	579	640	61	10.5
	Imports	5,445	6,283	838	15.4
T005	Trade balanceUnrecorded magnetic tapes, discs, and other media:	-4,866	-5,643	-777	-16.0
1005	Exports	1,675	1,736	61	3.6
	Imports	1,928	1,943	15	0.8
Taaa	Trade balance	-253	-207	46	18.2
T006	Records, tapes, compact discs, computer software, and other recored media:				
	Exports	3,281	3,742	461	14.1
	Imports	616	755	139	22.6
	Trade balance	2,665	2,987	322	12.1
T007	Radio transmission and reception apparatus, and _ combinations thereof:				
	Exports	4,283	5,166	883	20.6
	Imports	6,420 -2,137	7,764 -2,598	1,344 -461	20.9 -21.6
T008	Radio navigational aid, radar, and remote control apparatus:			401	21.0
	Exports	1,249	1,242	-7	-0.6
	Imports	408 841	438 804	30 -37	7.4 -4.4
T009	Television receivers and video monitors and combinations including television receivers:	041	004	-57	-4.4
	Exports	1,199	1,302	103	8.6
	Imports	3,707	4,319	612	16.5
T010	Trade balance Television apparatus (except receivers and monitors), including cameras, camcorders, and cable apparatu	-2,508 IS:	-3,017	-509	-20.3
	Exports	339	427	88	26.0
	Imports	2,536	3,265	729	28.7
T044	Trade balance	-2,197	-2,838	-641	-29.2
ST011	Electric sound and visual signaling apparatus:	560	578	18	3.2
	Imports	1,261	1,576	315	25.0
	Trade balance	-701	-998	-297	-42.4
T012	Electrical capacitors, and resistors:		4 4 9 9		
	Exports	960 1,181	1,186 1,475	226 294	23.5 24.9
	Trade balance	-221	-289	-68	-30.8
T013	Apparatus for making, breaking, protecting, or _ connecting electrical circuits:				
	Exports	5,224	6,471	1,247	23.9
	Imports	6,254 -1,030	7,380 -909	1,126 121	18.0 11.7
ST014	Television picture tubes and other cathode ray tubes:	1,000	-303	141	11.7
	Exports	769	1,061	292	38.0
	Imports	822	1,003	181	22.0
	Trade balance	-53	58	111	209.4
T015	Special-purpose tubes:				
ST015		150	171	12	75
ST015	Exports	159 168	171 215	12 47	7.5 28.0

See footnotes at end of table.

Table 11-2—ContinuedElectronic products sector: U.S. trade for selected industry/commodity groups, by specified periods, Jan.1993-Dec. 19941

USITC				Change, 1994 from 1993	
ode ²	Industry/commodity group	1993	1994	Amount	Percent
		-	— Million dollars		
T016	Diodes, transistors, integrated circuits and				
	similar semiconductor solid-state devices:				
	Exports	13,813	18,098	4,285	31.0
	Imports	19,466	26,020	6,554	33.7
	_ Trade balance	-5,653	-7,922	-2,269	-40.1
T017	Electrical and electronic articles, apparatus, and				
	parts not elsewhere provided for:	4 074	0.447	0.40	40.4
	Exports	1,871 987	2,117 1,137	246 150	13.1 15.2
	Trade balance	884	980	96	10.9
T018	Automatic data processing machines:	004	300	30	10.5
1010	Exports	25,397	29,102	3,705	14.6
	Imports	37,906	46.161	8,255	21.8
	Trade balance	,	-17,059	-4,550	-36.4
T019	Photographic supplies:	,	,	,	
	Exports	1,636	1,621	-15	-0.9
	Imports	1,702	1,675	-27	-1.6
	_ Trade balance	-66	-54	12	18.2
T020	Exposed photographic plates, film, and paper:	400		10	40.0
	Exports	100	110	10	10.0
	Imports	156	107	-49	-31.4
T024	Trade balance	-56	3	59	105.4
T021	Optical fibers, optical fiber bundles and cables: Exports	325	418	93	28.6
	Imports	90	104	14	15.6
	Trade balance	235	314	79	33.6
T022	Optical goods, including ophthalmic goods:	200	011	10	00.0
	Exports	1,150	1,324	174	15.1
	Imports	2,181	2,385	204	9.4
	Trade balance	-1,031	-1,061	-30	-2.9
T023	Photographic cameras and equipment:				
	Exports	940	980	40	4.3
	Imports	1,968	2,315	347	17.6
T024	Trade balance	-1,028	-1,335	-307	-29.9
01024	Medical goods: Exports	7,360	7,997	637	8.7
	Imports	4,381	4,405	24	0.5
	Trade balance	2,979	3,592	613	20.6
T025	Surveying and navigational instruments:	2,010	0,002	010	20.0
	Exports	1,556	1,470	-86	-5.5
	Imports	477	461	-16	-3.4
	Trade balance	1,079	1,009	-70	-6.5
T026	Watches:				
	Exports	138	163	25	18.1
	Imports	2,048	2,127	79 54	3.9
T027	Trade balanceClocks and timing devices:	-1,910	-1,964	-54	-2.8
1027	Exports	97	113	16	16.5
	Imports	400	424	24	6.0
	Trade balance	-303	-311	-8	-2.6
T028	Arms and ammunition:		•••	•	
	Exports	2,372	2,212	-160	-6.7
	Imports	682	777	95	13.9
	Trade balance	1,690	1,435	-255	-15.1
T029	Balances of a sensitivity of 5 cg or better:	4.0	10		-
	Exports	18	18	0	0
	Imports	38	37	-1	-2.6
тозо	Trade balance	-20	-19	1	5.0
1030	Drawing and mathematical calculating or measuring instruments:				
	Exports	162	145	-17	-10.5
			140	- 17	-10.3
	Imports	235	322	87	37.0

See footnotes at end of table.

Table 11-2—Continued Electronic products sector: U.S. trade for selected industry/commodity groups, by specified periods, Jan. 1993-Dec. 1994¹

USITC code ²	Industry/commodity group			Change, 199	Change, 1994 from 1993	
		1993	1994	Amount	Percent	
			— Million dolla	nrs ———		
ST031	Measuring, testing, controlling, and analyzing instruments Exports Imports Trade balance	: 9,026 4,553 4,473	10,060 5,727 4,333	1,034 1,174 -140	11.5 25.8 -3.1	

¹ Import values are based on Customs value; export values are based on f.a.s. value, U.S. port of export. ² This coding system is used by the U.S. International Trade Commission to identify major groupings of HTS import and export items for trade monitoring purposes.

Chapter 12 Miscellaneous Manufactures¹

Despite a 13-percent increase in U.S. exports of miscellaneous manufactures in 1994, the greater than 3-to-1 ratio of imports to exports in these products promoted an 8-percent rise in U.S. imports into a \$1.5-billion expansion of the trade deficit in this sector, which reached \$24.5 billion (table 12-1).

U.S. exports of miscellaneous manufactures climbed by \$1.2 billion in 1994 to \$10.8 billion, largely on the strength of increased shipments of furniture (the bulk of which were exports to Canada and Japan of motor-vehicle seats and parts), miscellaneous articles (principally works of art), sporting goods (notably gymnasium and exercise equipment and golf clubs), and games (predominately video games and bowling equipment). In 1994, U.S. exports of furniture rose by \$359 million, or 12 percent, to \$3.3 billion. U.S. exports of works of art expanded by 22 percent (\$274 million) in 1994 to \$1.5 billion. At the same time, exports of sporting goods and games climbed by \$186 million and \$117 million, or by 16 and 12 percent, respectively, to \$1.3 billion and \$1.1 billion.

The growth in U.S. imports of miscellaneous manufactures from \$32.6 billion in 1993 to \$35.3 billion in 1994, was spurred by substantial increases in U.S. demand for furniture (car seats and wood household furniture); sporting goods (in-line roller skates, exercise equipment, and golf clubs); lug-gage; and toys. Increased imports of related items helped to offset a decline in imports of video games (table 12-2). The \$0.9-billion drop in U.S. imports of games was largely attributable to the saturation of the U.S. market for home video games, imports of which receded by \$925 million to \$1.5 billion in 1994.

U.S. Bilateral Trade

Together, the top five leading U.S. trading partners (China, Canada, Taiwan, Japan, and Mexico) in miscellaneous manufactures accounted for 60 percent of total U.S. trade in this sector in 1994 (figures 12-1 and 12-2). The most significant bilateral trade improvement in miscellaneous manufactures

during 1994, however, was recorded with Japan. The deficit with Japan in these products shrank from \$2.9 billion in 1993 to \$1.5 billion in 1994, principally owing to a \$1.4-billion decline in U.S. imports of video game players and game software. On the export side of trade with Japan, U.S. suppliers registered 107-percent (\$121 million) and 11-percent (\$37 million) increases in their shipments of furniture and sporting goods, respectively, to \$235 million and \$379 million in 1994. The large rise in furniture shipments was predominately of leather seat covers for Japanese automobile producers.

China continued to be the largest U.S. trading partner in miscellaneous manufactures in 1994. The importance of China in bilateral trade in these products was almost exclusively as a source of imported merchandise, as U.S. exports to China during 1994 were negligible (\$81 million). U.S. imports from China rose by nearly \$2.0 billion, or 25 percent, to \$9.9 billion in 1994. The \$9.8-billion trade deficit with China accounted for nearly 40 percent of the deficit with all countries during The composition of Chinese imports was 1994. heavily skewed towards low technology, low- to moderate-priced, and high-labor-intensive products such as luggage, handbags, and flat goods; lamps and lighting fixtures; dolls; toys and models; and miscellaneous articles (notably artificial flowers, Christmas decorations, and umbrellas). The abundance of low-wage, semiskilled labor has provided domestic and foreign transplant operations in China with a significant price advantage in U.S. and world markets for these products.

U.S. trade with Canada in miscellaneous manufactures generated a nearly \$300-million decline in the bilateral balance, which shifted from a \$287-million surplus in 1993 to a \$13-million trade deficit in 1994. An increase of 13 percent in U.S. exports (principally automotive seats and parts, games, and

¹ Miscellaneous manufactures include a wide range of consumer products such as luggage, handbags, musical instruments, silverware, jewelry, bicycles, furniture, writing instruments, lamps, sporting goods, brushes, brooms, toys, dolls, games, umbrellas, Christmas ornaments, artificial flowers, typewriter ribbons, objects of art, and antiques.

Table 12-1

Miscellaneous manufactures: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1993 and 1994¹

			Change, 1994 from 1993	
Item	1993	1994	Amount	Percent
		- Million dollars		
U.S. exports of domestic merchandise: China Canada Taiwan Japan Mexico Italy United Kingdom Thailand Korea France All other	78 2,388 210 1,140 1,278 128 605 80 249 324 3,093	81 2,693 273 1,325 1,505 112 720 68 295 278 3,419	3 305 63 185 226 -16 115 -11 46 -46 326	3.3 12.8 29.7 16.2 17.7 -12.7 19.1 -14.4 18.5 -14.1 10.5
Total EU-12 OPEC Latin America CBERA Asian Pacific Rim ASEAN Eastern Europe	9,573 1,881 369 2,007 266 2,285 303 18	10,769 1,955 324 2,329 294 2,688 350 19	1,196 74 -45 322 27 403 46 1	12.5 3.9 -12.2 16.0 10.3 17.6 15.3 4.6
U.S. imports for consumption: China Canada Taiwan Japan Mexico Italy United Kingdom Thailand Korea France All other	7,900 2,102 4,277 4,062 1,758 2,164 974 1,192 1,087 901 6,226	9,883 2,706 4,029 2,843 2,185 2,458 1,082 1,308 1,035 990 6,827	1,984 604 -248 -1,219 427 294 108 116 -52 89 600	25.1 28.7 -5.8 -30.0 24.3 13.6 11.1 9.8 -4.8 9.8 9.6
Total EU-12 OPEC Latin America CBERA Asian Pacific Rim ASEAN Eastern Europe	32,643 5,211 363 2,548 298 19,556 2,486 120	35,346 5,814 435 3,383 354 20,238 2,884 125	2,703 603 72 835 56 682 399 5	8.3 11.6 19.8 32.8 18.9 3.5 16.0 4.1
U.S. merchandise trade balance: China Canada Taiwan Japan Mexico Italy United Kingdom Thailand Korea France All other	-7,822 287 -4,066 -2,922 -479 -2,036 -370 -1,113 -838 -577 -3,133	-9,803 -13 -3,756 -1,518 -680 -2,346 -362 -1,240 -740 -711 -3,407	-1,981 -299 310 1,404 -201 -310 7 -128 98 -134 -274	(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)
Total EU-12 OPEC Latin America CBERA Asian Pacific Rim ASEAN Eastern Europe	-23,070 -3,330 6 -541 -32 -17,271 -2,182 -101	-24,577 -3,859 -111 -1,054 -60 -17,550 -2,535 -106	-1,508 -529 -117 -514 -29 -279 -352 -4	(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)

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

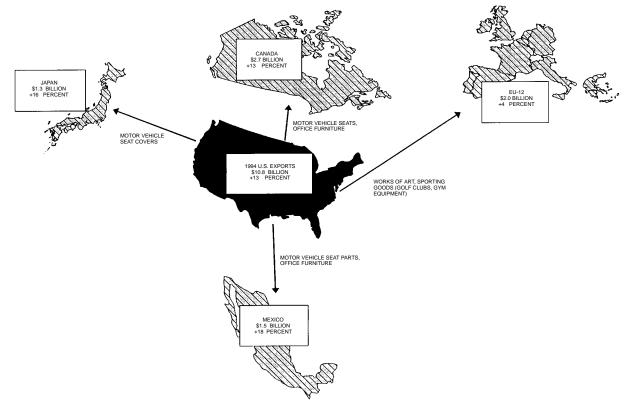
Note.—Because of rounding, figures may not add to the totals shown. The countries shown are those with the largest total U.S. trade (U.S. imports plus exports) in these products in 1994.

Table 12-2
Leading changes in U.S. imports in the miscellaneous manufactures sector, 1993-94

	Change in 1994	Change in 1994		
Industry/commodity groups	Value	Percent	Total imports in 1994	
	Million dollars		Billion dollars	
Furniture . Sporting goods . Luggage, handbags, and flatgoods . Toys and models . Games . All other .	1,340 540 424 344 -886 941	21 25 16 9 -26 7	7.6 2.7 3.0 4.0 2.6 15.4	
Total	2,703	8	35.3	

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

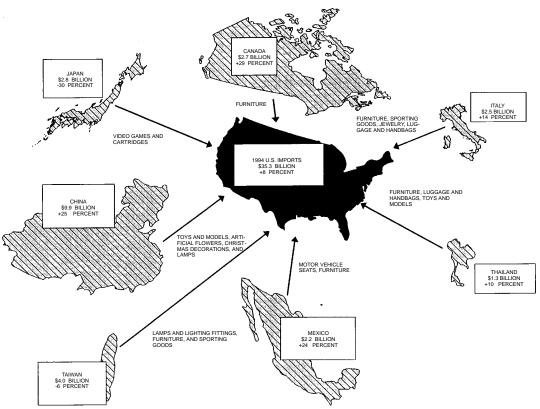
Figure 12-1 U.S. miscellaneous manufactures sector exports, 1994: Leading U.S. exports, by major mar-kets, and overall percentage change since 1993



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

Figure 12-2

U.S. miscellaneous manufactures sector imports, 1994: Leading U.S. imports, by major sources, and overall percentage change since 1993



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

sporting goods) to Canada, which reached \$2.7 billion in 1994, was overwhelmed by a 29-percent rise in imports also to \$2.7 billion and also largely attributable to higher demand for automotive seats and parts. Much of the trade in miscellaneous manufactures with Canada has been heavily influenced by the interdependence of automotive assembly facilities (largely of the Big Three U.S. automakers) along the Canadian border, which enables shipments of vehicles and component parts without duty under the U.S.-Canada Automotive Products Trade Act.

The continued shift of production to China and away from Taiwan of furniture, lighting, and bicycle industries was largely responsible for the \$310-million improvement in the U.S. trade balance with this second-leading import supplier of miscellaneous manufactures. Even so, the U.S. deficit with Taiwan was \$3.8 billion in 1994 on imports of \$4.0 billion (down by 6 percent) and exports of \$273 million (up by 30 percent). The most significant declines in imports of miscellaneous manufactures from Taiwan were in furniture, down by \$36 million (3 percent) to \$1.2 billion; bicycles, \$18 million lower (4 percent) at \$452 million; and lamps and lighting fixtures, off by \$76 million (15 percent) to \$427 million. The major offsetting increase was in imports of sporting goods, which rose by \$84 million (13 percent) to \$741 million.

Bilateral trade in miscellaneous manufactures with Mexico, the fifth-largest U.S. trading partner, registered a \$200-million decline to a \$680-million trade deficit during 1994. This development was largely the result of a 26-percent rise (to \$1.1 billion) in U.S. imports of furniture, which were heavily comprised of seats for motor vehicles to meet strong U.S. automotive market demand in 1994. Total U.S. imports of miscellaneous manufactures from Mexico increased by 24 percent to \$2.2 billion in 1994, while U.S. exports were up by 18 percent to \$1.5 billion.

Commodity Analysis

Games and fairground amusements

Near-saturation of the U.S. market for video games using 16-bit technology resulted in a \$1.0 billion reduction in the U.S. trade deficit in the games and fairground amusements (hereafter, games) sector in 1994, which dropped to \$1.5 billion. Imports declined by \$886 million (26 percent) in 1994 while exports were up by \$117 million (12 percent) over 1993. Imports of video games (home video game players, software, and arcade games), which accounted for 43 percent of total U.S. imports of games in 1994, dropped by \$925 million to \$1.5 billion.

An estimated 20 million American homes have video game players using aging 16-bit technology.² Most of these "home video game systems" (which display games on television screens or computer monitors) were made by Nintendo or Sega. These two Japanese video game giants, and long-time U.S. producer Atari and newcomer 3DO (a joint venture of IBM and Sony), are shifting to 32-bit or 64-bit technology games. According to industry sources, U.S. game retailers are balking at paying the sticker price of up to \$400 apiece for these advanced-technology "toys." Both retailers and Nintendo want to sell down inventories of Nintendo's 16-bit games before introducing the new technology to the consumer, fearing that once the advanced technology games are available few consumers will buy the overstocked 16-bit games.

During the 1994 transition from 16-bit to 32- and 64-bit technology video games, imports of all types of games from Japan dropped (by \$1.2 billion) to \$1.4 billion. This resulted in a corresponding reduction in the U.S. bilateral trade deficit with Japan in the games sector in 1994 to \$1.1 billion. Video games and software accounted for 77 percent of total game imports from Japan in 1994.

Rising relative labor costs in Japan and Taiwan and revised company policies that now allow software (cartridges) for Nintendo game players to be produced outside Japan have led some companies to shift assembly of video game players and software from Japan and Taiwan to China, Malaysia, and Mexico. While imports of games from Taiwan fell by \$104 million (to \$186 million) in 1994, imports from China grew by \$209 million (to \$556 million); Malaysia, by \$66 million (to \$85 million); and Mexico, by \$64 million (to \$84 million). U.S. exports of games and fairground amusements increased by 11 percent in 1994 to \$1.1 billion. A \$110-million rise in exports of video games and parts, and bowling equipment, more than offset a \$47-million decline in exports of pinball machines. The leading markets for U.S. exports continued to be Canada, Taiwan, and Korea. U.S. exports to Canada increased by 24 percent in 1994 to \$214 million; exports to Taiwan increased by 36 percent to \$142 million; while exports to Korea decreased slightly, by 4 percent to \$121 million. Home video game players and software, casino games, and arcade video games were the main exports to Canada in 1994.

A \$47-million (23-percent) decline in exports of pinball machines in 1994, primarily to Germany, France, Japan, and Italy, was in marked contrast to strong overall market growth, indicating that foreign interest in pinball may have peaked in recent years, and has been replaced by other leisure activities, such as in-line roller skating. The slump in pinball exports was offset by a \$48-million (18-percent) increase in exports of bowling equipment, primarily to Taiwan. The adoption of bowling as an Olympic sport and U.S. technological advantages in the manufacture of lower cost, higher quality bowling equipment have aided U.S. exports. The jump in exports of bowling equipment to Taiwan in 1994 followed a surge in exports to Korea in 1993, and reflects the high initial investment required to equip bowling alleys, which are rapidly growing in popularity in these nations. Exports include wood lanes, pin-setting equipment, and ball-retrieving machines, as well as bowling balls.

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Sporting goods

The United States recorded an overall trade deficit of \$1.4 billion in sporting goods in 1994, up from \$1.0 billion in 1993. Rising consumer demand for certain types of competitively priced sporting goods reflected the continuing pursuit of healthier lifestyles, a more robust U.S. economy, and elevated discretionary incomes in the United States. These factors contributed to a 25-percent (\$540 million) increase in U.S. imports of sporting goods in 1994 to \$2.7 billion. In-line roller skates (also known as roller blades), gymnasium and other exercise equipment (such as treadmills and weight machines), and parts of golf clubs provided for 86 percent of the growth. Imports supplied about one-quarter of the U.S. market for sporting goods in 1994. U.S. exports of sporting goods also increased in 1994, but the \$186-million (16 percent) rise to \$1.3 billion was not nearly enough to offset the larger expansion in imports.

The largest increases in U.S. imports of sporting goods in 1994 were recorded from China (\$235

² Kara Swisher and Rob Pegoraro, "In Vegas, a Big Bet on More Bits; Video Game Makers Introduce New, More Powerful Machines Into an Uncertain Market," *Washington Post*, May 13, 1995, p. D01.

million), Taiwan (\$84 million), Italy (\$54 million) and Canada (\$50 million). In-line roller skates accounted for nearly half of the increase in U.S. imports of sporting goods, growing from \$51 million to \$311 million. Italy and China emerged as major new foreign suppliers of in-line roller skates to the U.S. market and provided a combined 35 percent of these imports in 1994, rising from almost zero in 1993 to over \$50 million each in 1994. Each country has a long tradition in the footwear industry, including the production of specialized boots and athletic shoes, and was a logical location for new roller-skate production in 1994. U.S. imports from Taiwan, which was the sole major supplier of roller skates to the U.S. market in 1993, also rose significantly (although at a lesser pace) to \$137 million in 1994.

U.S. imports of gymnasium and other exercise equipment provided the second highest increase in U.S. imports of sporting goods (\$141 million) in 1994. China and Taiwan were almost exclusively responsible for the increase (\$68 million and \$60 million, respectively). Despite the larger increase in U.S. imports from China, Taiwan retained a 46-percent share of U.S. imports of these products in 1994, while China increased its share to about 30 percent. Similarly, U.S. imports of parts of golf clubs (golf club heads) were also sourced primarily from Taiwan and China in 1994. Although the foundations for this sourcing relationship were established years ago, when major U.S. sporting goods companies contracted out the manufacture of certain labor-intensive products to Taiwan's strong metalworking industry and skilled labor force, rising labor costs in Taiwan and improvements in China's infrastructure and business climate led to a shift in outsourcing from Taiwan to China.

The increase in exports was spearheaded by shipments of gymnasium and other exercise equipment (\$59 million) and golf clubs (\$55 million). The most significant growth in exports occurred in North America, where Canada and Mexico accounted for 36 percent of the overall increase. This rise coincided with the lowering of North-American trade barriers as a result of the CFTA and the North American Free-Trade Agreement (NAFTA). The improving U.S. export performance also benefited from depreciation of the U.S. dollar against major currencies, such as the Japanese yen and the German mark. U.S. export increases in gymnasium and exercise equipment were widespread among traditional markets (such as Canada, the European Union (EU), and Japan). In addition, the growth of middle-income consumers in newly industrialized countries and in recently opened economies in East Asia, Central Europe, and Latin America led to the rapid expansion of exports of high-quality, U.S.-name-brand athletic equipment to those markets.

Developing countries and newly industrialized countries in East Asia (especially China, Taiwan, Thailand, and South Korea) accounted for all of the U.S. trade deficit in sporting goods. However, the United States has traditionally maintained a trade surplus with Japan; in 1994, that surplus expanded from \$207 million to \$239 million. The surplus with Japan was driven by U.S. exports of golf clubs, in which the United States holds a competitive advantage over other producers worldwide, particularly in quality and price. According to industry sources, the falling U.S. dollar vis-a-vis the Japanese yen³ enabled U.S. exports of golf clubs, golf balls, and similar high-end sports equipment to expand their market shares in Japan.

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Furniture and selected furnishings

Reflecting a robust U.S. economy, imports of furniture and selected furnishings rose by 21 percent (\$1.3 billion) in 1994 to \$7.6 billion. The growth in imports exceeded the strong performance by U.S. furniture producers in foreign markets. Exports of furniture increased by 12 percent (\$359 million) in the same year to \$3.3 billion. Consequently, the U.S. trade deficit in furniture expanded by \$981 million in 1994 to \$4.3 billion.

NAFTA partners Canada and Mexico, the first- and third-ranked sources of imports, accounted for the bulk of the increase in U.S. imports of furniture and furnishings in 1994. Imports from Canada rose by 30 percent (\$465 million) to \$2 billion in 1994. Those from Mexico rose by 26 percent (\$226 million) to \$1.1 billion. Motor vehicle seats and parts accounted for virtually all of the rise in U.S. imports from Mexico in 1994 and a large share of the increase from Canada. Wood household furniture also contributed to the growth in imports from Canada.

U.S. trade with Canada and Mexico in motor vehicle seats and parts reflects the highly rationalized nature of North American car production. U.S. imports from Canada typically consist of top-of-theline, electronically adjustable car seats, while a large portion of the imports from Mexico are of seat covers of textile material or leather. The bulk of the imports from both countries are assembled from U.S.-made parts and materials. U.S. imports of motor vehicle seats and parts from Canada rose

³ The U.S. dollar depreciated by an average of nearly 8 percent vis-a-vis the Japanese yen in 1994.

by 31 percent (\$162 million) in 1994, to \$692 million; while those from Mexico rose by 37 percent (\$193 million) to \$722 million. U.S. imports of household furniture from Canada rose by 38 percent (\$160 million) in 1994 to \$580 million. Canadian household furniture producers provide furniture to the U.S. market at lower prices than their European competitors. Producers in Canada have greater access to lumber and significantly lower transportation costs because of proximity to the U.S. market.

China, Malaysia, Indonesia, and the Philippines accounted for most of the increase in U.S. imports of low-end, knock-down furniture; fully assembled household furniture of tropical hardwoods; and furniture woven from rattan. Manufacturers in these countries, which benefit from low-cost labor and proximity to tropical forests, accounted for a 45 percent (\$429 million) increase of these U.S. imports in 1994, which reached \$1.4 billion. Imports from China, which rose by \$250 million in 1994 to \$748 million, accounted for the largest share. Metal⁴ household furniture accounts for an increasing share of U.S. imports of furniture from China and the Philippines. The cost of wood is rising as the supply of tropical hardwoods and rattan from these regions has become more limited because of restraints on logging and delays in forest-replanting programs. U.S. imports of metal furniture from China rose by 63 percent (\$49 million) in 1994 to \$128 million, while such imports from the Philippines rose by 78 percent (\$14 million) to \$32 million.

The strong U.S. market for high-quality furniture allowed for a 31-percent (\$130 million) rise in imports from Italy in 1994 to \$558 million. Most imports from Italy are of wood household furniture although Italy is a leading supplier of leather furniture.

The motor vehicle assembly industries in Canada and Japan accounted for the bulk of the increase in U.S. exports of furniture in 1994. Exports of motor vehicle seats and parts to Canada rose by 23 percent (\$93 million) in 1994 to \$506 million, while such exports to Japan rose from \$18 million to \$105 million. Most U.S. exports of motor-vehicle seats and parts to Canada are destined for car assembly facilities wholly or jointly owned by the Big Three U.S. automakers. Virtually all of the increase in U.S. exports to Japan was of leather seat covers.⁵ The small size of Japan's domestic leather industry contributed to the successful penetration by U.S. producers of the Japanese market for top-quality leather seats for luxury vehicles such as Lexus and Acura Legend. U.S. producers benefit from economies of scale and a long tradition of high-quality leather vehicle seat production.

Prior to the Mexican peso crisis in December 1994, U.S. producers of wood household furniture had ridden the wave of Mexican euphoria over NAFTA to boost exports by \$100 million in 1994 to \$145 million. In addition to the staged elimination of Mexican tariffs under NAFTA that made U.S. furniture more cost competitive in the Mexican market, U.S. producers were the beneficiaries of NAFTA-related consumer confidence. Moderate local credit terms led many in Mexico's growing middle class to purchase U.S.-made durable goods, such as stylish household furniture, that had long been out of reach for most Mexican consumers. Because they are considered luxury goods, exports to Mexico of such furniture are likely to drop sharply in 1995 as the Mexican economy adjusts to the devaluation of the peso and high interest rates.

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⁴ Popular metals used in metal household furniture made in China and the Philippines include powder-coated steels and aluminum.

⁵ Leather seat covers fit over the metal seat frame and foam padding of motor vehicle seats.

Table 12-3 Miscellaneous manufactures sector: U.S. trade for selected industry/commodity groups, by specified periods, Jan. 1993-Dec. 1994¹

USITC				Change, 1994 from 1993	
code ²	Industry/commodity group	1993	1994	Amount	Percent
			— Million dolla	rs ———	
/M047	Luggage, handbags, and flat goods:				
	Exports	199	233	34	17.1
	Imports	2,584	3,008	424	16.4
	Trade balance	-2,385	-2,775	-390	-16.4
1M048	Certain other leather goods:		,		
	Exports	79	88	9	11.4
	Imports	168	196	28	16.7
	Trade balance	-89	-108	-19	-21.3
MM049	Musical instruments and accessories:				
	Exports	354	389	35	9.9
	Imports	861	883	22	2.6
MM050		-507	-494	13	2.6
MM050	Umbrellas, whips, riding crops, and canes:	9	8	-1	-11.1
	Exports	180	188	-1 8	4.4
	Trade balance	-171	-180	-9	-5.3
	Silverware and certain other articles of precious	-17.1	100	-0	0.0
INICOT	metal or metal clad with precious metal:				
	Exports	87	89	2	2.3
	Imports	109	317	208	190.8
	Trade balance	-22	-228	-206	-936.4
1M052	Precious jewelry and related articles:		-		
	Exports	407	381	-26	-6.4
	Imports	3,232	3,525	293	9.1
	Trade balance	-2,825	-3,144	-319	-11.3
MM053	Costume jewelry and related articles:				
	Exports	120	126	6	5.0
	Imports	544	567	23	4.2
	Trade balance	-424	-441	-17	-4.0
1M054	Bicycles and certain parts:	407		•	
	Exports	197	200	3	1.5
	Imports	841	825	-16	-1.9
	Trade balance	-644	-625	19	3.0
1M055	Furniture and selected furnishings:	2.941	3,300	359	12.2
	Exports	6,298	7,638	1,340	21.3
	Trade balance	-3,357	-4,338	-981	-29.2
1M056	Writing instruments and related articles:	0,007	4,000	-501	20.2
	Exports	242	233	-9	-3.7
	Imports	568	611	43	7.6
	Trade balance	-326	-378	-52	-16.0
1M057	Lamps and lighting fittings:				
	Exports	472	519	47	10.0
	Imports	1,712	1,956	244	14.3
	Trade balance	-1,240	-1,437	-197	-15.9
1M058	Prefabricated buildings:				
	Exports	329	415	86	26.1
	Imports	71	48	-23	-32.4
	Trade balance	258	367	109	42.2
1M059	Children's vehicles:	24	4.4	10	00.4
	Exports	34	44	10	29.4
	Imports	228	249	21 -11	9.2
MM060	Trade balance	-194	-205	-11	-5.7
	Exports	27	29	2	7.4
	Imports	885	934	49	5.5
	Trade balance	-858	-905	-47	-5.5
MM061	Toys and models:	000	-505	-11	0.0
INICOT	Exports	468	528	60	12.8
	Imports	3,666	4,010	344	9.4
	Trade balance	-3,198	-3,482	-284	-8.9
MM062	Games and fairground amusements:	-,	-,		0.0
	Exports	1,000	1,117	117	11.7
	Imports	3,461	2,575	-886	-25.6
	Trade balance	-2,461	-1,458	1,003	40.8
MM063	Sporting goods:		,		'
	Exports	1,140	1,326	186	16.3
	Las a suls	2,159	2,699	540	25.0
	Imports	2,155	-1,373	-354	-34.7

See footnotes at end of table.

Table 12-3—Continued

Miscellaneous manufactures sector: U.S. trade for selected industry/commodity groups, by specified periods, Jan. 1993-Dec. 1994¹ _

USITC code ²	Industry/commodity group	1993	1994	Change, 1994 from 1993	
				Amount	Percent
			— Million dolla	rs	
MM064	Smokers' articles:				
	Exports	74	75	1	1.4
	Imports	137	145	8	5.8
	Trade balance	-63	-70	-7	-11.1
MM065	Brooms, brushes, and hair grooming articles:		-		
	Exports	143	148	5	3.5
	Imports	491	525	34	6.9
	Trade balance	-348	-377	-29	-8.3
MM066	Miscellaneous articles:				
	Exports	1.250	1.524	274	21.9
	Imports	4,449	4,449	0	Ō
	Trade balance	-3,199	-2,925	274	8.6

¹ Import values are based on Customs value; export values are based on f.a.s. value, U.S. port of export. ² This coding system is used by the U.S. International Trade Commission to identify major groupings of HTS import and export items for trade monitoring purposes.