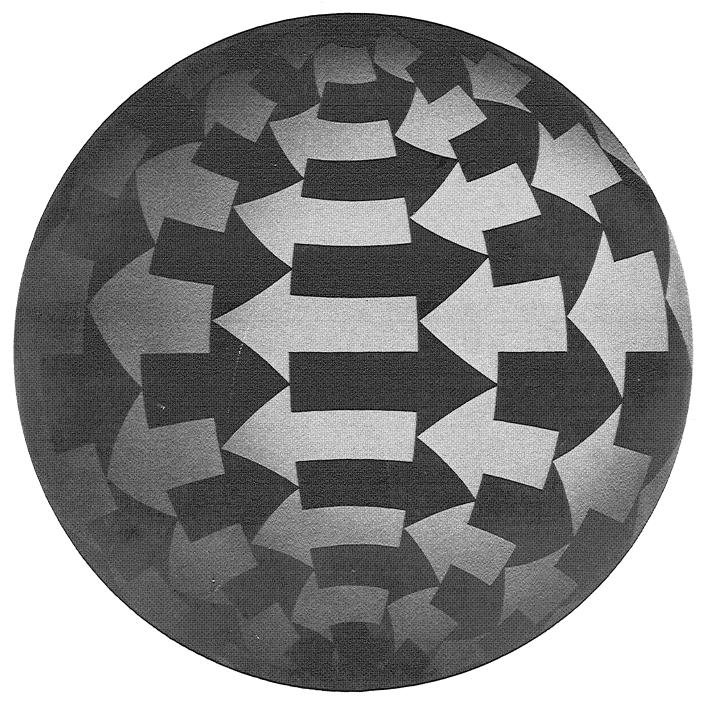
Annual 1982

# U.S. Trade Shifts in Selected Commodity Areas





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# UNITED STATES INTERNATIONAL TRADE COMMISSION

#### COMMISSIONERS

Alfred E. Eckes, Chairman
Paula Stern
Veronica A. Haggart

Kenneth R. Mason, Secretary to the Commission

Prepared by the Office of Industries and the Office of Data Systems

Office of Industries

Norris A. Lynch, Director

MAY 1983

Address all communications to
Office of the Secretary
United States International Trade Commission
Washington, D.C. 20436

This report is a byproduct of the U.S. International Trade Commission's Trade Monitoring Information Support System. This system consists of a comprehensive and standardized data base designed to provide the Commission with the basic data required in its analytical and monitoring responsibilities and to serve as a starting point for more detailed trade analysis. The system improves the Commission's capability to anticipate issues which are of concern in the exercise of its various roles under U.S. trade statutes including monitoring and understanding trade shifts which are likely to affect future trade policy.

The basic components of the system are the tailormade trade tables, which consist of computer-generated import/export tables for key commodity areas or aggregations for which data have not generally been available on a routine, machine-generated basis. The system at present includes over 2,500 key commodity groups composed of one or more individual TSUS items and comparable export classifications.

The tailormade trade tables serve as the vehicle for a Commission trademonitoring or early-warning system, which can alert the Commission to shifts in trade patterns and focus on areas for further Commission study. The tailormade trade tables are automatically tested quarterly and annually by computer against predetermined criteria or "gates" designed to detect aberrant trade behavior. These criteria include significant changes in (1) the value and/or quantity and/or unit value for exports and imports, and (2) the pattern of countries supplying U.S. imports and/or the markets for U.S. exports.

Because of the interest in shifting trade patterns, the Commission, while viewing the system primarily as an internal analytical tool, is making this report available to the concerned congressional committees, the United States Trade Representative, other executive departments, and the public. This report provides brief analyses of significant trade shifts and possible reasons for the shifts for the following sectors:

Agricultural, animal, and vegetable products
Forest products
Textiles, apparel, and footwear
Chemicals, petroleum, natural gas, and related products
Minerals and metals
Machinery and equipment
Miscellaneous manufactures.

Following each sector analysis is a statistical table summarizing trade for the major commodity groups within the sector and a summary of the monitoring gates triggered for the most recent period. Appendix A contains a listing of the specific import and export gates which are currently used in the Commission's system.

Trade data indicating the origin of U.S. imports by country and the market countries for U.S. exports are available for each of the 650 commodity groupings covered in the sector tables. 1/ In addition, the Commission has similar data available on a more detailed product basis within these groupings.

Appendix B contains data for U.S. trade in articles covered by the MTN Civil Aircraft Agreement; appendix C contains data for U.S. trade in motor-vehicle parts and accessories. Both are areas of current interest in U.S. trade policy; and these data are the only comprehensive trade data available for the respective areas.

This issue of <u>U.S. Trade</u> Shifts in <u>Selected Commodity Areas</u> includes estimated data on 1981 domestic consumption, production, employment and import penetration ratios for the approximately 650 commodity groups covered in this report (app. E). These data have been estimated by the Commission's commodity-industry analysts based on primary and secondary data sources including discussions with various Government and industry contacts. These estimated data are subject to change either from future secondary sources or from the detailed surveys the Commission often conducts in the course of its statutory investigations or other work.

<sup>1/</sup> App. D contains an alphabetical index of the commodity groupings covered in the sector tables.

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#### Overview of 1982 U.S. Merchandise Trade

During 1982 the U.S. merchandise trade deficit reached a level of \$32.1 billion, a 13-percent increase over the 1981 deficit of \$28.4 billion and an increase of 46 percent over the 1980 deficit of \$22.0 billion (table 1). 1/On a sector basis, merchandise trade deficits were experienced in 1982 for petroleum, natural gas, and related products (\$59.0 billion), minerals and metals (\$14.5 billion), textiles and apparel (\$4.8 billion), footwear (\$3.3 billion) and forest products (\$0.5 billion). Trade surpluses continued in 1982 for agricultural, animal, and vegetable products (\$18.1 billion), chemicals and related products (\$15.8 billion), machinery and equipment (\$14.9 billion), and miscellaneous manufactures (\$1.2 billion).

The \$3.7 billion increase in the U.S. merchandise trade deficit reflects significant declines in the net U.S. trade position in machinery and equipment, agriculture, textiles, and chemicals, which were in large part offset by an \$18.1 billion decline in the U.S. trade deficit for petroleum, natural gas, and related products. Significant declines in both U.S. exports and imports occurred in 1982, as discussed below.

#### U.S. export developments

U.S. exports declined to \$204.5 billion in 1982, a decrease of 9 percent from the 1981 level. The decline in U.S. exports is generally attributed to recessions abroad and the stronger U.S. dollar making U.S. exports less competitive in foreign markets. Major changes in the value of U.S. exports occurred in 1981 in a number of specific commodity areas within the major industrial sectors.

In the agricultural sector, U.S. exports of sugar fell by \$483 million in 1982 due partly to the high price of U.S. sugar relative to the world price. U.S. exports of grain were \$13.4 billion in 1982, down 25 percent from 1981, reflecting the worldwide recession, the general situation of oversupply of grain and resulting low prices, and the strength of the U.S. dollar.

In the forest products sector, U.S. exports of paper and printed matter declined by \$0.6 billion with the greatest declines in chemical wood pulp used for the manufacture of packaging.

<sup>1/</sup> The trade data provided in this report are based on trade in schedules 1 through 7 of the Tariff Schedules of the United States (imports) and Schedule B (exports); trade under schedule 8 and other special provisions is not included. In 1982, imports in the excluded provisions amounted to \$5.8 billion and exports amounted to \$2.7 billion. Import values used in the report are based on customs value; export values are based on f.a.s. value, U.S. port of export.

Iable 1.--U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by major cosmodity sectors, 1980, 1981, and 1982  $\underline{1}/$ 

TH THORES	(In thousands of dollars)		
Item 2/	1980	1981	1982
	••	••	
••	••	••	
Agricultural, animal, and vegetable products	40,732,884 :	43.679.477	37,141,668
Forest products:	9,608,788 :	9.217.577	8.482.079
Textiles and apparel:	8,713,978 :	8,207,461 :	6,519,283
FOOTWORK	130,765 :	140,564 :	119.579
Petroleum, natural gas, and related products:	2,328,958 :	3,193,054 :	5.716.850
Chemicals and related products	29,003,717	30,749,127	29.173.819
Minerals and metals:	25,089,793 :	19,953,230 :	14,759,960
Machinery and equipment	84,306,921 :	95,536,029 :	87,291,151
Miscellaneous manufactures	13,720,391 :	14,893,751 :	15,290,409
Total	213,636,200:	225,570,275 :	204,494,803
U.S. imports for consumption:	••	••	
Agricultural, animal, and vegetable products	20,022,617 :	20,260,723 :	19,037,957
Forest products:	9,251,856:	9,647,202 :	9,020,612
Textiles and apparel:	9,082,231 :	10,843,122 :	11,270,161
Footwerr:	2,957,081 :	3,141,218:	3,433,638
Petroleum, natural gas, and related products	78,376,835 :	80,337,109 :	64,721,415
Chemicals and related products	12,490,363 :	13,506,035 :	13,340,607
Minerals and metals	31,750,921 :	34,386,404 :	29,246,777
Machinery and equipment:	60,078,120 :	68,542,029 :	72,360,071
Miscellaneous manufactures	11,583,188 :	13,297,782 :	14,132,986
Total:	235,593,216 :	253,961,628 :	236,564,228
	••	••	
Agricultural, animal, and vegetable products:	20,710,267 :	23,418,753 :	18,103,711
Forest products:	356,931 :	-429,624 :	-538,532
Textiles and apparel:	-368,252 :	-2,635,660 :	-4,750,878
100 LWG I	-2,826,315 :	-3,000,654 :	-3,314,058
Petroleum, natural gas, and related products:	-76,047,877 :	-77,144,054 :	-59,004,564
Chemicals and related products	16,513,354 :	17,243,092 :	15,833,212
Minerals and metals:	-6,661,127 :	-14,433,174 :	-14,486,816
Machinery and equipment:	24,228,800 :	26,993,999 :	14,931,079
Miscellaneous manufactures	2,137,202 :	1,595,969 :	1,157,423
10tal	-21,957,015 :	-28,391,353 :	-32,069,425
	••		

1/ Import values are based on Customs value; export values are based on f.a.s. value, U.S. port of export.
2/ The product coverage of each of the sectors presented is identified (in terms of the Tariff Schedules of the United States) later in this report on the first page of the textual analysis for each sector.

In the textiles, apparel, and footwear sector, U.S. exports of fibers and textile mill products dropped 20 percent from \$7.0 billion in 1981 to \$5.6 billion in 1982, primarily in the areas of raw fibers, spun and filament yarns, broadwoven fabrics, and home furnishings.

In the chemicals and energy sectors, U.S. exports of petroleum products more than doubled between 1981 and 1982, rising from \$2.2 billion to \$4.8 billion. At least part of this increase resulted from the lifting of U.S. export controls on petroleum products late in 1981. Exports of fertilizers were down 9 percent from \$2.7 billion in 1981 to \$2.3 billion in 1982.

In the minerals and metals sector, U.S. exports of gold bullion decreased by \$1.9 billion to a level of \$591 million in 1982. Depressed prices and curtailed domestic production were behind the decrease.

In the machinery and equipment sector, U.S. exports of office machines increased from \$9.7 billion in 1981 to \$10.1 billion in 1982, as the United States continues to be a leader in technology and production. U.S. exports of automobiles dropped from \$4.0 billion in 1981 to \$2.9 billion in 1982, with exports to every major U.S. export market declining. U.S. exports of new civil airplanes decreased from 3,325 units in 1981 to 1,320 units in 1982; the value of these exports fell 45 percent to \$4.6 billion in 1982. Exports of motor-vehicle parts and accessories decreased from \$11.3 billion in 1981 to \$10.6 billion in 1982 as exports to Mexico's assembly plants dropped because of the economic recession in Mexico.

#### U.S. import developments

U.S. imports decreased to \$236.6 billion in 1982, a drop of 7 percent from the 1981 level, reflecting the continued slow U.S. economy in 1982 and in particular a \$15.6 billion decline in U.S. imports of petroleum, natural gas, and related products. There were significant changes in 1982 in the value of U.S. imports for specific commodity groups in the various sectors.

In the agricultural sector, U.S. imports of raw sugar fell by \$1.4 billion to a level of \$0.8 billion in 1982 as world sugar prices fell and U.S. imports of sugar were limited beginning in May 1982 by quota and import fees.

In the textiles, apparel, and footwear sector, U.S. imports of apparel increased by approximately \$0.7 billion in 1982, with most of the increased imports coming from Hong Kong, Taiwan, the Republic of Korea, and China. Imports of nonrubber footwear rose by \$603 million to a level of \$3.1 billion in 1982 following the expiration of the 4-year orderly marketing agreements with Taiwan and Korea in June 1981 and the repeal of the American selling price method of customs valuation.

In the chemicals and energy sectors, U.S. imports of crude petroleum decreased by 26 percent from \$61.5 billion in 1981 to \$45.7 billion in 1982. The decrease was a direct result of the decrease in U.S. consumption and lower import unit values (\$35.10 per barrel in 1981 compared with \$32.27 per barrel in 1982).

In the minerals and metals sector, U.S. imports of steel mill products in 1982 amounted to \$9.0 billion, a decrease of \$1.3 billion from 1981, with imports dropping in pipe and tubing, steel plates, structural shapes, and steel sheet and strip. U.S. imports of iron ore dropped from \$948 million in 1981 to \$497 million in 1982 as demand from the steel industry declined. Imports of precious metals were valued at \$3.4 billion in 1982, representing a decrease of \$632 million from the \$4.0 billion imported during 1981. This decline reflects import decreases in platinum group metals, gold bullion, and silver bullion as trade in these metals slowed with price declines. Imports of nickel ore and metal declined by \$466 million to \$687 million in 1982, reflecting depressed market conditions and worldwide production cutbacks.

In the machinery and equipment sector, U.S. imports of office machines increased from \$3.5 billion in 1981 to \$4.2 billion in 1982, in large part due to increased U.S. demand for small computers from Japan. U.S. imports of semiconductors were valued at \$4.2 billion in 1982, or 16 percent higher than in 1981, as imports of Japanese computer-memory devices escalated and U.S. producers continued to operate assembly plants in developing countries. U.S. imports of passenger automobiles increased from \$18.0 billion in 1981 to \$20.5 billion in 1982, or 13.9 percent, and the number of units rose from 3.0 million units in 1981 to 3.1 million in 1982, or 3.3 percent. The average unit value of automobiles increased from about \$6,000 in 1981 to about \$6,600 in 1982, or 10 percent. U.S. imports of motor vehicles and accessories increased from \$8.5 billion in 1981 to \$9.1 billion in 1982.

In the miscellaneous manufactures sector, U.S. imports of watches, clocks, and clockwork-operated devices declined from \$1.3 billion in 1981 to \$993 million in 1982. Intense price competition in the low end of the watch market contributed significantly to the decline. Imports of game machines in 1982 advanced by 70 percent over those in 1981, from \$561 million to \$955 million, a combination of the increased popularity of a particular Japanese-made arcade game and the shifting of domestic manufacturing to Hong Kong and Taiwan.

#### U.S. bilateral trade

The United States experienced significant changes in net trade balances during 1982 with Canada, the European Community (EC), Mexico, and the Organization of Petroleum Exporting Countries (OPEC) nations (table 2). The U.S. deficit with Canada rose by \$5.7 billion in 1982 to a level of \$12.8 billion, almost entirely accounted for by trade shifts in the machinery and equipment sector. The U.S. trade surplus with the EC dropped by \$5.5 billion in 1982 to a level of \$4.5 billion, with particularly noticeable declines in U.S. exports of aircraft and gold bullion. The U.S. trade balance with Mexico went from a surplus of \$3.7 billion in 1981 to a deficit of \$4.2 billion in 1982, with petroleum imports rising and exports of grains and machinery and equipment falling. The U.S. deficit with OPEC dropped by \$17.8 billion in 1982 to \$10.7 billion as petroleum imports dropped.

Table 2.--All merchandise sectors: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1980, 1981, and 1982  $\underline{1}/\underline{2}/$ 

	: 1980	1861	1982
U.S. exports of domestic merchandias:		••	
Canada	33.035.003	37.037.449	31 564 006
Japannapasc	20,399,305	21,250,771	30,364,000
RC	52,623,115 :	50.192.409	45,271,011 A5,371,243
Brazi1	4,276,179 :	3,718,189 :	3.352.603
Hong Kong	2,535,569 :	2,477,508 :	2,273,338
Ind 18	1,639,539 :	1,705,591 :	1,555,184
Koreannennennennennennennennennennennennenn	4,378,875 :	4,978,384 :	5,308,687
Mexico	14,584,019 :	16,982,986 :	10,858,344
Taivan	.: 4,165,333 :	4,121,402 :	4.073.154
OPEC	16,817,632 :	20,518,322 :	20.206.134
NES	.: 7,618,252 :	7,835,896 :	6.448.690
Ching	3,747,918 :	3,596,687 :	2.902.418
All Other	51,563,374 :	54,751,363 :	53,188,397
Total	213,636,200:	225,570,275 :	204,494,803
U.S. imports for consumption:	••	••	
Canada	39,417,364 :	44,091,765	44,411,018
Japan	-: 30,413,787 :	37,216,679 :	37,045,610
EC	.: 35,342,775 :	40,131,743 :	40,835,804
Brazil	.: 3,643,630 :	4,284,307 :	4,113,756
Hong Kong	4,504,427 :	5,191,799 :	5,392,568
Ind18	1,059,157 :	1,194,440 :	1,390,406
KOrea	4,186,055 :	5,133,514 :	5,600,736
Hex1co	.: .12,158,675 :	13,260,717 :	15,037,527
ISINSh	.: 6,815,660 :	8,001,601 :	8,797,619
UPEC	.: 51,855,038 :	48,985,497 :	30,917,991
NRS	2,433,924	3,371,238 :	3,249,167
China	1,036,263 :	1,824,190 :	2,194,707
AII Uther	.: 43,762,717 :	43,098,323	39,772,021
Total	.: 235,593,216 :	253,961,628 :	236,564,228
U.S. merchandise trade balance:	••	••	•
Canada	.: -6,382,360 :	-7,054,316:	-12,847,011
Japan	.: -10,014,482 :	-15,965,908:	-16,750,593
KC	17,280,339 :	10,060,665 :	4,535,438
878211	. 632,549 :	-566,118 :	-761,152
Hong Kong	.: -1,968,858 :	-2,714,290 :	-3,119,229
Ind18	. 580,381 :	511,151 :	164,777
KOT68	192,819 :	-155,130 :	-292,049
Hex1co	2,425,343 :	3,722,269 :	-4,179,182
ISINSH	.: -2,650,326 :	-3,880,198 :	-4,724,464
OPEC	.: -35,037,405 :	-28,467,174 :	-10,711,857
NRS	.: 5,184,328 :	4,464,658 :	3,199,523
Ching	.: 2,711,654 :	1,772,496 :	707,711
All other	7,800,657	11,653,039 :	13,416,376
Total	-21,957,015 :	-28,391,353 :	-32,069,425

The continuing U.S. trade deficit stems in part from the appreciation of the U.S. dollar in 1982 relative to other major currencies. The International Monetary Fund's weighted average foreign currency value of the U.S. dollar was up 12 percent in 1982 from the 1981 level. This increase suggests a continuing decrease in U.S. competitiveness in export markets. The appreciation of the U.S. dollar relative to other major currencies is shown in the following tabulation (average currency units per U.S. dollar):

	1981	1982	Percentage change
Yen (Japan)	220.54	249.05	13
Pound (United Kingdom)	. 4972	. 5723	15
Franc (France)	5.4346	6.5724	21
Dollar (Canada)	1.1989	1.2337	3
Lira (Italy)	1136.77	1352.50	19
Mark (West Germany)	2.2600	2.4266	7

U.S. bilateral trade balances with certain major trading partners are discussed below.

<u>Canada</u>.—The U.S. merchandise trade deficit with Canada in 1982 was \$12.8 billion, reflecting U.S. imports of \$44.4 billion and exports of \$31.6 billion. The 1982 trade deficit represented an 82-percent increase over the 1981 deficit following an 11-percent increase between 1980 and 1981 from \$6.4 billion to \$7.1 billion. On a sector basis, the largest deficits are seen in the forest products sector (\$5.6 billion in 1982), in the petroleum, natural gas, and related products sector (\$7.1 billion in 1982), and in the minerals and metals sector (\$2.4 billion in 1982), reflecting high U.S. imports of softwood lumber, natural gas, petroleum, and various metals and metal products. Significant trade surpluses with Canada have consistently appeared in the machinery and equipment sector (\$805 million in 1982), reflecting U.S. exports of motor vehicles, various machinery, machine tools, and aircraft.

Japan.—The U.S. merchandise trade deficit with Japan in 1982 was \$16.8 billion, reflecting U.S. imports of \$37.0 billion and exports of \$20.3 billion. The 1982 trade deficit represented a 5-percent increase over the 1981 deficit, following a 59-percent increase between 1980 and 1981 from \$10.0 billion to \$16.0 billion. On a sector basis, high deficits are consistently seen in the machinery and equipment sector (\$21.3 billion in 1982) and in the minerals and metals sector (\$4.3 billion in 1982), reflecting high U.S. imports in passenger automobiles, radiotelegraphic and radiotelephonic apparatus, office machines, and iron and steel mill products. Large trade surpluses with Japan have consistently appeared in the agricultural sector (\$5.4 billion in 1982) and the chemicals sector (\$3.0 billion in 1982), reflecting U.S. exports of grains, soybeans, meat and fish, coal, uranium, and various chemical compounds.

European Community.—The U.S. merchandise trade surplus with the EC in 1982 was \$4.5 billion, reflecting U.S. imports of \$40.8 billion and exports of \$45.4 billion. The 1982 trade surplus represented a 55-percent decrease from the 1981 surplus following a 42-percent decrease between 1980 and 1981 from \$17.3 billion to \$10.1 billion. On a sector basis, the largest deficits are seen in the petroleum sector (\$5.4 billion in 1982) and in the minerals and metals sector (\$3.4 billion in 1982), reflecting high U.S. imports in petroleum and petroleum products and iron and steel mill products. The largest trade surpluses with the EC have consistently appeared in the agriculture sector (\$5.4 billion in 1982), the chemicals sector (\$3.8 billion in 1982), and the machinery and equipment sector (\$2.8 billion in 1982), reflecting U.S. exports of oilseeds, animal feeds, grains, woodpulp, paperboard, certain commodity chemicals, and aircraft.

Brazil.—The U.S. merchandise trade deficit with Brazil in 1982 was \$761 million, reflecting U.S. imports of \$4.1 billion and exports of \$3.4 billion. The 1982 trade deficit represented a 34-percent increase over the 1981 deficit of \$566 million following a trade surplus of \$633 million in 1980. On a sector basis, the largest deficits were seen in the agriculture sector (\$1.1 billion in 1982) and the petroleum sector (\$566 million in 1982), reflecting U.S. imports of coffee, fruit juices, cocoa and confectioneries, sugar, shellfish, and petroleum and petroleum products. The largest trade surpluses with Brazil appeared in the chemicals sector (\$717 million in 1982) and the machinery and equipment sector (\$945 million in 1982), reflecting U.S. exports of coal, fertilizers, earth-moving machines, office machines, and aircraft.

Hong Kong.—The U.S. merchandise trade deficit with Hong Kong in 1982 was \$3.1 billion, reflecting U.S. imports of \$5.4 billion and exports of \$2.3 billion. The 1982 trade deficit represented a 15-percent increase over the 1981 deficit following a 38-percent increase between 1980 and 1981 from \$2.0 billion to \$2.7 billion. On a sector basis, the largest deficits are seen in the textiles and apparel sector (\$2.0 billion in 1982) and in the miscellaneous manufactures sector (\$1.1 billion in 1982), reflecting U.S. imports in apparel, footwear, dolls, toys, games, and horological devices. The largest trade surpluses with Hong Kong appeared in the agriculture sector (\$376 million in 1982) and the chemicals sector (\$226 million in 1982), reflecting U.S. exports of tobacco and tobacco products, fresh fruit, poultry, and fabricated rubber and plastics products.

India.—The U.S. merchandise trade surplus with India in 1982 was \$165 million, reflecting U.S. imports of \$1.4 billion and exports of \$1.6 billion. The 1982 trade surplus represented a 68-percent decrease from the 1981 surplus following a 12-percent decrease between 1980 and 1981 from \$580 million to \$511 million. On a sector basis, the largest deficits are seen in the textiles and apparel sector (\$296 million in 1982) and in the petroleum sector (\$306 million in 1982), reflecting high U.S. imports in cotton apparel, woven fabrics, and crude petroleum. The most significant trade surplus with India appeared in the machinery and equipment sector (\$600 million in 1982), reflecting U.S. exports of aircraft and parts and motor vehicles and parts.

<u>Korea.</u>—The U.S. merchandise trade deficit with Korea in 1982 was \$292 million, compared with a deficit of \$155 million in 1981 and a surplus of \$193 million in 1980. U.S. imports in 1982 were \$5.6 billion, compared with exports of \$5.3 billion. On a sector basis, the largest deficits appear in the textiles and apparel sector (\$1.1 billion in 1982) and the footwear sector (\$744 million in 1982), reflecting U.S. imports of wearing apparel and footwear, particularly nonrubber footwear. The largest U.S. surplus appears in the agricultural sector (\$1.1 billion in 1982) where U.S. exports of grains, cattle hides, and soybeans were large.

Mexico.—The U.S. merchandise trade deficit with Mexico in 1982 was \$4.2 billion, reflecting U.S. imports of \$15.0 billion and exports of \$10.9 billion. The 1982 trade deficit followed 1981 and 1980 surpluses of \$3.7 billion and \$2.4 billion, respectively. On a sector basis, the major deficit is seen in the petroleum sector (\$7.4 billion in 1982), reflecting high U.S. imports of crude petroleum. The largest trade surplus with Mexico is in the machinery and equipment sector (\$2.4 billion in 1982), reflecting U.S. exports of motor vehicles and parts; lifting, handling, and earthmoving machinery; metalworking machine tools; and office machine parts.

Taiwan.—The U.S. merchandise trade deficit with Taiwan in 1982 was \$4.7 billion, reflecting U.S. imports of \$8.8 billion and exports of \$4.1 billion. The 1982 trade deficit represented a 22-percent increase over the 1981 deficit following a 46 percent increase between 1980 and 1981 from \$2.7 billion to \$3.9 billion. On a sector basis, the largest deficits are seen in the textiles and apparel sector (\$2.4 billion in 1982) and in the miscellaneous manufactures sector (\$1.8 billion in 1982), reflecting high U.S. imports of apparel, footwear, furniture, dolls and toys, and games. The largest trade surplus with Taiwan appeared in the agriculture sector (\$713 million in 1982), reflecting U.S. exports of grains and oilseeds.

OPEC.—The U.S. merchandise trade deficit with OPEC in 1982 was \$10.7 billion, reflecting U.S. imports of \$30.9 billion and exports of \$20.2 billion. The 1982 trade deficit represented a 62-percent decrease from the 1981 deficit following a 19-percent decrease between 1980 and 1981 from \$35.0 billion to \$28.5 billion. On a sector basis, the only deficit was in the petroleum sector (\$29.1 billion in 1982), reflecting high U.S. crude petroleum imports. The major trade surplus with OPEC appeared in the machinery and equipment sector (\$11.4 billion in 1982), reflecting U.S. exports of motor vehicles and parts, earthmoving machinery, and aircraft.

Nonmarket economy countries (NME's). 1/--The U.S. merchandise trade surplus with all NMEs in 1982 was \$3.2 billion, reflecting U.S. imports of \$3.2 billion and exports of \$6.4 billion. The 1982 trade surplus represented a 28-percent decrease from the 1981 surplus following a 14-percent decrease

<sup>1/</sup> The NME's include Albania, Bulgaria, Cuba, Czechoslovakia, East Germany, Estonia, North Korea, the U.S.S.R., Latvia, Lithuania, Mongolia, Hungary, China, Poland, Romania, Kampuchea, Laos, and Vietnam.

between 1980 and 1981 from \$5.2 billion to \$4.5 billion. On a sector basis, the largest deficits are seen in the textiles and apparel sector (\$572 million in 1982) and in the petroleum sector (\$632 million in 1982), reflecting high U.S. imports of apparel, broadwoven fabrics, textile household furnishings, petroleum, and petroleum products. The largest trade surplus with the NME's appeared in the agriculture sector (\$3.5 billion in 1982), reflecting U.S. exports of grains, oilseeds, animal and vegetable oils, and hides.

The U.S. merchandise trade surplus in 1982 with China, a major NME, was \$707 million, reflecting U.S. imports of \$2.2 billion and exports of \$2.9 billion. The 1982 trade surplus represented a 60-percent decrease from the 1981 surplus following a 35-percent decrease between 1980 and 1981 from \$2.7 billion to \$1.8 billion. On a sector basis, the largest deficits are seen in the petroleum sector (\$580 million in 1982) and in the textiles and apparel sector (\$448 million in 1982), reflecting U.S. imports of petroleum, petroleum products, apparel, broadwoven fabrics, and textiles household furnishings. The largest trade surplus with China appeared in the agriculture sector (\$1.2 billion in 1982), reflecting U.S. exports of grains, leather, and oilseeds.

ANALYSES OF TRADE SHIFTS, BY SECTORS

3

### Agricultural, Animal, and Vegetable Products 1/

In 1982, the United States had a favorable balance of trade in agricultural, animal, and vegetable products of \$18.1 billion, compared with \$23.4 billion in 1981 (table 3, fig. 1). Between the 2 years, exports dropped from \$43.7 billion to \$37.1 billion and imports declined from \$20.3 billion to \$19.0 billion. The decline in the U.S. trade surplus reflects the general decline in worldwide economic activity and a strong U.S. dollar.

The value of U.S. exports of sugar, oilseeds and oilseed products, citrus fruit, wrapper tobacco, grain, dried vegetables, dried fruit, pork, furskins, poultry, eggs, and shellfish declined significantly between 1981 and 1982 as did the value of imports of sugar and cocoa. The value of imports of fruit juice, dried fruit, live cattle, pork, canned tuna, and shellfish and exports of butter and beef increased significantly between 1981 and 1982.

#### U.S. bilateral trade

U.S. agricultural trade covers a large number of foreign market and supplier countries. However, only a small number of these markets or countries account for the major part of the trade. In 1982, seven markets took about two-thirds of U.S. exports of agricultural products and four suppliers accounted for nearly one-half of U.S. imports of such products. The major export markets in 1981 and 1982 were the European Community (EC), Japan, nonmarket economy countries (NME's), members of the Organization of Petroleum Exporting Countries (OPEC), Canada, Korea, and Mexico. Major sources of farm product imports were the EC, Canada, Mexico, and Brazil. Between 1981 and 1982 significant declines occurred in U.S. farm exports to Mexico, Japan, the EC, and the NME's. During the same period, imports of agricultural products from Brazil registered a significant decline, and imports from Canada rose substantially. The following discussion presents U.S. bilateral trade information covering selected trading partners of the United States.

<u>Canada</u>.—The United States was a net importer of agricultural products from Canada in 1981 and 1982. The U.S. trade deficit with Canada in agricultural products increased from \$182 million to \$587 million. The increase reflects a 7-percent decline in exports to \$1.9 billion and an 11-percent increase in imports to \$2.5 billion.

The major agricultural products exported from the United States to Canada were fresh fruits and vegetables, animal feeds, and fruit juices; in 1982, these four commodity groups accounted for nearly 40 percent of total farm exports to that market. Fresh or frozen fish, meat except poultry, distilled spirits, live animals, and shellfish accounted for nearly two-thirds of the agricultural products imported from Canada in 1982.

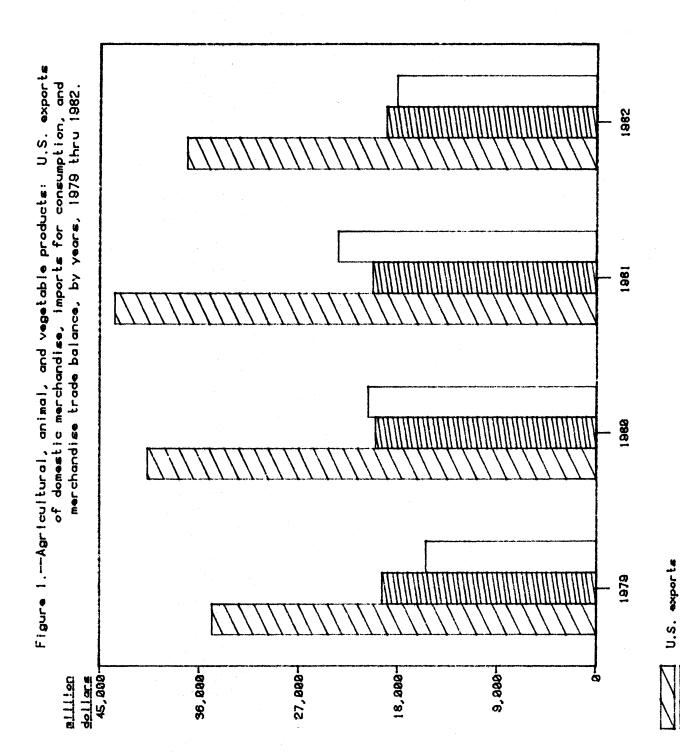
Significant shifts in U.S.-Canadian agricultural trade between 1981 and 1982 occurred in U.S. exports of corn and in U.S. imports of cattle, swine, and fresh, chilled, or frozen pork. U.S. exports of corn fell from \$78 million in 1981 to \$38 million in 1982, primarily because of large supplies 3 of

<sup>1</sup>/ Included here are the commodities classified in schedule 1 of the Tariff Schedules of the United States: Animal and vegetable products.

Table 3.--Agricultural, animal, and vegetable products: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groupse 1980, 1981, and 1982 1/2/

te of domestic merchandise:    1,944,337   2,002,634		: 0961	1981	1982
1,944,337   2,082,634     6,086,170   9,643,572     6,086,177   9,643,572     6,086,177   9,643,572     1,316,915   1,597,334     1,316,915   1,597,334     1,316,915   1,597,334     2,130,444   1,597,334     4,388,760   4,745,264     1,527,340   1,557,444     1,527,340   1,557,444     1,527,340   1,557,444     1,527,340   1,557,444     1,527,340   1,557,444     1,527,340   1,557,444     1,527,340   1,557,444     1,527,340   1,557,444     1,527,340   1,557,444     1,527,340   1,557,444     1,527,340   1,527,340     1,527,340   1,527,340     1,527,340   1,527,340     1,527,340   1,527,340     1,527,340   1,527,340     1,527,340   1,547,244     1,527,340   1,547,244     1,481,199   1,481,716     1,481,199   1,481,716     1,481,717   1,507,540     1,441,719   1,481,717     1,481,719   1,481,710     1,481,710   1,481,710     1,481,70   1,481,710     1,481,70   1,481,70     1,481,70   1,481,70     1,481,70   1,481,70     1,481,70   1,481,70     1,481,70   1,481,70     1,481,70   1,481,70     1,481,70   1,481,70     1,481,70   1,481,70     1,481,70   1,481,70     1,481,70   1,481,70     1,481,70   1,481,70     1,481,70   1,481,70     1,481,70   1,48		••	••	
1,944,337 ; 2,085,544 ; 6,005,170 ; 6,695,944 ; 7,005,170 ; 6,695,944 ; 7,005,170 ; 7,00		••	••	
6,006,170; 6,666,964;  9,641,277; 9,493,572;  91,1732; 443,402;  91,172; 1,236,733; 1,537,334;  91,172; 1,236,733; 1,237,334;  91,172; 1,236,733; 1,237,334;  91,172; 1,039,222; 1,039; 1,137,488;  91,133,130; 1,237,431;  91,133,130; 1,237,431;  91,133,130; 1,237,431;  91,133,130; 1,337,431;  91,134,1399; 1,134,139;  91,139; 1,231,139; 1,200,572;  91,134; 1,399; 1,129; 1,209; 1,2	Canada	1,944,337 :	2,082,634 :	1,928,130
9, 641,577; 9, 439,572; 116,409; 116,409; 116,409; 116,409; 117,132; 117,132; 143,402; 117,132; 117,132; 117,132; 117,132; 117,132; 117,132; 117,132; 117,132; 117,132; 117,132; 117,132; 117,134; 117,13	Japan	6,036,170 :	6,696,964	5.717.126
964,537       116,409         396,753       416,409         1,386,915       1,587,334         2,303,633       2,460,025         911,772       1,053,238         1,587,334       1,053,238         4,388,760       4,745,264         1,587,349       1,587,494         4,072,884       4,367,443         4,072,884       4,367,441         303,336       31,046         1,950,670       2,264,411         2,803,810       3,133,643         2,803,810       3,133,643         2,104,053       2,104         2,104,053       3,133,643         2,104,053       3,133,643         2,104,053       3,133,643         3,131,641       3,131,641         4,07,25,884       43,679,477         4,07,157,884       43,679,477         2,104,053       2,131         4,104,053       2,131         4,104,053       2,131         5,104       3,131,641         1,104       3,17,188         1,104       3,17,188         2,107       3,109         3,100       3,100         4,105       3,100         4,107 </td <td>*C</td> <td>9,641,277 :</td> <td>9,493,572 :</td> <td>8.622.846</td>	*C	9,641,277 :	9,493,572 :	8.622.846
316,733	Brazi1:	684,537 :	716,409 :	527,389
1,386,915   1,597,334   1,596,915   1,597,334   1,59	long Kong	396,753 :	443.402 :	436,112
1,386,915   1,597,334   1,597,334   1,503,025   1,053,028   1,053,028   1,053,028   1,053,028   1,053,028   1,053,028   1,053,028   1,057,038   1,057,038   1,05	;	317.332 :	475.864	250 7
2, 500, 633	(orea	1.386,915	1.597.334	
911,772       1,033,228         4,388,760       1,557,244         1,557,220       1,557,244         1,557,220       1,557,443         1,557,220       1,557,443         1,557,220       1,557,441         1,557,220       1,557,441         1,557,220       1,557,443         1,557,220       1,557,443         1,557,244       1,557,443         2,603,810       2,264,411         2,603,810       3,103,643         2,603,810       3,103,643         115,770       137,131         21,104       37,131         21,104       37,131         21,104       37,131         21,104       37,131         21,104       37,131         21,104       31,138         21,104       31,139         31,398       300,256         31,398       300,256         31,316       46,357         46,327       46,335,138         46,327       4,205,007         46,277       1,419,116         47,958       1,211,145         47,958       1,211,145         47,05,007       1,499,865         47,05,007 <t< td=""><td></td><td>2 502 633 .</td><td>2 440 035 .</td><td>,</td></t<>		2 502 633 .	2 440 035 .	,
2,707,174 3,377,343 4,438,760 1,437,343 1,438,760 1,437,343 1,437,344 1,537,		. 000,000,	1 053 238	1,100,00
4,388,160       4,745,264         1,557,320       1,557,494         1,557,320       1,557,494         1,557,320       1,557,494         1,557,320       1,557,494         1,557,320       1,557,494         1,557,320       1,557,494         1,557,320       1,557,494         1,557,320       1,557,494         1,557,494       1,557,494         1,557,320       1,557,494         2,803,810       2,264,411         303,331       311,046         2,803,810       3,103,643         2,803,810       3,103,643         1,577       1,451,999         1,451,999       1,481,116         2,17,019       2,11,123         399,891       2,60,725         1,451,932       9,000,573         2,000,573       300,129         2,000,573       300,129         399,494,932       9,000,573         2,000,573       2,000,573         2,000,573       1,419,516         2,000,573       1,419,716         2,000,573       1,419,716         2,000,573       1,419,716         3,91,44       1,556         3,91,44       1,556		: 7/1,114	L,033,228 :	962,520
4, 381, 50         4, 74, 254           1, 557, 320         1, 557, 494           9, 813, 978         10, 537, 494           1, 950, 670         2, 264, 411           2, 803, 336         31, 046           2, 104, 053         2, 264, 411           2, 803, 316         3, 103, 643           2, 104, 053         2, 104, 053           2, 104, 053         2, 037, 970           2, 104, 053         2, 037, 970           2, 104, 053         2, 037, 970           2, 104, 053         3, 103, 643           2, 104, 053         2, 037, 131           115, 770         327, 131           2, 104, 053         3, 1, 123           2, 104, 053         3, 1, 123           2, 104, 053         3, 1, 123           2, 104, 053         3, 1, 123           3, 1, 13         3, 1, 123           3, 1, 13         3, 1, 123           4, 494, 322         9, 000, 573           1, 419, 316         -1, 81, 777           5, 732, 834         6, 389, 918           6, 837, 467         6, 389, 928           1, 2, 11, 148, 716         -1, 321, 560           1, 2, 11, 148         1, 148, 716           1, 2, 11, 148         1, 148, 7		2,/0/,414 :	3,3//,343 :	2,685,765
1,557,320 : 1,557,494 :     60,732,844	;	4,388,760 :	4,745,264 :	3,887,1
9,813,978         10,537,433           1,950,670         2,264,411           2,803,336         31,1046           2,803,336         31,1046           2,104,053         2,013,900           2,104,053         2,013,900           2,104,053         2,013,900           2,104,053         2,013,900           115,770         137,488           1,481,716         219,123           209,891         540,256           391,398         540,256           391,398         540,256           391,398         540,256           301,299         1,481,716           391,398         540,256           391,398         540,256           391,398         540,256           391,398         540,256           391,398         540,256           4,832         6,389,228           4,833         6,389,228           4,833         6,389,228           4,831,405         1,459,845           1,211,445         1,459,845           1,211,445         1,459,845           1,211,445         1,459,845           1,211,445         1,459,845           1,211,445         1,459,845 </td <td>China:</td> <td>1,557,320 :</td> <td>1,557,494 :</td> <td>1,386,054</td>	China:	1,557,320 :	1,557,494 :	1,386,054
40,732,884 :         43,679,477 :         3           1,950,670 :         2,264,411 :         3           303,336 :         3,103,643 :         311,046 :           2,104,053 :         2,037,970 :         69,793 :           2,104,053 :         2,037,970 :         69,793 :           115,770 :         137,88 :         115,78 :           217,019 :         219,123 :         219,123 :           391,398 :         301,129 :         240,256 :           116,753 :         9,404,932 :         9,400,256 :           116,753 :         9,404,932 :         9,400,256 :           116,753 :         9,404,932 :         9,406,256 :           116,753 :         9,404,932 :         9,406,256 :           116,753 :         11,77 :         181,77 :           6,837,41 :         1,21,560 :         -           1,419,516 :         1,321,560 :         -           1,419,516 :         1,321,560 :         -           1,419,516 :         1,321,560 :         -           1,419,516 :         1,321,560 :         -           1,419,516 :         1,419,516 :         1,419,616 :           1,419,522 :         2,609,773 :         1,419,161 :           1,419,522 :	.11 Other	9,813,978 :	10,537,433	6,609.6
1,950,670 : 2,264,411 : 303,336 : 311,046 : 31	Total	40.732.884 :	43.679.477	37.161.6
1,950,670 2,264,411 3 11,046 3 311,0	: imports for consumption:	•••	•	
303,336       311,046         2,803,810       3,103,643         2,104,053       2,037,910         2,104,053       2,037,910         2,104,053       2,037,910         2,104       327,131         115,770       137,488         115,770       1,481,716         217,019       1,481,716         391,998       767,567         391,998       767,567         391,398       540,526         394,932       9,000,573         116,753       9,000,573         20,022,617       20,260,723         20,022,617       20,260,723         1,31,467       6,385,918         6,837,467       6,385,918         6,837,467       6,389,928         1,48,732       1,48,732         1,21,463       1,48,732         1,21,44       1,48,732         1,21,43       1,48,732         1,21,43       1,48,732         1,21,43       1,495,86         1,21,43       1,495,86         1,221,560       1,495,86         1,21,43       1,495,86         1,221,60       1,496,75         1,321,60       1,560         1,494,	'anada	1.950.670 :	2.264.411 :	2,515,3
2,003,810       3,103,643         2,104,053       2,031,970         58,629       66,793         28,629       327,131         115,770       137,488         115,770       13,488         115,770       13,488         115,770       13,488         116,753       219,123         116,753       909,891       76,567         391,398       540,256         116,753       900,573         116,753       900,573         116,753       900,573         116,753       900,573         116,753       900,573         116,753       900,573         116,753       900,573         116,753       900,573         116,753       900,573         11,777       14,777         11,211,48       14,59,485         11,211,445       14,59,485         11,7145       14,59,485         11,7145       14,59,485         11,7145       14,59,485         11,7145       14,59,485         11,7145       14,59,485         11,7145       14,59,485         11,7147       14,536         11,7147	1808)	. AFF FOF	311 066 .	4 4 6 6
21,04,053       2,033,970         58,629       69,793         221,104       327,131         115,770       137,488         11,41,116       219,123         909,891       767,567         391,398       540,256         116,753       9,000,573         116,732       9,000,573         116,734       6,385,918         6,837,467       6,385,928         149,516       -1,321,560         1,419,516       -1,321,560         1,419,516       -1,321,560         1,419,516       1,458,45         1,511,445       1,458,45         1,511,445       1,458,405         1,511,445       1,458,405         1,511,45       1,458,405         1,511,45       1,458,405         1,511,45       1,458,405         1,511,45       1,458,405         1,511,45       1,458,405         1,511,45       1,458,405         1,511,45       1,556,607         1,511,45       1,556,607         1,511,45       1,458,405         1,511,45       1,556,607         1,511,45       1,556,607         1,511,514       1,556,607 <t< td=""><td></td><td>. 012420</td><td>2 102 642 .</td><td>1 CTC C</td></t<>		. 012420	2 102 642 .	1 CTC C
221,104       327,131         115,770       327,131         115,770       137,488         115,770       137,488         115,770       137,488         116,73       219,123         909,881       767,567         909,881       767,567         91,398       301,129         116,753       9,000,513         116,753       9,000,513         116,753       9,000,513         116,753       9,000,513         116,753       9,000,513         116,753       9,000,513         116,753       1,177         6,837       6,385,918         6,837       6,385,918         6,837       1,31,609         11,419,116       1,321,560         11,271,145       1,485,92         11,271,145       1,485,92         11,797,522       2,609,775         11,797,522       2,609,775         11,797,522       4,256,66         11,396,66       1,336,66         11,396,66       1,336,66		. 010,000,3	. 040,040	3,2/2,1
221,104     327,131       115,1704     327,131       115,1704     137,488       115,1709     1,481,716       217,019     219,123       909,891     767,567       391,398     540,256       116,753     301,129       20,022,617     20,260,723       20,022,617     20,260,723       20,022,617     20,260,723       20,022,617     20,260,723       20,022,617     20,260,723       20,022,617     20,260,723       20,022,617     20,260,723       20,022,617     20,260,723       20,022,617     20,260,723       20,022,617     20,260,723       20,022,617     20,260,723       20,022,617     20,260,723       20,022,617     20,260,723       20,022,617     1,419,516       20,022,617     1,421,560       20,022,617     1,421,500       20,022,617     1,450,845       20,022,617     1,450,845       20,022,617     1,450,845       20,022,617     1,450,845       20,022,617     1,450,845       20,022,617     1,250,960       20,022,617     1,250,960       20,022,617     1,450,845       20,022,617     1,450,845       20,02	**************************************	: °CO, TO4, O3	2,037,970	1,604,6
115,770       327,131         115,770       1,481,716         217,019       219,488         217,019       219,116         217,019       219,123         909,891       767,567         391,398       540,256         391,398       540,256         391,398       540,256         391,329       9000,573         -6,332       9,000,573         -6,332       -181,777         5,732,834       6,385,918         6,837,467       6,385,918         6,837,467       6,385,918         -1,419,516       -1,459,845         -1,419,516       -1,459,845         -1,711,145       1,459,845         1,051,634       978,309         694,753       2,600,775         1,271,145       1,256,365         1,286,860       1,286,860	1016 Kong	28,629 :	69,793 :	59,640
115,770   137,488   1,451,999   1,481,716   1,511,999   1,481,716   1,511,999   1,481,716   1,511,999   1,481,716   1,511,999   1,481,716   1,511,999   1,481,716   1,511,999   1,511,99	:	221,104 :	327,131 :	248,250
1,451,999   1,481,716   219,123   219,123   219,123   219,123   219,123   219,123   219,123   219,123   219,123   219,123   219,129	;	115,770:	137,488 :	120,295
217,019       219,123         909,891       767,567         391,398       540,256         391,398       540,256         116,753       9,000,573         20,022,617       20,260,723         6,832       -181,777         6,832       6,385,918         6,837,467       6,385,918         1,491,516       -1,321,560         1,271,145       1,459,845         1,051,634       978,309         694,753       2,609,775         1,797,522       2,609,775         1,797,522       2,609,775         1,797,522       2,609,775         1,440,566       1,556,665         1,440,566       1,556,666	ex co	1,451,999 :	1,481,716 :	1,609,226
909,891 : 767,567 : 391,398 : 540,256 : 116,753 : 301,129 : 301,129 : 300,0573 : 116,751 : 20,022,617 : 20,260,723 : 1	;	217,019 :	219.123 :	249.097
391,398       \$40,256         116,753       301,129         20,022,617       20,260,723         -6,332       -181,777         6,837,467       6,385,918         -1,419,516       -1,321,560         338,124       373,609         96,227       148,732         1,271,145       1,485,845         694,775       834,105         694,733       20,609,775	;	909.891 :	767.567	763.866
116,753 : 301,129 : 20,494,932 : 9,000,573 : 1	;	391,398 :	540.256 :	345,322
9,494,932       9,000,573         20,022,617       20,260,723         1       1         6,832       -181,777         6,837,467       6,385,918         -1,419,516       -1,311,569         9,627       148,732         1,271,145       1,459,845         69,227       1,459,845         1,051,634       978,309         694,773       834,105         1,097,522       2,609,775         1,797,522       2,609,775         1,440,566       1,536,860	Chine	116,753 :	301,129	151,675
20,022,617: 20,260,723: 1  -6,332: -181,777: -	11 Other:	9.494.932	9.000.573	7.50.7
5,732,834 6,385,918 6,385,918 6,837,467 6,389,928 6,389,936 6,389,936 6,389,936 6,389,946 6,386,860 6,389,936 6,388	Total:	20.022.617 :	20.260.723 :	19 037 9
-6,332 :       -181,777 :         5,732,834 :       6,385,918 :         6,837,467 :       6,389,928 :         -1,419,516 :       -1,321,560 :         338,124 :       373,609 :         96,227 :       1,487,32 :         1,271,145 :       1,459,845 :         1,051,634 :       978,309 :         694,753 :       834,105 :         694,753 :       4,203,007 :         1,440,566 :       1,256,365 :         1,536,860 :       1,536,860 :	: merchandise trade balance:	3	•	
5,732,834 : 6,385,918 : 6,887,928 : -1,419,516 : -1,321,560 : -1,321,560 : 373,609 : 96,227 : 148,732 : 1,571,145 : 1,571,634 : 978,309 : 694,753 : 834,105 : -1,205,007 : -1,205,365 : 1,256,365 : 1,536,860 : 1,536,860 : 1,536,860 :	;	-6.332 :	-181.777 :	-587.171
ng     -1,419,516     -1,321,560       ng     373,609     373,609       96,227     148,732       1,271,145     1,459,845       1,051,634     978,309       694,753     834,105       1,775,522     2,609,775       1,440,566     1,256,365       1,440,566     1,536,860		5.732.834 :	6,385,918	5,392,6
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319,046: 1,536,860:	CA186	1,440,566 :	1,256,365 :	1,234,379
	11 Other	319,046 :	1,536,860:	1.683.886

1/ Import values are based on Customs value; export values are based on f.a.s. value, U.S. port of export. 2/ Data provided for selected countries and country groups.



Compiled from official statistics of the U.S. Department of Commerces. Sources

U.S. trade balance

U.S. Imports

5

feed-quality wheat being available in Canada following the record 1982 Canadian wheat harvest. U.S. imports of pork, cattle, and swine all increased. Imports of pork increased by 71 percent to \$231 million from 1981 to 1982 mainly due to the favorable U.S.-Canadian exchange rate and to large supplies of pork in Canada being available for export. Imports of cattle increased from \$123 million in 1981 to \$183 million in 1982 and imports of swine increased from \$19 million in 1981 to \$42 million in 1982. The strength of the U.S. dollar in relation to the Canadian dollar and increased demand for feeder cattle and swine by feedlot operators are believed to be the principal reasons for the increased imports.

Japan.—The United States was a net exporter of agricultural products to Japan. The favorable U.S. trade balance in such products amounted to about \$5.4 billion in 1982, compared with \$6.4 billion in 1981. The agricultural sector had the most favorable trade balance among the major commodity sectors. U.S. imports of agricultural products from Japan were valued at \$324 million in 1982, up only slightly from \$311 million in 1981. At the same time, exports dropped 15 percent to \$5.7 billion in 1982. Thus, most of the downward movement in the trade balance over the 2 years was attributable to exports.

The principal farm products exported from the United States to Japan were grains and oilseeds; these two groups of products accounted for 54 percent of the exports in 1982. Other exported products of note were fish (including shellfish), meat, tobacco, and cattle hides. Fresh and canned fish and shellfish were the major agricultural sector products imported from Japan.

Significant shifts in U.S.-Japanese agricultural trade occurred in U.S. exports of corn, soybeans, fish, certain meats, and cattle hides. A 28-percent reduction in the value of corn exports between 1981 and 1982, from \$1.8 billion to \$1.3 billion, largely reflected a drop in the unit value of the exported grain, from \$3.85 to \$2.86 per bushel, because the volume declined only 3 percent. Similarly, a drop in the unit value of soybean exports in 1982 resulted in a 15-percent decline to \$1.0 billion in the value of exports of that oilseed to Japan, but the quantity rose 3 percent.

In 1982, the value of U.S. exports of fresh or frozen fish to Japan was \$491 million, compared with \$429 million in 1981, an increase of 14 percent. Indeed, exports in 1982 were nearly double those in 1980. The increased exports reflected, in part, an easing of Japanese import restrictions (quotas, import permits, and other restrictive measures) in late 1980. The Japanese action was partly in response to the United States' granting of fishing rights within the U.S. 200-mile fishing zone to Japan.

U.S. exports of fresh, chilled, or frozen beef and veal to Japan in 1982 were valued at \$230 million, 47 percent above those in 1981; this increase reflected Japan's agreement under the Multilateral Trade Negotiations to increase its imports of high-quality beef.

A 20-percent drop in the value of cattle hide exports to Japan from \$258 million in 1981 to \$208 million in 1982 reflected a draw-down on Japanese hide stocks and a reduction in the unit value. A 23-percent decline in fresh, chilled, or frozen pork exports to Japan between 1981 and 1982, from \$142 million to \$109 million, was due primarily to relatively high prices for

U.S. pork and increased competition from other sources, such as Taiwan, Canada, and some Scandinavian countries.

EC.—The United States was a net exporter of agricultural products to the EC in 1981 and 1982 but the favorable balance of trade between the 2 years declined from \$6.4 billion to \$5.4 billion. The drop in the positive trade balance resulted from a 9-percent decline in exports to \$8.6 billion and a 5-percent rise in imports to \$3.3 billion.

The major agricultural products exported from the United States to the EC were oilseeds, animal feeds, grains, tobacco, nuts, and animal and vegetable oils. In 1982, these commodity groups accounted for 83 percent of the farm exports to that market. Distilled spirits, wines, fermented beverages, meat except poultry, cocoa and confectionery, and fresh or frozen fish accounted for 70 percent of the agricultural products imported from the EC in 1982.

The major shifts in U.S.-EC agricultural trade between 1981 and 1982 occurred in U.S. exports of corn, sunflowerseed, cattle hides, and muskrat furskins and in imports of canned hams and fermented beverages. U.S. exports of corn declined from \$1.2 billion in 1981 to \$788 million in 1982 and exports of sunflowerseed declined from \$277 million to \$117 million. These declines reflected, in part, the international strength of the U.S. dollar, which placed U.S. agricultural products at a relative price disadvantage in world markets. U.S. exports of muskrat furskins declined from \$38 million in 1981 to \$17 million in 1982 primarily because of the reduced muskrat catch in the United States. Exports of cattle hides increased from \$30 million in 1981 to \$90 million in 1982, in part because exports of cattle hides from Argentina, a traditional exporter, virtually ceased during the Falkland Islands crisis. Hence, the United States became a more significant supply source for cattle hides. U.S. imports of canned hams and fermented beverages increased from 1981 to 1982. Imports of canned hams increased from \$131 million in 1981 to \$182 million in 1982 largely because of the EC promotion of exports of ham to the U.S. market in the absence of competition from Poland. The increase in imports of fermented beverages from \$252 million in 1981 to \$299 million in 1982 reflected, in part, the U.S. consumer's image of imported fermented beverages being premium products.

Brazil.—The United States was a net importer of agricultural products from Brazil in 1981 and 1982. The U.S. trade deficit declined from \$1.3 billion in 1981 to \$1.1 billion in 1982. The decrease in the negative trade balance reflected a 26-percent decline in exports to \$527 million and a 21-percent decline in imports to \$1.6 billion.

The major agricultural products exported from the United States to Brazil were grains and oilseeds; in 1982, these two commodity groups accounted for over 90 percent of the total farm exports to that market. Coffee, fruit juices, cocoa and confectionery, sugar, and shellfish accounted for over 80 percent of the agricultural sector products imported from Brazil in 1982.

Significant shifts in U.S.-Brazilian agricultural trade between 1981 and 1982 occurred in U.S. exports of wheat, corn, and soybeans and in U.S. imports of coffee, orange juice, semiprocessed cocoa, and sugar. U.S. exports of corn and wheat declined and exports of soybeans increased. Exports of corn dropped from \$88 million in 1981 to \$17,000 in 1982; those of wheat declined from \$551 million in 1981 to \$429 million to 1982. These declines reflected, in part7

the international strength of the U.S. dollar. Also, abundant supplies of wheat for export in Canada, a traditional Brazilian supplier, most likely displaced U.S. corn and wheat. U.S. exports of soybeans to Brazil increased from \$25 million in 1981 to \$51 million in 1982. The increased exports reflected increased demand in Brazil because of a significant drop in that country's production in 1982.

U.S. imports of crude coffee, coffee extracts, semiprocessed cocoa, and raw sugar from Brazil declined, and imports of orange juice increased. U.S. imports of crude coffee declined from \$670 million in 1981 to \$558 million in 1982, those of coffee extract declined from \$178 million to \$111 million, and those of semiprocessed cocoa products declined from \$195 million to \$133 million. The decline in the value of U.S. imports of these three commodities was due primarily to lower unit values. U.S. imports of raw sugar also declined, from \$388 million in 1981 to \$89 million in 1982, largely because the United States placed quantitative import restrictions on sugar imports in May 1982.

Hong Kong.—The United States was a net exporter of agricultural products to Hong Kong in 1981 and 1982, with the favorable U.S. balance of trade between the 2 years increasing slightly from \$374 million to \$376 million. The increase reflected a 15-percent decline in imports to \$60 million and a 2-percent decline in exports to \$436 million.

The major agricultural products exported from the United States to Hong Kong were tobacco and tobacco products (primarily cigarettes), fresh fruit (primarily citrus), and poultry and poultry meat; in 1982, these three commodity groups accounted for nearly three-fifths of the total farm exports to that market. Mushrooms and truffles (primarily canned mushrooms), shellfish, and edible preparations accounted for nearly two-thirds of the imports in this sector from Hong Kong in 1982.

U.S. trade in agricultural products with Hong Kong was relatively unimportant compared with such trade with other countries, and no significant shifts in the farm products trade occurred between the two countries in 1981 and 1982.

<u>India</u>.—The United States was a net exporter of agricultural products to India in 1981 and 1982, but the favorable U.S. balance of trade between the 2 years declined from \$149 million to \$103 million. This drop reflected a 26-percent decline in exports to \$351 million and a 24-percent reduction in imports to \$248 million.

The major agricultural products exported from the United States to India were grains (mostly wheat), milled grain products, and animal and vegetable oils; in 1982, these three commodity groups accounted for 92 percent of the total U.S. farm exports to India. Natural gums and resins, shellfish, coffee and coffee substitutes, and leather accounted for over three-fourths of the agricultural sector products imported from India in 1982.

A significant shift in U.S.-Indian agricultural trade between 1981 and 1982 occurred in imports of peanuts, as imports dropped from \$52 million in 1981 to about \$400,000 in 1982. An enlargement of the import quota on peanuts in 1981, owing to a poor 1980 U.S. crop, allowed an increase in imports in 1981.

Korea.—The United States was a net exporter of agricultural products to Korea in 1981 and 1982, but the favorable U.S. balance of trade between the 2 years declined from \$1.5 billion to \$1.2 billion. The decline reflected a 22-percent decline in exports to \$1.2 billion and a 13-percent reduction in imports to \$120 million.

The major agricultural products exported from the United States to Korea were grains (primarily corn and wheat), cattle hides, and oilseeds (mostly soybeans); in 1982, these three commodity groups accounted for more than four-fifths of the total farm exports to that market. Fresh or frozen fish and shellfish accounted for nearly two-thirds of the agricultural sector products imported from Korea in 1982.

Significant shifts in U.S.-Korean agricultural trade between 1981 and 1982 occurred in U.S. exports of rice and cigarette leaf tobacco. U.S. exports of rice (paddy and milled rice) dropped from \$419 million in 1981 to \$65 million in 1982 largely because of a good crop and large carryover stocks in Korea in the latter year. A decline in exports of cigarette leaf tobacco to Korea from \$40 million to \$4 million reflected, in part, that country's aim to use more domestic tobacco and to reduce its stocks of foreign-grown tobacco.

Mexico.—The United States became a net importer of agricultural products from Mexico in 1982. A surplus of \$978 million in 1981 became a deficit of \$440 million in 1982, reflecting a 52-percent drop in exports to \$1.2 billion and a 9-percent increase in imports to \$1.6 billion.

The major agricultural products exported from the United States to Mexico were grains, oilseeds, and animal and vegetable oils; in 1982, these three commodity groups accounted for over three-fifths of the total farm exports to that market. Fresh vegetables (primarily tomatoes), shellfish, coffee and coffee substitutes, and live animals accounted for nearly three-fifths of the agricultural sector products imported from Mexico in 1982.

A significant shift in U.S.-Mexican agricultural trade between 1981 and 1982 occurred in U.S. exports of corn, grain sorghum, and wheat, which declined from \$998 million in 1981 to \$289 million in 1982. This downturn in exports to Mexico reflected, in part, that country's lack of foreign exchange to import feed, and increased livestock slaughter due to a drought.

Another significant shift in U.S.-Mexican agricultural trade occurred in U.S. imports of shrimp, which rose from \$290 million in 1981 to \$375 million in 1982 owing to a drop in U.S. landings that resulted in lower domestic supplies and higher prices.

Taiwan.—The United States was a net exporter of agricultural products to Taiwan in 1981 and 1982, but the favorable U.S. balance of trade between the 2 years declined from \$834 million to \$713 million. The decline reflected a 9-percent decrease in exports to \$963 million and a 14-percent increase in imports to \$249 million.

The major agricultural products exported from the United States to Taiwan were grains (largely corn and wheat) and oilseeds (virtually all soybeans), in 1982, these two commodity groups accounted for nearly three-fourths of the

total farm exports to that market. Fresh or frozen fish and processed vegetables accounted for over two-fifths of the agricultural sector products imported from Taiwan in 1982.

A significant shift in U.S.-Taiwan agricultural trade between 1981 and 1982 occurred in U.S. imports of processed tomatoes, which rose from 9.3 million pounds (\$2.7 million) in 1981 to 55.1 million pounds (\$18.9 million) in 1982, partly because of a poor crop and small carryover stocks in the United States in 1981 and the diversion of Taiwan's exports from Japan to the United States.

OPEC.--The United States was a net exporter of agricultural products to OPEC in 1981 and 1982, but the favorable U.S. balance of trade between the 2 years declined from \$2.6 billion in 1981 to \$1.9 billion in 1982. The decrease reflected a 20-percent decline in exports to \$2.7 billion; imports were virtually unchanged between the two periods.

The major agricultural products exported from the United States to OPEC were grains, milled grain products, tobacco, animal and vegetable oils, and animal feeds; in 1982, these five commodity groups accounted for nearly three-quarters of the total farm exports to that market. U.S. agricultural imports from OPEC consisted primarily of coffee, shellfish, fresh fruit, and cocoa and confectionery. Such imports accounted for 86 percent of the agricultural sector products imported from OPEC in 1982.

Significant shifts in U.S.-OPEC agricultural trade between 1981 and 1982 occurred in U.S. exports of wheat, milled rice, and sunflowerseed oil and in U.S. imports of shrimp. U.S. exports of wheat fell from \$976 million to \$717 million and those of milled rice fell from \$527 million in 1981 to \$443 million 1982. These declines reflected, in part, the international strength of the U.S. dollar and record world harvests of both wheat and rice in 1982. A sharp drop in the unit value for U.S. exports of rice was also a cause for the decline in the value of U.S. exports. U.S. exports of sunflowerseed oil fell from \$90 million in 1981 to \$10 million in 1982 largely because of increased competition from palm oil. U.S. imports of shrimp increased from \$91 million in 1981 to \$150 million in 1982, reflecting an increased demand for imported shrimp because of a reduced U.S. harvest in 1982. Most of the increase was accounted for by Ecuador, which is commercially producing shrimp in ponds.

<u>NME's.</u>—The United States was a net exporter of agricultural products to NME's in 1981 and 1982, but the favorable balance of trade between the 2 years declined by 16 percent from \$4.2 billion in 1981 to \$3.5 billion in 1982. The decrease reflected an 18-percent decline in exports to \$3.9 billion and a 36-percent decline in imports to \$345 million.

The major agricultural products exported from the United States to NME's were grains, oilseeds, animal and vegetable oils, and hides and skins; in 1982, these four commodity groups accounted for 93 percent of total farm exports to those markets. Meat (except poultry meat), tobacco, and shellfish accounted for 41 percent of the agricultural products imported from NME's in 1982.

Significant shifts in U.S.-NME's agricultural trade between 1981 and 1982 occurred in U.S. exports of wheat and soybeans and in U.S. imports of canned

hams. U.S. exports of wheat declined from \$2.1 billion in 1981 to \$1.9 billion in 1982 primarily because of lower unit values for U.S. exports and the international strength of the U.S. dollar. Also, abundant supplies of wheat for export in Canada most likely displaced U.S. wheat. U.S. exports of soybeans to NME's increased from \$188 million in 1981 to \$319 million in 1982 because of reduced supplies of Brazilian and Argentine soybeans. U.S. imports of canned hams declined from \$117 million in 1981 to \$81 million in 1982 primarily because of reduced imports from Poland as that country experienced food shortages and other economic problems.

The United States was a net exporter of agricultural products to China in 1981 and 1982. The favorable U.S. balance of trade between the 2 years was almost unchanged, declining only 2 percent to \$1.2 billion. U.S. exports declined by 11 percent to \$1.4 billion and U.S. imports declined by 50 percent to \$152 million.

The major agricultural products exported from the United States to China were grains, leather, and oilseeds; in 1982, these three commodity groups accounted for 98 percent of the agricultural products exported to that market. Cocoa and confectionery, coffee, meat (except poultry), and shellfish accounted for 36 percent of the agricultural products imported from China in 1982.

Significant shifts in U.S.-China agricultural trade between 1981 and 1982 occurred in U.S. exports of wheat and in U.S. imports of peanuts. Exports of wheat declined from \$1.3 billion in 1981 to \$1.0 billion in 1982 primarily because of the lower unit values of exports, the international strength of the U.S. dollar, and abundant supplies of wheat in other exporting countries. Imports of peanuts declined from \$153 million in 1981 to \$1 million in 1982 because of the section 22 quantitative restrictions limiting imports. In 1981, the import quota was substantially increased to supplement the drought-and disease-reduced U.S. crop.

#### Commodity analyses

Sugar.—In 1982, U.S. imports of sugar declined by nearly one-half to 2.6 million short tons from the 1981 level of 5.1 million tons. The value of sugar imports in 1982 declined by 63 percent from the 1981 level to \$0.8 billion as world sugar prices fell. The unit value of sugar imported into the United States, reflecting the lower world price, dropped from \$418 per ton (20.9 cents per pound) in 1981 to \$303 per ton (15.2 cents per pound) in 1982.

- U.S. imports of sugar were limited beginning in May 1982 by quota and import fees proclaimed by the President to protect the Government's price-support program for domestic sugar producers. World sugar prices fell in 1982 because world sugar production continued to be far in excess of consumption. However, the domestic raw sugar price was insulated by the import limitations, and in December 1982 reached about 20.7 cents per pound (c.i.f., duty-fee paid, New York), compared with a world sugar price of about 6.0 cents per pound (f.o.b. Caribbean country ports).
- U.S. exports of sugar fell in 1982 to less than 10 percent of their 1981 level, dropping from 988,000 short tons (valued at \$506 million) in 1981 to

78,000 tons (valued at \$23 million) in 1982. The higher price of U.S. sugar and the reduced use of drawback provisions by U.S. sugar refiners were mainly responsible for the lower exports. 1/

John Reeder 724-1754

Oilseeds and animal and vegetable fats and oils. -- Declining prices for U.S. oilseeds and oilseed products offset a record volume shipped abroad in 1982, and led to a decline in the value of exports. Aggregate U.S. exports of all oilseeds (including soybeans) and animal and vegetable fats and oils in 1982 fell to \$8.3 billion or by 3 percent from the 1981 level as exports of sunflowerseed and oil, linseed oil, peanut oil, fish oil, lard, and tallow declined. Exports of sunflowerseed oil experienced the sharpest decline, falling from \$160 million in 1981 to \$50 million in 1982. The negative effects of a strong U.S. dollar on foreign currency prices, abundant foreign supplies of soybeans and vegetable oils, and the world recession in key foreign markets were factors behind the declining prices and, for some oilseed products, lower export volumes shipped. However, soybeans, the leading oilseed export item, registered a gain in 1982. In that year, the United States exported a record 62 billion pounds (1.0 billion bushels) of soybeans, an increase of 19 percent over 1981. However, soybean prices declined 17 percent, so that the value of export sales rose by only about 1 percent to \$6.2 billion in 1982.

> John Reeder 724-1754

Citrus fruit. --U.S. exports of citrus fruit declined from 2 billion pounds, valued at \$419 million, in 1981 to 1.7 billion pounds, valued at \$386 million, in 1982. Exports to Japan, Canada, Hong Kong, France, and the Netherlands, the principal U.S. markets, accounted for almost all of the decline between the 2 years. Reduced exports of oranges accounted for most of the decline, falling from 976 million pounds, valued at \$211 million, in 1981 to 777 million pounds, valued at \$196 million, in 1982. Higher prices

<sup>1/</sup> On Jan. 15, 1982, the U.S. International Trade Commission initiated Investigation No. 22-45 under section 22 of the Agricultural Adjustment Act, as amended, to determine whether imports of sugar were interfering with the price support program for sugar cane and sugar beets. The President, at the time he directed the Commission to conduct the investigation, used the emergency provisions of section 22 to impose a system of import fees, such system to remain in effect pending the Commission's report and subsequent Presidential action. During the course of the investigation, the President used other authorities to impose a system of import quotas on sugar. On June 8, 1982, the Commission reported to the President its findings that imports of sugar were interfering with the price-support program and recommended that the fee system be maintained and that the quota system be maintained until such time as duties and fees (which the Commission recommended as being preferable to a restrictive quota system) are adequate to protect the price-support system. The President has not yet acted on the Commission's report (USITC 12 Pub. 1253).

and the strength of the U.S. dollar in international markets are believed to be the reasons for the decline in U.S. exports.

Steve Burket 724-0088

<u>Wrapper tobacco.</u>—U.S. exports of wrapper tobacco fell from 2.5 million pounds, valued at \$19.1 million, in 1981 to 1.1 million pounds, valued at \$8.3 million, in 1982. Exports to the Dominican Republic, the principal U.S. market, dropped 60 percent between 1981 and 1982 to 647,000 pounds. Exports to nearly all other markets also declined. The 1982 decline continues a trend which began in 1980 and can be attributed to a combination of factors including a continuing substitution of homogenized tobacco sheet for leaf wrapper tobacco in cigar production, a general decline in world demand for cigars, and a poor U.S. crop of wrapper tobacco in 1982 (due to bad weather). In 1982, the Dominican Republic accounted for 61 percent of U.S. exports and the Netherlands for 23 percent, in terms of quantity.

William A. Lipovsky 724-0097

Grain.—In 1982, overall U.S. exports of grain were \$13.4 billion, down 25 percent from 1981. Exports of wheat at \$6.7 billion in 1982 were down 15 percent from 1981 and corn exports were down about 29 percent to \$5.7 billion. Declines were also registered in exports of barley, grain sorghum, oats, paddy rice, and rye. In all cases the percentage decline in value exceeded the decline in quantity. The drop in exports reflects, in part, the worldwide recession, the general situation of oversupply of grain and resulting low prices, and the strength of the U.S. dollar. The major markets for U.S. exports of grain in 1982 were Japan (mostly corn), the U.S.S.R. (corn and wheat), the People's Republic of China (wheat), and the Republic of Korea (paddy rice). 1/

John Pierre-Benoist 724-0074

Vegetables, dried, desiccated, or dehydrated.—During 1982, U.S. exports of dried, desiccated, or dehydrated vegetables amounted to 1.6 billion pounds, valued at \$441 million, down 29 percent in quantity and 40 percent in value compared with such exports in 1981. Most of the exports consisted of dried edible beans; in 1982, exports of such beans amounted to 1.0 billion pounds, valued at \$264 million. A decline in shipments of dried beans to Mexico in

<sup>1/</sup> On Jan. 15, 1982, the U.S. International Trade Commission initiated
Investigation No. 104-TAA-6 with respect to barley from France. On
Mar. 9, 1982, the Commission determined that "an industry in the United States
would not be materially injured. . . by reason of imports of barley from
France covered by countervailing duty order T.D. 71-177, if the order were to
be revoked." The countervailing duty order was revoked by the U.S. Department
of Commerce, effective Apr. 30, 1982.

1982, down 71 percent compared with 1981 (in terms of quantity), accounted for most of the drop in dried vegetable exports. Exports of dried edible beans in 1982 more closely approximate the levels of 1978 and 1979, following 2 years (1980 and 1981) of unusually large shipments to Mexico, which experienced reduced output due to poor growing conditions during those 2 years.

Tim McCarty 724-1753

Dried fruit.—In 1982, U.S. imports of dried fruit amounted to 44.0 million pounds, valued at \$30.7 million, an increase of 62 percent in quantity and 52 percent in value over imports in 1981. Significant trade shifts occurred in imports of raisins and dates. Imports of raisins jumped from 310,000 pounds in 1981 to 7.1 million pounds in 1982. Such imports from Mexico (the principal supplier in 1982) rose to 5.3 million pounds from no entries in 1981, as that source took advantage of higher U.S. prices resulting from an expected short U.S. crop. Between 1981 and 1982, imports of dates doubled (in quantity and value), amounting to 12.9 million pounds, valued at \$7.9 million, as exports from Iran and Iraq continued to be low owing to the two suppliers' armed conflict and imports from the People's Republic of China rose substantially.

Exports of dried fruit, valued at \$204 million in 1982, were down 9 percent from \$224 million in 1981, as exports to the Economic Community declined 13 percent to \$37.5 million in 1982. The drop in exports to the EC reflected the establishment of a minimum import price for raisins from third countries, and the EC's production subsidy program for raisins, including those from Greece, one of the world's largest raisin producers and a full member of the EC effective January 1982.

Tim McCarty 724-1753

Poultry.—U.S. poultry exports fell in value in 1982, the first such drop since 1970. Exports decreased from \$594 million in 1981 to \$403 million in 1982, or by nearly one-third. Most of the decline was accounted for by lower exports of chickens and chicken meat. The value of such U.S. exports rose steadily, from \$172 million in 1978 to \$412 million in 1981, before falling to \$249 million in 1982. A decline in the share of the Middle East broiler market accounted for the bulk of the drop in U.S. poultry exports. U.S. producers attribute this loss to export refunds provided by the European Community (EC) and export credit extended by Brazil to its poultry producers. A case under section 301 of the Trade Act of 1974 concerning the export refunds of the EC is pending before the General Agreement on Tariffs and Trade; concerning Brazil's export credit, bilateral negotiations are under way between the United States and Brazil. Also contributing to the decline in U.S. poultry exports in 1982 were a poultry import suspension by Egypt (a major market in 1981) and a strengthening of the U.S. dollar that year.

Eggs.—The value of U.S. exports of eggs declined from \$175 million in 1981 to \$112 million in 1982; the 1982 value was also below that in 1980. U.S. shell egg exports dropped in value, from \$110 million in 1981 to \$74 million in 1982, or by one-third. A decline in the value of U.S. shell egg exports to Iran accounted for most of the total decrease. Such exports dropped from \$17 million in 1981 to \$7 million in 1982; displacement of the U.S. product by exports from the European Community was the major cause. A decline in the value of U.S. exports of shell eggs to Egypt also contributed significantly to the total value drop; the value of such exports fell from \$5 million in 1981 to \$431,000 in 1982. A suspension of poultry imports by Egypt caused this decline. U.S. exports of egg products also declined in value, from \$65 million in 1981 to \$38 million in 1982. Most of this decrease was accounted for by a drop in U.S. egg product exports to Japan, which increased its domestic output, and to Mexico, which is not a stable market for U.S. egg products.

Doug Newman 724-0087

Shellfish.—U.S. imports of shellfish increased from 400 million pounds, valued at \$1.3 billion, in 1981 to 458 million pounds, valued at \$1.6 billion, in 1982; this representing an increase of 15 percent in quantity and 19 percent in value. Most of the increase was in shrimp, which accounted for 60 percent of both the quantity and the value of total U.S. shellfish imports in 1982. U.S. shrimp imports increased from 223 million pounds, valued at \$724 million, in 1981 to 270 million pounds, valued at \$964 million, in 1982. Increases were also registered in most other categories of shellfish except scallops. U.S. exports of shellfish declined in 1982 for the third consecutive year. Such exports decreased from 111 million pounds, valued at \$240 million, in 1981 to 91 million pounds, valued at \$214 million, in 1982. Lower exports of crabs and shrimp accounted for most of the decrease. Decreased U.S. landings of these shellfish and a strong dollar in 1982 contributed to the rise in U.S. shellfish imports and the associated drop in such exports that year.

Doug Newman 724-0087

Cocoa and confectionery.—Lower domestic shipments of chocolate candy in the United States in 1982 led U.S. candy manufacturers to reduce their purchases of imported cocoa and other confectionery products used as ingredients. The volume of U.S. imports of cocoa beans, cocoa products, and confectionery fell 10 percent from 1 billion pounds in 1981 to 900 million pounds in 1982; the value of these products fell 21 percent from \$1 billion to \$787 million as unit values declined even more sharply. U.S. chocolate manufacturers imported 435 million pounds of cocoa beans in 1982, or 21 percent less than in 1981, despite the fact that the unit value of imported cocoa beans dropped 13 percent from 85 cents per pound in 1981 to 74 cents per pound in 1982. Declines were also registered in 1982 in both the volume and value of imports of cocoa butter, cocoa powder, and chocolate liquor.

<u>Fruit juices</u>.--U.S. imports of fruit juices rose 59 percent from \$295 million in 1981 to \$469 million in 1982, with imported orange juice from Brazil accounting for most of the increase. The increase in orange juice from Brazil was due, in part, to a surplus of such juice in that country, and to a freeze in Florida in January 1982, which reduced production. <u>1</u>/

Tim McCarty 724-1753

<u>Butter</u>.—In 1982, U.S. exports of butter totaled 138 million pounds, valued at \$104 million, compared with exports of 118 million pounds, valued at \$89 million, in 1981. U.S. exports of butter historically have been small (e.g., less than 1,000 pounds annually during 1978-80) because U.S. prices of butter have been higher than those of traditional world suppliers such as New Zealand and Australia. The increased exports in 1982 mostly reflected sales of surplus butter at or below world prices from the inventories owned by the Commodity Credit Corporation (CCC) of the U.S. Department of Agriculture. This butter had been purchased by the CCC in order to support the domestic price of milk as required by law.

Virtually all of the increased exports were to New Zealand (106 million pounds, including 32 million pounds erroneously reported as exported to Belgium) and Poland (29 million pounds). 2/ The exports to Poland consisted mostly of butter purchased by Catholic Relief Services for about 5 percent of the CCC original purchase price, or donated to that organization by the CCC.

<sup>1/</sup> On July 14, 1982, the U.S. International Trade Commission instituted a
preliminary countervailing duty investigation (Inv. No. 701-TA-184) with
respect to frozen concentrated orange juice imported from Brazil. On
Aug. 25, 1982, the Commission found a reasonable indication that an industry
in the United States is materially injured or threatened with injury by reason
of imports from Brazil which are allegedly being subsidized by the Government
of Brazil. On Dec. 13, 1982, the Department of Commerce issued a preliminary
determination that the Government of Brazil was providing benefits that
constitute subsidies. On Mar. 1, 1983, Commerce decided to suspend the
countervailing duty investigation based on an agreement by the Government of
Brazil to offset with an export tax all benefits which are found to be
subsidies by Commerce.

<sup>2/</sup> The butter reported as exported to Belgium actually consisted of butter that was sold to New Zealand and shipped by the New Zealand Dairy Board directly from the United States to Belgium for processing into butteroil.

The exports to New Zealand reflected part of the CCC sale of 220 million pounds of butter to that country at about 60 percent of the CCC original purchase price, as discussed in previous trade shifts reports. 1/

J. Fred Warren 724-0090

Meat.—The composition of U.S. exports of meat to Japan, the principal market, changed during 1982 from previous years. The value of U.S. exports of fresh, chilled, or frozen beef to Japan increased from \$156 million in 1981 to \$230 million in 1982, or by 47 percent. This \$74 million increase in U.S. exports to Japan more than offset reduced exports to other markets; total U.S. exports of beef to all markets increased from \$248 million in 1981 to \$320 million in 1982, or by 29 percent. The increase reflected Japan's agreement under the Multilateral Trade Negotiations to increase its imports of high-quality beef, almost all of which are supplied by the United States.

In contrast, the value of U.S. exports of fresh, chilled, or frozen pork to Japan decreased from \$142 million in 1981 to \$109 million in 1982, or by 23 percent. This \$33 million decrease in U.S. exports to Japan accounted for the bulk of the total decline in U.S. exports to all markets from \$205 million in 1981 to \$150 million in 1982, or by 27 percent. The decline was due primarily to relatively high prices for U.S. pork and increased competition in the Japanese market from other sources such as Taiwan, Canada, and some Scandinavian countries.

David E. Ludwick 724-1763

Cattle.—The value of U.S. imports of live cattle increased from \$191 million in 1981 to \$298 million in 1982, representing an increase of 56 percent. The increase in imports reflected a number of factors including the strong exchange rates of the U.S. dollar in relation to the currencies of Canada and Mexico, the only significant suppliers of live cattle to the United States. Also, the relatively low grain prices in the United States encouraged the importation of feeder cattle. Relatively high grain prices and reduced grain availability in Mexico, combined with drought in large parts of the grazing areas of that country, provided a further inducement to export Mexican cattle to the United States.

David E. Ludwick 724-1763

<sup>1/</sup> On Aug. 27, 1982, the U.S. International Trade Commission instituted investigation No. 104-TAA-10, Certain Dairy Products from the European Community. In that investigation (which included butter), the Commission unanimously determined in December 1982 that an industry in the United States is not materially injured, is not threatened with material injury, and that the establishment of an industry is not materially retarded by reason of imports from the European Community of certain dairy products which were subject to an outstanding countervailing duty order, but for which the imposition and collection of such duties had been waived. On Jan. 28, 1983, the U.S. Department of Commerce revoked the outstanding countervailing duty order.

Pork.—The value of U.S. imports of fresh, chilled, or frozen pork increased from \$158 million in 1981 to \$239 million in 1982, or by 51 percent. Canada accounted for all of the \$81 million increase in U.S. imports, with imports from that country rising from \$135 million in 1981 (85 percent of U.S. imports) to \$231 million in 1982 (97 percent of U.S. imports). Increased pork production in Canada and reduced pork production in the United States contributed to Canadian exports. Also, favorable prices for Canadian pork in U.S. markets resulted from the strong exchange rate of the U.S. dollar in relation to the Canadian dollar. U.S. imports of fresh, chilled, or frozen pork from Denmark, the only other significant supplier of U.S. imports, declined from \$23 million in 1981 to \$8 million in 1982. U.S. health and sanitary regulations have prevented imports of fresh, chilled, or frozen pork from Denmark since March 1982 because of an outbreak of foot—and—mouth disease in that country.

David E. Ludwick 724-1763

Canned tuna.—Imports of canned tuna increased from 71 million pounds, valued at \$110 million, in 1981 to 88 million pounds, valued at \$113 million, in 1982. The overall increase of 24 percent in terms of quantity and 3 percent in terms of value was accounted for by Japan, the Philippines, and Thailand. Together these countries supplied 83 percent of the quantity and 81 percent of the value in 1982. Foreign suppliers have been expanding their tuna-canning operations, whereas domestic suppliers have been cutting back. Imports sell in the U.S. market at prices well below those of the domestic product.

Tom Lopp 724-1759

<u>Furskins</u>.—The value of U.S. exports of furskins declined from \$432 million in 1981 to \$334 million in 1982, or by 23 percent. U.S. exports to all major markets declined; the biggest drop was in exports to the Federal Republic of Germany, which fell from \$73 million in 1981 to \$50 million in 1982, or by 32 percent.

U.S. exports of all major types of furskins declined. The biggest drop was in exports of miscellaneous furskins, which fell from \$241 million in 1981 to \$177 million in 1982, or by 27 percent; muskrat furskins fell from \$47 million in 1981 to \$23 million in 1982, or by 51 percent.

Both the quantity and value of exports declined as demand in Western Europe, the leading market for U.S. furskins, was weakened by the troubled economy there. The reduced U.S. exports also reflected a ban on U.S. exports of bobcat pelts imposed as a result of U.S. endangered species regulations.

David E. Ludwick

724-1763

Table 4.--Annual data on U.S. imports and exports for selected commodity groups  $\underline{1}/$ 

Commodity area :	1980	1981	1982	Perce Chang from
		(2)	(3)	(2) to (3) (4)
Live animals, except birds and poultry				
Imports: Value (1,000 dollars)	415,478:	345, 175:	484,690:	40
Exports: Value (1,000 dollars)	131,678:	229,803:	269, 194	17
2 + 0	680: 237,008:	659: 191,058:	1,004:	52 56
Exports: Quantity (1,000 units)		87: 65,466:	50,096	-35 -23
orts uant alue	247: 26,108:	: 145: 18,878:	294:	102
Exports: Quantity (1,000 units)	16:	24:	13,885	523
Imports: Value (1,000 dollars)	83,001:	93,668:	72,086	-23
Exports: Value (1,000 dollars)Feathers and downs	487,670:	594,485:	403, 161	-32
Imports: Quantity (1,000 pounds)	16,670:	16,952:	10,913	-36
Exports:     Quantity (1,000 pounds)	5,324:34,153:	6,239:	4,995	-20
Imports: Value (1,000 dollars)	2,433,647:	2,083,141:	2,116,441	8
. 71.	943,302:	1,055,683:	1,041,940	ī
Umports: Quantity (1,000 pounds)	1,413,855:	1, 199, 516:	1,337,675	12
	106,382: 201,286:	137,499: 247,815:	157,895 319,540	15

 $\frac{1}{2}$  Import values are based on Customs value; export values are based on f.a.s. value, U.S. port of export.

Table 4.--Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	1982 : CI	ercent hange
		• • •	• •• ••	(2) to
	(1)	: : : : : : : : : : : : : : : : : : : :	(3)	(4)
	••••		••••	
ports Quant Value	205,342:	216,547:	276,194:	28 52
X	141,079:	172,518:	117,011:	-32
Inde	14,246:	11,670:	13, 129:	21.2
Exports: Quantity (1,000 pounds)Value Value (1,000 dollars)	7,266:9,516:	8,419:	7,505:	111
2002	32,353:	32,645:	31,349:	44
8924	44,584: 38,585:	49,894:	36, 153: 38,933:	123
s: (1,000	1,182,027	1,345,698:	1,299,160:	K)
orts. alue (1,000 dollars) dried, salted, pickled, s	491,412:	690,986:	690,487:	0
Quantity (1,000 pounds)	57,547:	72,803:	70,379: 75,239:	₩ I I
	13,477:	14,165:20,240:	19,192: 22,764:	35
Value Value	140,367:	149,315:	158,797:	99
ports Quant Value	86,585: 165,563:	88,666: 157,073:	54,084: 77,725:	-39

(1) 	55,272 51,195 51,195 1,699 70,851	(3)	-
51,17 44,06 1,83 1,37 63,55 97,25	1,69 1,69 1,69 10,35		(4)
51,17 44,06 1,83 1,37 63,55 97,25 31,72	55,27 1,73 1,69 1,69 70,85	••	
1,83 1,37 63,55 97,25 25,46	1,73 1,69 1,69 70,85	50,044:	11.
63,55 97,25 97,25 83,46	70,85	1,049:	-39
5,46	•	87,578:	26
	23,121:33,836:	21,016: 29,351:	1 1 9
10,741:	23,442: 26,757:	11,879:	1.59
362,440: -: 1,203,207:	399,560: 1,333,154:	457,794:	#10°
-: 129,132: -: 256,654:	110,643: 240,180:	91,484: 213,582:	11
1,425:	2, 134: 6, 168:	2,608: 6,661:	22
3,041:	4,371: 12,031:	2,603:7,466:	138
5,814:	20,587: 9,908:	9,573: 4,535:	1.5
-: 378,113: -: 118,354:	397,790: 148,028:	424,559: 156,035:	Nu1
10,7 14,20 1,203,4 1,203,2 256,6 4,1 4,1 3,0 3,0 3,0 3,0 1,4 4,1 1,4 1,4 1,4 1,4 1,4 1,4 1,4 1,4		23,44 1: 26,75 0: 1,333,15 4: 240,18 6: 6,16 1: 4,37 1: 12,03 1: 20,58 4: 20,58 4: 20,58 4: 79,90 5: 397,79 4: 148,02	1: 23,442: 11,87 1: 26,757: 10,97 0: 399,560: 457,79 7: 1,333,154: 1,592,70 4: 240,180: 213,58 6: 6,168: 6,66 6: 6,168: 6,66 1: 12,031: 7,46 1: 12,031: 7,46 8: 397,790: 424,55 4: 148,028: 156,03

Table 4.--Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	1982	Percent Change
	Ξ	(5)	(3)	(2) to (3) (4)
		•• ••		
(spunod 000	567:	1,785:	1,683	9
000 da	734:	, 12	, 19	d- -
Quantity (1,000 pounds)	863: 971:	118,127:89,005:	138, 187; 104, 100;	71
imports: Quantity (1,000 pounds)	20:	42:	62: 53:	ት የህ
Exports: Quantity (1,000 pounds)	8,039: 3,634:	16,554:	13,243:	-20
Quantity (1,000 pounds)	231, 151: 301,048:	247,662: 332,062:	269,343:367,522:	e <del>1</del>
100 pounds)	12,599:	12,635:	39,591:	213
kcept flui milk and c ice cream		•••••••		
Unports: Value (1,000 dollars)	643:	. 10 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	67:	553
Value (1,000 dollars)	2,553;	3,926:	4,606:	17
				,
Quantity (1,000 gallons)	149: 643:			0
	718:	1,137:	1,257:	<u> </u>
	1	ì		
Value (1,000 dollars)	5,167:	5,540. :	4,83/: :	- 13
Value (1,000 dollars):	115,553:	175,219:	111,660	-36

Table 4.--Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	1982	
	(1)	(2)	(3)	(4)
Hides and skins	•• •• •	•• •• •		
Imports: Value (1,000 dollars)	87,383:	100,753:	70,670	-30
Exports: Value (1,000 dollars)	682, 122:	690,974:	769,057	<del>-</del>
Imports: Quantity (1,000 pieces)	884: 24,754:	1,039: 28,226:	666:	-36 -43
Exports: Quantity (1,000 pieces)	20,261:	20,292:	23,508	4 5 5
Leather Imports: Value (1,000 dollars)	217,493:	354,234:	318,304	- 10
Exports: Value (1,000 dollars)	259,485:	266,464:	274,537	m 
Imports: Quantity (1,000 square feet)	38, 108: 36,658:	57,322: 55,016:	67,695	18
Exports: Quantity (1,000 square feet)	46,609: 52,650:	26,812: 30,753:	21,411	-20
Imports: Value (1,000 dollars)	165,849:	193,794:	149,649	-23
Exports: Value (1,000 dollars)	480,956:	432,490:	333,559	-23
Imports: Quantity (1,000 pieces)	2,675:	3,352:	2,840	-15
Exports: Quantity (1,000 pieces)	3,377:	3,179:	3,406	7-
to or	41,949:	41,248	42,068	8
Exports. Value (1,000 dollars)	3,628:	3,624:	3,595	ī

Table 4.--Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	. 1981	1982	:Percent :Change : from
	£ 	(2)	(3)	(4)
ive plants	• • • •			
Imports: Value (1,000 dollars)	: 27,533	26,581:	27,812	
Exports: Value (1,000 dollars)	26,717	35,350:	35,610	, <b></b>
Imports: Value (1,000 dollars)	50,115	53,713:	65,185	21
Value (1,000 dollars)	163,215	167,476:	164,543	-2
Imports: Value (1,000 dollars)	37,306	47,526:	68,770	. t
Exports: Value (1,000 dollars)	: 16,557,549	17,900,458:	13,422,105	-25
Imports: Quantity (1,000 bushels)	917	1,203:	934	1 1 2 3
Exports: Quantity (1,000 bushels) Value (1,000 dollars)	: 2,485,378 : 8,563,855	2,158,500: 8,007,074:	1,924,115	-11
Imports: Quantity (1,000 pounds)	570	2,300: 4: 2,300: 4:	1,814	-21
Exports: Quantity (1,000 pounds)	1,700,432	2,864,500:	1,267,149	1568
Imports: Quantity (1,000 bushels)	212 212	34:	2,093	6,056
Cyports: Quantity (1,000 bushels)	: 1,313,577 : 6,374,561	1,613,339:	1,498,408	-7
L 1	:	0: 10,400:	16,462	, <sub>2</sub>
Value	1,339,10	5: 1,366,149:	1,127,650	-17

Commodity area :	1980	1981	1982	:Percent :Changa : from
	(1)	(2)	(3)	(2) to (3) (4)
rice t-s:	,	, c	i c	
Quantity (1,000 pounds)	1,819:	15,701:	58,256: 9,110:	144
Value (1,000 dollars)	5,065,991: 993,562:	4,111,892: 981,610:	4,368,375: 824,643:	6 - 16
Imports: Quantity (1,000 hundredweight)	42: 643:	157: 3,016:	3,038:	69
Quentity (1,000 hundredweight)	24,023: 283,007:	27,770:	39,517:	42
Imports: (1,030 dollars):	32,463:	37,133	32,846:	- 12
Exports: Value (1,000 dollars)	33,952:	45,850:	45,709: :	0
Imports: Quantity (1,000 pounds)	160,091: 18,762:	111,234: 15,296:	89,659: 13,028:	- 19 - 14
exports: Quantity (1,000 pounds)	59,006: 9,232:	34,175: 7,783:	110,159: 18,271:	222
Imports: Value (1,000 dollars)	12,979:	21,242:	18,569:	- 13
Vegetables, fresh, chilled, or frozen	23,863:	37,255:	27,078:	-27
Quantity (1,000 pounds)	1,862,314:	1,726,894:	1,925,271:	- 1 - M
Value Value Cumber	1,853,032: 321,739:	2,244,076:	1,823,583:	- 19 - 16
Quantity (1,000 pounds)	316,222:	374,641: 54,875:	304,546:	- 19
Quantity (1,000 pounds)	30,050:	40,658:	31,487:	-23

Table 4.--Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	1982	:Percent :Change
	£	(2)	(3)	(2) to (3) (4)
toes	•• ••			
11 ~~ ~~	651,724:	525,885: 238,255:	592,618	13
Exports: Quantity (1,000 pounds)	263,033: 43,381:	192,342: 50,023:	175,441	6 1 1
	64,858:	96,421:	77,187	-20
Value (1,000 pounds)	1,814,670: 554,757:	2,282,376:730,565:	1,622,382	-29 -40
	116,268:	156,482:	228,957	9+5
0 01 10 1	97,806:	127,954:	120,576	9-
imports: Quantity (1,000 pounds)	119,474:	90,645: 98,030:	52,223 56,581	142
Quantity (1,000 pounds)	2,251:	2,717:3,043:	2,324	1 4 4
Alue (1,000 dollars)	117,303:	88,634: 84,116:	50,189 46,261	-43 -45
cxpo Qu Va Va s, sh othe	391:	497:	232	-48
ומירינו	256,856,432: 231,038:	690,059,389:	277,733,375 226,710	-60
O B C	1423,966,019: 817,554:	933,857,018: 623,797:	1044,690,722 582,934	12

Commodity area	1980	1981	1932	Percen Change from
	E	(2)	(3)	(2) to (3) (4)
Almonds Imports: Guantity (nounds)	l n	4	∞	4
(1,000 d	)			257
Countity (pounds)	224,372,235:	194,448,293: 307,890:	196,067,838: 236,934:	-23
Imports: Quantity (pounds)	13,298,182:	7,860,777:	15,807,517	101
Exports: Quantity (pounds)	19,515,994:	19,078,287:	9,931,604: 4,583	1 1 3 4 8
Imports: Quantity (pounds)	939,414:	3,287,451:	6,440,023	96
Exports: Quantity (pounds)	943,325:	760,887:	2,753,536 5,802	262
10 11 61	6,547,125:	6,717,512:	7,237,263	128
Exports: Quantity (1,000 pounds)	3,400,120:	3,490,322: 856,962:	3,612,555	4 -7
Imports: Quantity (1,000 pounds)	34,712:	33,692: 14,573:	38,785 22,154	15
Exports: Quantity (1,000 pounds)	57,156:	56,031: 27,596:	53,930	12 23
Imports: Quantity (1,000 pounds)	1,483:	152:	3111 393	104
Exports: Quantity (1,000 pounds)	19,561:	21,158:	620,407	2,832

Commodity area :	: 1980 :	1981	1982	Perce Chang from
	 E		(3)	(2) to (3) (4)
4-				
mports Quant Value	202,119:	203,587:	189,404: 48,874:	7- -9
Exports:	2,099,028: 384,545:	2,030,608: 418,768:	1,671,510: 386,229:	1 18
Imports: Quantity (1,000 pounds)	39,855:	27,085: 20,183:	43,966:	52
Exports: Quantity (1,000 pounds)	274,635: 213,990:	284,782: 224,282:	271,012:	11
Quantity (1,000 pounds)	7.18,212: 255,195:	647,376:	658,847:	0.80
Exports: Quantity (1,000 pounds)	412,626: 164,022:	417,635:	343,969:	118
S to a	82,898: 78,708:	85,610: 77,964:	104,657:	22
Exports:  Quantity (1,000 pounds)	4,202:	5,118:	4,497: 3,365:	- 12 - 14 - 14
Imports: Quantity (1,000 pounds)	6,868:	9,942:	8,043:	118
Exports: Quantity (1,000 pounds)	3,991:	4,592 1,604:	3,549:	-23
mports: Quantity (short ' Value (1,000 o	4,190,457: 1,995,051:	5,120,730:	2,637,862: 798,892:	-48 -63
Val Val	621,155:	988,450: 506,786:	77,705:	- 92 - 96

Table 4.--Annual data on U.S. imports and exports for selected commodity groups

	Commodity area	1980	1981	1982	:Percent :Change
		£	(2)	(3)	(2) to (3) (4)
Molasses					
imports: Quantity Value	(short tons)	1,133,407: 95,422:	1,161,891:	1,210,925:	4 9 9 - 9 - 9
Exports: Quantity Value Corn sweeten	(short tons)(1,000 dollars)	298,383: 28,996:	257,829: 26,414:	277,255: 21,105:	-20
Imports: Quantity Value		157,966:	897, 179:	653,096: 267:	-27 36
Exports:	s: tity (pounds, dry basis)  (1,000 dollars)  or blended sugars, sirups, and molasses, e sugar and sirup, and honey	83,747,982: 22,110:	75,843,461: 21,870:	36,383,168: 10,031:	1 1 152 14
Imports: Value	(1,000 dollars)	34,726:	47,612:	57,318:	20
Exports: Value Cocoa and conf	(1,000 dollars)ectionery	39,563:	38,262:	30,994:	- 19
Imports: Quantity (	pounds)1,000 dollars)	802,488,238:	: 1038,466,005: 999,970:	900,488,524: 787,582:	-13
Exports: Quantity (  Value ( Coffee and cof-	/ (pounds)	72,543,364:	76,929,347: 87,244:	76,326,671: 85,645:	1.2
Value (	1,000 dollars)	4,320,387	3,019,422	3,034,822:	-
Exports. Value ( Coffee	1,000 dollars)	134,395:	142,248:	125,388:	- 12
Imports: Value	(1,000 dollars)	4,186,295	2,882,341:	2,903,114;	-
Spices	(1,000 dollars)	124,571:	130,372:	114,678:	- 12
Imports: Value (	1,000 dollars)	147,596	136,033;	137,405:	_
alue (	1,000 dollars)	20,885:	22,217:	20,899:	9-

Table 4.--Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	1982	:Percent :Change : from
	<del>.</del>	(2)	(3)	(2) to (3) (4)
ices	4	ı	L	L
Value (1,000 dollars)	145,593	295,294:	469,057	66
00000	217,852	246,282:	230,363	9-
Value (1,000 dollars)	31,397	37,964:	48,381	27
Value (1,000 dollars)	91,806	49,756:	49,676	0
Imports: Quantity (1,000 gallons)	141,588	161,848:	178,387	10
Exports:     Quantity (1,000 gallons)	35,175	20,365: 38,914:	16,836	- 17
>	102,833:	115,504: 761,594:	122,533	9.6
Exports: Quantity (1,000 gallons)	7,904:	10,759:	9,131:38,344:	1 1 2 2
Imports: Quantity (1,000 proof gallons)	113,713	117,938:	106,032	- 10
Exports: Quantity (1,000 proof gallons)	6,662:	7,181:55,806:	10,046: 66,472:	40
orts alue	486,589	556, 144	568,913	2
o La	2,425,535	2,722,784:	2,844,512	4
port Quan Valu	568,624:	567,060:	590,117	40
guant Quant Value	81,998:	82,581:	73,585:	

Commodity area	1980	1981	1982 : (	:Percent :Change : from
	(1)	(2)	(3)	(4)
Cigars	•••••		•• •• ••	
Quantity (thousands)	118,833:	123,599:	125,544:	1.2
exports: Quantity (thousands)	354:	181:	181: 10,516:	05
Imports: Value (1,000 dollars)	51,043:	86,771:	59,462:	-31
Exports: Value (1,000 dollars)	6,341,737:	6,732,656:	6,657,716:	ī
Imports: Quantity (1,000 pounds)	34::-	349: 26:	189: 19:	-46 -26
Exports: Quantity (1,000 pounds)	416,792: 38,850:	56,171: 10,599:	82,809: 9,747:	47
Imports: Quantity (1,000 pounds)	67,919: 8,641:	260,280: 36,621:	112,255:	-57 -63
Exports: Quantity (1,000 pounds)	8,623:	1,176:	33,171: 3,077:	2,719
Imports: Quantity (1,000 pounds)	13,227:	18,735:	14,195:	-24 -42
Exports: Quantity (1,000 pounds)	49,007,009: 5,882,893:	51,947,948:	62,054,625: 6,239,860:	19
	41,704: 4,615:	80,351: 9,573:	70,123:	-13
Exports: Quantity (1,000 pounds)	3,385,125:	3,759,642:	3,218,813:	-14

Commodity area	1980	1981	1982	Perce Chanc from
	••		••••	(2) to
	(1)	(2)	(3)	(4)
Animal and vegetable oils, fats and greases				
Imports:   Quantity (1,000 pounds)	1,567,130:	1,694,651:	1,554,754:	-8 -18
Exports:     Quantity (1,000 pounds)	7,706,906: 1,986,545:	7,235,365:	6,971,728: 1,598,703:	-4 -12
Imports: Quantity (1,000 pounds)	 	29:	11:	-75
Exports:     Quantity (1,000 pounds)	148,301: 60,357:	182,922:	207,037:	13 15
Imports: Quantity (1,000 pounds)		93:		-100
Exports:     Quantity (1,000 pounds)	760,320: 218,018:	692,389:196,085:	848,940: 204,314:	23
Imports: Quantity (1,000 pounds)	41:	11:	114:	931
Exports: Quantity (1,000 pounds)	2,352,557:	1,756,445:	1,920,723:	67
Imports: Quantity (1,000 pounds)	1,522,313:	1,645,541:	1,517,934:	8-1-8
Exports:     Quantity (1,000 pounds)	498,709: 144,652:	751,115: 226,807:	301,660:	-60 -61
Aguantity (1,000 pounds)	35,746: 10,174:	37,264:	26,771:	-28
Value (1,000 dollars)	3,720,654: 805,554:	3,669,615: 787,281:	3,431,390:	-6
				-

Commodity area	1980	1981	1982	:Percent :Change : from
••••••	 E	(2)	(3)	(2) to (3) (4)
Shortening and cooking oils				
Unports: Quantity (1,000 pounds)	9,023:	11,696:	9,923	-15
Cycantity (1,000 pounds)	226,362: 92,308:	182,876:	261,975	43
Quantity (1,000 pounds)	184,175:	236,925:	193,600	1 1
Cyborts: Quantity (1,000 pounds)	26,534:	22,700:33,384:	19,433	16
Quantity (pounds)	110,467,659:	105,795,581:	129,624,851	23
Quantity (pounds)	53,526,111: 32,439:	62,137,196: 39,074:	62,715,000 41,003	<u>~</u> ₩
Quantity (pounds)	44,272,927:	47,219,564:	58,528,300 23,597	34
Cereal breakfast foods  Careal breakfast foods	10,273,994:	10,595,277:	10,598,099	0 9
Quantity (pounds)	30,662,174:	29,105,652:	25,310,452	- 13
chewing gum	37,321,916:	46,355,357:	55,043,867	20
Quantity (pounds)	15,387,172: 9,508:	12,988,315:	13,093,433	
Quant Value	14,950,580:	15, 132, 761:	8,902,300	141

Table 4.--Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1930	1981	1982	:Percent :Change : from
	: E	(2)	(3)	(2) to (3) (4)
Macaroni, noodles, vermicelli, and similar			1111	
Imports: Quantity (pounds)	83,214,460:	101,921,299:	118,781,965:	17
Exports: Quantity (pounds)	5,171,029: 2,532:	8,115,167: 3,905:	14,785,327:	82 96
,	28,634:	34,126:	38,489	13
Exports: Value (1,000 dollars)	38, 159:	43,694:	46,902	7.
Imports: Quantity (pounds)	10,431,450:	: 11,806,267: 20,102:	13,339,577:	13
Quantity (pounds)	35,939,351: 16,374:	32,516,271: 15,795:	32,064,032 16,479:	1 4
Imports:   Quantity (pounds)	141,439,027:	152,349,968:	156,035,567 103,148	00
exports. Quantity (pounds)	794,854,982: 355,114:	733,345,392: 413,055:	722,753,441: 451,250:	- 6
Quantity (1,000 short tons)	696: 108,965:	868:	870: 138,547:	04
Exports: Quantity (1,000 short tons)	15,433: 2,881,907:	14,247: 2,746,867:	13,891:	ю 6 ПП.
Imports: Value	6,285:	6,709:	3,324	-50
00001	67,993:	66, 185:	48,091	-27

Table 4.--Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	1982	Percent Change from
		(2)	(3)	: (2) to : (3) : (4) :
Cut flowers, fresh; bouquets, wreaths, sprays, or: similar articles made from such flowers or cother fresh plant parts				
Value (1,000 dollars)	88,580:	102,804:	130,231	27
Value (1,000 dollars)	7,386:	9,512:	9,835	m
Value (1,000 dollars)	39,837:	35,767:	32,616	Ĉ
Value (1,000 dollars)	71,048:	:999'86	70,266	-29
Quantity (pounds)	826,035: 18,834:	1,454,391:	1,997,314: 45,384:	37
Imports: Value (1,000 dollars)	85,686:	89,955:	109,119	21
Value (1,000 dollars)	50,846:	54,851:	49,612:	100

Table 5.--Summary of trade-monitoring gates triggered for selected commodity groups, 1982

Exports							10
Exp	·			60		60	60
			0	(80)		(07)	(0)
	09 05 (04)	(04)	(02)	90	(04)	(04) (04) 04	90
	0 00 0	(04) (01) (03) (03)	02) 06) 06)		010	010 010 010 010 010	0.1 0.1) 0.4)
			*** **********************************				
			A Section 1				
Imports				gage som som som Som som som som som som som som som som s			
Im			0 0				
	60		6 0			(01)	
	04 05 (04)	60	(06)	(04)	60	(04) 04 09 04 (07)	
	03 01 02 (01) (01)	.4 4	04 (03) 09	03	04 (01)	001000000000000000000000000000000000000	(04) 09 04
Commodity area :	Live animals, except birds and poultry	ved, except sausag	Other fish in airtight containers, including :     anchovies, bonito, and herring	except fluid and condensed or milk and cream, cheeses, butter, and ice cream————————————————————————————————————	Cattle hide upper leather————————————————————————————————————	ce (paddy and sate record)	ts-0

Table 5.--Summary of trade-monitoring gates triggered for selected commodity groups, 1982

Exports	(01) (04) (03) 09 (04) 07 09 (01) (04) 07 09 (06) 06 06 (08)	(03) (06) (08) (03) (06)	06 (08) 09 03 06 08 09 09 09 (03) (06) 09 10
i Imports :		· · · · · · · · · · · · · · · · · · ·	6 6
Ι	(04) 07 (01) 04 (07) (01) (04) (03) (06) 09 03 06 (08) 0 06 (08) 09 03 06 09 03 06 09	(04) (03) (06) (03) (08) 08 09	(03) (06) (03) (06) (03) (06) (03) (06) (08) (08) (09) (03) (06) (08) (09) (09) (09)
Commodity area	ucumbers, fresh, chilled, or frozen-omatoes, fresh, chilled, or frozen-etables, dried, desiccated or dehydrate betables, processed (except dried or frooms and truffles-commons, other than fresh or dried-commonds-commond	tallized, or glace nuts, fru , and molasses r beets, and sugar cane	Distilled spirits

Table 5.--Summary of trade-monitoring gates triggered for selected commodity groups, 1982

•	: Exports :	. 08 . 08 	: (03) (06) : 03 06 09		
	Imports			3) 09	3 06
	Commodity area :	Shortening and cooking oils	Chewing gum	Soups	or other fresh plant parts————————————————————————————————————

## Forest Products 1/

The U.S. balance of trade in the forest products sector showed a deficit of \$539 million for 1982 compared with a \$430 million deficit in 1981 (table 6, fig. 2). U.S. imports totaled \$9.0 billion in 1982, a 6-percent decline from \$9.6 billion in 1981. Exports from the United States were valued at \$8.5 billion in 1982, an 8-percent decline from \$9.2 billion in 1981.

Contributing to the larger deficit in 1982 were declines in exports of all forest product commodities except roughwood, miscellaneous books, and printed matter. Although imports in most categories of forest products were higher in 1982, significant declines in the industrial paperboard and wood pulp categories resulted in an overall decline in imports.

#### U.S. bilateral trade

U.S. trade in forest products involves a large number of foreign markets and supplier countries, but the great bulk of the trade traditionally involves only a handful of countries. In 1982, Japan, the EC, Canada, the OPEC, and Mexico received 73 percent of U.S. exports. Canada supplied 77 percent of U.S. forest product imports during 1982. Between 1981 and 1982, exports to Canada and the EC declined 12 and 13 percent, respectively, and imports from Canada declined 6 percent. The following discussion presents U.S. bilateral trade information covering selected trading partners of the United States.

<u>Canada</u>.—During 1981 and 1982, the United States was a net importer of forest products from Canada. During this period the trade deficit declined by 4 percent, from \$5.8 billion in 1981 to \$5.6 billion in 1982. This was precipitated by a \$430 million decrease in imports from Canada during this period.

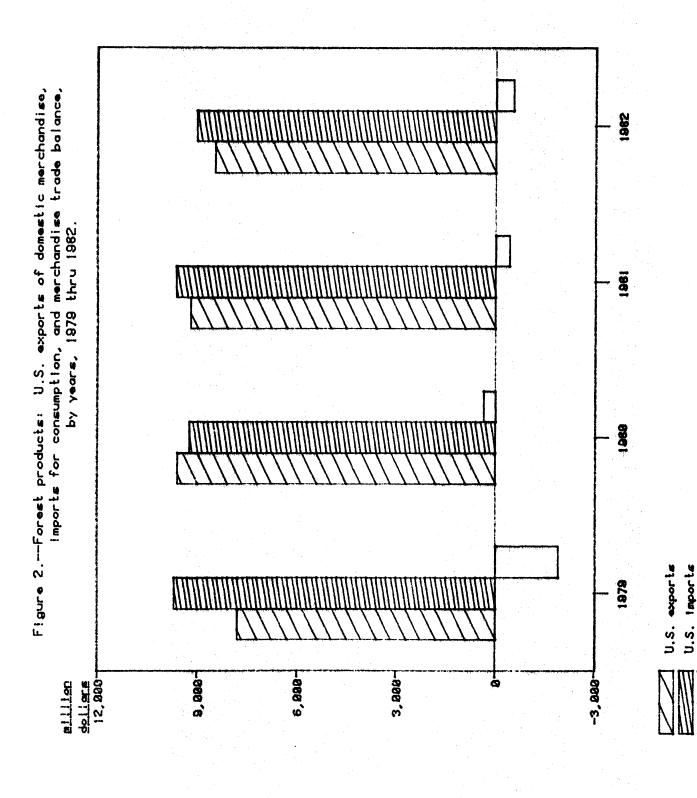
The major forest products exported from the United States to Canada are printed material, miscellaneous books, fine papers, lumber, and industrial papers; in 1982 these five commodity groups accounted for 75 percent of total forest product exports to that market. Fine papers, lumber, and wood pulp accounted for 88 percent of the forest products imported from Canada in 1982.

Between 1981 and 1982, U.S. exports of fine papers, lumber, and industrial paperboard to Canada declined 19, 38, and 26 percent, respectively. During that period exports of fine papers declined from \$203 million to \$165 million, exports of lumber fell from \$206 million to \$128 million, and exports of industrial paperboard declined from \$133 million to \$99 million. These decreases accounted for the bulk of the decline in exports. This was due to the continued slump in Canada's economy and the unfavorable exchange rate faced by U.S. exporters to Canada. Imports of chemical wood pulp and softwood lumber between 1981 and 1982 decreased 16 and 8 percent, respectively. The decrease in chemical wood pulp imports from \$1.5 billion in 1981 to \$1.3 billion in 1982 was partly due to the increase in

<sup>1</sup>/ Included here are the commodities classified in schedule 2 of the Tariff Schedules of the United States: Wood and wood products, paper and paper products, and printed matter.

Table 6.--Forest products: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1980, 1981, and 1982 1/2.

	••		
	••	••	
U.S. exports of domestic merchandise:	••	••	
Canada	1,336,847 :	1,583,437 :	1,395,589
Japan	2,584,615 :	1,901,365 :	1,869,305
KC	2,289,446 :	2,109,205 :	1,832,333
Brazil	43,365 :	41,993 :	38,687
Hong Kong	56,221 :	59,936 :	71,701
	19,892 :	27,082 :	19,528
Kores	238.893 :	221.658 :	247,126
Hexico	570,620 :	625,648:	527.138
Talwan	100.452 :	101, 747	105 338
0088	WAR KN2 .	. 800 405	14 433
	. 200,004	. 040,040	334,416
	. +10,002	. 600,022	170,007
611 Office	244,650	232,730 :	275,161
All UCRef	1,621,016 :	1,702,515 :	1,534,889
Total	9,608,788 :	9,217,577 :	8,482,079
U.S. imports for consumption:		••	
Canada	7,121,188 :	7,378,796 :	6.949.123
Japan	181.045 :	200.699 :	182,992
22	. 475,016	445 597	A63 A03
	109 173	. 068 241	110 311
Hone Tone	. 769 99	. 000,000	3C 1 CTT
1941	: #/6,60	: 971,50	669,79
	: 26,832	: 2/0'/	7,584
NOTOBER	: 602,801	165,911	109,145
HeX1CO	161,548 :	190,057 :	204,325
I 8 I W8.N	: 291,718 :	320,371 :	282,518
OPEC	31,645 :	44,710 :	66,521
	: 65,623 :	88,383 :	81,986
China	: 50,835 :	71,632 :	68,922
All Other	582,758 :	594,044 :	494,383
Total	9,251,856 :	9,647,202 :	9,020,612
U.S. merchandise trade balance:	••	•••	
Canada	: -5,784,341 :	-5,795,359 :	-5,553,533
Japan	2,403,570 :	1,700,665 :	1,686,313
BC	1,814,429 :	1,663,607 :	1,368,929
Braz11	: -65,808 :	-103,836:	-17,240
Hong Kong	::	-5,189 :	100'6
India	11,539 :	19,409 :	11,944
Korea	: 80,683 :	55,747 :	137,981
Hexico	409,072 :	435,590 :	322,812
Talwan	: -191,265 :	-218,624 :	-117,119
OPEC	: 454,956 :	549,387 :	487,891
NMES	: 195,190 :	160,506 :	204,041
China	193,815 :	161,097 :	206,238
A11 Other	1,038,257 :	1,108,471:	1,040,505
Total	356,931 :	-429,624 :	-538,532
	•	•	



Source: Compiled from official statistics of the U.S. Department of Commerces. U.S. trade balance

operations producing such pulp in the United States. Softwood lumber imports decreased from \$1.7 billion in 1981 to \$1.6 billion in 1982, due to the continued U.S. construction slump.

Japan.—The United States was a net exporter of forest products to Japan in 1981 and 1982. The positive trade balance decreased marginally from \$1.70 billion in 1981 to \$1.69 billion in 1982. From 1981 to 1982, exports declined from \$1.90 billion to \$1.87 billion and imports declined from \$201 million to \$183 million.

The major forest products exported to Japan were softwood logs, wood pulp, softwood lumber, industrial paperboard, and fine papers, accounting for 81 percent of the value of total exports in 1982. Miscellaneous books, printed matter, industrial papers, and hardwood veneer and plywood accounted for 83 percent of all forest product imports from Japan.

Between 1981 and 1982, U.S. exports to Japan decreased marginally. Wood pulp, exports of which fell 11 percent from \$303 million in 1981 to \$270 million in 1982, accounted for the bulk of the decline, which was due to the worldwide glut in wood pulp. Most of the decline in imports of forest products from Japan was accounted for by imports of hardwood veneer and plywood, which decreased 29 percent from \$48 million in 1981 to \$34 million in 1982.

EC.—During 1981 and 1982, the United States was a net exporter of forest products to the EC. The favorable trade balance declined 18 percent from 1981 to 1982—from \$1.7 billion to \$1.4 billion. Most of the decline was accounted for by a decline in exports from \$2.1 billion in 1981 to \$1.8 billion in 1982.

The major U.S. forest products exported to the EC were chemical wood pulp, industrial paperboard, and lumber, which accounted for 57 percent of U.S. forest product exports to the EC in 1982. U.S. imports of miscellaneous books, printed matter, fine papers, and industrial papers accounted for 89 percent of U.S. forest product imports from the EC in 1982.

U.S. exports of chemical wood pulp, industrial paperboard, and lumber to the EC fell during 1981 and 1982. Chemical wood pulp exports declined 13 percent from \$621 million in 1981 to \$542 million in 1982. During the same period, industrial paperboard exports declined 12 percent from \$305 million to \$267 million and lumber exports fell 4 percent from \$236 million to \$227 million. These declines were the result of the continued slump in the EC economy. The slight rise in imports from the EC was attributable to fine papers—wallpaper, coated printing paper, and paper and paperboard cut to shape—and industrial papers—insulation, cartons, and sheets of cellulose. During 1981 and 1982, imports of fine papers rose 15 percent from \$71 million to \$82 million and imports of industrial papers rose 24 percent from \$61 million to \$76 million.

<u>Brazil</u>.—The United States decreased its forest products trade deficit with Brazil from \$104 million in 1981 to \$77 million in 1982. U.S. imports decreased 21 percent from \$146 million in 1981 to \$116 million in 1982, causing the decrease in the trade deficit.

Fine papers, miscellaneous books, and wood pulp accounted for 63 percent of the U.S. forest products exported to Brazil in 1982. The major U.S. forest product imports from Brazil in that year were chemical wood pulp, hardwood lumber, and plywood, which accounted for 89 percent of total U.S. forest product imports from that country in 1982.

U.S. exports of wood pulp to Brazil decreased by \$2 million (41 percent), accounting for 63 percent of the total decline in U.S. forest product exports to that country in 1982. This decrease was due in part to increased production in Brazil. U.S. imports of lumber and plywood from Brazil (primarily hardwood veneer and plywood and hardboard) decreased 43 and 23 percent, respectively, from \$47 million in 1981 to \$28 million in 1982 for lumber and from \$37 million to \$28 million for plywood during this same period. U.S. imports of hardwood lumber and plywood decreased due to the housing slump in the United States.

Hong Kong.—The United States was a net exporter of forest products to Hong Kong in 1982, showing a favorable trade balance of \$9 million. This was a reversal from 1981, when the United States had a trade deficit of \$5 million. The turnaround was due to a 20-percent increase in U.S. exports of forest products to Hong Kong, from \$60 million in 1981 to \$72 million in 1982, and a 4-percent decrease in U.S. imports of such products, from \$65 million to \$63 million.

The major U.S. forest products exported to Hong Kong in 1982 were industrial paperboard, industrial papers, fine papers, and softwood logs, which collectively accounted for 75 percent of U.S. exports of forest products to Hong Kong in that year. Miscellaneous wood manufactures and miscellaneous books accounted for 70 percent of the U.S. imports from Hong Kong in 1982.

U.S. exports of softwood logs and fine papers to Hong Kong increased by 134 and 35 percent, respectively, accounting for 76 percent of the total increase in U.S. exports of forest products to that country in 1982. From 1981 to 1982, exports of softwood logs rose from \$4 million to \$10 million and fine papers rose from \$9 million to \$13 million. The decrease in U.S. imports of forest products from Hong Kong in 1982 was due primarily to the drop in entries of miscellaneous wood manufactures (wood dowels, blinds, shutters, screens, and shades), which are closely tied to the prosperity of the U.S. housing industry. Such wood manufactures declined 24 percent from \$33 million in 1981 to \$25 million in 1982.

India.—In 1981 and 1982, the United States enjoyed a favorable forest products trade balance with India. However, the U.S. trade surplus fell 38 percent from \$19 million in 1981 to \$12 million in 1982. The major reason for this was a decline in U.S. exports of forest products to India, which were down 28 percent from \$27 million in 1981 to \$20 million in 1982, while U.S. imports of such products from India remained unchanged at \$8 million.

Major U.S. forest product exports to India during 1982 were wood pulp (chemical and special alpha and dissolving grades), miscellaneous books, and fine papers, which accounted for 83 percent of the U.S. forest products exported to India in 1982. Miscellaneous wood manufactures (jewelry and

similar wood boxes, household utensils, decorative articles, housewares, and natural cork and cork waste), waste paper, manuscripts, and miscellaneous books accounted for 97 percent of the U.S. imports of forest products from India in 1982.

The decline in U.S. exports to India was mainly due to a decline in exports of wood pulp, specifically chemical wood pulp and special alpha and dissolving grades, which declined 44 percent from \$16 million in 1981 to \$9 million in 1982. Imports of waste paper and manuscripts increased dramatically from less than \$1 million in 1981 to \$2 million in 1982, and those of miscellaneous books and miscellaneous wood manufactures decreased by a similar amount. Thus, the level of U.S. imports of forest products from India was unchanged during the period.

<u>Korea.</u>—In 1981 and 1982, the United States was a net exporter of forest products to Korea. The positive trade balance more than doubled from 1981 to 1982, increasing from \$56 million to \$138 million. This was caused by a \$57 million decline in U.S. imports from Korea and a \$26 million increase in U.S. exports to Korea in 1982.

Softwood logs, waste paper, and chemical wood pulp accounted for 80 percent of U.S. forest product exports to Korea in 1982. The major forest products imported from Korea in that year were hardwood veneer and plywood, albums (photographic albums, scrapbooks, and diaries) and wallpaper, which accounted for 90 percent of the total.

Between 1981 and 1982, U.S. exports of softwood logs to Korea increased 77 percent from \$48 million in 1981 to \$85 million in 1982. This increase accounted for all of the rise in exports as those of chemical wood pulp declined 15 percent during the period. The increase in softwood log exports was due to the construction slump in the United States, which drove down the demand for logs (raw material of lumber and plywood) in the United States, thus making more logs available for export. U.S. imports of hardwood veneer and plywood from Korea decreased 45 percent from \$125 million in 1981 to \$68 million in 1982, accounting for virtually all of the total decline of U.S. forest product imports from Korea. This decline was also due to the slump in construction activities in the United States.

Mexico.—In 1981 and 1982, the United States was a net exporter of forest products to Mexico though the favorable trade balance declined from \$436 million to \$323 million. The decline reflected a 16-percent decline in U.S. exports of such products to Mexico, from \$626 million in 1981 to \$527 million in 1982, coupled with an 8-percent rise in U.S. imports of forest products from Mexico, from \$190 million to \$204 million in the same period.

Major U.S. exports of forest products to Mexico during 1982 were industrial paperboard, wood pulp, and fine papers, which accounted for 68 percent of the total U.S. exports of forest products to that country. Industrial paperboards, miscellaneous wood manufactures (mostly picture frames), and millwork (wood molding and wood doors) accounted for 84 percent of U.S. forest product imports from Mexico in 1982.

The major cause of the decline in U.S. exports of forest products to Mexico was a decline of 43 percent in exports of fine papers, from \$199 million in 1981 to \$68 million in 1982. The rise in U.S. forest product

imports from Mexico is largely attributed to industrial paperboard, imports of which increased 16 percent from \$83 million in 1981 to \$97 million in 1982. These changes in exports and imports are attributed to the faltering Mexican economy and the massive devaluation of the peso.

Taiwan.--In 1982, the United States had a trade deficit with Taiwan in forest products. However, it was smaller than in 1981--dropping from \$219 million in 1981 to \$177 million in 1982. This was caused by an increase in U.S. exports of forest products of 4 percent (\$102 million in 1981 to \$105 million in 1982) and a decrease in imports of 12 percent (\$320 million in 1981 to \$283 million in 1982).

Exports of wood pulp and waste paper accounted for 59 percent of the U.S. forest products sent to Taiwan in 1982. Miscellaneous wood manufactures (household utensils, decorative articles, housewares, and jewelry and similar wood boxes) and hardwood veneer and plywood were the major U.S. imports of forest products from Taiwan in 1982, accounting for 88 percent of all forest product imports from that country.

- U.S. exports to Taiwan of softwood and hardwood logs, plywood, and printed matter rose a combined 44 percent from \$12 million in 1981 to \$17 million in 1982. This accounted for most of the net increase in exports. U.S. imports of hardwood veneer and plywood from Taiwan dropped 25 percent from \$149 million in 1981 to \$112 million in 1982. This was caused by the Philippines' restriction of log exports. That country had been a leading supplier of Taiwan's raw material for manufacturing hardwood veneer and plywood. This also helped to increase U.S. exports of logs to Taiwan.
- OPEC.—In 1981 and 1982 the United States was a net exporter of forest products to OPEC; however, the favorable balance slipped from \$549 million in 1981 to \$488 million in 1982, or by 11 percent. The cause of this decline was a drop of 7 percent in U.S. exports of such products to OPEC, from \$594 million in 1981 to \$554 million in 1982, and an increase in U.S. imports of forest products from OPEC from \$45 million to \$67 million in the same period.
- Major U.S. exports of forest products to OPEC in 1982 were industrial papers, industrial paperboard, fine papers, and wood pulp, which together accounted for 61 percent of the total U.S. exports of forest products to OPEC. Hardwood veneer and plywood and hardwood lumber accounted for 88 percent of U.S. forest product imports from OPEC in 1982.
- U.S. exports of roughwood products to OPEC declined most significantly, dropping 51 percent from \$13 million in 1981 to \$6 million in 1982, partly because of the instability of the region's economic base. Hardwood veneer and plywood imports from the United States rose 88 percent from \$26 million in 1981 to \$50 million in 1982. This was influenced by the decrease of such imports entering the OPEC countries from other countries.
- NME's.—The United States increased its favorable trade balance with the NME's in forest products from \$161 million in 1981 to \$204 million in 1982. This was caused by an increase in U.S. exports of forest products to the NME's of 15 percent from \$249 million in 1981 to \$286 million in 1982, as U.S.

imports from the NME's declined 7 percent during the same period from \$88 million to \$82 million. In 1982 the People's Republic of China accounted for 96 percent of the U.S. exports of forest products to the NME's and 84 percent of U.S. imports of such products from the NME's.

The major forest product exported to the People's Republic of China from the United States in 1982 was softwood logs. Such exports accounted for 77 percent of total U.S. forest product exports to that country in 1982. Unspun fibrous vegetable materials (bamboo, rattan, etc.) accounted for 87 percent of the U.S. imports of forest products from the People's Republic of China in 1982.

U.S. softwood log exports to the People's Republic of China increased 139 percent from \$89 million in 1981 to \$212 million in 1982 due to the increased demand by that country for these products. There were no significant changes in U.S. imports of forest products from the People's Republic of China during 1982 owing to the continued slump in U.S. construction activities.

## Commodity analyses

<u>Wood and wood products</u>. 1/--U.S. imports and exports of wood and wood products decreased by 12 and 6 percent, respectively, from 1981 to 1982. Imports fell from \$3.5 billion in 1981 to \$3.1 billion in 1982, and exports declined from \$3.0 billion in 1981 to \$2.8 billion in 1982.

Lumber imports decreased 10 percent from \$1.9 billion in 1981 to \$1.7 billion in 1982. This decline, as with wood products in general, was due to the depressed construction market in the United States. Most of the lumber came from Canada. The level of Canadian lumber exports to the United States is very dependent on the well-being of the U.S. construction industry.

The most notable decline in exports was in lumber and plywood, which dropped 12 and 27 percent, respectively, from 1981 to 1982 as a result of the worldwide construction slump (especially in Canada). U.S. exports of lumber to Canada declined 38 percent from \$206 million in 1981 to \$128 million in 1982. Plywood exports to Canada and the EC declined from \$273 million in 1981

 $<sup>\</sup>underline{1}$ / Wood and wood products are found in pts. 1, 2, and 3, schedule 2, of the Tariff Schedules of the United States.

to \$180 million in 1982, or by 34 percent, reflecting the construction slumps in those countries. 1/

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Paper and printed matter. 2/--U.S. imports and exports of paper and printed matter declined from 1981 to 1982, a direct result of the worldwide recession. Imports declined 3 percent from \$6.2 billion in 1981 to \$6.0 billion in 1982, and exports declined 9 percent from \$6.2 billion to \$5.6 billion during the same period.

The major export decline occurred in exports of wood pulp, specifically chemical wood pulp, which decreased 13 percent from \$1.2 billion in 1981 to \$1.1 billion in 1982. This product is used in making packaging. Recessionary conditions have reduced the demand for packaging and thus the demand for chemical wood pulp. This was most evident in the EC.

U.S. imports of wood pulp, specifically chemical wood pulp, declined by 15 percent from \$1.6 billion in 1981 to \$1.4 billion in 1982. Imports from Canada accounted for the majority of this decrease. Imports of fine papers, which made up 56 percent of the U.S. paper and printed matter imports during 1982, remained stable.

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2/ Paper and printed matter are found in pts. 4 and 5, schedule 2, of the Tariff Schedules of the United States.

<sup>1/</sup> On Oct. 7, 1982, the U.S. International Trade Commission instituted preliminary countervailing duty investigations on softwood lumber (Inv. No. 701-TA-197), softwood shakes and shingles (Inv. No. 701-TA-198), and softwood fence (Inv. No. 701-TA-199). On Nov. 17, 1982, the Commission determined that there was a reasonable indication that such imports from Canada are materially injuring the domestic industry. Accordingly, the Department of Commerce investigated whether the imports from Canada covered by these investigations were subsidized. On Mar. 7, 1983, Commerce determined that the total estimated net subsidies for softwood lumber, softwood shakes and shingles, and softwood fence are de minimus, and, therefore, its preliminary countervailing duty determinations are negative. Commerce is scheduled to make its final countervailing duty determinations on or before May 23, 1983.

Table 7.--Annual data on U.S. imports and exports for selected commodity groups  $\underline{1}/$ 

Commodity area	1980	1981	1982 : (	Percent Change
			•	from (2) to
		(5)	(3)	(4)
Rough wood products				
Imports: Value (1,000 dollars)	283,458:	275,940	247,673:	- 10
exports. Value (1,000 dollars)	2,060,362:	1,480,478	1,554,286:	, rv
Imports: Quantity (m. board feet)	127,503: 20,153:	101,120:	117,032: 26,430:	16 34
Quantity (m. board feet)	3,260,913: 1,581,055:	2,534,224	3,208,149:1,258,084:	27
Imports: Quantity (m. board feet)	114,060:	87,576: 16,975:	98,764: 22,930:	13 35
Quantity (m. board feet)	3,109,108: 1,451,691:	2,377,099:	3,114,988:	31
Imports: Quantity (m. board feet)	13,443: 2,804:	13,544:	18,268:	35
Cuantity (m. board feet)	151,805: 129,364:	157, 125:	93,161:83,905:	141
rts anti	9,785,735:	9,442,559:	9,287,454:	-10
Exports: Quantity (m. board feet)	2,365,474: 1,026,601:	2,317,317:907,734:	1,986,186:	-14
Imports: Quantity (m. board feet)	9,388,392: 1,764,600:	9,034,388: 1,697,067:	8,973,652: 1,567,931:	1.1
Quantity (m. board feet)	1,977,364: 780,913:	1,903,809: 655,543:	1,622,588: 577,633:	115
$\frac{1}{1}$ Import values are based on Customs value; export of export.	t values are b	ased on f.a.	s. value, U.S.	port

Table 7.--Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	1982	:Percent :Change
	£	(2)	(3)	(2) to (3)
Hardwood lumber				
Imports: Quantity (m. board feet)	279,110: 135,964:	279,577: 143,358:	200,216	13,6
Exports: Quantity (m. board feet)	358,795:	381,481: 243,025:	336,651	1 1
Millwork Imports: Value (1,000 dollars)	: : : : : : : : :	99,342:	91,551	₩ 
Exports: Value (1,000 dollars)	31,346:	43,043:	34,912	
Imports: (1,000	486,662:	504,910:	464,712	δ 1
Exports: Value (1,000 dollars)	: : 266,296: :	229,316:	183,894	-20
Imports: Value (1,000 dollars)	7,154:	13, 199:	5,772	-56
exports: Value (1,000 dollars)	107,190	72,568:	46,367	-36
Imports: Value (1,000 dollars)	612,477	688,797	533, 142	-23
Exports. Value (1,000 dollars)	294,774:	365,347:	265,596	-27
Imports: Value (1,000 dollars)	479,755:	551,767	402,797	-27
Exports: Value (1,000 dollars)	119,010:	91,305:	82,517	7
(1,000	24,386:	17,294:	18, 100	
exports: Value (1,000 dollars)	113,986:	189,726:	122,400	-3
Imports: Quantity (1,000 M. square feet)	, 457: 59,185:	440: 60,099:	444 53,318	<del>-</del>
exports: Quantity (1,000 M. square feet)	127:	139: 34,942:	19,560	14-1-14-1
				•

Table 7.--Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	: : : : : : : : : : : : : : : : : : :	:Percent :Change
	: E	(2)		(2) to (3) (4)
Wood pulp				
Imports: Quantity (1,000 short tons)	4,050: 1,683,654:	4,086:	3,655:	11.1
Exports:     Quantity (1,000 short tons)	3,953:	3,809:	3,499:	1.18
Imports: Quantity (1,000 short tons)	120: 24,920:	122: 23,769:	132: 24,291:	80
Exports: Quantity (1,000 short tons)	2,664: 322,194:	2,212:	2,224:	1
$\sim$	296,587: 34,560:	280,689: 34,851:	374,370:	33
Exports: Quantity (1,000 pounds)	46,751: 9,315:	34,171:	31,138:	1 1 4
Imports: Quantity (1,000 pounds)	170,962: 24,865:	187,101: 27,587:	152,496: 23,173:	118
Exports:     Quantity (1,000 pounds)	7,076,777:	5,821,777:	5,470,259:	-13 -13
Imports: Quantity (1,000 pounds)	86,945: 11,339:	96,338:	71,965:	125
Exports:	5,100,294: 798,540:	3,982,545:	3,818,557:551,969:	18
Imports: (1,000 dollars)	3,140,867	3,326,531:	3,328,696	6
Value (1,000 dollars):	646,845:	752,716:	628,419:	-17

Table 7.--Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	1982	Percent Change from
		(2)	(3)	: (2) to : (3) : (4) :
Newsprint				
Imports: Quantity (1,000 short tons)	; 7,279: : 2,637,856:	6,977: 2,824,776:	6,530: 2,748,652:	9   1
Exports: Quantity (1,000 short tons)	. 699,461,528: 86,402:	1081,797,648: 139,702:	1230,620,076: 142,963:	2 2
Imports: Quantity (1,000 pounds)Value (1,000 dollars)	38,765:	43,337: 96,180:	40,235:	7-7-
Exports: Quantity (1,000 pounds)Value (1,000 dollars)	8,405: 14,011:	7,048:	6,036: 12,054:	- 14
Imports: Quantity (1,000 pieces)	24,757:	27,713:	35,993:	30
Exports: Quantity (1,000 pieces)	6,546: 5,608:	4,301: 8,171:	3,330:8,872:	-23
	294,872:	382,313:	406,336:	9 -
ity (1,000 pounds)	16,864:	17,568: 20,031:	131,386:	848
Exports: Quantity (1,000 pounds)Value (1,000 dollars)	306,744: 104,703:	322,863: 130,444:	340,388: 140,594:	ω∞
	216,814:	238,040: 236,456:	283,749: 305,934:	19
exports. Quantity (1,000 pieces)	267,050: 503,575:	280,218: 592,351:	294,941: 631,890:	7.07

Commodity area	1980	1981	1982	:Percent :Change
	• •• ••		• • •	(2) to
	<b></b>	(2)	(3)	(4)
rinted matter :	•	••		
Imports: Value (1,000 dollars)	306,557	319, 176:	332,494:	4
exports. Value (1,000 dollars)	608,357:	722,801:	723,490:	
Imports: Value (1,000 dollars)	34,925:	50,517:	63,071:	25
Exports: Value (1,000 dollars): Periodicals	10,057:	10,930:	13,385:	22
Imports: Value (1,000 dollars)	67, 193:	51,947:	45,515:	- 12
Value (1,000 dollars)	312,029:	363,472:	381,945:	5
Imports: Quantity (1,000 pounds)	5,660: 23,949:	383:	338: 6,710:	11 51 70
Quantity (1,000 pounds)Value (1,000 dollars)	3,259:	3,730:	2,007:	-46 -34

Table 8.--Summary of trade-monitoring gates triggered for selected commodity groups, 1982

Imports   Impo	
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# Textiles, Apparel, and Footwear Sector 1/

The textiles (including fibers) and apparel sector (excluding footwear) experienced a record \$4.8 billion deficit during 1982, almost doubling the \$2.6 billion deficit in 1981 (table 9, fig. 3). The entire deficit for this sector came from apparel, for which the trade balance went from a negative \$6.2 billion in 1981 to a negative \$7.2 billion in 1982.

The deficit marked a continuation of trends that have characterized the sector's foreign trade since 1980—exports of textiles continue to decrease while imports of apparel increase. Exports of textiles decreased by about 20 percent, from \$7.0 billion in 1981 to \$5.6 billion in 1982. The strong U.S. dollar along with weak economic activity abroad resulting from the worldwide recession have been the primary factors contributing to decreased exports and are the only significant factors affecting exports of some individual articles. Apparel imports, on the other hand, increased almost 10 percent, from \$7.4 billion in 1981 to \$8.1 billion in 1982.

The textile, apparel, and footwear items that showed significant increases in imports during 1982 compared with 1981 were filament yarns of manmade fibers, towels, women's suits and coats, men's and boys' shirts and trousers, fur apparel and articles, leather apparel, and nonrubber footwear. Imports of cordage, broadwoven fabrics, coated, filled, and laminated fabrics, and rubber footwear showed the most significant decreases. There were significant increases in exports of raw cotton, although exports of manmade fibers, filament yarns of manmade fibers, broadwoven fabrics, men's and boys' shirts and trousers, fur apparel and articles, and leather apparel declined.

#### U.S. bilateral trade

During 1981 and 1982, the major source of U.S. imports of textiles and apparel was Hong Kong, followed by Taiwan, Korea, the European Community (EC), and the nonmarket economy countries (NME's) (particularly China) and Japan. Together imports from these countries provided over 70 percent of the total value of textile and apparel imports in each year. Total U.S. textile and apparel imports were valued at \$10.8 billion in 1981 and \$11.3 billion in 1982. The bulk of imports—approximately 70 percent in both 1981 and 1982—consisted of apparel items, primarily shirts, blouses, coats, sweaters, and trousers. Imports from Taiwan showed the most significant increase—a little over 13 percent—from \$1.5 billion in 1981 to \$1.7 billion in 1982.

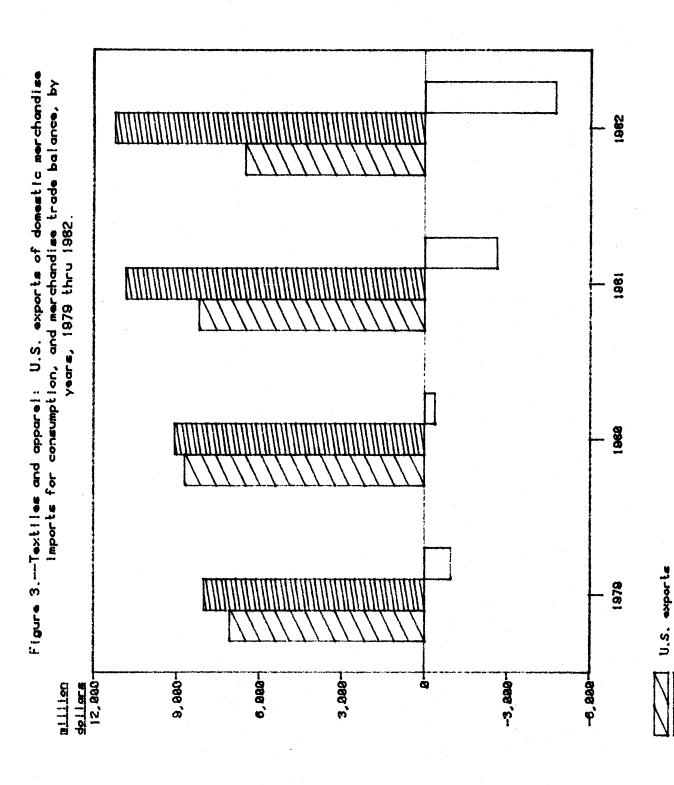
The leading source of U.S. imports of footwear was Taiwan, which supplied \$861 million in 1981 and \$921 million in 1982, or about 27 percent of the total value in both years. Following Taiwan were the EC and Korea. Together they accounted for about 70 percent of imports. Total U.S. footwear imports amounted to \$3.1 billion in 1981 and \$3.4 billion in 1982. During 1981,

<sup>1/</sup> Included here are the commodities classified in the following portions of the Tariff Schedules of the United States: schedule 3 (textile fibers and textile products), and pts. 1(A), 1(B), 12(C (pt.)), 12(D (pt.)), and 13(B) of schedule 7 (Specified products; miscellaneous and nonenumerated products).

Table 9.--Textiles and apparel: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1980, 1981, and 1982  $\underline{1}/\underline{2}/$ 

(In the	(In thousands of dollars)		
Item	1980	1981	1982
U.S. exports of domestic merchandise:	· · · · · · · · · · · · · · · · · · ·		
Canada	855.483	928.327 :	700 650
Japan	726.925 :	724.492	400 CO C
20	1,878.250 :	1.337.293	1 122 190
Brazi 1	40.427	33.765	061,221,1
Hong Kong	236.485	204.870	130 524
India	12,702 :	. 080 05	13 030
X0168	. 500 005	563 673	620,61
To a large de la l	363 046	430 RAB	024,114
	***************************************	. 996,024	280,830
	: 160,162	162,0/1 :	259,997
	: 6/b'T6C	: 011,140	635,627
NJES	1,126,947	1,128,745 :	421,269
	1,028,937 :	1,075,049 :	400,957
All Other	2,129,244 :	2,075,230 :	1,759,435
10tgl	8,713,978:	8,207,461 :	6,519,283
U.S. imports for consumption:	••	••	
Canada	139,592 :	181,812:	197,406
Japan	567,652 :	780,841 :	793,461
20	1,063,462 :	1,144,976 :	1,089,742
	105,603 :	115,066 :	106,386
Hong Kong	1.774.274 :	2.040.628 :	2.130.026
India	350, 696	37.4.698	200 122
	1 104 KOA	1 442 000	1 650 030
	226 174		401,000,1
		. 900.140	F07 ; 52
	1,304,299	1,044,01/	1,/14,031
UFEC	51,053 :	87,865 :	98,101
)	516,253:	790,623:	993,176
Ching	400,920 :	652,208:	849,263
AII Other	1,700,672:	1,992,436 :	2,025,660
Total	9,082,231 :	10,843,122 :	11,270,161
U.S. merchandise trade balance:			
Canada	715,890 :	746,514 :	503,252
	159,272:	-56,348 :	-108,587
	814,787 :	192,316:	32,448
		-81,300 :	-81,963
Hong Kong	-1,537,789 :	-1,835,758 :	-1,990,501
	-337,793 :	-343,717 :	-296,104
Korea	: -602,698 :	-898,125 :	-1,082,508
Hexico	38,769 :	73,012 :	27,726
Tal van	-1,133,208 :	-1,382,445 :	-1,454,034
0PRC	540,426 :	529,275 :	537,526
NKES	610,693 :	338,122 :	-571,906
Ching	628,016 :	422,841 :	-448,305
All Other	428,572 :	82.794 :	-266.225
10tal	-368,252 :	-2.635,660 :	-4.750.878
		••	

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



Compiled from official statistics of the U.S. Department of Commerces. U.S. trade balance Source

U.S. Importe

approximately 80 percent of footwear imports consisted of nonrubber footwear, whereas by 1982, nonrubber footwear had increased its share to almost 90 percent.

Despite the decrease in textile (including fibers) and apparel exports from \$8.2 billion in 1981 to \$6.5 billion in 1982, the major U.S. export markets remained relatively the same. During 1981 the EC was the leading export market, taking \$1.3 billion in U.S. exports, followed by China, Canada, Japan, the Organization of Petroleum Exporting Countries (OPEC) nations, and Korea. However, in 1982 China sharply curtailed its purchases of U.S. cotton and manmade fibers and U.S. exports to China declined from \$1.1 billion in 1981 to \$400 million in 1982. Consequently China dropped to the sixth largest U.S. export market in 1982.

The value of U.S. exports of footwear was small (\$120 million in 1982) compared with U.S. footwear imports (\$3.4 billion in 1982). The major markets for U.S. footwear during 1981 and 1982—accounting for a little over 45 percent—were Japan, the EC, and Canada. As with U.S. imports, nonrubber footwear accounted for the bulk of exports.

In 1982 the United States had negative trade balances in textiles (including fibers), apparel, and footwear with 9 of its 11 major trading partners (Japan, the EC, Brazil, Hong Kong, India, Korea, Mexico, Taiwan, and the NME's (including China)), and a positive balance with 2 (Canada and the OPEC nations).

Important changes taking place in U.S. trade balances between 1981 and 1982 for textiles, apparel, and footwear were as follows: (1) the worldwide balance increased from a negative \$5.64 billion to a negative \$8.10 billion, (2) the balance with China went from a positive \$384 million to a negative \$486 million, (3) the positive balance with Canada declined from \$746 million to \$487 million, (4) the negative balance with the EC worsened from a negative \$411 million to a negative \$703 million. In addition, the very large negative balance with Korea increased from \$1.53 billion to \$1.83 billion and the negative trade balance with Japan nearly doubled from \$61 million to \$113 million.

Canada.—The U.S. trade surplus with Canada in textiles, apparel, and footwear declined from \$746 million in 1981 to \$487 million in 1982. The decline in the trade surplus reflected a decrease of 25 percent in U.S. exports to Canada and an increase of 12 percent in U.S. imports from Canada. Imports and exports of footwear were relatively small and had no impact on the overall trade balance.

U.S. exports of textiles, apparel, and footwear to Canada declined from \$949 million in 1981 to \$714 million in 1982. Fiber shipments to Canada were off by \$46 million, with declines occurring in both raw cotton and manmade fibers. Exports of other fibers and yarns were also smaller. U.S. shipments of broadwoven fabrics to Canada in 1982 declined by \$88 million. Exports to Canada of narrow fabrics, coated fabrics, textile furnishings, and apparel also decreased during 1982.

U.S. imports during 1982 of textiles, apparel, and footwear from Canada increased by \$24 million and totaled \$227 million. U.S. filament yarn imports increased 52 percent to \$7 million. There were larger imports of narrow fabrics and coated fabrics. Imports of Canadian textile furnishings increased 29 percent to \$19 million and Canadian textile apparel, 15 percent to \$94 million. U.S. imports of Canadian wearing apparel of fur on the skin increased by 51 percent in 1982 and totaled \$29 million. Footwear imports from Canada were valued at \$22 million in 1981 and \$30 million in 1982.

Imports of manmade fibers, waste fibers, and spun yarns from Canada declined during 1982.

<u>Japan.</u>—The U.S. deficit trade balance with Japan in textiles, apparel, and footwear increased from \$61 million in 1981 to \$113 million in 1982. This growing deficit reflected a 2-percent increase in U.S. imports from Japan and a 6-percent decrease in U.S. exports to Japan. Imports in 1982 were largely of textile mill products and exports were mainly of raw cotton. U.S. trade with Japan in footwear has been relatively small.

Imports of textiles, apparel, and footwear from Japan were valued at \$805 million in 1981 and \$820 million in 1982. Total imports of spun yarns increased 36 percent to \$23 million in 1982, with entries of wool or hair yarns up sharply. Imports of broadwoven fabrics in 1982, valued at \$350 million, were the same as in 1981. However, the increased entries of certain lightweight polyester filament fabrics, valued at \$176 million in 1982, have been the subject of an antidumping investigation, and the U.S. International Trade Commission on February 18, 1983, made a preliminary finding of material injury to the U.S. industry by these imports. The imports of other broadwoven fabrics of manmade fibers declined in 1982. Narrow fabric imports increased 54 percent to \$27 million in 1982, and textile furnishing imports increased 23 percent to \$17 million. U.S. imports of apparel from Japan declined 6 percent to \$253 million in 1982.

The United States and Japan are parties to a bilateral agreement negotiated under the Arrangement Regarding International Trade in Textiles, known as the Multifiber Arrangement (MFA). The MFA provides the legal framework for bilateral agreements among its approximately 50 signatory countries with the objective of providing for the orderly development of international trade in textiles and apparel of cotton, wool, and manmade fibers. The MFA went into effect in January 1974, was extended twice, and runs through July 1986. The United States-Japan bilateral agreement, which runs through December 1985, provides for consultations whenever the United States considers that particular imports from Japan are "increasing so as to cause a real risk of market disruption." Under the provisions of this agreement, the United States has imposed specific limits on 11 categories of textiles and apparel. Of these 11 quota categories, 5 were as much as 70 percent to 90 percent filled in 1982.

Raw cotton is by far the most important item exported to Japan, accounting for 73 percent of the total in 1982. Japan has been one of the leading markets for U.S. raw cotton for many years and ranked first among all destinations in both 1981 and 1982. The value of cotton exports to Japan in

the past 3 years was about stable at slightly over \$500 million annually, but the quantity ranged from 616 million pounds to 748 million pounds. The decline, to \$684 million, in total textile exports to Japan in 1982 was due largely to a decline in exports of manmade fiber filament yarns and a decline in exports of apparel, especially men's trousers.

EC.--In 1982, the United States had a negative trade balance with the EC 1/1 in textiles, apparel, and footwear of \$703 million compared with a negative balance of \$411 million in 1981. Although footwear accounted for less than half of the EC's exports to the United States, it was largely responsible for the trade deficit since textiles and apparel alone had a slight positive trade balance for the United States. U.S. imports of textiles, apparel, and footwear from the EC were \$1.8 billion in 1982, an increase of 4 percent from the previous year. Imports of these articles from the EC amounted to 12.6 percent of imports from all countries in 1982. Imports of textiles and apparel from the EC were almost unchanged in 1981 and 1982 at \$1.1 billion, while footwear imports increased from \$628 million to \$757 million. A decline of about \$60 million in imports of broadwoven fabrics was partially offset by an increase of \$30 million in imports of wearing apparel. All of the increase in imports of footwear occurred in nonrubber types. Imports of nonrubber footwear for women and misses were up \$75 million; those of such footwear for men and boys, up \$35 million; and those of athletic footwear, up \$28 million.

U.S. exports of textiles, apparel, and footwear to the EC were \$1.1 billion in 1982, down from \$1.4 billion in 1981. The EC was the recipient of 17.3 percent of the total U.S. export value of textiles, apparel, and footwear in 1982, with textiles and apparel accounting for 98 percent and footwear for 2 percent of such exports. Exports of textiles and apparel declined from \$1.3 billion in 1981 to \$1.1 billion in 1982. Footwear exports were less than \$25 million in each year. An increase of \$47 million in exports of raw fibers was more than offset by declines in exports of broadwoven fabrics (down \$65 million), knit fabrics (down \$6 million), webs, wadding, batting, etc. (down \$8 million), textile furnishings (down \$53 million), and wearing apparel (down \$99 million).

The major items imported by the United States in 1982 from the EC were broadwoven fabrics of manmade fibers, textile furnishings, wearing apparel, and nonrubber footwear. The bulk of the U.S. exports to the EC in 1982 consisted predominantly of cotton fibers, manmade fibers, broadwoven fabrics of such fibers, wearing apparel, and nonrubber footwear.

The decline in 1982 of the major textile and wearing apparel items traded between the United States and the EC was due primarily to the strength of the dollar compared with most EC currencies, as well as stagnant consumption in the EC. The U.S. footwear trade deficit with the EC in 1982 was due primarily to increased imports of nonrubber footwear from Italy. Traditionally, Italy has been one of the world's leading suppliers of high-quality and high-value footwear.

<sup>1/</sup> Member countries of the European Community are Belgium-Luxembourg, Denmark, the Federal Republic of Germany, France, Ireland, Italy, the Netherlands, the United Kingdom, and Greece.

Brazil.—The United States incurred a trade deficit with Brazil in textiles and apparel of \$82.0 million in 1982, almost identical to the \$81.3 million deficit in 1981. From 1981 to 1982, U.S. exports of textiles and apparel dropped 28 percent from \$33.8 million to \$24.4 million and U.S. imports from Brazil declined 8 percent from \$115 million to \$106 million.

The major items imported from Brazil in 1981 and 1982 were cordage, broadwoven fabrics, apparel, and towels; these items accounted for about three-fourths of the imports from Brazil in 1982. U.S. imports of cordage in 1982 amounted to \$29.7 million, a decrease of 20 percent from those in 1981 and 45 percent from those in 1980. Imports of cordage from Brazil declined because of smaller demand for agricultural binder and baler twine, which accounted for almost all the cordage imports. U.S. imports of broadwoven fabrics from Brazil, after more than doubling from \$13.4 million in 1980 to \$28.1 million in 1981, declined to \$20.2 million in 1982. Imports of broadwoven fabrics increased in 1981, following the removal of a countervailing duty order that year. The decline that followed in 1982 stemmed primarily from weak market conditions; competitive prices for fabrics from the Orient were also a factor. U.S. imports of wearing apparel from Brazil, the most important of which was cotton robes and dressing gowns, remained stable during 1981 and 1982 at about \$19 million annually. Imports of towels in 1982 amounted to \$11.9 million, 7 percent less than those in 1981 but 57 percent more than in 1980.

Approximately one-half of the total U.S. exports of textile products to Brazil during 1980-82 consisted of raw fibers, with manmade fibers being the most important. Exports of raw fibers in 1982 totaled \$12.4 million, a decrease of 8-percent from those in 1981. The only other textile item exported to Brazil in significant quantities during 1980-82 was processed textile fibers, especially manmade-fiber filament yarn. Exports of processed fibers declined from \$9.7 million in 1980 to \$8.1 million in 1981 and to \$3.8 million in 1982.

The U.S. trade deficit in footwear with Brazil during 1982 amounted to \$349.4 million, a 2-percent decline from 1981. U.S. imports of footwear from Brazil in 1982 of \$350.1 million were down slightly from the 1981 level of \$357.4 million. Nonrubber footwear, especially women's footwear, made up most of the total imports. In terms of value, Brazil was the fourth largest foreign supplier of footwear to the U.S. market in 1982. In recent years, Brazil has become an important source for popular-priced leather shoes, partly at the expense of the higher priced footwear from Italy and Spain. U.S. footwear exports to Brazil in 1982 were \$649,000, an increase of 62 percent over those in 1981. Exports of plastic athletic footwear accounted for most of the gain.

Hong Kong.—The U.S. textile and apparel trade deficit with Hong Kong increased from \$1.8 billion in 1981 to nearly \$2.0 billion in 1982, and was the largest deficit incurred with any country in this sector. Nearly the entire deficit came from apparel, U.S. imports of which amounted to \$1.9 billion in 1981 and almost \$2.0 billion in 1982, and U.S. exports of which totaled only \$13 million and \$11 million, respectively. The trade balance for the textile sector went from an \$8 million surplus in 1981 to a \$14 million deficit in 1982, as U.S. exports declined 33 percent to \$129 million and U.S. imports declined 23 percent to \$142 million.

Hong Kong is the leading foreign supplier of textiles and apparel, with shipments totaling \$2.1 billion in 1982, 4 percent more than those in 1981. Apparel accounted for 93 percent of the imports, with shirts, blouses, trousers, sweaters, and coats representing 81 percent of total shipments. Imports of these five products increased about 6 percent in terms of quantity and 8 percent in terms of value. Import growth for these major products was subject to tight quota limitations under the MFA in 1982 and will continue to be limited through 1987, as Hong Kong has agreed to limit growth of its exports to the United States of the major product categories to an average 0.6 percent annually. However, shipments from Hong Kong of less heavily traded products that were not restricted by specific quotas, such as underwear, body-supporting garments, headwear, swimwear, and rubber and plastic apparel, increased significantly in 1982.

The relatively small amount of apparel exported from the United States to Hong Kong consisted of small shipments of a large number of items, the most important of which were underwear and men's shirts. Raw cotton was the largest single U.S. export item covered here, although shipments to Hong Kong declined from about \$150 million in 1980 to \$77 million in 1981 and to \$75 million in 1982. The only other item exported to Hong Kong in significant quantity was broadwoven fabrics, particularly of manmade fibers and of cotton; U.S. shipments of broadwoven fabrics, after increasing from \$30 million in 1980 to \$33 million in 1981, declined to \$21 million in 1982.

U.S. imports of footwear from Hong Kong were small in 1981 and 1982, accounting for about 2 percent of total imports. Shipments in 1982 totaled \$60 million, 9 percent less than those in 1981. Nonrubber footwear accounted for 90 percent of total 1982 imports, with women's and misses' shoes accounting for the bulk of such imports. Footwear exported from the United States to Hong Kong amounted to only \$1.4 million in 1982, thereby creating a \$59 million trade deficit for this sector, 9 percent less than the 1981 deficit of nearly \$65 million.

India.—The U.S. trade deficit with India in textiles, leather products, apparel, and footwear during 1982 amounted to \$303 million. This was 14 percent less than the \$352 million deficit in this trade in 1981. Exports from the United States to India dropped 58 percent during the period, from \$31.1 million to \$13.0 million; U.S. imports from India during this period declined 17 percent, from \$382.6 million in 1981 to \$316.1 million in 1982.

In 1981, polyester filament yarn exports to India were valued at \$21.2 million, or 68 percent of the total of textile and related exports. In 1982, exports of polyester filament yarn dropped to \$1.4 million or 11 percent of the total. This decline was the principal cause of the drop in overall exports in this sector and is largely a result of a worldwide surplus of cotton, which lowered cotton prices and made it more price competitive with polyester, the most common substitute fiber. In 1982, nylon filament yarn and miscellaneous textile articles each accounted for approximately 20 percent of total exports, both having increased in value and share over the previous year.

Cotton blouses dominated U.S. imports from India in 1981 and 1982, accounting for 22 percent of the total in 1981 and 21 percent in 1982. 
However, the value of these imports declined 24 percent during the period from

\$85.6 million in 1981 to \$65.0 million in 1982. Other items accounting for a significant share of U.S. imports include woven fabrics of vegetable fibers other than cotton (mostly of jute), which accounted for 15 percent of total imports in 1981 (\$57.2 million) and 9 percent in 1982 (\$29.1 million), and handmade floor coverings, whose share was 11 percent in 1981 (\$41.7 million) and 11 percent in 1982 (\$35.9 million). Imports of broadwoven cotton fabric other than handloomed declined from \$21.5 million to \$8.1 million in the 2-year period, its share going from 6 to 3 percent of the total. The decline in overall imports can generally be attributed to declining demand due to the recession, but the drop in demand for jute broadwoven fabrics, which are used as carpet backing, can also be attributed to substitution of other products, particularly nonwoven and polypropylene fabrics.

Despite the overall decline, U.S. imports from India of some items in this sector increased. The most important of these are woven cotton shirts and leather footwear parts. The value of woven cotton shirts imported from India rose from \$16.8 million in 1981 to \$19.6 million in 1982. The increased demand for all cotton shirts coupled with the rise in popularity of madrascloth shirts, contributed to this increase. Imports of leather footwear parts, primarily uppers, rose from \$18.0 million in 1981 to \$22.9 million in 1982. India is one of the world's largest producers of bovine leather; it has recently expanded its leather-processing industry and has been exporting tanned leather and leather products rather than raw and semiprocessed leather. As production of footwear uppers is a labor-intensive industry, U.S. footwear manufacturers are increasingly importing uppers from low-wage countries. India's abundant supply of leather and low-wage labor, coupled with the demand from the U.S. footwear industry, has led to the increase in these imports.

<u>Korea.</u>—The U.S. trade deficit with the Republic of Korea in textiles and apparel increased from \$0.9 billion in 1981 to \$1.1 billion in 1982. Imports of textiles and apparel totaled \$1.4 billion in 1981 and \$1.6 billion in 1982, an increase of about 14 percent. Exports, however, decreased from \$544.0 million in 1981 to \$477.4 million in 1982, a decline of about 12 percent.

The value of footwear imports from Korea was \$744.3 million in 1982, compared with \$633.8 million in 1981. U.S. exports of footwear to Korea are negligible, so the trade deficit was nearly equal to imports in both years.

Apparel accounted for most of the imports in the textiles and apparel sector; such imports increased 8 percent from \$1.3 billion in 1981 to \$1.4 billion in 1982. Textiles accounted for the remainder; such imports increased 15 percent from \$170.9 million in 1981 to \$181.4 million in 1982.

Most of the sectors exports consisted of cotton fibers, the value of which declined 13 percent to \$425.5 million in 1982 from \$489.5 million in 1981; however, the quantity of cotton fiber exports increased to 704.2 million pounds from 631.1 million pounds in the same year as U.S. exporters were receiving lower prices for their cotton exports to Korea in 1982 compared with 1981.

Two major import categories exceeded \$300 million in 1982; nonrubber footwear and men's and boys' shirts. Nonrubber footwear imports increased 84 percent from \$322.0 million in 1981 to \$591.0 million in 1982, as the 4-year orderly marketing agreement providing for limits on its nonrubber footwear shipments expired in June 1981. In addition, a part of this increase represented a shift in trade from rubber footwear to nonrubber footwear to avoid higher duty rates on rubber footwear. This is partially substantiated by a decrease of 51 percent in imports of rubber footwear from \$311.8 million in 1981 to \$153.3 million in 1982.

Imports during 1982 of men's and boys' shirts, the second largest category, at \$319.4 million, changed very little from \$322.2 million in 1981. Although MFA quotas have been fully utilized, in many cases restricting the quantity of Korean shipments to the United States, the value of such shipments has been increasing as the quotas are being used for higher valued items. Meanwhile, imports have shown increases in less important categories which had no controls during 1982, e.g., manmade-fiber dresses (up \$5.0 million), women's manmade-fiber suits (up \$2.8 million), men's manmade-fiber trousers (up \$5.5 million), broadwoven fabrics (up \$5.3 million), textile furnishings (up \$1.3 million), women's wool coats and jackets (up \$2.1 million), wearing apparel of fur (up \$14.8 million), leather wearing apparel (up \$40.4 million), and rubber or plastic wearing apparel (up \$5.4 million).

Mexico.--U.S. textile and apparel imports from Mexico in 1982 totaled \$253 million and U.S. exports amounted to \$281 million, resulting in an apparent favorable trade balance of \$28 million. However, over one-half of the trade with Mexico consisted of U.S. exports of garment parts, which are assembled there because of lower labor costs and then reimported into the United States under U.S. tariff provision 807.00 as finished garments.

U.S. exports of textiles and apparel to Mexico, after increasing from \$364 million in 1980 to \$421 million in 1981, declined to \$281 million in 1982. Most of the decline resulted from smaller shipments of apparel, which fell 33 percent from 1981 to a total of \$148 million in 1982. This decline in apparel shipments, consisting primarily of garment parts, reflected weak U.S. demand for the finished products sent back to the United States and uncertainty associated with the devaluation of the Mexican peso in August 1982.

Significant declines were also recorded in U.S. exports to Mexico of manmade fibers, which decreased 24 percent to about \$18 million; broadwoven fabrics, which fell 25 percent to \$29 million; and machine clothing of textile materials, which fell 80 percent to \$6 million. In 1980, U.S. exports of this last item to Mexico amounted to nearly \$50 million. Mexico was the largest U.S. export market for the machine clothing, which consists primarily of papermakers' felt, a belt used to carry paper pulp through the manufacturing process. However, Mexico has been increasing its production of papermakers' felt to better service the needs of its expanding papermaking industry, although demand declined in 1982 as a result of the worldwide economic slump. In addition, the uncertainty associated with the peso devaluation, and the corresponding increase in the cost of Mexican imports, contributed to the decline in exports of this and the other textile products.

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Apparel products account for 70 percent of U.S. textile and apparel imports from Mexico. Major products imported are trousers, dresses, body-supporting garments, shirts, and blouses. A soft U.S. market and uncertainty

associated with the devaluation of the Mexican peso contributed to the 30-percent decrease in U.S. apparel imports, to a total of \$176 million. Similarly, U.S. textile imports declined 24 percent to \$77 million, with cordage the major textile import.

The United States has a bilateral trade agreement with Mexico establishing specific levels on U.S. imports of certain apparel products. However, in 1982 Mexico filled less than half its quota in most categories and never exceeded 70 percent of any category.

U.S. imports of footwear from Mexico in 1982 amounted to \$61 million. U.S. exports, on the other hand, totaled only \$5 million, resulting in a footwear trade deficit of \$56 million. The 1981 deficit amounted to \$57 million.

Taiwan.—The United States experienced a negative trade balance in textile and apparel trade with Taiwan in 1982. The deficit totaled \$1.5 billion, a 7-percent increase from the level in 1981. Both U.S. imports of textiles and apparel and U.S. exports of these products increased in 1982. Imports increased 12 percent from approximately \$1.5 billion in 1981 to a little over \$1.7 billion in 1982. Exports, virtually all of which consisted of cotton, increased 60 percent from \$162.1 million in 1981 to \$260.0 million in 1982.

U.S. exports to Taiwan consisted mostly of raw fibers (93 percent in 1982). Over 85 percent of these exports were raw cotton, which increased 85 percent in 1982 to a total of \$208.3 million, from those in 1981. The United States is one of the world's largest producers and exporters of raw cotton and Taiwan has been one of its major markets.

Taiwan was the second largest supplier of textile and apparel imports to the United States in 1982. Approximately 90 percent of these imports consisted of apparel products, which increased 14 percent in 1982 to \$1.5 billion from \$1.3 billion in 1981. The products in which the greatest trade occurred included sweaters; women's and girls' blouses and shirts, suits, skirts, and coats and jackets; and men's and boys' shirts, suits, coats and jackets, and trousers. Imports of these major apparel items together totaled \$1.1 billion in 1982 and accounted for almost three-fourths of total apparel imports that year. The quantity of these imports increased 17 percent in 1982 to 22.5 million dozen from 19.2 million dozen in 1981; the value of these imports also increased 17 percent.

Textile and apparel imports of cotton, wool, and manmade fibers from Taiwan are controlled under the U.S.-Taiwan bilateral trade agreement, which covers a 6-year period which began on January 1, 1982, and will extend through December 31, 1987. Under the agreement, major apparel products with significant trade are subject to specific limits or quotas. The agreement also allows the United States to negotiate quotas on textile and apparel products when significant growth occurs which threatens or causes U.S. market disruption. Taiwan filled 98 percent of its quotas covering the major apparel products made of cotton and 95 percent of the quotas covering apparel products made of manmade fibers in 1982.

Increases occurred in imports of all the major apparel items, except for sweaters, which decreased 4 percent from 4 million dozen in 1981 to 3.8 million dozen in 1982. The decrease occurred in sweaters of manmade fibers, which accounted for 95 percent of total sweater imports during 1982. Imports of cotton sweaters increased 18 percent in 1982 and consequently the United States established a quota on this item; imports of wool and manmade fiber sweaters were already under quota. Overall imports of women's suits, skirts, and coats and jackets increased 15 percent to \$156.5 million in 1982 from 1981; imports of men's shirts increased 36 percent to \$291 million in 1982; imports of men's suits and coats and jackets increased 20 percent to \$125.7 million; and imports of men's trousers increased 37 percent to \$113 million in 1982. Taiwan has also expanded its shipments of many apparel items that were not limited by quotas under the original agreement and in which trade has been relatively small. These imports included women's cotton and manmade-fiber skirts, manmade-fiber suits, cotton dresses, robes and dressing gowns, and pajamas. Imports of these items totaled \$52.9 million in 1982, representing a 44-percent increase from those in 1981. Because of the significant growth in these imports, quotas were established on cotton dresses, cotton skirts, cotton dressing gowns and cotton pajamas, and manmade-fiber suits.

In 1982, the U.S. trade deficit with Taiwan in footwear was \$921.1 million, 7 percent higher than that in 1981. U.S. exports of footwear to Taiwan were negligible in 1982 at \$20,000. In 1982, imports of footwear from Taiwan, the largest U.S. supplier, were 223.7 million pairs, with nonrubber footwear accounting for most of the total. Imports of nonrubber footwear increased from 118.9 million pairs, valued at \$613.5 million, in 1981 to 183.2 million pairs, valued at \$805.0 million, in 1982, representing increases of 54 percent and 31 percent, respectively. Such imports in 1982 showed significant. increases from the year-earlier period in all nonrubber shoe categories. The overall increase is attributed largely to the expiration in June 1981 of a 4-year orderly marketing agreement which had limited nonrubber footwear into the U.S. market. However, imports of rubber footwear from Taiwan dropped substantially in 1982. Such imports during the period were 40.5 million pairs, valued at \$116.1 million, a decline of 40 percent in quantity and 53 percent in value compared with 1981. Trade sources indicate that much of the decrease in shipments of rubber footwear was due to a shift in trade from rubber to nonrubber footwear in order to avoid the higher rates of duty on rubber footwear.

OPEC.—The United States recorded a favorable balance of trade of nearly \$538 million in textiles and apparel with the OPEC members in 1982. This surplus was about 2 percent over the 1981 surplus of \$529 million. U.S. exports to OPEC and U.S. imports from these countries increased between 1981 and 1982, with exports increasing 3 percent to \$636 million and imports rising 12 percent to \$98 million.

Textile furnishings and raw fibers accounted for nearly 60 percent of U.S. exports to OPEC in 1982. Exports of textile furnishings increased 11 percent from \$196 million in 1981 to \$218 million in 1982, with floor coverings accounting for nearly three-fourths of this amount. Tufted floor coverings were by far the largest single export item, amounting to \$135 million or 21 percent of total textile and apparel exports in 1982. Four OPEC 66 members—Saudi Arabia, Kuwait, United Arab Emirates, and Qatar—accounted for

virtually all the floor coverings exported to the OPEC nations. In recent years, these four countries have experienced rapidly increased construction, especially of commercial establishments. In addition, U.S.-produced tufted carpet is price competitive worldwide, notwithstanding freight, insurance, and other costs of exporting.

U.S. exports of raw fibers (accounting for 24 percent of total exports) increased 13 percent between 1981 and 1982 to a total of \$153 million. Cotton accounted for more than two-thirds of the exports and manmade fibers accounted for slightly less than 30 percent. Only one OPEC member, Indonesia, was a significant market for cotton; in 1982 it was the fifth largest market overall. About two-thirds of Indonesia's total cotton imports, valued at nearly \$100 million, came from the United States, which provided Indonesia with about 5 percent of its domestic requirements.

In 1981 and 1982, about 85 percent of U.S. imports from OPEC were concentrated in wearing apparel and floor coverings. U.S. imports of apparel increased from \$37 million in 1981 to \$65 million in 1982 and consisted largely of cotton shirts, blouses, and trousers from Indonesia. In recent years a significant part of the growth in U.S. apparel imports has been from new suppliers such as Indonesia, which has lower labor costs and greater quota availability compared with the major suppliers such as Hong Kong, Korea, and Taiwan.

- U.S. imports of floor coverings from OPEC, consisting mostly of high-priced oriental rugs from Iran, declined from \$35 million in 1981 to \$20 million in 1982. The decline is due to the sluggish economic conditions in the United States and the war and civil unrest in Iran, which have adversely affected its carpet exports.
- U.S. footwear exports to OPEC in 1982 totaled nearly \$12 million, which accounted for 10 percent of total U.S. exports of footwear. U.S. imports of footwear from OPEC remained negligible, amounting to less than \$1 million in 1981 and 1982.

NME's.—The U.S. trade balance with NME's in textiles and apparel went from a surplus of \$338 million in 1981 to a deficit of \$572 million in 1982. The value of U.S. imports from NME's continued to increase, from \$791 million in 1981 to \$993 million in 1982, while exports to NME's dropped by 63 percent, from \$1,129 million in 1981 to \$421 million in 1982. China accounted for more than 90 percent of U.S. exports to NME's and more than 80 percent of U.S. imports from NME's in 1981 and 1982. Changes in the volume and composition of trade with China as described below, therefore, are the major factors influencing total U.S. trade with NME's in textiles and apparel. Exports of textiles and apparel to NME's other than China in 1982 totaled only \$20 million, but imports from such countries totaled \$144 million. Romania and Poland are the most important sources for imports from other NME's.

The value of footwear imports from NME's was \$103 million in 1982, down slightly from \$107 million in 1981. U.S. exports of footwear to NME's are negligible, so the trade deficit was nearly equal to imports in both years. China accounted for 38 percent of the footwear imports from NME's in 1981 and 1982, most of which comprised sneakers or similar items with fabric uppers and rubber soles.

The United States had a deficit of \$448 million in its textile and apparel trade with China in 1982. The sharp change from a surplus of \$423 million in 1981 resulted from a 63-percent drop in U.S. exports to China combined with an increase of 30 percent in imports from China. The decline of nearly \$700 million in U.S. exports was mainly a result of sharply lower sales of raw cotton (\$178 million in 1982 versus \$464 million in 1981) and polyester staple and tow (\$70 million in 1982 versus \$282 million in 1981). China's purchases of raw cotton from all sources was much lower in 1982 because of a larger domestic crop. China also purchased a smaller percentage of its total cotton imports from the United States. In the case of polyester staple, China had built sizable stocks from earlier purchases abroad and had expanded domestic production capacity as well. It is doubtful if U.S. raw-fiber exports to China will recover to the levels of 1980 and 1981. Other than raw fibers and yarn, U.S. exports of textiles and apparel to China are negligible.

U.S. textile and apparel imports from China in 1982 were three-fourths apparel and one-fourth broadwoven fabrics, household furnishings, and other textile items. The increase of \$197 million in apparel imports in 1982 was about equal to the total increase in textile and apparel imports; imports of household furnishings increased slightly, offset by a comparable decrease in imports of broadwoven fabrics. Sharp increases occurred in a wide range of men's and women's apparel, including women's sweaters, blouses, coats and jackets, and manmade-fiber slacks, and men's shirts, casual jackets, manmade-fiber slacks, cotton pajamas, and leather gloves.

China is not a signatory to the MFA. However, the United States negotiated a bilateral agreement with China effective Jan. 1, 1980, under the authority of the Agricultural Act of 1956, which was similar to the bilaterals negotiated with other countries under the MFA. As a result of consultations under the agreement, the number of textile and apparel categories under specific limits increased from 8 in the original agreement to more than 20 at the end of 1982, when the 3-year agreement expired. Considerable controversy has surrounded U.S. actions to limit imports and negotiations to extend the bilateral. When the agreement expired, the United States unilaterally imposed import controls and China announced it would retaliate by limiting imports of U.S. soybeans, cotton, and manmade fibers. Earlier, the American Association of Exporters and Importers filed suit against the United States, claiming that the Government's use of the consultative mechanism in the agreement was made without valid determinations of market disruption and without due process or an opportunity for affected parties to comment. Domestic producers, on the other hand, point out that actions under the agreement failed to prevent disruptive increases in imports and that such increases have been much larger than allowed from other major suppliers. The industry has also brought dumping charges on imports of polyester/cotton printcloth and shop towels from China. 1/

## Commodity analyses

<u>Fibers and textiles.</u>—Both U.S. exports and imports of fibers and textile mill products declined. The decline was considerbly larger for exports, and the trade surplus fell from \$3.6 billion in 1981 to \$2.4 billion in 1982, or

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<sup>1/</sup> Investigations in both cases are now in progress at the U.S. Department of Commerce and the U.S. International Trade Commission.

by a little over 30 percent. U.S. exports of fibers and textile mill products dropped 20 percent, from \$7.0 billion to \$5.6 billion; imports declined almost 6 percent, from \$3.4 billion to \$3.2 billion.

The largest declines in imports occurred in raw fibers (down \$59.0 million), cordage (down \$20.7 million), and broadwoven fabrics (down \$203.7 million). Declines in these items, together with a smaller decline in coated fabrics (down \$14.1 million), resulted in a total decline of \$297.5 million, but slight increases in several other areas such as processed fibers (up \$22.2 million) and narrow fabrics (up \$11.8 million) resulted in a net decline of \$263.5 million.

The largest declines in exports occurred in raw fibers (down \$583.8 million), processed fibers, especially spun and filament yarns (down \$188.0 million), broadwoven fabrics (down \$368.7 million), and homefurnishings (down \$110.0 million). Other smaller declines in textile mill products resulted in a net decline in exports of a little over \$1.4 billion.

Raw cotton.—The quantity of U.S. exports of raw cotton in 1982 rose 9.7 percent to 3.1 billion pounds, compared with exports of 2.8 billion pounds in 1981. However, as the average unit value of these exports declined from 81 cents per pound in 1981 to 64 cents per pound in 1982, the value of such exports during the period declined 13.5 percent, from \$2.3 billion to \$2.0 billion. The decline in prices is partly a result of large U.S. crops in both the 1981/2 and 1982/3 crop years, 1/ coupled with low domestic mill consumption, which was partly the result of the recession. Also contributing to low unit values for U.S. cotton exports is the record high world supply of cotton, stagnant world cotton consumption, and the decline in price competitiveness of U.S. cotton in world markets.

Two notable changes occurred in exports to Taiwan and China, the third and fourth largest markets in 1982. Exports to Taiwan of 385 million pounds in 1982 were more than double the 166 million pounds exported there in 1981. On the other hand, the 258 million pounds exported to China in 1982 were less than half of 1981 exports of 548 million pounds.

Mary Elizabeth Sweet 523-0394

Manmade fibers.—The U.S. trade surplus in manmade fibers declined in 1982, as exports dropped by 30 percent. The U.S. trade balance in manmade fibers trended upward from a surplus of \$352 million in 1978 to \$846 million in 1981, but declined to \$578 million in 1982. U.S. exports of manmade fibers were valued at \$938 million in 1981 and \$656 million in 1982. Imports of manmade fibers declined 16 percent to \$77 million in 1982.

China has continued as the leading foreign market for U.S. manmade fibers. It had been increasing its purchases from the United States, which in 1981 reached a record value of \$327 million. However, China has also recently increased its own production of both manmade fibers and cotton. This situation has resulted in growing fiber stocks in China and U.S. exports to China were reduced in 1982. Exports of manmade fibers from the United States

to China fell by \$232 million in 1982. Combined U.S. exports to other countries declined by \$51 million in 1982. There were smaller shipments to such important markets as Canada, Australia, South Africa, and Switzerland. Larger shipments were made to Taiwan and the Philippines.

U.S. exports of the cellulosic manmade fibers (rayon and acetate) totaled \$171 million in 1982, only slightly less than the record exports of 1981. However, exports of the noncellulosic manmade fibers declined 37 percent to \$485 million. This resulted in the lowest level of exports of noncellulosic manmade fibers since 1978. Much smaller shipments of polyester staple fibers to China accounted for the great bulk of the 1982 reduction in exports. The polyester staple fiber exports were valued at \$390 million in 1981 and \$162 million in 1982. Combined exports of other noncellulosic fibers, including nylon and acrylic, also declined during 1982.

Larry Clayton 523-5701

Filament yarn of manmade fibers.—Exports of filament yarn of manmade fibers declined 23 percent from \$648.9 million in 1981 to \$497.6 million in 1982. The export decline was led by a decrease of 37 percent in exports to China, which in 1981 and 1982 accounted for a fourth to a third of all U.S. exports of filament yarn. China reduced purchases of U.S. filament yarn in 1982 because its stock is currently sufficient to fill domestic needs.

Amerigo C. Chiriaco 523-0109

Cordage.—Imports of cordage decreased from 216 million pounds, valued at \$104 million, in 1981, to 174 million pounds, valued at \$82 million in 1982. The overall decline of about 20 percent can be attributed primarily to the drop in imports of binder and baler twines of hard (leaf) fibers (agricultural twines) from Brazil and Mexico. Such imports declined from 145 million pounds, valued at \$64 million, in 1981, to 101 million pounds, valued at \$44 million, in 1982. The domestic consumption of agricultural twines of natural fibers consists almost entirely of imports. According to industry sources, the purchase of agricultural twines was very small in 1982, despite a record hay crop, due in part to a large carryover inventory from the previous season.

C. Lee Cook 523-0348

Broadwoven fabrics.—Imports of all broadwoven fabrics declined from 2.50 billion square yards, valued at \$1.55 billion, in 1981 to 2.05 billion square yards, valued at \$1.35 billion, in 1982. This decline of 18 percent in the quantity of fabrics imported was nearly equal to the increase in imports the previous year, reducing imports to about the same levels as in 1979 and 1980. A sharp decline in exports in 1982, on the other hand, followed a 70 similar decline the previous year, reducing the quantity of exports in 1982 to 504 million square yards, valued at \$743 million, which was about one-half the level in 1980 and 33 percent below exports in 1981. The trade deficit in

broadwoven fabrics increased from \$438 million in 1981 to \$603 million in 1982, compared with a surplus of \$113 million in 1980.

Imports of cotton broadwoven fabrics decreased \$122 million and those of manmade fibers decreased \$37 million, accounting for 78 percent of the total decrease of \$204 million in U.S. imports of broadwoven fabrics. Decreases in the value of imports of manmade-fiber fabrics, however, were not reflected in the quantity imported, which increased, particularly in fabrics of filament polyester. The average value per square yard of imports of manmade-fiber fabrics declined from \$1.30 in 1981 to \$1.15 in 1982, and by December 1982, the unit value was below \$1.

Exports of manmade-fiber fabrics declined by more than one-third, dropping from 511 million square yards, valued at \$727 million, in 1981 to 317 million square yards, valued at \$463 million, in 1982. Exports to nearly all destinations declined, but the largest decreases were in exports to Canada and the United Kingdom, the two leading customers. Most of the decline occurred in polyester fabrics, both filament and spun.

Trade in cotton broadwoven fabrics declined sharply in 1982, with the value of exports dropping 29 percent and the value of imports down 20 percent. Exports declined from 216 million square yards, valued at \$335 million, in 1981 to 171 million square yards, valued at \$238 million, in 1982. Much of the decline occurred in shipments to Canada and several European countries, especially shipments of coarse yarn fabrics and pile fabrics such as corduroy. Imports of cotton fabrics declined from 1,079 million square yards, valued at \$604 million, in 1981 to 837 million square yards, valued at \$482 million, in 1982. Imports from most major suppliers declined, including Hong Kong, China, Peru, Korea, Pakistan, and India; imports from Japan and Taiwan increased slightly. The largest declines were evident in imports of denim fabrics from Hong Kong and printcloth fabrics from China.

Imports of wool fabrics increased slightly, from \$105 million in 1981 to \$112 million in 1982, and imports of silk fabrics declined slightly, from \$118 million in 1981 to \$109 million in 1982. Most of the increase in wool fabric imports was accounted for by Italy. Exports of silk and wool fabrics together totaled about \$14 million in 1982, reflecting an increase in exports of silk fabrics and a slight decline in exports of wool fabrics.

A depressed condition in the textile market, both in the United States and abroad, appears to be the major factor causing reduced levels of trade in broadwoven fabrics. In addition, imports from China, which had increased rapidly in 1980 and 1981, were probably restrained by a number of specific limitations imposed by the United States under the United States-China bilateral agreement.

Joseph L. Williams 523-5702

Coated, filled, or laminated textile fabrics.—Imports of coated, filled, or laminated textile fabrics decreased from 72.7 million square yards,

valued at \$91 million, in 1981 to 57.5 million square yards, valued at \$77 million, in 1982. The decrease can be attributed almost entirely to imports from Taiwan, the second largest supplier in 1981, such imports declined from 15.8 million square yards, valued at \$16.7 million, in 1981 to 4.1 million square yards, valued at \$4.7 million, in 1982. After being extremely price competitive in 1981, Taiwan increased prices in 1982, and was less price competitive with the other major suppliers, which maintained or increased their shipments from the previous year. Textile fabrics that are coated, filled, or laminated with rubber or plastics are used by the automotive and housing industries, as well as in upholstery, luggage, handbags, and apparel.

C. Lee Cook 523-0348

Towels.—The number of institutional and household towels imported in 1982 increased 23 percent, to 199 million towels, valued at \$106 million, over the number imported in 1981. About three-fourths of the imports consisted of institutional towels, used by hospitals, hotels, and linen rental services; the remainder of the imports comprised household towels.

The increased imports in 1982 came almost entirely from China, the second largest supplier, which increased its shipments 148 percent to a total of nearly 66 million towels, valued at \$24 million. Imports from Pakistan, the largest supplier, declined 5 percent to 83 million towels, valued at \$30 million. The Pakistani and Chinese towels were both valued at an average of \$0.36 each, compared with \$1.03 for all other imported towels. Price plays a key role in the purchase of institutional towels.

Marilyn C. Borsari 523-5703

<u>Apparel</u>.—The U.S. apparel trade deficit reached a record \$7.2 billion in 1982, surpassing the previous high of \$6.2 billion set in 1981. This resulted from imports' increasing 9 percent to \$8.1 billion while exports were declining 21 percent to just under \$1.0 billion, their lowest level since 1979.

The deterioriating trade balance in 1982 was largely accounted for by increased imports from the four principal suppliers—Hong Kong, Taiwan, Korea, and China. Shipments from these suppliers rose 13 percent, or by slightly more than \$600 million, to a total of \$5.5 billion, which amounted to two-thirds of total imports. Imports from China alone rose 47 percent to \$615 million, whereas those from Taiwan rose 14 percent and those from Hong Kong and Korea, less than 10 percent each.

A large part of the increased imports from Hong Kong, Taiwan, and Korea came in the first quarter of 1982, when these suppliers were attempting to maximize their 1981 quota usage. 1/ This was done in part to strengthen their

<sup>1</sup>/ The quota year is based on the date that the merchandise is exported from abroad. Thus, shipments arriving in the United States during the first quarter of 1982 may in fact be charged to 1981 quotas.

bargaining positions during negotiations with the United States to renew bilateral textile agreements that were to expire in 1982. The new 6-year agreements with these suppliers, retroactive to January 1, 1982, limit most of their shipments to about 1-percent annual growth. The significant growth in Chinese shipments in 1982 has characterized apparel trade with China for several years. Because no new agreement was negotiated with China by January 15, 1983, to replace the 3-year pact that expired at the end of 1982, its quotas in 1983 are essentially being frozen at 1982 levels, with several new items being brought under quota.

The export decline in 1982 was fairly widespread among the various items. The largest decline in exports came in shipments to Mexico, which consist mostly of apparel parts that are assembled there and returned as finished garments. Weak U.S. demand combined with uncertainty stemming from the recent devaluation of the Mexican peso were important factors in reducing shipments to Mexico by 33 percent to \$148 million.

<u>Women's suits and coats</u>.--U.S. imports of women's suits and coats in 1982 totaled \$767 million, an increase of 16 percent over those in 1981. Coats accounted for 90 percent of the total.

U.S. imports of women's coats in 1982 increased 13 percent over those in 1981, to a total of 5.4 million dozen, valued at \$693 million. Imports of manmade-fiber coats and jackets rose 25 percent in 1982 to 3.4 million dozen, whereas shipments of cotton, wool, and down coats declined slightly. China and Hong Kong accounted for a large part of the increase, as their shipments rose 48 percent and 19 percent, respectively. Shipments from the other leading suppliers—Taiwan and Korea, which together with China and Hong Kong supply nearly two-thirds of total imports—declined by 11 percent in 1982. However, the value of their combined imports rose by 9 percent, reflecting a shift to higher priced products to maximize export earnings.

Shipments from secondary suppliers rose significantly in 1982, with imports from Thailand and Sri Lanka doubling to a total of 446,000 dozen and those from Singapore climbing 39 percent to a total to 271,000 dozen. The significant rise in imports from these suppliers and China was facilitated by their relatively greater quota availability vis-a-vis Korea, Taiwan, and Hong Kong.

U.S. imports of women's suits rose to a record \$74 million (331,000 dozen) in 1982, a 48-percent jump from 1981. More than two-thirds of the increased imports in 1982 came from Taiwan, the largest supplier, whose shipments rose 73 percent to \$20 million. The suits from Taiwan, consisting mostly of relatively low-priced suits made from woven manmade-fiber fabric, feature the tailored look in women's fashions that is being promoted by certain retailers at popular prices.

Philip J. Martello 523-5585

Men's and boys' shirts.--U.S. exports of men's and boys' shirts--the most important apparel export item--declined over 40 percent in 1982 to 337

million dozen, valued at \$99.9 million, from 6.4 million dozen, valued at \$179.8 million, in 1981. Declines were registered in exports of all types of shirts to virtually all the foreign markets, with those shipped to the United Kingdom, Sweden, France, and West Germany, the four largest markets, declining in value by 60 percent. The decreased exports were the result of worldwide economic conditions and increased competition in foreign markets.

U.S. imports of shirts—the most important apparel import item after blouses—increased 10 percent in 1982 compared with 1981, to a total of approximately 32 million dozen, valued at \$1.2 billion. Most of the increased imports came from Taiwan, Hong Kong, and China, which together with Korea supplied about three-fourths of total imports.

Jackie Worrell 523-0452

Men's and boys' trousers, slacks, and shorts.—U.S. exports of men's and boys' trousers declined 32 percent in 1982 compared with 1981, to a total of 2.1 million dozen, valued at \$89.1 million. Most of the decrease occurred in cotton trousers, which accounted for over three-fourths of total exports, and manmade-fiber slacks. Exports to the United Kingdom and Japan, the two largest markets, which accounted for 28 percent of the value of total exports, decreased 44 percent in 1982. Shipments to Mexico, which accounted for 12 percent of total exports, decreased 35 percent. A large part of the exports to Mexico consisted of cut pieces of trousers for assembly there and return to the United States. The overall decrease in exports resulted from the increased value of the U.S. dollar relative to other major currencies, sluggish economic conditions in foreign markets, and a decline in worldwide demand for jeans.

U.S. imports of trousers increased 8 percent in 1982 from those in 1981, to a total of 9.5 million dozen, valued at \$505.4 million. Most of the increased imports, consisting primarily of manmade-fiber trousers, were supplied by the low-labor-cost countries of Taiwan, China, and Korea, which together with Hong Kong accounted for 72 percent of total imports in 1982. Shipments from Taiwan rose 37 percent to \$113 million and those from China rose 55 percent to \$58.5 million. These imports consisted primarily of lower priced manmade-fiber trousers. Shipments from Korea increased 25 percent to \$33 million.

Jackie Worrell 523-0452

Fur apparel and articles.—U.S. trade in fur goods, consisting primarily of fur apparel, was marked by a deficit in 1982 of \$84 million, nearly double the 1981 deficit of about \$43 million. This resulted from a 24-percent increase in imports, to a total of \$132 million, and a 25-percent decline in exports, to a total of \$48 million. Imports consisted primarily of coats and jackets made from rabbit skins and wild furs, such as beaver, muskrat, and raccoon. In addition, more higher quality garments, especially

of mink and fox, are being imported as the major low-cost foreign suppliers become more sophisticated in their manufacture. U.S.-made fur apparel is considered to rank among the highest quality fur garments in the world.

Most of the increased imports in 1982 came from Korea and Canada, the major suppliers, with 60 percent of total imports. Shipments from Korea increased 43 percent to \$49 million and those from Canada increased 51 percent to \$29 million. Korea, capitalizing on its low labor costs, had primarily supplied inexpensive rabbit fur coats and jackets. However, its fur apparel industry has been expanding into higher quality, more expensive garments such as those of mink and fox. Much of the increase in Canadian shipments resulted from the strength of the U.S. dollar in relation to the Canadian currency. The overall increase in imports also reflected a slight increase in demand for these items, which are more recession resistant than other apparel products.

Exports to West Germany, a major foreign market, decreased 38 percent in 1982 from those in 1981. Exports to Japan and Switzerland, the largest foreign markets in 1982, decreased 2 percent and 17 percent, respectively.

Jackie Worrell 523-0452

Leather apparel.—Imports of leather apparel totaled approximately \$252 million in 1982, representing a 22-percent increase from those in 1981. U.S. exports, on the other hand, decreased 24 percent to \$12 million, resulting in a trade deficit of about \$240 million in 1982 versus \$191 million in 1981. Most of the increased imports came from Korea, which is by far the largest supplier, accounting for 58 percent of total imports in 1982; its shipments were up 38 percent for the year. Low labor costs and a skilled labor force have enabled Korea to offer favorable prices and improve product quality. The import growth reflected increased demand for these items, resulting from current fashion trends and a heightened consumer demand for high quality, durable apparel.

Jackie Worrell 523-0452

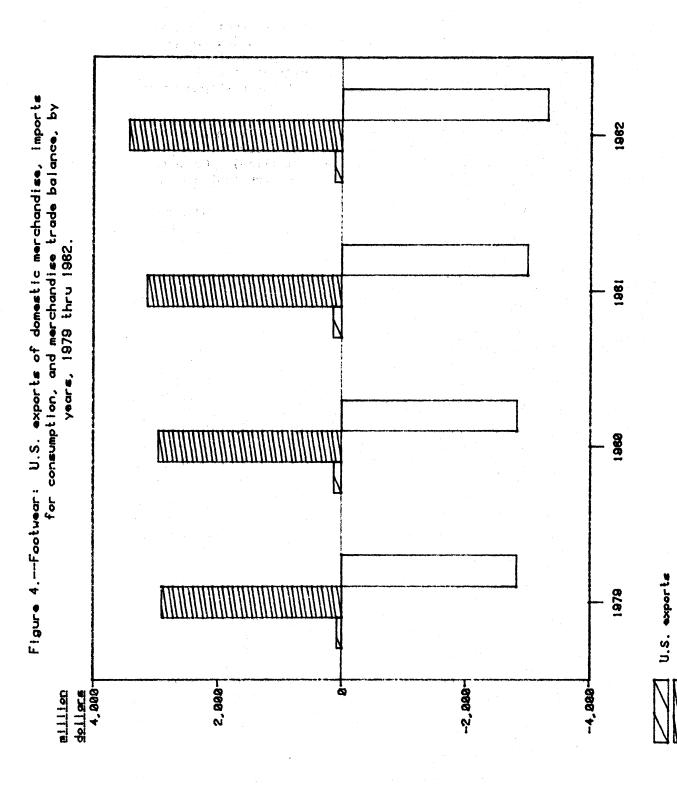
Footwear.—Imports of rubber and nonrubber footwear (excluding disposable footwear) 1/ in 1982 increased 12 percent from those in 1981, to a total of 607 million pairs (valued at \$3.4 billion) (table 10, fig. 4). Imports of nonrubber (primarily leather and vinyl) footwear rose 28 percent to nearly 480 million pairs (\$3.1 billion), whereas imports of rubber footwear fell 23 percent to 128 million pairs (\$335 million).

This trade shift took place following the June 1981 expiration of the 4-year orderly marketing agreements (OMA's) with Taiwan and Korea, which limited their nonrubber footwear shipments to the United States. From 1981 to 1982, imports of nonrubber footwear from Taiwan climbed 54 percent to a record 183 million pairs (\$805 million) and those from Korea more than doubled to

<sup>1/</sup> U.S. imports of disposable footwear in 1982 totaled nearly 108 minus pairs (valued at \$15 million), compared with 103 million pairs (\$13 million) in 1981. Virtually all these imports come from Mexico.

Table 10.--Footwear: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1980, 1981, and 1982  $\underline{1}/\underline{2}/$ 

U.S. exports of domestic merchandise:		•		7067
ors: exports of domestic merchandise:	••		••	
	•• •	••		
		13,918:	20,716 :	13,410
		10,461	20,273 :	22,050
112818		. 06,390	24,027	21,671
Hong Kong		. 167	: 00t r	649
India			. 997.	1,380
Korea				90
Hexico		. 73 6°9	. CT &	10
.Taiwan			120	3,246
OPEC			10 781 .	7 10 11
NARS		: 90		11,841
Ching		. 10	00	5
A11 Other		56.815	53.839	A2 862
Total		130.765	140.564	110 570
U.S. imports for consumption:	• ••	• • •		/C'611
Canada	:	23.714 :	21.555 :	29,588
7apan	:	22,259 :	24.608 :	26.848
BC	;	647.834 :	627.586 :	757.086
Brazil1izala	;	239,983 :	357,354	350,035
Hong Kong		42.574 :	66.427 :	60.416
India	:	14,6450:	7.950 :	6.928
Korea	•	579,012 :	633,785 :	744.343
Hexico		54,919 :	65,683 :	61,256
Taiwan		879,690 :	861,057 :	921,137
OPEC		992 :	817 :	446
NTES	:	103,396 :	106,938 :	102,763
Ching	:	22,434 :	38,669 :	37,803
All Other		348,058 :	367,453 :	372,833
Total		2,957,081 :	3,141,218:	3,433,638
U.S. merchandise trade balance:	••	••	••	
Canada		-9,795 :	-839 :	-16,177
Japan	•	-5,797 :	-4,334 :	191,4-
BC		-621,443 :	-603,558 :	-735,414
# # # # # # # # # # # # # # # # # # #		-239,749 :	-356,954 :	-349,441
10115 KONS	•	-41,058 :	-64,661 :	920,63-
	:	-14,636 :	-7,803:	-6,928
KOTOG	•	-578,998 :	-633,772 :	-744,282
Hex1co		-47,961 :	-57,305 :	-56,009
Telven	:	-879,601:	-860,936 :	-921,117
OPEC		7,362 :	9,964 :	11,503
	:	-103,390 :	-106,838:	-102,385
China		-22,433 :	: 699'86-	-37,801
All Other		-291,242 :	-313,613 :	-329,970
Total	•	-2,826,315 :	-3,000,654 :	-3,314,058



Source: Compiled from official statistics of the U.S. Department of Connerece. U.S. importe U.S. trade balance

nearly 91 million pairs (\$591 million). By contrast, their shipments of rubber footwear from both countries fell 31 percent during the period to 82 million pairs (\$269 million). The shift was made partly to avoid the higher duties on the rubber footwear and because the expiration of the OMA's provided Taiwan and Korea with the opportunity to increase their shipments of nonrubber footwear.

U.S. exports of footwear, after peaking at 15 million pairs (\$131 million) in 1980, declined 13 percent in 1981 and another 18 percent in 1982, to a total of just under 11 million pairs (\$120 million). Consequently, a trade deficit in excess of \$3 billion was recorded for footwear in 1982.

Gail Burns 523-0200

Table 11.--Annual data on U.S. imports and exports for selected commodity groups  $\frac{1}{2}/$ 

Commodity area	1980	1981	1982 : C	Percent Change
• • •	• •• ••		• •• ••	(2) to
	(1)	(2) :	(3)	(4)
Raw fibers: Cotton	•• ••	•• •• ••	•• ••	
Imports: Quantity (1,000 pounds)	7,592:	8, 195: 5, 529:	19,281:	135
Exports:     Quantity (1,000 pounds)	4,019,472: 2,864,150:	2,797,320:	3,068,280: 1,955,270:	-13
÷ ; ;	58,329:	77,505:	63,612:	1 1 8 1 8
Value (1,000 dollars)	6,931:	7,923:	9,857:	24
Imports:   Quantity (1,000 pounds)	57,542: 60,691:	97,880: 92,512:	80,643:	1 1 8
Quantity (1,000 pounds)	841,931:	938,025:	655,551:	-30
uantity (1,000 pounds)	47,214:	81,092:	67,202:	-17
Quantity (1,000 pounds)	692,109:	764,875:	484,605:	-37
Quantity (1,000 pounds)	10,328:	16,788:	13,440:	-20 -14
unt unt lue ber	149,822:	173,150:	170,945:	0 1
Imports: Quantity (1,000 pounds)	119,551:	138,235:	144,236: 222,181:	4.
Quantity (1,000 pounds)	469,261: 641,094:	572, 193: 808, 974:	442,441:620,965:	-23 -23
$\frac{1}{1}$ Import values are based on Customs value; export of export.	values are	based on f.a.s	. value, U.S.	port

Table 11. -- Annual data on U.S. imports and exports for selected commodity groups

			-	
Commodity area	1980	1981	1982	:Percent :Change : from
	 E		(3)	(2) to (3) (4)
Spun yarn, including chenille yarns and handwork	•			
Imports:   Quantity (1,000 pounds)	63,110: 119,674:	79,535: 140,760:	79,238:	10
Exports: Quantity (1,000 pounds)	63,707: 125,453:	65,720: 128,943:	44,521: 94,727:	-32
Imports: Quantity (1,000 pounds)	41,250:	46,819:	52, 180: 107, 156:	11
Exports:     Quantity (1,000 pounds)	57,739: 116,909:	62,763: 122,292:	42,645: 90,816:	-32 -26
Imports: Quantity (1,000 pounds)	4,134:	4,708:	7,221:	33
Exports:     Quantity (1,000 pounds)	574:	995:	663: 2,431:	-33
y (1,000 pounds (1,000 dollar	26,393:	31,520:	35,728:	27
Exports:     Quantity (1,000 pounds)	379,022: 479,117:	489,034: 648,950:	382,868:	-22
, , , , , , , , , , , , , , , , , , ,	1,321:	1,254:	1,300:	4.0
Exports: Quantity (1,000 pounds)	16,976: 32,398:	15,806: 30,368:	13,290: 28,008:	- 16
ports: Quantity (1,000 Value (1,000	242,876: 121,055:	217,613: 109,848:	176,534: 89,164:	119
Exports: Quantity (1,000 pounds)	8,573: 16,135:	6,509: 15,793:	6,189: 15,826:	- 5

Table 11.--Annual data on U.S. imports and exports for selected commodity groups

				Porcont
Commodity area	1980	1981	1982	Change
	5		33	(2) to
	١.		)	
Fish netting and nets				
imports: Quantity (1,000 pounds)	2, 105:	1,714:	.08	21
0	, 43	, 25	7,602:	22
Quantity (1,000 pounds)	270:	358	403:	12
70 PTTO 00000	•	3	9	?
C	77	7 0 0	u '	
(1,000 dollars)	113,625:	103,596:	81,561:	-21
	2	Ť.	7	
Value (1,000 dollars)	15, 36 1:	14,959:	14,741:	, <u> </u>
Fabrics:				
1 1 000 a 000 th	97 070	503 910	74 730	•
e (1,000 dollars)	1,201,775:	1,549,445:	1,345,731:	1 1 2
				٠
Quantity (1,000 square yards)	1,026,380:	748	503,513:	-33
brics, of cotton:	021016	01111	42,33	•?
	. !			
Quantity (1,000 square yards)	722,548:	1,079,303:	836,499:	-22
(C   B1100 000)	7	* * * * * * * * * * * * * * * * * * * *	00,10	V
Quantity (1,000 square yards)	377,496:	216,432:	170,744:	-21
brics, of manmade fibers:	, ,	22,42	36,40	N
	1			
Quantity (1,000 square yards)	296,375:	561,822:	455,516:	
		· ·	• •	
Quantity (1,000 square yards)	635,363:	511,483:	316,850:	-38
en fabrics, of silk	7010	7 7 7 7 7	00,00	?
orts: uantity (1,000 square	4.06	1.69	0.75	7-
alue (1,000 dollars)-	79,406:	117,657:	109,305:	<u>-</u> -
tity (1,000 square yards)	1,703:	1,778:	2,449:	38
alue (1,000 dollars)	, 98	, 23	, 90	27

Table 11.--Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	1982	
	• • • • • • • • • • • • • • • • • • •	(5)	(3)	(2) to (3) (4)
1 -	800 (1) 8 (4) 2 (4) 2 (4) 1 (4)			, ;:a ::
orts uant alue	16,894:	23,517:	26,217:	117
Exports: Quantity (1,000 square yards)	1,279:	1,340:	1,066: 5,827:	-20
	3,313:	2,860:	2,846:	<b></b>
ty (1,000 pounds)	25,300:	24,835: 72,718:	20,544:70,368:	- 17 - 3
and hose, of textile materi abrics		** **		• •
Quantity (1,000 pounds)	7,865:	8,206:	8,478:	MO
ty (1,000 poun (1,000 doll g, batting, no	35,713: 57,986:	36,839:	35,524:	1 1 8
thereof, n.s.p. (1,000 pounds)-	0,64	2,90	9,08	48
(1,000 dollars	7,000	57,84	1,34	
Quantity (1,000 pounds)	90,774:	101,912: 170,566:	145,891:	- 75 - 14
Imports: Quantity (1,000 pounds)	109:	273: 515:	1,079:	294
ו אים וחינו	79,469:	53,223:	34, 178 80,267	136
Quantity (1,000 square yards)	60,937:	72,723:	57,466:	-21 -15
Value Value	157,783: 255,779:	141,903:259,814:	121,504: 222,291:	- 14

Commodity area	1980	1981	1982	:Percent :Change : from
	: E	(2)	(3)	(2) to (3) (4)
Textile furnishings	•• •• •	••••		
	446,973:	525,799:	519,329	ī
Exports: Value (1,000 dollars)	543,856:	572,663:	462,743:	- 19
Imports: Quantity (1,000 square yards)	17,369: 282,758:	17,904:	21,280:	- 10
Exports: Quantity (1,000 square yards)	79,230: 327,398:	67,008: 344,603:	54,540: 292,914:	1 1 5
Imports: Quantity (1,000 pounds)	495:	1,536:	1,765	333
Exports: Quantity (1,000 pounds)	3,221:	2,284:	1,177	18
Imports: Quantity (1,000 pounds)	222, 114: 160,045:	308,511:	324,294: 229,835:	20
Exports:     Quantity (1,000 pounds)	59,094: 203,629:	47,823:214,608:	33,629	-30
Imports: Value (1,000 dollars)	6,298,044	7,409,803	8,110,303	6
exports: Value (1,000 dollars)	1,183,558:	1,209,393	955,365	-21
Imports: Quantity (1,000 dozen)	12,496: 702,412:	12,419: 787,654:	13,463	87
Quantity (1,000 dozen)	132: 5,873:	122: 6,472:	3,646	-32

Table 11.--Annual data on U.S. imports and exports for selected commodity groups

. Commodity area	1980	1981	1982 : C	:Percent :Change
		• •• ••	• •• ••	(2) to
	<b>(C)</b>	(2)	(3)	(4)
Women's, girls', and infants' shirts and blouses:		•• •• •		
imports. Quantity (1,000 dozen)	32,527:	34,495:	36,408:	98
(1,000 dozen)		1,682:	1,200:	-29
Value (1,000 dollars)	, 74	, 64	×	-21
	5,472:	6,860:	7,711:	212
(1,000 dozen)	597	09	0.00	-
1,000 dollar , and infan	32,391:	40,122:	35,551:	<u> </u>
and shorts Imports:	••	*	•• •••	
Quantity (1,000 dozen)	14,003:	15,378: 722,967:	17,449: 769,040:	13 6
1,000 dozen)	2,081:	1,404:		747
	δ <b>,</b> (	, 33	×o	97-
imports: Quantity (1,000 dozen)	2,037:	2,336:	2,097:	110
1.000 dozen)	2.05	2.429	1.6	-32
Value (1,000 dollars)	67,587:	79,455:	66,214:	-17
1.000	68.9	9,19	1,99	10
1,000 dollar	989,741:	1,089,543:	1,234,469:	13
ty (1,000 dozen)	6,918:	6,377:	3,662:	-43
boys' suits, coats and jacket		1		•
Quantity (1,000 dozen)	3,806:	4,322:	4,858:	12 17
: Quantity (1,000 dozen)	1,141:	1,226:	.689: 32.883:	144
				)

	odity area	1980	1981	1982	:Percent :Change
				• • •	(2) to
	•	(1)	(2)	(3)	£3
boys' tro	users, slacks, and shorts				
Quantity (1,000 Value (1.000	dozen)	7,607:	8,368:	9,450:	E.«
					•
uantity (1,000 alue	dollars)	6,963: 176,272:	2,602:	2,064: 89,122:	-21
5u iss	· sumob	• ••		•	
Quantity (1,000 Value (1,000	doIlars)	381: 21,518:	450:	552: 34,393:	23
exports: Quantity (1,000		1,222:	1,241:	0	35
(1,000 rting gar	dollars)	11,452:	11,706:	11,393:	-3
Imports:			••		
Quantity (1,000 Value (1,000	dozen)	12,612:	13,364:	12,147:	6-1-
exports: Quantity (1,000	dozen)	8,374:	9,810:	7,558:	-23
-		ñ	0,0	2,63	0
Amports: Quantity (1,000	dozen pairs)	3,106:	2,170:	2,382:	10
Value (1,000 Exports:	dollar	15,605:	,72	, 91	6
Quantity (1,000	dozen pairs)	7,530:	7,125:	5,646:	-21
		È	•		3
Quantity (1,000	dozen pairs)	36,100:	38,317:	37,997:	1
Exports:	4	•		•	•
Quantity (1,000 Value (1,000	dozen pairs)	22,304:	23,239:	23,997:	<b>к</b> 4
ğ,		)	) )	,	-
=		• ••	• ••	•	
Value (1,000 Fxports:	dollars)	88,841:	106,169:	131,801:	24
Value (1,000	dollars)	83,105:	63,625:	47,672:	-25

Table 11.--Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	1982	:Percent :Change : from
	£	(2)	(3)	(2) to (3) (4)
Leather wearing apparel, except gloves and : headwear, not subject to textile import : restraints				
Imports: Quantity (1,000 units)	170,906:	207,067	6,697:	22
Exports: Quantity (1,000 units)	11,463:	15,967:	12, 122:	-24
Imports: Quantity (1,000 dozen)	268: 12,377:	372:	562: 19,392:	51
(1,000 c	89: 1,518:	120: 2,095:	171: 2,774:	32
Imports: Quantity (1,000 dozen)	21,278:	25,373: 151,452:	26,312: 127,534:	4 - 16
Exports: Quantity (1,000 dozen)Value (1,000 dollars)	2,572: 27,894:	2,086: 30,098:	1,721:	1 1 1 9
rts ant lue	627,231: 2,957,081:	645,331: 3,141,218:	715,033: 3,433,638:	11
Exports: Quantity (1,000 pairs)	15,345:	13,293:	10,847:	1 1 8 7
Imports: Quantity (1,000 pairs)	149,110:	166,373:	127,748:	1-23
Exports: Quantity (1,000 pairs)	2,346:	2,115: 20,327:	1,958:	-11
Quantity (1,000 pairs)	365,743:	375,600:	479,663: 3,083,859:	28 24
Cxpores:     Quantity (1,000 pairs)	12,998: 112,002:	11,178:	8,839:	-20

Table 12.--Summary of trade-monitoring gates triggered for selected commodity groups, 1982

: : :		(05) (04) (03) (05) 09 (03) (05) 09	(01) (04) (01) (04) (06) (06) (1) (04)	60 (90) :	: (06) 08 : (06) : (01) (04)	; (01) (04) 09 ; (04) ; (01) (04) 08 ; (06) ; (06) ; (06)
Imports	02 05 09 (04) 09 09	04 04 01 04	(04) (01) (04) 04	06 03 06	60	04 04 04 07 09 04
Commodity area :	rs	k yarns: of cotton, manmade , of wool or hair rn of manmade fiber : ish netting and net	Broadwoven fabrics:	Narrow fabrics	Tex CCL Te Near	Women's, girls', and infants' shirts and blouses

Table 12.--Summary of trade-monitoring gates triggered for selected commodity groups, 1982

Commodity area		Imports	 X	Exports
			: 09 : (05)	
Mearing apparel and articles, n.s.p.f., of fur: leather Mearing apparel and articles, n.s.p.f., of fur:	60			
ect to textile impo	01 04	(07)	(80) (90) :	
Neckwear	90		90 :	
rootwear	04 (01) (04) (07) 01 (04) 07	(07) 07		

Chemicals, Coal, Petroleum, Natural Gas, and Related Products 1/

During 1982, the deficit in U.S. trade in chemicals, coal, petroleum, natural gas, and related products declined to \$43 billion compared with the deficit of \$60 billion in 1981. U.S. imports of these products decreased 17 percent, from \$94 billion in 1981 to \$78 billion in 1982, and exports rose 3 percent, from \$34 billion in 1981 to \$35 billion in 1982.

The greatest change in imports from 1981 to 1982 was a decrease (\$15.7 billion) in imports of crude petroleum; elastomers and petroleum products also showed substantial declines. There were significant increases in imports of natural gas and its derivatives and certain inorganic compounds. The principal export change was an increase of \$2.6 billion in exports of petroleum products. Exports of coal and drugs also increased substantially. On the other hand, there were sizable declines in exports of fertilizers, benzenoid organic chemicals, and tires.

The positive trade balance for chemicals, coal, and related products (not including petroleum and natural gas) decreased 8 percent, from \$17.2 billion in 1981 to \$15.8 billion in 1982 (table 13, fig. 5). Imports of these products were \$13.3 billion in 1982, while exports were \$29.2 billion. The trade balance for chemicals and related products (excluding coal) decreased 14 percent, from \$11.0 billion in 1981 to \$9.4 billion in 1982.

The trade deficit for petroleum, natural gas, and related products decreased from \$77 billion in 1981 to \$59 billion in 1982, or by 24 percent (table 14, fig. 6). Imports declined \$16 billion, or 19 percent, to \$65 billion, while exports grew \$2.5 billion, or 79 percent, to \$5.7 billion.

## U.S. bilateral trade

As a group, the Organization of Petroleum Exporting Countries (OPEC) forms the largest source of imports in this sector, supplying imports of \$30 billion in 1982, followed by Canada (\$11.2 billion), and the European Community (EC) (\$10.7 billion). The greatest market for exports in 1982 was the EC at \$9.2 billion. Japan was next at \$5.1 billion, and Canada third at \$4.7 billion.

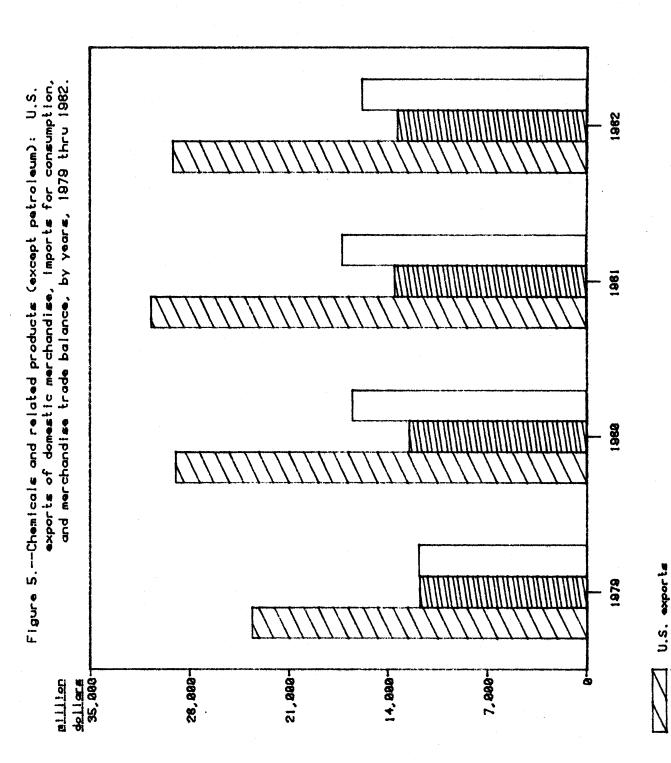
The largest change was a decline of \$18 billion in imports from OPEC, followed by an increase of \$1.6 billion in imports from Mexico.

<u>Canada</u>.—For chemicals, coal, petroleum, natural gas, and related products, the United States had a negative trade balance with Canada of \$6.5 billion in 1982, representing a 14-percent increase over the negative trade balance of \$5.7 billion in 1981. U.S. imports from Canada increased slightly from \$10.8 billion in 1981 to \$11.2 billion in 1982. U.S. exports to Canada decreased from \$5.1 billion in 1981 to \$4.7 billion in 1982.

<sup>1/</sup> Included here are the commodities classified in the following portions of the Tariff Schedules of the United States: schedule 4 (Chemicals and related products), pt. 1(J (pt.)) of schedule 5 (Nonmetallic minerals and products, and pts. 12(A), 12(B), 12(C), and 12(D (pt.)) of schedule 7 (Specified products; miscellaneous and nonenumerated products).

Table 13.--Chemicals and related products: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1980, 1981, and 1982  $\underline{1}/2$ 

	. 1980 :	1981	1982
	••		
U.S. exports of domestic merchandise:	•	•	
Canada	3,738,106 :	4,285,517	3,929,828
Japan	3,307,130	4,082,646 :	7,831,832
BC	. 600,067,7	0,2/1,409	0,421,420
	. 621'02h'T	. 636	344 913
Hong Kong	300,432	302,037 :	344,913
	. 030 074	. 140 193	431,053
KOF68	1 751 028 .	2 044 086 ·	011,540 41,540
#8X1CO	: 970'TC/'T :	2,044,096	1,369,6/4
Talwan	: 909,190	: 680,4609	069,686
OPEC	1,759,749 :	1,720,515 :	1,688,776
NES	: 638,310 :	111,062 :	936,357
China	391,640 :	414,242 :	503,340
A11 Other	6,579,823 :	6,669,769	6,155,014
Total	29,003,717 :	30,749,127 :	29,173,819
U.S. imports for consumption:			
Canada	2,801,875 :	3,342,804 :	3,339,867
Tage	1,145,579 :	1,491,047 :	1,398,984
	: 4,137,663 :	4,039,700 :	4,128,186
Brazil	125.406 :	158,775 :	145,172
Hone Kone	121,661 :	119,153 :	118,695
India	68.141 :	45,229 :	46,946
Kores	148,351 :	182,895 :	198,797
Mexico	323,228 :	401,924 :	384,185
Tai sa	268,775 :	294,701 :	311,458
DBG0	: 454,006 :	443,839 :	315,837
	317,413 :	281,136:	301,976
China	:	131,118:	131,962
A11 Other	2,578,261 :	2,704,826 :	2,650,499
Total	12,490,363 :	13,506,035 :	13,340,607
U.S. merchandise trade balance:	••		
Canada	936,231 :	942,713 :	289,960
Japan	2,361,557 :	2,591,598 :	2,952,848
EC	3,619,221 :	4,231,788 :	3,829,239
Brazil	1,300,723 :	779,493 :	717,098
Hong Kong	: 246,790 :	243,504 :	226,217
	375,487 :	361,747 :	243,782
Korea	324,509 :	398,146 :	472,548
Mexico	1,427,799 :	1,642,172:	1,005,488
Taiwan	292,830 :	314,384	284,191
0PRC	1,305,743 :	1,276,675 :	1,372,939
NKES	320,897 :	495,926 :	634,381
china	295,193 :	283,123 :	371,378
A11 Other	4,001,561 :	3,964,942 :	3,504,514
Total	16,513,354 :	17,243,092 :	15,833,212

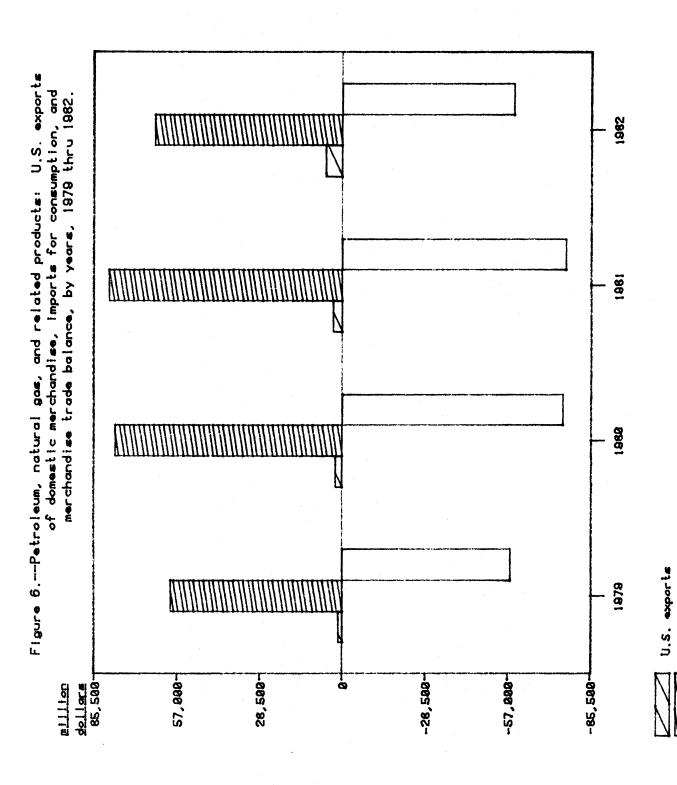


Compiled from official statistics of the U.S. Department of Commerces. U.S. trade balance Source

U.S. Importe

Table 14.--Petroleum, natural gas, and related products: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1980, 1981, and 1982 1/2/

Item	1980	1981	1982
		••	
U.S. exports of domestic merchandise:	•• / / · · · / · · · · · · · · · · · · ·	•••	1
	865,991	794,057	788,600
	294,681 :	480,755 :	111,010
	273,738 :	552,847	1,246,654
TIPBIG		: 9//:11	64,033
in the state of th	O CONTO	10,096	9, L30
		: 181'07	770,11
KOT68	11,633	88,030	217,267
	: 100'947	: 474, 647	990,10/
ISINSH	39,545	85,282	44,983
OPEC	: 600,40	145,508 :	186,408
NHES	8,662	30,326 :	55,971
Ching	1,768 :	414 :	172
All Other	427,171 :	719,963 :	1,259,598
Total	2,328,958 :	3,193,054 :	5,716,850
U.S. imports for consumption:	••	••	14
Canada:	6,915,432 :	7,409,393 :	7,854,921
Japan	17,878 :	5,250 :	14,113
*C	2,362,979 :	6,066,905	6,597,230
Brazili	39,137 :	270,257 :	630,480
Hong Kong	2.576 :	: 11	13
Ind 18	27.628		323.517
	. 60	. 160.8	44.701
	. SAD. 8AB.	6. R37. 997	A 8 004 8
	. 06	. 692	424
	A9 957 919 .	. 47 077 088 .	721
	. VIV. 10V. VI	. 202 133	23,272,222
	101,001	. 000,100	0 100
A11 Otto:	: 756,400 01	: b1b,001,01	001,000 001,000
ALL CCRF	12,304,236	12,109,618	COT, 998, UI
10781	18,3/6,835	80,337,109	64,/21,4
C.O. Merchandise trade Daismice:			6 990 1
	: Tab. 040.01	: 0,010,00	035,000,1-
	3.6,803	4/2,504	05,307
86	-2,089,240	. 314,058	9/5,056,5-
878211	: 500,50	-258,4/8:	-366,444
Hong Kong:	5,743 :	18,887	9,117
:	-7,744 :	20,128 :	-306,494
Koret	17,633:	79,949 :	232,565
Hexico	-6,312,187 :	-6,592,572 :	-7,419,728
Taiwan	39,505 :	85,032 :	44,559
0PEC	-49,863,826 :	-46,932,480 :	-29,105,814
NRS	-179,495 :	-520,976 :	-631,876
China	-130,673 :	-294,999 :	-579,986
A11 Other	-11,877,065 :	-11,389,654 :	-9,606,507
Total	-76,047,877 :	-77,144,054 :	-59,004,564



Compiled from official statistics of the U.S. Department of Commerces. Sources

U.S. trade balance

U.S. Imports

U.S. imports of Canadian natural gas were valued at \$4.8 billion in 1982 and accounted for 75 percent of the U.S. negative chemical trade balance. Other major trade items in 1982 included crude petroleum imports from Canada, which were valued at \$2 billion, and U.S. exports of coal to Canada, which were valued at \$1 billion.

<u>Japan</u>.—The positive U.S. trade balance with Japan in chemicals, coal, petroleum, natural gas, and related products has grown consistently for the past several years. In 1982, the trade balance was \$3.7 billion, representing an increase of 21 percent from the 1981 trade balance of \$3.1 billion. This positive balance resulted primarily from continued strong increases in exports, while imports varied only slightly from year to year.

Imports declined in 1982 by 6 percent to a level of \$1.4 billion from \$1.5 billion in 1981. Exports rose 12 percent from \$4.6 billion in 1981 to \$5.1 billion in 1982, resulting in an increase of \$649 million in the trade balance.

The major items in this sector that were imported from Japan in 1982 were pneumatic tires (\$367 million), miscellaneous nonbenzenoid organic compounds (\$148 million), and drugs and related products (\$110 million). The major items exported were coal (\$1.6 billion), drugs and related products (\$495 million), and petroleum products (\$484 million).

Significant trade shifts occurred in both imports and exports from 1981 to 1982. The value of petroleum products more than tripled, accounting for the largest increase in exports of the entire product group to Japan in 1982. Exports of petroleum products to Japan rose in value from \$152 million in 1981 to \$484 million in 1982. U.S. exports of fuel oils and distillate fuel oils increased rapidly during the past 3 years as Japan has become more dependent on the United States as a source for these fuels.

Total 1982 U.S. imports of chemicals, coal, petroleum, natural gas, and related products generally decreased from 1981 levels, although most individual groups of chemicals showed slight increases. The most significant drop in imports was in imports of primary benzenoid hydrocarbons (mostly benzene), which fell from 68 million gallons, valued at \$89 million, in 1981 to 34 million gallons, valued at \$37 million, in 1982, or by 58 percent in value. The 1982 level of imports from Japan represents a return to more normal levels from the sharp upturn in demand for benzene experienced in 1981.

 $\underline{\text{EC}}$ .—In 1982, the United States had a trade deficit of \$1.5 billion in chemicals, coal, petroleum, natural gas, and related products with the

EC, compared with a \$1.3 billion deficit in 1981. During both years, positive U.S. trade balances of more than \$3.8 billion in chemicals and related products were offset by deficits in petroleum, natural gas, and related products.

U.S. imports of chemicals, petroleum, natural gas, and related products from the EC increased from \$10.1 billion in 1981 to \$10.7 billion in 1982, or by 6 percent. The \$619 million increase was primarily in petroleum and related products (\$530 million) and certain chemicals such as benzene and butadiene. The increase in the petroleum sector was mostly imports of fuel oils, motor fuels, and crude petroleum, and was primarily the result of lower prices resulting from excess supplies in the EC. However, according to industry sources, this situation is not expected to continue through 1983 because of declining inventories coupled with lower production and an anticipated increase in consumer demand in the EC. In general, U.S. imports of chemicals and related products from the EC in 1982 remained flat or declined owing to the economic situation. However, imports of a few chemicals such as butadiene and benzene rose significantly, resulting in an overall increase in the value of chemical imports from the EC in 1982. These increased chemical imports were primarily the result of lower prices compared with similar domestic products resulting from large excess inventories in the EC and declining U.S. production.

U.S. exports of chemicals, petroleum, natural gas, and related products to the EC increased from \$8.8 billion in 1981 to \$9.2 billion in 1982, or by 4 percent. This rise was due primarily to a \$650 million increase in exports of petroleum, natural gas, and related products, particularly fuel oils and propane. The EC purchased increased quantities of these products because of lower prices resulting from lower feedstock costs (i.e., petroleum and natural gas) for the U.S. producers compared with other world producers. This feedstock advantage also resulted in increased exports of certain commodity chemicals such as styrene to the EC despite declining demand for these products in the EC. Overall chemical exports to the EC, however, were down about 4 percent from the 1981 level.

<u>Brazil</u>.—During 1981 and 1982, the surplus in U.S. trade with Brazil in chemicals, coal, petroleum, natural gas, and related products decreased from \$521 million to about \$151 million. U.S. imports of these products from Brazil increased nearly 81 percent, from \$429 million in 1981 to \$776 million in 1982, and exports decreased 2.5 percent, from \$950 million in 1981 to \$926 million in 1982.

The principal U.S. imports from Brazil in 1982 were \$377 million in petroleum products (mostly residual fuel oil) and \$253 million in crude petroleum. The principal exports to Brazil were \$206 million in coal, \$111 million in fertilizers, and \$107 million in miscellaneous nonbenzenoid chemicals.

The greatest changes in imports from 1981 to 1982 were increases in imports of tubes for tires and synthetic elastomers; however, U.S. imports of coal from Brazil ceased. Also showing significant increases were imports of synthetic dyes and synthetic organic pesticides. The principal export changes were increases in exports of petroleum products, aliphatic hydrocarbons, and

natural dyes, offset by decreases in exports of pneumatic tires and fertilizers.

Hong Kong.—In 1982, the United States had a positive trade balance of \$235 million in chemicals, coal, petroleum, natural gas, and related products with Hong Kong. This represents a decrease of \$27 million compared with the \$262 million positive trade balance in 1981. During both years, chemicals and related products accounted for about 95 percent of the trade.

- U.S. imports of chemicals, coal, petroleum, natural gas, and related products from Hong Kong remained relatively stable at \$119 million during 1981 and 1982. In both years, fabricated rubber and plastics products accounted for about 95 percent of these imports.
- U.S. exports of chemicals, coal, petroleum, natural gas, and related products to Hong Kong decreased from \$382 million in 1981 to \$354 million in 1982. The \$28 million decrease is largely a result of a \$22 million drop in exports of polystyrene resins, which are used in packaging and other consumer goods, the demand for which has decreased as a result of the world recession. In both 1981 and 1982, more than 50 percent of these exports were accounted for by plastics and resin materials (about 26 percent), by articles used chiefly for preparing, serving, or storing food or beverages (about 17 percent), and by benzenoid organic chemicals (about 11 percent), primarily styrene.

<u>India</u>.—Trade in chemicals, coal, petroleum, natural gas, and related products between the United States and India shifted from a positive balance of \$382 million in 1981 to a negative balance of \$63 million in 1982.

Imports from India increased by a factor of seven in value, from \$45 million in 1981 to \$370 million in 1982. Almost all of the increase was accounted for by imports of crude petroleum, which increased from zero in 1981 to \$323 million in 1982. However, in terms of total U.S. imports of crude petroleum, the \$323 million in imports from India was insignificant.

Exports to India declined 28 percent, from \$427 million in 1981 to \$308 million in 1982. Most of the decrease was accounted for by the 40-percent drop in exports of U.S. fertilizers to India, from \$267 million in 1981 to \$160 million in 1982. India, along with many other developing countries, lacked the foreign exchange in 1982 to purchase its usual requirements of imported fertilizers.

Korea.—The surplus in U.S. trade with Korea in chemicals, coal, petroleum, natural gas, and related products increased from nearly \$478 million in 1981 to \$705 million in 1982. U.S. imports of these products from Korea increased 28 percent from \$191 million to \$243 million, and exports increased 42 percent from \$669 million to \$949 million.

The principal product groups imported from Korea in 1982 were pneumatic tires (\$87 million), petroleum products (\$45 million), and fabricated rubber and plastics products (\$32 million). The most important groups exported were petroleum products (\$277 million), miscellaneous nonbenzenoid organic chemicals (\$141 million), coal (\$127 million), and fertilizers (\$93 million).

The greatest shift in U.S. import value was a 450-percent increase in imports of petroleum products from \$8 million in 1981 to \$45 million in 1982. Most of this increase was accounted for by imports of naphthas, which increased more than twelve-fold from \$2.6 million in 1981 to \$35 million in 1982.

The greatest shift in U.S. export value was a 215-percent increase in exports of petroleum products from \$88 million in 1981 to \$277 million in 1982. Most of the increase was accounted for by a 228-percent increase in U.S. exports of residual fuel oils to Korea, which were valued at \$215 million in 1982, compared with a value of \$65 million in 1981.

Other significant changes were increases in the export value of distillate fuel oil from \$5 million in 1981 to \$55 million in 1982, fertilizers from \$40 million in 1981 to nearly \$93 million in 1982 (130 percent), and miscellaneous nonbenzenoid compounds from \$92 million in 1981 to nearly \$141 million in 1982 (52 percent). The export value of coal decreased from \$152 million in 1981 to \$127 million in 1982 (17 percent).

Mexico.—The 1982 U.S. negative trade balance with Mexico increased to \$6.4 billion from \$5.0 billion in 1981, or by 30 percent. U.S. imports of chemicals, coal, petroleum, natural gas, and related products from Mexico increased from \$7.2 billion in 1981 to \$8.8 billion in 1982, while exports increased from \$2.3 billion to \$2.4 billion during the same period. Imports of Mexican crude petroleum, valued at \$7.6 billion, accounted for 86 percent of all imports in this sector from Mexico. Excluding crude petroleum, the United States would have had a \$1.2 billion positive trade balance with Mexico in the sector in 1982. The principal product group exported to Mexico was petroleum products (\$963 million).

In addition to being the principal products traded with Mexico, crude petroleum and petroleum products showed the greatest changes from 1981 to 1982. Imports of crude petroleum increased \$1.7 billion or by 28 percent from the \$5.9 billion imported in 1981. Exports of petroleum products (mostly fuel oils and motor fuels) increased \$753 million or about 360 percent from the \$210 million exported in 1981.

<u>Taiwan</u>.—The U.S. trade balance with Taiwan in chemicals, coal, petroleum, natural gas, and related products was \$329 million in 1982, compared with \$399 million in 1981. Imports of these products increased 6 percent from \$295 million in 1981 to \$312 million in 1982, while exports declined 8 percent from \$694 million in 1981 to \$641 million in 1982.

Major U.S. imports from Taiwan are finished plastics and rubber products. U.S. imports of these articles amounted to \$277 million in 1982, representing an increase of \$17 million compared with the 1981 total of \$261 million. This increase accounted for 85 percent of the total increase in U.S. imports from Taiwan in 1982.

U.S. exports of basic and intermediate chemicals to Taiwan, which accounted for \$295 million in 1982, were up 7 percent from the \$276 million exported in 1981. This increase was offset by a decline in the volume of U.S. coal exports from \$119 million in 1981 to \$96 million in 1982.

There were no major shifts from 1981 to 1982 in U.S. trade with Taiwan with respect to any other individual articles. Increased foreign competition in the chemicals market, high ocean transportation costs, and gradually increasing U.S. imports of finished rubber and plastics products have narrowed the U.S. trade balance with Taiwan during the past several years.

OPEC.—The United States suffered a \$28 billion trade deficit with OPEC in 1982 in its aggregated imports of chemicals, coal, petroleum, natural gas, and related products. This trade deficit occurred in petroleum, natural gas, and related products. In contrast, the U.S. enjoyed a favorable trade balance with OPEC in chemicals and related products. The 1982 trade deficit with OPEC was an improvement (i.e., a decrease) of about \$18 billion, or about 34 percent, in the nearly \$46 billion trade deficit incurred by the United States with OPEC in 1981.

The value of U.S. imports of chemicals, coal, petroleum, natural gas, and related products amounted to \$30 billion in 1982, or about 38 percent less than the \$48 billion imported in 1981. Petroleum and related products accounted for \$29.3 billion and \$47.1 billion, respectively, or about 99 percent of this total in both 1981 and 1982.

U.S. exports of chemicals, coal petroleum, natural gas, and related products to OPEC were about \$1.9 billion in 1982, virtually the same as in 1981. Exports of chemicals and related products represented about 89 percent of the aggregated total in both 1981 and 1982.

The value of U.S. imports of crude petroleum from OPEC in 1982 amounted to about 698 million barrels, valued at nearly \$23.4 billion, representing declines of 42 percent and 44 percent, respectively, compared with the nearly 1.2 billion barrels of crude petroleum, valued at about \$41.5 billion, imported in 1981. U.S. imports of crude petroleum in 1981 and 1982 represented 87 percent and 79 percent, respectively, of the total value of chemical and petroleum imports from OPEC.

The decrease in U.S. imports of crude petroleum from OPEC resulted in part from conservation and rising prices, which caused a decrease in petroleum products, while domestic crude petroleum production changed relatively little. The United States also moved to a more secure foreign source of crude petroleum in 1982 as Mexico became our principal supplier of crude petroleum, replacing Saudi Arabia, the leading OPEC producer.

Nonmarket economy countries (NME's).—In 1982, the United States had a positive trade balance of \$2.5 million in chemicals, coal, petroleum, natural gas, and related products with the NME's compared with a \$25 million deficit in 1981. During both years, U.S. trade deficits of over half a billion dollars in petroleum, natural gas, and related products were countered by positive U.S. trade balances in chemicals, coal, and related products.

U.S. imports of chemicals, coal, petroleum, natural gas, and related products from NME's increased from \$832 million in 1981 to \$990 million in 1982. This \$157 million rise reflects a \$137 million increase in imports of petroleum and petroleum products most (likely a result of favorable prices for98 Chinese goods relative to world prices) and a \$23 million increase in imports

of fertilizers and fertilizer materials (attributed to increased unit values since the actual quantity of imports decreased slightly). In 1982, U.S. imports of petroleum products from NME's were valued at \$507 million; imports of crude petroleum, at \$181 million; and fertilizers and fertilizer materials, at \$109 million.

U.S. exports of chemicals, coal, petroleum, natural gas, and related products to NME's increased from \$807 million in 1981 to \$992 million in 1982. The \$185 million rise is largely a result of a \$95 million increase in exports of polyethylene resins to China, (attributed to increased demand for the plastics material in agricultural and industrial packaging applications) and a \$31 million increase in exports of fertilizer materials (attributed to increased sales of nitrogenous fertilizers to China, where domestic production is insufficient to meet demand, and increased sales of superphosphoric acid to the U.S.S.R. after the removal of an export embargo in April 1981). In 1982, U.S. exports of fertilizers and fertilizer materials to NME's were valued at \$469 million; exports of plastics and resin materials, at \$239 million; and petroleum products, at \$56 million.

China was the United States' major NME trading partner in this sector in 1982; U.S. imports exceeded exports by \$209 million as compared with a negative trade balance of only \$12 million in 1981. During both years the United States had a trade deficit in energy products and a trade surplus in chemical products.

U.S. imports from China rose from \$427 million in 1981 to \$712 million in 1982, or by 67 percent. Imports of crude petroleum, gasoline, and naphtha accounted for the increase. U.S. imports of chemical products remained about \$130 million in 1981 and 1982. U.S. exports of chemical products to China went from \$415 million in 1981 to \$504 million in 1982, or by 21 percent. This rise was due to larger exports of polyethylene and polypropylene resins for agricultural and industrial packaging. U.S. exports of energy products were less than half a million dollars in both years.

## Commodity analyses

Benzenoid intermediate chemicals.—In 1982, the United States maintained a positive trade balance for benzenoid intermediate chemicals as exports exceeded imports by 2 billion pounds, or \$725 million. However, this balance was approximately 15 percent smaller in terms of quantity than the 2.4 billion pounds (\$910 million) recorded in 1981. U.S. imports of benzenoid intermediate chemicals in 1982 declined 6 percent in quantity from the 1981 level of 1 billion pounds, valued at \$1.0 billion, reflecting the continuing economic slowdown in the United States.

Commodity chemical imports, such as styrene and cumene, were more adversely affected than specialty intermediate chemicals because the primary end users, the construction and automotive industries, were more adversely affected by the economic slowdown than more specialized industries.

Despite the feedstock advantage of the U.S. benzenoid intermediate chemical producers, U.S. exports of intermediate chemicals in 1982, which

amounted to 3 billion pounds, valued at \$1.3 billion, declined by 12 percent in quantity from the 1981 level. Stagnant economies in the major U.S. export markets resulted in lower demand for imported products, including intermediate chemicals.

Edmund Cappuccilli 523-0490

Toluene.--U.S. imports of toluene increased from 69 million gallons, valued at \$86 million, in 1981 to 116 million gallons, valued at \$121 million, in 1982. The 68-percent increase in the quantity of imports is the result of demand for toluene as an octane booster in unleaded gasolines. The shift toward unleaded gasolines and the increasing compression ratios in new car engines are behind the demand for and increased imports of toluene. Another reason for the increased imports is price. Toluene imports averaged \$1.04 per gallon during 1982. Domestic production averaged \$1.25 per gallon. According to industry sources, toluene imports may decrease in the future due to a greater supply of toluene from domestic petroleum refineries and competition from other octane enhancers such as methyl tertiary butyl ether (MTBE).

Jim Raftery 523-0453

<u>Butadiene</u>.—U.S. imports of butadiene increased from 462 million pounds, valued at \$143 million, in 1981 to 753 million pounds, valued at \$209 million, in 1982. The 63-percent increase in the quantity of imports reflects their low average unit value of \$0.28 per pound during 1982. Most of these lower priced imports were from Western Europe. Most ethylene plants in Western Europe use heavy liquid feedstocks, which yield large quantities of coproduct butadiene. With low demand for butadiene in Western Europe, a large surplus exists.

Jim Raftery 523-0453

Inorganic chemicals other than uranium compounds.—International trade between the United States and other countries in chemical elements, inorganic acids, and certain inorganic chemicals (excluding uranium compounds) declined in 1982 as compared with trade in 1981. The trade surplus for these chemicals decreased from \$292 million in 1981 to \$137 million in 1982, as the result of a 9-percent decline in imports from \$1.8 billion in 1981 to \$1.7 billion in 1982, and a 15-percent drop in exports from \$2.1 billion to \$1.8 billion.

U.S. imports of aluminum oxide declined by 14 percent in value from \$836 million (8.8 billion pounds) in 1981 to \$719 million (6.7 billion pounds) in 1982, and exports dropped 17 percent in value from \$206 million (1.6 billion pounds) to \$171 million (1.2 billion pounds). These reductions in the international trade in aluminum oxide, which is used mostly to produce aluminum metal, is due to the worldwide slump in demand for aluminum.

U.S. imports of sodium hydroxide increased 46 percent in value from 246,000 short tons, valued at \$45 million, in 1981 to 395,000 short tons, valued at \$66 million, in 1982. Almost half of these increased shipments came from Canada. According to an industry source, Canada had excess production capacity in 1982 and was able to increase shipments of sodium hydroxide to the Northeastern and Midwestern portions of the United States after several major U.S. sodium hydroxide and chlorine plants were shut down.

Exports of sodium hydroxide, however, declined 42 percent in value from 1.3 million short tons, valued at \$271 million, in 1981 to 810,000 short tons, valued at \$158 million, in 1982. A sluggish worldwide market for aluminum (the refining of which consumes sodium hydroxide) and a decline in the use of sodium hydroxide in the pulp and paper industry are believed to have been the principal factors responsible for the export decline.

Because of a worldwide decline in demand for fertilizers in 1982, both imports and exports of sulfur, which is used primarily to produce phosphatic fertilizers, were lower in 1982 than in 1981.

Imports of sulfur declined 21 percent in value from an estimated 2.5 million long tons, valued at \$210 million, in 1981 to 1.9 million long tons, valued at \$165 million, in 1982.

Sulfur exports declined 32 percent in value from 1.4 million long tons, valued at \$187 million, in 1981 to 1.0 million long tons, valued at \$128 million, in 1982. Lower demand for sulfur and competition in the world market from other sulfur-producing nations, particularly Canada and Saudi Arabia, the latter of which has only recently developed sulfur production capacity, contributed to the decline.

Exports of sodium carbonate (soda ash) increased 16 percent in value from 2.1 billion pounds, valued at \$121 million, in 1981 to 2.2 billion pounds, valued at \$141 million, in 1982 primarily because of increased shipments of soda ash to Brazil, the United Kingdom, Thailand, Taiwan, and Switzerland. The United States has a competitive edge in the soda ash market because soda ash is obtained in the United States at a relatively low cost from natural deposits that are located in Wyoming (as a result, imports in recent years were less than \$2.5 million annually). U.S. companies have been conducting an aggressive compaign to increase exports, especially since domestic consumption of soda ash has been decreasing. Soda ash is used in the manufacture of glass and chemicals.

Jack Greenblatt 523-1212

Miscellaneous nonbenzenoid organic chemicals.—Imports of miscellaneous nonbenzenoid organic chemicals in 1982 increased 10 percent in terms of quantity from those in 1981, to 269 million pounds. Their value increased by only 2 percent, to \$1.1 billion, as a result of increased imports of low-priced monohydric alcohols and only slight increases in imports of higher priced commodity chemicals. Ethanol and methanol both experienced significant increases in imports, from Brazil and Canada, respectively, due to the

existence of low-cost starting materials and economies of scale in both countries.

Exports of miscellaneous nonbenzenoid organic chemicals exceeded imports by \$1.8 billion in 1982, compared with a trade surplus of \$2.0 billion in 1981, representing a decline of 7 percent. Exports of these chemicals amounted to 9.2 billion pounds, valued at \$2.9 billion, representing a 10-percent increase in terms of quantity from 1981.

Although conditions of economic slowdown exist in the major U.S. export markets, Japan still appears to be an attractive market for basic commodity chemicals, such as methanol and ethylene glycol. An increasing trend continued for exports of methanol, and ethylene glycol exports to Japan increased more than sevenfold, not as result of demand, but because of pricing differences between U.S. and Japanese suppliers. Japanese producers have petitioned against unfairly underpriced early 1982 imports from the United States, which averaged 17 cents per pound, compared with U.S. imports from Japan, which averaged 77 cents per pound.

David G. Michels 523-0293

Crude petroleum.—The quantity of crude petroleum imported in 1982 decreased almost 20 percent to 1.4 billion barrels from 1.75 billion barrels in 1981. This decrease of almost 334 million barrels was about 50 percent greater than the decrease between 1980 and 1981. It was a direct result of the decrease in consumption of U.S. petroleum products, which was about 5.5 percent lower in 1982 than in 1981. This downward trend in consumption started in 1979; therefore, 1982 was the fourth consecutive year in which U.S. consumption of petroleum products was lower than in the preceding year.

U.S. imports from most suppliers decreased in volume. The major OPEC sources of U.S. imports—Saudi Arabia, Nigeria, Indonesia, the United Arab Emirates, and Venezuela—exported smaller quantities to the United States in 1982 than in 1981. Of the top 10 U.S. import sources in 1982, only three—Mexico, the United Kingdom, and Canada—exported larger quantities to the United States in 1982 than they did in 1981. Mexico went from being the third largest U.S. supplier in 1981 to the largest U.S. supplier in 1982, replacing Saudi Arabia, which held the top spot in 1981 and in at least the 3 prior years.

The 20-percent decrease in the quantity of imports between 1981 and 1982 combined with a unit value decrease resulted in a 26-percent decrease in the value of imports, which totaled \$45.7 billion in 1982 compared with \$61.5 billion in 1981. The unit value decreased from \$35.10 per barrel in 1981 to \$32.27 per barrel in 1982. This 8-percent decrease was the first in the 5-year period 1978-82. It reflected the 1982 world crude petroleum oversupply and the resulting price softness. The unit value of imports from Mexico of \$28.54 per barrel was the third lowest of all major 1982 U.S. suppliers; the unit value of imports from Canada was \$28.42 per barrel, and that for imports from Venezuela was \$24.03 per barrel.

The quantity and value of 1982 U.S. crude petroleum exports decreased approximately 20 percent relative to quantity and value in 1981 and totaled 13.1 million barrels, valued at \$469 million. However, the unit value increased about 2 percent, from \$35.07 per barrel in 1981 to \$35.84 per barrel in 1982. Canada was essentially the only crude petroleum export market for the United States.

John J. Gersic 523-0451

Petroleum products.—The value of U.S. petroleum product imports was essentially the same in 1982 as in 1981, totaling \$13.1 billion and \$13.2 billion, respectively. This stability was the result of increases in the values of certain U.S. petroleum product imports and decreases in the values of other U.S. petroleum product imports. The value of fuel oil imports, including both residual and distillate, decreased between 1981 and 1982, as did the values for imports of lubricants and jet fuels. The values of motor gasolines, naphthas, kerosene, and miscellaneous petroleum products increased between 1981 and 1982.

The largest increase in import value, from 1981 to 1982, \$0.4 billion, was recorded by motor gasolines. This increase was entirely the result of an increase in import quantities from 32.5 million barrels in 1981 to 46.1 million barrels in 1982, as the unit value decreased from \$39.47 per barrel in 1981 to \$36.83 per barrel in 1982.

The Netherlands, Brazil, and China accounted for almost all of the \$0.4 billion increase in the value of imports. Both China and Brazil are relatively new import sources; imports from China began in 1979 and imports from Brazil, in 1982. Changes in local demand, refinery expansions, and trade policies were all factors in increased imports from these three countries.

The value of U.S. exports of petroleum products more than doubled between 1981 and 1982, rising from \$2.2 billion to \$4.8 billion. At least part of this increase resulted from the lifting of U.S. export controls on petroleum products late in 1981. Of all petroleum product exports, only the values of lubricants, including lubricating oils and lubricating greases, were lower in 1982 than in 1981; the total for lubricants decreased from \$0.6 billion in 1981 to \$0.5 billion in 1982.

Of the additional \$2.6 billion in petroleum product exports in 1982 compared with 1981, the largest share, or almost 80 percent, was accounted for by additional fuel oils exports, about equally divided between distillate fuel oils and residual fuel oils. About 58 percent of the \$2.6 billion increase went to the Netherlands, Japan, Mexico, and Korea combined. An additional \$0.5 billion was accounted for by increased motor fuels imports, about 88 percent of which were motor gasolines.

Fertilizers.—Imports of fertilizers declined 10 percent in quantity from 14 million tons, valued at \$1.4 billion, in 1981 to 13 million tons, valued at \$1.3 billion, in 1982. Most of the decline was accounted for by the 22-percent drop from 8 million tons, valued at \$677 million, in 1981 to 6 million tons, valued at \$515 million, in 1982, of potassic fertilizers from Canada. The drop in imports of potassic fertilizers was partially offset by a small (4-percent) increase in imports of nitrogenous fertilizers from 4.1 million tons, valued at \$496 million, in 1981 to 4.2 million tons, valued at \$578 million, in 1982. The principal reason for the decline in imports of potassic fertilizers was a drop in domestic consumption because of the depressed farm economy. Exports of fertilizers were down 9 percent, from 25 million tons, valued at \$2.7 billion, in 1981 to 23 million tons, valued at \$2.3 billion, in 1982.

Ted C. Briggs 523-1145

Coal and other carbonaceous materials.—U.S. exports of coal decreased from 121 million short tons, valued at \$6.3 billion, in 1981 to 116 million short tons, valued at \$6.4 billion, in 1982. This decrease has been attributed to two major market developments—the continuation of the worldwide recession in 1982 and a supply/demand imbalance in the crude petroleum market. Although U.S. exports decreased slightly in 1982, the volume of exports was still well above the 1979 and 1980 levels, reflecting a continuing desire by world consumers for a secure source of coal. Coke, a carbonaceous material which is primarily used in blast furnaces, is influenced by changes in domestic production of steel. As a result of the continued decrease in production of steel, U.S. imports of coke decreased from 527,000 short tons, valued at \$42.1 million, in 1981 to 120,000 short tons, valued at \$9.2 million, in 1982.

Cynthia B. Foreso 523-1230

<u>Uranium and uranium compounds</u>.—U.S. imports of uranium compounds increased from 3,300 tons in 1981 to 3,800 tons in 1982, while U.S. exports of uranium compounds decreased from 2,200 tons in 1981 to 1,900 tons in 1982. The increase in imports and the decrease in exports are partially attributed to a continuing decline in U.S. uranium production as well as to increasing foreign production. Another factor contributing to the decrease in U.S. exports is that enrichment services, formerly offered only in the United States, are now available in several nations.

Cynthia B. Foreso 523-1230

Table 15.--Annual data on U.S. imports and exports for selected commodity groups  $\underline{1}/$ 

Commodity area :	1980	1981	1982	Change
	 E	(2)	(3)	(2) t (3) (4)
Benzenojd hydrocarbons (primary)	••••	•• •• •	•••••	
Value (1,000 dallons)	501,309:	563,514:	776,226:	m
Quentity (1,000 gallons)	1,403,847: 547,725:	1,420,754:	1,294,886: 561,304:	1 7
Appress quantity (1,000 pounds)	893,747:	1,023,232:	957,980: 600,585:	1 7
Quantity (1,000 pounds)	3,531,419: 1,648,000:	3,403,582:	2,984,848:	11
Quantity (1,000 pounds)	103,253: 273,047:	127, 154:	153,905:	81
Cxports:     Quantity (1,000 pounds)	649,646:	531,830:	516,007:	
Imports: Quantity (1,000 pounds)	2,047: 22,145:	1,468: 7,800:	1,530: 18,056:	13
Chantity (1,000 pounds)	289: 305:	452: 667:	122: 270:	1.1
Imports: Value (1,000 dollars)	195,280:	278,967:	230,444:	- 17
Exports: Value (1,000 dollars): Inorganic acids	298,397:	308, 181:	222,007:	2
Apports: Quantity (1,000 pounds)	1,224,205:	1,212,507:	1,360,150: 128,354:	- 1
Quantity (1,000 pounds)	26,644,584:	19,239,888:	766,147:	9 1

Table 15.--Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	1982	1 ~ 01
	 E	(5)	(3)	(4)
	2,247,097	2, 183, 138:	2,412,301	10
Exports: (1,000 dollars)	2,474,626:	2,625,537:	2,541,083:	۳ ا
Imports: Quentity (1,000 pounds)	9,580,592: 781,106:	8,767,562: 836,108:	6,725,264: 713,992:	-23 -14
Exports:     Quantity (1,000 pounds)	1,826,756: 208,417:	1,581,730: 205,516:	1,225,385: 170,700:	-23
Imports:	24,531:	25, 182: 20,345:	20,959: 18,173:	-17
Exports: Quantity (1,000 pounds)	3,739:5,852:	3,544:	3,263: 4,401:	11
Imports: Quantity (1,000 pounds)	92,878: 2,071:	173,729: 4,088:	121,247:	-30 -26
Exports: Quantity (1,000 pounds)	98,430: 9,754:	65,588: 13,004:	110,114:	68 - 15
[moorts Quanti Value	72,330: 5,944:	70,980:	89,682: 8,021:	26
Exports: Quantity (1,000 pounds)	70,703: 12,808:	52,101: 15,901:	54,353:	48
Imports: Quantity (1,00 Value (1,00	24,442: 14,780:	35,259: 21,884:	41,654: 26,920:	18
Exports: Quantity (1,000 pounds)	57,467:	53,376: 12,263:	53,334:	25

Commodity area	1980	1981	1982 : C	ercent hange from
	: :: E			(2) to (3)
			•••••	
ty (1,000	3,379:	4,136:	3,905:	128
Exports: Quantity (1,000 pounds)	10,153:	7,330:	12,440:41,805:	70
Imports: Quantity (1,000 pounds)	3,789: 2,066:	3,900:	6,103:	56
Exports: Quantity (1,000 pounds)	17,811:	14,519:	10,674: 5,572:	-26 -40
Imports: Quantity (pounds)	40,065: 12,549:	171,587:	193,493:	
DO 4	19,722: 2,153:	28,820: 1,528:	44,407:	54
Socium olcarbonate Imports: Quantity (1,000 pounds)	4,759:	6,460:	14,031:	117
Exports: Quentity (1,000 pounds)	38,427: 5,697:	41,637: 6,287:	39,923:	40
Imports: Quantity (1,000 pounds)Value (1,000 dollars)	36,577:	23,669:	36,244: 2,410:	53 83
Exports:	2, 188,680: 121,945:	2, 101, 077:	2,217,146:	<b>3</b> 5
Imports: Quantity (1,000 short tons)	5,298: 44,071:	4,974: 49,156:	5,450:	10 14
Caports: Quantity (1,000 short tons)	2,404:	1,171:	1,001:	115

Table 15.--Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	1982	
	: E	(2)	(3)	(2) to (3) (4)
Sodium hydrosulfite	••••			
imports: Quantity (1,000 pounds)	160: 59:	661:	6,303: 2,724:	853
000	35,216:	31,166:	35,345:	13
t e				
Value (1,000 dollars)	229,993:	291,267 <sup>2</sup> 19,135 <sup>2</sup>	394,266: 28,757:	3.5 50
Quantity (short tons)	129,385:	124,065:	110,785:	-11
ungsten compounds	1,085:	1,926:	3,378:	75
oounds Jollar	6,49	2,81	2,34	
Uranium compounds Imports: Quantity (pounds)	22,899,651: 961,623:	24,558,338: 755,433:	37,213,515: 1,102,942:	52 46
(pound (1,000 ounds	11,377,934:756,873:	36,935,907:	4,730,934: 1,036,410:	-37 16
	3,099: 8,491:	1,193:	465: 1,067:	-61 -68
Exports:     Quantity (1,000 pounds)	1,448:	691: 2,011:	3,215:	365
Zinc sulfate	8,534: 1,349:	6,298: 1,186:	5,081: 5,081:	- 19 - 17
Quantity (1,000 pounds)	2,319:	3,062:	2,097:	-31

Table 15.--Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	1982 : :	:Percent :Change : from
	(1)	(2)	(3)	(2) to (3) (4)
Zirconium compounds Zirconium oxide		<b></b>	•• ••	
Imports: Quantity (1,000 pounds)	617:	470: 1,411:	663:	50
î j	4,778: 3,679:	1,564: 2,253:	2,033:5,420:	30
Aports: Quantity (1,000 short tons)	46: 4,737:	36: 4,029:	2,569:	-31 -36
Exports: Quantity (1,000 short tons)	1,097:	1: 826:	8: 2,530:	369 206
Imports: Quantity (1,000 pounds)	12,124:	14,964: 2,604:	10,594:	129
exports: Quantity (1,000 pounds)	27,192:	24,551:	27,241: 9,189:	11
Aports: Quantity (1,000 pounds)	1,963,096:	2,223,400: 1,047,166:	2,456,066:	0 0 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Acid anhydrides and acyl halides	7,679,892: 2,923,312:	8,369,997: 3,045,399:	9,196,448:2,916,225:	10
i ty	20,166: 5,003:	22,098:	14,646: 7,407:	-34 16
Salts of organic acids (non benzenoid)	26,877:	26,032:	28,852:	11
	30,757: 25,190:	61,510:	41,398: 37,565:	-33
Quant Value	24,930:	24,773: 20,676:	24,257: 20,288:	-2

Table 15.--Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	1982 : 0	:Percent :Change
•••••	(1)	(2)	(3)	(2) to (3) (4)
ydes		•••••	•••••	
Imports: Quantity (1,000 pounds)	17,598:	44,172:	59,797: 18,764:	35 43
Exports:     Quantity (1,000 pounds)	207,705:	71,930: 26,870:	63,919: 26,923:	0
Quantity (1,000 pounds)	11,973:	39,667:	101,413:	156 92
Exports: Quantity (1,000 pounds)	382,483: 93,872:	300,059: 88,551:	212,310:	1.29
Imports: Quantity (1,000 pounds)	859,003: 158,238:	537,386:	778,943:	10
Exports: Quantity (1,000 pounds)	1,034,187:	1,644,316:	1,989,076:	21
Imports: Quantity (1,000 pounds)	100,101:	188,008:	131,278:	-30
ID THE TO	793,575: 330,319:	872,118: 360,011:	1,146,328: 360,266:	3.1
Imports: Quantity (1,000 pounds)	27,823:	51,437:	49,657: 28,809:	- 3 - 10
Exports: Quantity (1,000 pounds)	1,050,322:337,526:	1,059,210: 363,973:	377,855:	1.4
port Quan Valu	64,138:	133,571:	65,071: 26,312:	-51
	267,836: 104,673:	272,971:	177,899:	135

Table 15.--Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	1982	Percent Change from
	(1)	(2)	(3)	(2) to (3) (4)
Ethers of monohydric alcohols (non benzenoid)				
Imports: Quantity (1,000 pounds)	7 19:	322: 587:	404: 543:	25
Exports: Quantity (1,000 pounds)	17,327:	56,677:	64,868:	14 - 12
Apports: Quantity (1,000 pounds)	261,063:	412,244:	336,212:	1 0 0
Exports:     Quantity (1,000 pounds)	2,094,101: 407,681:	1,980,705:	316,204:	1 0 0 0
imports: Quantity (1,000 pounds)	9,837:	7,021:	8,824:	26 46
Exports: Quantity (1,000 pounds)	35, 158: 21,271:	29,897: 23,883:	19,052: 22,274:	-36
Imports: Quantity (1,000 pounds)	139,782:	165,429: 98,326:	290,774:	76
Exports: Quantity (1,000 pounds)	765, 133: 716,590:	677,343: 702,533:	611,732:	1 1 1 3
Imports: Quantity (1,000 pounds)	1,682,994:	1,623,585:	1,599,907:	14
Exports: Quantity (1,000 pounds)	594,496: 173,520:	607,199:	646,125	90
rts: lue	969,536:	1,068,088:	1,095,900:	M
ort alu	2,004,420:	2,223,396:	2,319,392	4

Table 15.--Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	1982	I CL CD E
		(2)	(3)	(2) to (3) (4)
Plastics and resin materials		••••		
Imports: Quantity (1,000 pounds)	338,240: 227,992:	395,614:	373,437	98
Exports: Quantity (1,000 pounds)	5,344,032: 2,832,820:	4,705,350: 2,676,674:	5,090,651 2,585,803	 8 F
Imports: Quantity (pounds)	: 1668,711,017: 995,115:	: 1836,346,175: 994,599:	1756,709,483	-25
ty (pounds)	: 1079,271,193: 775,451:	862,621,028: 701,228:	716,329,907	- 13
Imports: Value (1,000 dollars)	18,511:	24,028:	24,910	4
Exports: Value (1,000 dollars)	90,459:	96,626:	107,283	=
Imports: Quantity (pounds)	20,864,494: 131,577:	16,932,453: 87,130:	16,603,504:	1 1
Quantity (pounds)	28,884,423:	31,086,544: 99,564:	26,160,234 96,294	-16 -3
Imports: Quantity (1,000 pounds)	96,090: 61,951:	91,794:	59,360	135
exports: Quantity (1,000 pounds)	25,888: 28,362:	26,248: 33,917:	22,601 32,914	1 1 3 4
Imports: Value (1,000 dollars)	229,688:	267,017:	288,277	∞
Surface-active agents	407,254:	455,904:	430,939	ភ្
Imports:   Quantity (1,000 pounds)	116,826: 60,581:	111, 184:	113,392	- 15
V Q T D U	364,017: 129,806:	415,260: 145,391:	325,289 128,146	-22

Table 15.--Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	1982	:Percen
				trom (2) t
	(1)	(2)	(3)	(4)
Soaps and synthetic detergents	••••			
imports: Quantity (1,000 pounds)	22,608:	26,852: 20,256:	39,645	4.0
Exports: Quantity (1,000 pounds)	240,497:	293,891: 200,332:	194,946 147,054	1 1
Apports: Quantity (1,000 pounds)	29,471: 167,005:	34,352: 164,591:	34,390 163,526	1
Quantity (1,000 pounds)	39,903:	32,696:	28,953	71
Quantity (1,000 pounds)	4,790:	6,022:	8,957	40
Agorts.  Quantity (1,000 pounds)	25,522:	23,048:	20,541:75,770:	7
Quantity (1,000 pounds)	66,313:	88,754:	50,703	47
Quantity (1,000 pounds)	5,337:	4,371: 5,099:	3,230	1-1
Quantity (1,000 pounds)	632:	613:	846: 344:	ю
Against (1,666 pounds)	9,563:	6,262: 3,107:	2,378	9 5
E >	:3949,307,288: : 283,162:	4182,188,814:	4825,292,416 340,101	•
Valu Valu	515,596,827:	445, 186, 906: 201, 391:	369,290,191: 196,399:	1

Table 15.--Annual data on U.S. imports and exports for selected commodity groups

Commodity area :	1980	1981	1982	Percent Change from
	 E	(2)	(3)	(2) to (3) (4)
Inks and ink powders, total				
Imports: Quantity (pounds)	8,837,632:	11,483,301:	10,361,405:	- 10 - 1
Exports:    Quantity (pounds)	31,468,993: 47,431:	34,051,960: 58,133:	27,403,611: 51,360:	-20
Imports: Value (1,000 dollars)	23,930:	27,072	30,829	14
Exports: Value (1,000 dollars)	213,798:	248,623:	243, 144:	-2
Imports: Quantity (1,000 barrels)	1,974,774:	1,750,963:	1,416,884:	-19 -26
Exports: Quantity (1,000 barrels)	30,567: 750,541:	16,447: 576,795:	13,083: 468,870:	-20
Imports: Value (1,000 dollars)	11,355,510:	13,190,129:	13,063,407:	ī
Value (1,000 dollars)	1,312,832:	2,230,579:	4,791,893:	115
Imports: Value (1,000 dollars)	5, 122, 322:	5,689,065	5,934,187	4
Exports: Value (1,000 dollars)	265,584:	385,679:	456,036:	18
umports: Quantity (1,000 short tons)	15,319:	13,966:	12,551:	-10
orts uant alue sive	48,532: 3,186,526:	2,736,852:	2,279,744:	-9 -17
0.02 > 1	21, 157, 152: 22, 566:	9,302,102: 22,364:	15,270,138: 24,483:	64 9
Exports: Quantity (pounds)	46,211,330:	34,402,994: 47,592:	26,512,172: 55,619:	-23

Table 15.--Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	1932	:Percent :Change : from
	 E	(2)	(3)	(2) to (3) (4)
Cleaning and polishing compounds, 10 pounds each or:		•• ••		, t
less Imports: Value (1,000 dollars)	5,074:	5,501:	6,653	21
Exports: Value (1,000 dollars)	44,813:	52,618:	44,760	- 15
Imports: Value (1,000 dollars)	344,326:	385,774:	454,870	18
Exports: Value (1,000 dollars)	442,245:	442,328:	378,012	1.
Imports: Quantity (1,000 pounds)	19,040:	21,744:	21,081	N II
Exports: Quantity (1,000 pounds)	7,058: 2,708:	7,978: 2,729:	6,189	-22 -14
Imports: Quantity (1,000 short tons)	1,885:	1,589:	884 32,828	-44 -55
Exports:     Quantity (1,000 short tons)	100,947: 5,037,378:	120,733: 6,342,803:	116,443	40
(1,00	326,719:	397,015	405,310	8
Exports: Value (1,000 dollars)	710,314:	778, 137:	747,750	<b>*</b>
Imports: Value (1,000 dollars)	155,518:	178,842:	186,737	· • • • • • • • • • • • • • • • • • • •
Exports:  Value (1,000 dollars)	219,387:	250,074:	215,309	- 14
Value (1,000 dollars)	6,834:	7,157:	9,780	37

Table 15. -- Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	1982	:Percent :Change
	· • E	(2)	(3)	(2) to (3)
Pneumatic tires :	••	••		
Imports: Quantity (1,000 units)	45,935: 1,220,868:	44,852:	40,425: 1,181,598:	-10
Quantity (1,000 units)	11,635:	13,848: 533,109:	6,636	1.36
Quantity (units)	33,755,483: 5,226:	34,298,590:	16,495,914	-52
Quantity (units)	5,219,971:	3,746,355:	2,190,747	142
Imports: Quantity (1,000 units)	42,144: 64,250:	51,452: 62,098:	28,775	-44 -17
Quantity (1,000 units)	4,556:	3,424:	2,024: 22,034:	-41
Imports: Value (1,000 dollars)	3,378:	3,741:	3,498	9 1
Value (1,000 dollars)	7,132:	8,973:	10,434	16
Imports: SValue (1,000 dollars)	695,941:	769,859:	836,995	6
L Ce	898,768:	1,034,951:	998,645	<b>5</b> -

Table 16.--Summary of trade-monitoring gates triggered for selected commodity groups, 1982

Commodity area				Imports					-	Exports	r s	
hydrocarbons (pri organic chemicals	90	(10)			-							
organic pesticid pesticides, tota	03	80					(03) ((	0 (90)	90	60	0	
mical elementsr rganic acids							(90)	0 80	60			
ı compounds ıum oxide						•• ••	60					
Antimony compounds	60											
Calcium chlorida	(90)					••••	90	(80)	0			
Manganese compounds								0 (80)	60			
Phosphorus compounds	200	90				 	33)		80	0		
spuno	; ;	•	9			••	)			•		
Sodium bicarbonate	9 M G	90	60									
Sodium chloride	6 O	90	08	60								
1 fate	03	90					60					
spunodmo:	0 0	0 0					(04)	0.7				
Vanadium compounds	( ) ( )	(40)				••	¥	יי	9			
	,					• ••						
Zinc sulfate:						 	03) ((	0 (90)	60			
Zirconium oxide	03	90				•••	200	90	80	60		
Nydrogen peroxide						• •• •	n		_	<u>.</u>		
Miscellaneous non benzenoid organic compounds: Acid anhydrides and acyl halides:	(90)	80				•••						
Salts of organic acids (non benzenoid):	(06)	80 2	600									
.	000	90				• ••						
Monohydric alcohols, unsubstituted and : halohydrins (non benzenoid)	90											
Polyhydric alcohols and their derivatives (non:	(40)					•• ••	7					
ic alcohols, organic acids							•					
acids (non benzenoid) genated expoxides (non			0			• ••						
alcohols	60	(90)	Λ Э				( 9)					
irocarbons (non benzenold) compounds	03	608					(90)	0 80	60			
()												

Table 16.--Summary of trade-monitoring gates triggered for selected commodity groups, 1982

Exports:		: (05) : (05) : (04) : (04) : (03) (06) 07	: (04) : (04) : 09 : 08 10		: (02) (05) 07 09 : (02) (05) (07) : (02) (05)
Imports		09 06 06) 08 04	(01) (04) 06 (08)	(01) (04) 09	05) 07 09 05) 07
Commodity area :	1s	synthetic detergents	total	chemically treated  smaterial profile shapes, total s.p.f. suitable for quids, including ngs, or rubber or	ber or : : : : : : : : : : : : : : : : : :

## Minerals and Metals 1/

The trade deficit in the minerals and metals sector for 1982 amounted to \$14.5 billion, 1 percent greater than the deficit of \$14.4 billion in 1981 and 116 percent greater than the deficit of \$6.7 billion in 1980 (table 17, fig. 7).

Data on imports for 1982 showed a 15-percent decrease to \$29.2 billion from \$34.4 billion in 1981 and an 8-percent decrease from \$31.8 billion in 1980. U.S. exports decreased 26 percent, from \$20 billion in 1981 to \$14.8 billion in 1982, and were 40 percent less than exports in 1980.

The large deficit continued in 1982 despite an average decrease of 33 percent in sector imports in the following items: iron and steel mill products, precious metals, copper, aluminum, nickel, ferroalloys, lead, zinc ore and metal, tungsten ore, and ceramic floor and wall tile. There were no significant import increases of the commodities provided for in this sector to offset these decreases which amounted to \$3.3 billion. Significant export decreases were reported in precious metals (down 60 percent), iron and steel mill products (down 30 percent), aluminum (down 23 percent), and molybdenum (down 42 percent), amounting to a decrease of \$3.4 billion.

## U.S. bilateral trade

The major trading partners for the minerals and metals sector in 1982 were Japan, EC, Canada, and OPEC. The trade deficit with Japan, EC, and Canada totaled \$10.1 billion, an 11-percent increase from 1981. Data on U.S. trade with OPEC in 1982 disclosed a surplus of \$1.4 billion, up 17 percent from the surplus of \$1.2 billion in 1981.

<u>Canada</u>.—The U.S. trade deficit with Canada in the minerals and metals sector for 1982 amounted to \$2.4 billion or 20 percent less than the deficit of \$3.0 billion in 1981.

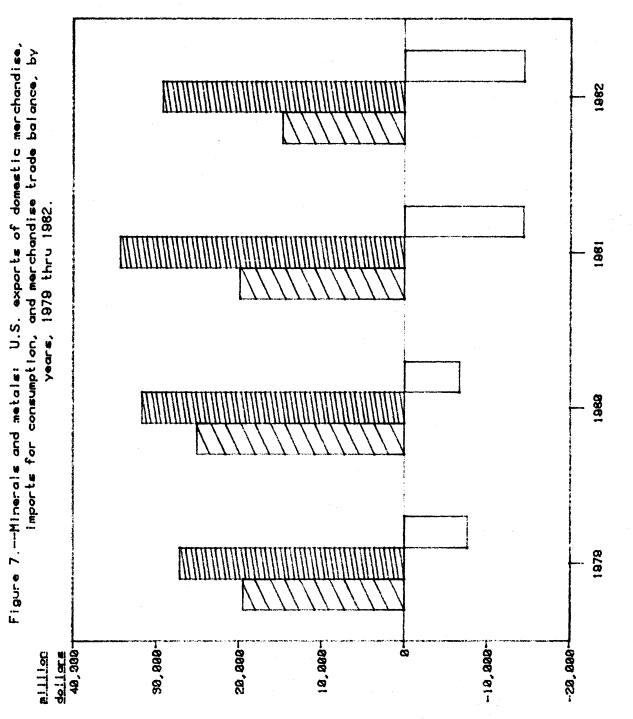
Data on imports from Canada for 1982 showed a 26-percent decrease to \$5.7 billion from \$7.7 billion in 1981. U.S. exports to Canada decreased 30 percent to \$3.3 billion in 1982 from \$4.7 billion in 1981.

The large U.S. trade deficit with Canada in the minerals and metals sector was the result of substantial imports of precious metals and steel mill products relative to U.S. exports of precious metals and steel mill products to Canada. The deficit in these products for 1982 totaled \$1.2 billion, accounting for 51 percent of the deficit in the entire sector. Also contributing to this sector's 1982 negative trade balance were deficits totaling \$1.1 billion in bauxite and aluminum metal, nickel, zinc, and miscellaneous base metals and ores.

<sup>1/</sup> Included here are the commodities in the following portions of the Tariff Schedules of the United States: Schedule 5 (Nonmetallic minerals and products), except part 1(J(pt.)) and schedule 6 (Metals and metal products), pts. 1, 2, and 3.

Table 17.--Minerals and metals: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1980, 1981, and 1982

ts of domestic merchandise:  2, 2, 8, 8, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	4,659,483: 1,763,425: 5,186,264: 199,173: 264,318: 122,179: 306,138: 297,502: 1,730,686: 1,730,686: 1,730,686: 1,730,686: 1,730,686: 1,730,686: 1,730,686: 1,730,686: 1,730,686: 1,730,686: 1,730,686: 1,730,686: 1,730,686: 1,730,686: 1,730,686: 1,730,686: 1,730,686: 1,730,686: 1,730,730: 19,953,230: 256,087: 256,087: 256,087: 369,738:	3,333,352 1,550,247 3,088,701 183,844 196,332 119,730 373,457 929,187 22,900,637 149,407 149,407 149,407 149,407 5,742,995
handlse:	4,659,483: 1,763,425: 5,186,264: 199,173: 264,318: 122,179: 306,138: 2,001,696: 1,730,686: 1,730,686: 1,730,686: 1,730,686: 1,730,686: 1,730,686: 1,730,686: 1,730,686: 1,730,686: 1,730,686: 1,730,686: 1,730,686: 1,730,686: 1,730,686: 1,730,686: 1,730,686: 1,730,686: 1,730,730: 19,953,230: 256,097: 7,026,007: 7,026,364: 661,533: 256,087: 369,738:	3,333,35; 1,550,24 1,550,24 18,384,73 119,73 119,73 119,40 1,698,10 14,759,96 5,742,99 5,808,85
4,664 2,88 3,07 3,07 3,07 3,07 3,07 3,07 3,07 3,07	4,659,483: 1,763,425: 5,186,264: 126,318: 122,179: 306,138: 2,001,696: 1,730,686: 1,730,686: 1,730,686: 1,730,686: 1,730,686: 1,730,686: 1,730,686: 1,730,686: 1,730,686: 1,730,686: 1,730,686: 1,730,686: 1,730,686: 1,730,686: 1,730,686: 1,730,686: 1,730,686: 1,7684,361: 6,026,007: 7,026,364: 661,533: 256,087: 369,738:	3,333,352 1,550,247 3,088,701 198,844 119,730 119,730 373,457 929,187 236,951 149,407 45,624 14,759,960 5,808,850 6,446,952
2,037 3,077 3,077 3,077 3,077 4,405 11,574 11,5	1,763,425 : 5,186,264 : 126,318 : 122,179 : 306,138 : 2,001,696 : 1,730,686 : 1,730,686 : 1,730,686 : 1,730,686 : 1,730,686 : 1,74,112 : 3,280,249 : 19,953,230 : 7,684,361 : 6,026,007 : 7,026,364 : 661,533 : 256,087 : 369,738 :	1,550,247 3,088,701 198,332 119,730 119,730 373,457 929,187 236,951 16,69,108 14,759,960 5,808,850 6,446,952
8,077 933 936 940 940 940 940 940 940 951 951 951 951 951 951 951 951	5,186,264: 199,173: 264,318: 1264,318: 2,001,696: 297,502: 1,730,686: 142,112: 39,346: 3,280,249: 19,953,230: 7,684,361: 6,026,007: 7,026,364: 661,533: 256,087: 369,738:	3,088,701 183,844 196,332 119,737 373,457 929,187 236,951 149,407 45,624 14,759,960 5,742,995 6,446,952
333 340 440 440 5,020 600 600 600 600 600 600 600	199,173: 264,318: 122,179: 306,138: 2,001,696: 297,502: 1,730,686: 142,112: 3,280,249: 19,953,230: 7,684,361: 6,026,007: 7,684,361: 6,026,007: 7,026,364: 61,533: 256,087: 369,738:	183,84, 196,33, 196,33, 196,33, 196,33, 196,33, 197,40,40,40,40,40,40,40,40,40,40,40,40,40,
370 440 418 418 418 418 418 418 418 418 418 418	264,318: 122,179: 306,138: 2,001,696: 297,502: 1,730,686: 142,112: 3,280,249: 19,953,230: 7,684,361: 6,026,007: 7,026,364: 661,533: 256,087: 369,738:	196,33; 119,733 373,485 929,185 1,698,101 149,40 14
191 440 440 11574 1	122,179: 306,138: 2,001,696: 297,502: 1,730,686: 142,112: 39,346: 3,280,249: 19,953,230: 7,684,361: 6,026,007: 7,026,364: 661,533: 256,087: 369,738:	119,73 373,45 929,18 226,95 1,698,10 1,98,10 45,62 14,759,96 5,742,99 5,808,85
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1,574 1,574 1,574 1,504 1,05 1,145 1	297,502: 1,730,686: 142,112: 3,280,249: 19,953,230: 7,684,361: 6,026,007: 7,026,364: 661,533: 256,087: 369,738:	236,95 1,698,10 149,40 149,40 2,900,63 14,759,96 5,742,99 5,808,85 6,44,95
1,574 206 206 115 206 115 206 115 208 215 208 215 208 217 223 223 223 223 223 223 223 223 223 22	1,730,686 : 142,112 : 39,346 : 3,280,249 : 19,953,230 : 7,684,361 : 6,026,007 : 7,026,364 : 661,533 : 256,087 : 369,738 : 993,559 : 661,559 : 661,533 : 661,	1,698,10 149,40 2,900,65 14,759,96 5,742,99 5,808,85 6,46,93
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4,405 25,089 1,283 1	3,280,249: 19,953,230: 7,684,361: 6,026,007: 7,026,364: 661,533: 256,087: 369,738:	2,900,63 14,759,96 5,742,99 5,808,85 6,446,95
25,089  1,283  1,283  1,483  1,413  1,283  1,413  1	19,953,230 : 7,684,361 : 6,026,007 : 7,026,364 : 661,533 : 256,087 : 369,738 :	14,759,96 5,742,99 5,808,85 6,446,95
7,283 5,145 5,145 5,145 5,668 471 223 312 312 312 312 312 313 313 314 315 316 316 316 317 317 318	7,684,361 : 6,026,007 : 7,026,364 : 661,533 : 256,087 : 369,738 :	5,742,99 5,808,85 6,446,95
7,283 5,145 5,145 5,146 8,145	7,684,361 : 6,026,007 : 7,026,364 : 661,533 : 256,087 : 369,738 :	5,742,99 5,808,85 6,446,95
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669	903,559	405 405 405 405
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	1/6'111'1	1,131,594
	: 91/106/	788,333
	. 604,804	2/5,/24
	: 8/</td <td>340,442</td>	340,442
143,236 :	179,403 :	178,645
	8,530,232 :	6,704,122
100411111111111111111111111111111111111	34,386,404 :	29,246,111
	••	
	-3,024,878 :	-2,409,642
Japan	-4,262,581 :	-4,258,603
	-1,840,099	-3,358,250
	-462,359 :	-383,846
;	8,231:	-41,157
	-247,558 :	-264,774
	-597,421 :	-444,420
	889,725	-202,406
	-459,213 :	~551,581
	1,245,827 :	1,422,384
	-432,863 :	-191,034
	-140,057 :	-133,020
	-5,249,982 :	-3,803,484
Total	-14,433,174 :	-14,486,816



U.S. exports
U.S. Imports
U.S. trade balance

Source

Compiled from official statistics of the U.S. Department of Commerces

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While many commodities in the metals group showed a negative balance of trade with Canada, imports decreased in almost all commodity areas. There was a trade surplus in glass and glass products (\$150.9 million), handtools, cutlery, forks, and spoons (\$144.8 million), ceramic products (\$83.8 million), and metallic containers (\$39.2 million).

<u>Japan</u>.--The U.S. trade deficit with Japan in the minerals and metals sector for 1982 amounted to \$4.3 billion, the same as the deficit in 1981.

Data on imports from Japan for 1982 showed a 3-percent decrease to \$5.8 billion from \$6 billion in 1981. U.S. exports to Japan decreased 11 percent from \$1.8 billion in 1981 to \$1.6 billion in 1982.

The large U.S. trade deficit with Japan in the minerals and metals sector was primarily the result of substantial steel mill product imports to the United States relative to U.S. exports of steel mill products to Japan. The deficit in these products for 1982 totaled \$3.4 billion, accounting for 79 percent of the deficit in the entire sector. Also contributing to this sector's 1982 negative trade balance were deficits totaling \$525 million in ceramic table, kitchenware, and ornamental articles, and bolts, nuts, and screws.

While many commodities in this sector showed a negative balance of trade with Japan in 1982, some key exceptions include a trade surplus in unwrought aluminum (\$498 million), copper ore, copper-bearing materials, and waste and scrap (\$184 million), iron and steel scrap (\$145 million), precious metals (\$72 million), kaolin (\$53 million), and cut natural and synthetic gemstones (\$44 million).

EC.—The U.S. trade deficit with the European Community (EC) amounted to \$3.4 million, or 89 percent greater than the deficit of \$1.8 billion in 1981.

Data on imports from the EC for 1982 showed a 9-percent decrease to \$6.4 billion from \$7.0 billion in 1981. U.S. exports to the EC decreased 40 percent from \$5.2 billion in 1981 to \$3.1 billion in 1982 due largely to a decline in exports of gold bullion from \$1.8 billion in 1981 to \$117 million in 1982 as gold prices fell dramatically.

The large U.S. trade deficit with the EC in the minerals and metals sector was primarily the result of substantial imports of iron and steel mill products relative to U.S. exports of these products to the EC. The deficit in this product grouping for 1982 totaled \$2.8 billion, accounting for 82 percent of the deficit in the entire sector. Another sector contributing to the trade deficit in 1982 was nonmetallic minerals and products, except ceramic products and glass and glass products (a trade deficit of \$580 million).

While most commodities in the metals group showed a negative balance of trade with the EC in 1982, some key exceptions included a trade surplus in miscellaneous base metals and ores (\$324 million) and precious metals (\$166 million).

<u>Brazil</u>.—The U.S. trade deficit with Brazil in the minerals and metals sector for 1982 amounted to \$384 million, or 17 percent less than the deficit of \$462 million in 1981.

Data on imports from Brazil for 1982 showed a 14-percent decrease to \$568 million from \$662 million in 1981. U.S. exports to Brazil decreased 8 percent from \$199 million in 1981 to \$184 million in 1982.

The U.S. trade deficit with Brazil in the minerals and metals sector was primarily the result of substantial imports of iron and steel mill products and ferroalloys relative to U.S. exports of these products to Brazil. The deficit in this product grouping for 1982 totaled \$270 million.

While most commodities in the metals group showed a negative balance of trade with Brazil in 1982, some key exceptions included a trade surplus in glass and glass products (\$20 million), nickel ore and metal (\$4 million), and miscellaneous metal products (\$44 million).

Hong Kong.—The U.S. trade deficit with Hong Kong in the minerals and metals sector for 1982 amounted to \$41.2 million, compared with a trade surplus of \$8.2 million in 1981.

Data on imports from Hong Kong for 1982 showed a 7-percent decrease to \$237.5 million from \$256.1 million in 1981. U.S. exports to Hong Kong decreased 26 percent from \$264.3 million in 1981 to \$196.3 million in 1982.

The U.S. trade deficit with Hong Kong in the minerals and metals sector was primarily the result of substantial certain cut natural gemstones product imports relative to U.S. exports of certain cut gemstones products to Hong Kong. The deficit in these products for 1982 totaled \$44.5 million. Also contributing to this sector's 1982 negative trade balance were deficits totaling \$25.1 million in pottery, mirrors of glass, and gold bullion products.

While many commodities in the minerals group showed a negative balance of trade with Hong Kong in 1982, some key exceptions include a downward shift in flat glass and product imports (down \$5.4 million) and of trade surpluses in iron and steel mill products (\$6.1 million), copper ore and metal (\$2.4 million), and bauxite and aluminum (\$4.9 million).

<u>India</u>.—The U.S. trade deficit with India in the minerals and metals sector for 1982 amounted to \$265 million, or 7 percent greater than the deficit of \$248 million in 1981.

Data on imports from India for 1982 showed a 4-percent increase to \$385 million from \$370 million in 1981. U.S. exports to India decreased 2 percent in 1982 to \$120 million from \$122 million in 1981.

The U.S. trade deficit with India in the minerals and metals sector was primarily the result of substantial imports of cut gemstones and articles thereof relative to U.S. exports of cut gemstones and articles thereof to India. The deficit in this product grouping for 1982 totaled \$298 million. Also contributing to this sector's 1982 negative trade balance was a deficit totaling \$48 million in miscellaneous metal products.

While many commodities in the minerals and metals group showed a negative balance of trade with India in 1982, some exceptions included a trade surplus in iron and steel mill products and waste and scrap (\$52 million) and copper ore and metal (\$19 million).

<u>Korea.</u>—The U.S. trade deficit with Korea in the minerals and metals sector for 1982 amounted to \$444 million, representing a 25.6-percent decrease from the deficit of \$597 million in 1981.

Data on imports from Korea for 1982 showed a 9.5-percent decrease to \$818 million from \$904 million in 1981. U.S. exports to Korea increased 22 percent from \$306 million in 1981 to \$373 million in 1982.

The U.S. trade deficit with Korea was primarily the result of substantial steel mill product imports to the United States relative to U.S. exports of steel mill products to Korea. The deficit in these products for 1982 totaled \$417 million, representing a decrease of 20.2 percent from the 1981 deficit, and was equivalent to 94 percent of the 1982 deficit in the entire sector. Other commodities with a negative trade balance in 1982 included ceramic tile, ceramic table, kitchenware, art, and ornamental articles, precious metals, wire and wire products, fasteners, handtools, table flatware, and nonelectric heating and cooking apparatus.

Commodities which showed a favorable U.S. balance of trade with Korea in 1982 included industrial diamonds (\$5.1 million), refractories (\$6.5 million), copper (\$39.5 million), aluminum (\$8.8 million), nickel (\$6.4 million), and wrought titanium (\$6.2 million).

Mexico.—The U.S. trade deficit with Mexico in the minerals and metals sector for 1982 amounted to \$202.4 million, as contrasted to a trade surplus of \$889.7 million in 1981.

Imports from Mexico in this sector totaled \$1.1 billion in 1981 and 1982. U.S. exports to Mexico decreased 54 percent from \$2.0 billion in 1981 to \$929 million in 1982.

The U.S. trade deficit with Mexico in the minerals and metals sector was primarily the result of decreased exports resulting from the peso devaluation. Also contributing to the negative trade balance with Mexico were deficits in the trade of gold and silver bullion, totaling \$271.7 million in 1982.

Many commodities in the minerals and metals group showed a negative balance of trade with Mexico in 1982, such as fluorspar (\$24 million) and unwrought zinc (\$17 million). The statistics also showed a positive trade balance in items such as iron and steel mill products (\$194 million), unwrought aluminum other than foil (\$79 million), and copper, wrought other than foil (\$30 million).

<u>Taiwan</u>.—The U.S. trade deficit with Taiwan in the minerals and metals sector for 1982 amounted to \$552 million, or 20 percent greater than the deficit of \$459 million in 1981.

Data on imports from Taiwan for 1982 showed a 4-percent increase to \$789 million from \$757 million in 1981. U.S. exports to Taiwan decreased 20 percent from \$298 million in 1981 to \$237 million in 1982.

The U.S. trade deficit with Taiwan in the minerals and metals sector was partially the result of substantial imports of table, kitchen, household, art and ornamental pottery and glass and glass products relative to U.S. exports of these products to Taiwan. The deficit in these products for 1982 totaled \$129 million accounting for 23 percent of the deficit in the entire sector. Also contributing to this sector's 1982 negative trade balance were deficits totaling about \$26 million in iron and steel pipe and tubing.

Although many commodities in the metals group showed a negative balance of trade with Taiwan in 1982, some key exceptions include a significant trade surplus in iron and steel waste and scrap (\$57 million), sheets and strip of iron or steel (\$10 million), and steel mill products of stainless steel (\$8 million).

OPEC.—The U.S. trade surplus with OPEC in the minerals and metals sector expanded to \$1.4 billion in 1982, an increase of 17 percent from the \$1.2 billion surplus in 1981.

Data on imports from OPEC showed a 43-percent decline to \$276 million in 1982 from \$485 million in 1981. U.S. exports to OPEC decreased by 2 percent during this period, but remained at about \$1.7 billion.

Iron ore (\$61 million), tin (\$77 million), and certain nonmetallic minerals and products (\$102 million—principally asphaltum, bitumen, and limestone—rock asphalt), composed the bulk of U.S. imports from OPEC in the minerals and metals sector in 1982. The low level of U.S. steel production, weakness of the U.S. construction market, and overall softness of the U.S. economy reduced U.S. demand for many such raw materials in 1982. Imports of iron ore (down \$80 million), tin (down \$30 million), and aluminum (down \$59 million) accounted for the bulk of the import decline during 1981-82. Imports of certain nonmetallic minerals and products increased during this period (up \$19 million), but this growth basically represented a sourcing change to lower priced asphaltum, bitumen, and limestone—rock asphalt from OPEC.

The U.S. surplus with OPEC in the minerals and metals sector in 1982 was primarily the result of substantial exports of structures of base metal (\$269 million), pipe and tubing (\$266 million), handtools (\$122 million), pipe fittings (\$100 million), and iron and steel mill products other than pipe and tubing (\$91 million) relative to U.S. imports from OPEC. The surplus in these products for 1982 totaled \$838 million, accounting for 59 percent of the surplus in the entire sector. The worldwide surplus of petroleum in 1982 placed downward pressure on OPEC revenues and is believed responsible for the decline in U.S. exports. The overall decline was significantly minimized by the export growth of pipe and tubing (up \$100 million) and pipe fittings (up \$21 million). This growth is believed to have represented purchases for inventory; petroleum demand did not appear to justify such an increase, but such supplies may well have been depleted in 1981, when there was intense demand for oil country tubular goods in the United States.

<u>NME's.</u>—The U.S. trade deficit with nonmarket economy countries (NME's) in the minerals and metals sector amounted to \$191 million in 1982, down from \$433 million in 1981, a decline of 56 percent.

The value of U.S. imports from NME's declined significantly, from \$575 million in 1981 to \$340 million in 1982, a 41-percent decline. The value of U.S. exports increased slightly (5 percent) from \$142 million in 1981 to \$149 million in 1982.

U.S. imports of steel plates exhibited the greatest decline in 1982, falling from \$124 million in 1981 to \$6 million in 1982. Other areas of import decline include unwrought nickel (from \$38 million in 1981 to \$12 million in 1982), steel pipe and tubing (from \$51 million in 1981 to \$27 million in 1982), and gold bullion (from \$21 million in 1981 to \$1 million in 1982). These declines greatly contributed to the reduction of the trade deficit with the NME's. In addition, the United States continued a large trade deficit with the NME's in glass table, kitchen, art, and novelty items, the platinum group metals, vitreous china food utensils, steel nails and staples, unwrought tin, and tungsten ore, a deficit which totaled \$166 million in 1981 and \$144 million in 1982.

Increased U.S. exports of unwrought, unalloyed copper and copper ore eased the trade deficit. Unwrought, unalloyed copper rose from zero in 1981 to \$22 million in 1982; copper ore rose from \$25 million in 1981 to \$34 million in 1982. In addition, the United States maintained a trade surplus with the NME's in calcined petroleum coke of \$33 million in 1981 and \$34 million in 1982.

The U.S. trade deficit with China in the minerals and metals sector in 1982 totaled \$133.0 million, 5 percent less than the deficit of \$140.1 million in 1981. The 1982 deficit resulted from \$178.6 million of imports (a 0.4-percent decrease from the 1981 level) and \$45.6 million of exports (an increase of 16 percent over the 1981 level).

The U.S. trade deficit with China in the minerals and metals sector in 1982 was primarily the result of significant deficits totaling \$79.0 million (59 percent of the deficit in the entire sector) in tin ore and metal, vitreous china food utensils, and metal fasteners. The growing trade deficits in these areas stemmed from significant increases in imports of tin ore and metal (up 60 percent), vitreous china food utensils (up 30 percent), and metal fasteners (up 17 percent). Together, imports of these products totaled \$79.2 million in 1982 and accounted for 44 percent of total imports from China in the minerals and metals sector. There were notable decreases in imports of titanium ore and metal, which fell 95 percent during the period to \$654,000 in 1982, and tungsten ore and metal which dropped 59 percent to \$8.7 million in 1982.

Although many commodities in the minerals and metals group showed an increasing trade deficit with China in 1982, as compared with 1981, there were some exceptions to this trend. There was an increasing trade surplus in copper ore and metal (totaling \$22.2 million) due primarily to a \$21.8 million increase in exports of unwrought copper in 1981-82. Exports of carbon steel pipe and tubing believed to be destined for use in oil and gas pipelines in China rose 7,744 percent during the period to \$9.4 million in 1982. This contributed to a 34-percent decline in the trade deficit in iron and steel mill products which amounted to \$13.0 million in 1982.

## Commodity analyses

Iron and steel mill products, all grades.—Imports of steel mill products totaled 16.7 million short tons (\$9.0 billion) in 1982, a 16-percent decrease from the 1981 level of 19.9 million tons (\$10.3 billion). The decreases occurred primarily in the product lines of pipe and tubing, plate, structural shapes and hot-rolled sheet and strip.  $\underline{1}/$ 

As in 1981, pipe and tube products accounted for the single largest category of steel imports. Following a sharp rise in 1981, imports in this product category fell 21 percent in 1982, to 5.2 million tons (\$4.2 billion), as compared with 6.6 million tons (\$4.6 billion) in 1981. The decline reflected a weakening in the market for oil country goods which had been one of the few strong markets for steel in the United States in 1981. The primary countries of origin for pipe and tube imports in 1982 were Japan (45 percent of the pipe and tube total), West Germany (11 percent) and the Republic of Korea (11 percent).

Other declines in imports occurred in steel plates (down 0.7 million tons, or 37 percent), structural shapes (down 0.5 million tons, or 25 percent) and hot-rolled sheets and strip (down 0.4 million tons, or 18 percent).

With respect to the source of U.S. imports, Japan maintained its predominant share in 1982, accounting for 5.2 million tons of total steel imports (down from 6.2 million tons in 1981). West Germany, at 2.1 million tons, was the second largest source, overtaking Canada, from which imports fell 1.1 million tons to 1.8 million tons in 1982.

Peter Avery **523**-0342

<u>Iron ore</u>.—In 1982, U.S. imports of iron ore decreased 46 percent to 15 million tons (\$497 million), compared with 28 million tons (\$948 million) during 1981. Industry sources attribute the decrease to declining demand from the iron and steel industry which uses iron ore in blast furnaces to manufacture pig iron. The largest decreases during 1982 were from Canada (to

1/ In 1982, the Commission instituted 48 preliminary antidumping investigations (AD) and 93 countervailing duty (CVD) investigations on iron and steel mill products, largely related to imports from European Community countries and from other countries including Spain, Republic of Korea, Brazil, and Japan. The Commission has made an affirmative determination that there is a reasonable indication of injury to a domestic industry in 33 of the AD cases and 49 of the CVD cases. The Commission instituted 14 final antidumping investigations in August 1982 and was notified by petitioners in October 1982 that they wished to withdraw their petitions.

On October 21, 1982, the Arrangement Concerning Trade in Certain Steel Products between the European Coal and Steel Community and the United States (the Arrangement) became effective. Under the terms of the Arrangement, exports of certain steel products from the European Community to the United States are to be limited to a percentage of apparent U.S. consumption from November 1, 1982, through December 31, 1985.

9 million tons compared with 19 million tons in 1981) and Venezuela (to 2 million tons compared with 5 million tons in 1981).

Laszlo Boszormenyi 523-0328

Ferroalloys.—In 1982, U.S. imports of ferroalloys including ferrochromium, ferromanganese, and ferrosilicon decreased 42 percent to 1,120 million pounds (\$294 million), compared with 1,928 million pounds (\$577 million) in 1981. Industry sources attribute the decrease to declining domestic demand for these products from the steel industry and to the large inventories of imports. The largest decreases during 1982 were from South Africa, France, and Canada (for ferromanganese), South Africa, Zimbabwe and Yugoslavia (for ferrochromium), and Brazil, Norway, and Venezuela (for ferrosilicon).

Laszlo Boszormenyi 523-0328

Zinc.—Imports of zinc metal and waste and scrap decreased 26 percent to 514,704 short tons (\$383.8 million) in 1982 from 691,481 short tons (\$565.9 million) in 1981. Imports from Canada, the principal source, declined 23 percent in 1982 to 269,890 short tons (\$205.7 million). The decline in imports is attributed to a 16-percent decrease in domestic consumption in 1982. Consumption was down primarily as a result of reductions in automobile manufacture and residential and commercial construction.

Exports of zinc metal and waste and scrap decreased 42 percent to 24,319 short tons (\$20.3 million) in 1982 from 42,024 short tons (\$32.7 million) in 1981. Exports to Canada dropped 55 percent to 3,208 short tons (\$4.1 million) in 1982. Exports declined as a result of depressed market conditions and low prices. During 1982, two of the five primary metal producers in the United States temporarily shutdown operations.

Imports of zinc ore and concentrate decreased 71 percent to 82,651 short tons (\$30.3 million) in 1982 from 280,401 short tons (\$114.4 million) in 1981. Imports from Canada, the principal source, dropped 84 percent in 1982 to 33,601 short tons (\$12.1 million). The sharp decline in imports is a result of the reduced demand for zinc metal.

Exports of zinc ore and concentrate increased 28 percent in terms of quantity to 98,860 short tons (\$47.2 million) in 1982, from 77,144 short tons (\$45.0 million) in 1981. Ore and concentrate exports rose significantly, reflecting the availability of U.S. material following the closure of a large primary smelter in late 1981 and higher concentrate prices elsewhere, primarily in Europe. The United States moved from a position of being a net importer to a net exporter. Algeria, Romania, Yugoslavia, and East Germany emerged as new markets in 1982.

Tungsten.—Exports of unwrought tungsten decreased 34 percent in 1982 to 2.3 million pounds of contained tungsten (\$20.1 million), from 3.5 million pounds (\$36.7 million) in 1981. Over 62 percent of the decrease was attributed to the decline in exports to Israel. During 1980 and 1981, exports to Israel were at high levels due to the buildup of its defense industry. The remaining downturn in exports was attributed to declining demand for metal working, construction, and mining machinery and equipment in major U.S. export markets.

Imports of tungsten ore and tungsten-bearing material decreased 34 percent in 1982 to 7.8 million pounds (\$46.8 million) from 11.8 million pounds (\$91.3 million) in 1981. The major sources of tungsten ore and tungsten-bearing materials are Canada, Bolivia, and China. Imports have decreased as domestic demand has also fallen off in the end-use markets. Further, China is beginning to export more highly processed materials such as tungsten metal powders rather than ores as the country expands its range of production.

Therese Palmer 523-0270

<u>Lead</u>.—Imports of lead metal and waste and scrap decreased to 112,532 short tons (\$65.0 million) in 1982, from 116,622 short tons (\$93.4 million) in 1981. The 30-percent decrease in value was due to lower prices resulting from lower worldwide demand in transportation industry markets.

Exports of lead metal and waste and scrap increased 31 percent to 118,810 short tons (\$68.8 million) in 1982 from 90,934 short tons (\$48.4 million) in 1981. The average U.S. producer price dropped to 25.5 cents per pound in 1982 from 36.6 cents per pound in 1981. At the same time, the average London Metal Exchange (LME) price dropped to 24.7 cents per pound in 1982 from 33.3 cents per pound in 1981. The decreasing prices have resulted in a narrowed price differential between the U.S. producer price and the LME price; the U.S. producer price is normally 2 to 3 cents higher. This narrowed differential has given domestic lead a competitive boost in foreign markets and resulted in increased exports to LME warehouses in the Netherlands and Belgium. In 1982 the United States was a net exporter of lead.

Therese Palmer 523-0270

Precious metals.—Imports of precious metals were valued at \$3.4 billion in 1982, representing a decrease of \$632 million (16 percent) from the \$4.0 billion imported during 1981. The bulk of the reduction in imports was attributable to platinum group metals and gold bullion from South Africa, gold bullion from Canada, and silver bullion from Peru. As the prices of precious metals (particularly gold and silver) declined to about their 1979 levels, trade in these metals contracted. In June 1982, one of two principal platinum group metal producers in South Africa announced a 28-percent cutback in production. In addition, the Reserve Bank of South Africa initiated gold swaps to increase the foreign exchange available to finance their increasing deficit resulting from the loss of revenue as gold prices declined (thereby

diverting bullion otherwise available for trade). Peru imposed an embargo on silver shipments which lasted 2 to 3 months during the early part of 1982 because of lower than profitable silver prices.

Exports of gold bullion in 1982 decreased by \$1.9 billion (76 percent) to \$591 million. The bulk of the reduction in exports was to the United Kingdom, an international trading center for gold bullion speculators and investors. Depressed gold prices, which discouraged investment interest, a 4-month labor strike at the largest U.S. gold mine and economic problems, which severely curtailed domestic copper production, reduced the flow of new gold from those sources. In addition, the contribution of old gold scrap to the refining industry in 1982 declined, thereby reducing the amount of gold bullion available for trade.

Pamela Woods 523-0277

Copper.—Imports of copper ore, materials, and waste and scrap increased by \$74 million (64 percent) in 1982 to \$190 million. The bulk of the increase in imports was attributable to copper ore and concentrate from Mexico, Canada, and Chile. As the price of copper continued to decline, U.S. mine production and profitability dropped. In 1982, about one-half of the larger mines were closed for periods of several months, and in a few instances, all year. Most of the remaining operating mines curtailed production. As a result, the operating smelters and refiners imported lower priced materials to feed their plants and operate more profitably.

Imports of unwrought copper declined by \$101 million (16 percent) in 1982 to \$543 million. Correspondingly, imports of wrought copper declined by \$112 million (22 percent) in 1982 to \$395 million. The bulk of the reduction in imports was from Peru and Zambia for unwrought copper and West Germany, Canada, and France for wrought copper. During 1982, several smelters closed, refineries operated at reduced rates, and domestic consumption dropped to its lowest level in 7 years. Therefore, the import decline reflected reduced metal demand.

Exports of copper ore and metal declined by \$83 million (10 percent) in 1982 to \$720 million from \$803 million in 1981. The bulk of the reduction in exports was of unwrought and wrought copper to Mexico. This reversal of an unusual trade shift which occurred in 1981 was caused by the production problems stated previously.

Pamela Woods 523-0277

Aluminum.—Imports of bauxite and aluminum metals in 1982 declined by \$75 million (4 percent) to \$1.7 billion. The bulk of the reduction in imports was attributable to bauxite from Surinam and unwrought aluminum from Canada and was caused by weak markets and prices. During 1982, domestic alumina plants (consumers of imported bauxite) were operating at approximately 52 percent of 130 annual capacity while the domestic primary aluminum industry operated at 58 percent of capacity. Thus, less imported material was required for operations.

In contrast, imports of wrought aluminum (excluding foil) rose by \$108 million (34 percent) to \$423 million in 1982 from \$315 million during 1981. The bulk of this increase reflected high demand in the container and packaging industry with the primary import source being Japan.

Exports of bauxite and aluminum metals declined by \$342 million (23 percent) in 1982 to \$1.2 billion from \$1.5 billion in 1981. The bulk of the reduction in exports was of unwrought aluminum to Japan and Mexico and wrought aluminum to Canada and Mexico. This reflected the poor economic conditions and production curtailments mentioned above.

**Pamela Woods 523-0277** 

Nickel.—Imports of nickel ore and metal declined by \$466 million (39 percent) in 1982 to \$687 million from \$1.2 billion during 1981. The bulk of the reduction in imports was attributable to ore from Australia, matte from Botswana, and unwrought nickel from Canada. In 1982, primary nickel consumption declined 17 percent, as depressed market conditions prevailed for the third consecutive year. As a result, producers worldwide further cut production to meet reduced demand levels, resulting in less nickel available for trade.

Pamela Woods 523-0277

Cobalt.—Imports of cobalt ore and metal in 1982 decreased by \$101 million (42 percent) to \$137 million from \$239 million during 1981. The bulk of the reduction in imports was attributable to unwrought, unalloyed, and waste and scrap cobalt from Zaire, Canada, Zambia, Finland, Norway, Japan, and Belgium. Domestic demand for cobalt fell sharply in 1982 as domestic consumption decreased in superalloy, cutting and wear-resistant materials, and catalysts, resulting in greatly diminished imports.

Pamela Woods **523**-0277

Molybdenum.—Exports of molybdenum ore and metal declined by \$182 million (42 percent) in 1982 to \$251 million from \$433 million in 1981. The bulk of the reduction in exports was of molybdenum ore to the Netherlands, Japan, Belgium, and Austria. U.S. mine output of molybdenum decreased sharply in 1982, with mine capacity utilization estimated at 45 percent during 1982. The molybdenum export market reflected oversupply and falling prices.

Pamela Woods **523**-0277

Ceramic floor and wall tiles.—Imports of ceramic floor and wall tiles decreased 11 percent to 226 million square feet (\$145 million) in 1982, compared with 255 million square feet (\$188 million) during 1981. Imports

from Italy, Japan, Mexico, and the Republic of Korea accounted for over 90 percent of the import decline, as combined imports for those four countries decreased by 27 million square feet (\$43 million) to 179 million square feet (\$117 million) in 1982. The continued weakness of the U.S. construction market and the imposition of countervailing duties of 15.84 percent on nonmosaic imports from Mexico (effective May 7, 1982) are believed largely responsible for the import decline in 1982.

James J. Lukes 523-0279

Bentonite.—Exports of bentonite (a clay used primarily by the oil and gas industry in drilling mud, and by the iron and steel industry in the pelletization of iron ore and in foundry sand) decreased 23 percent during 1981-82 to 668,000 short tons (\$54.7 million) in 1982, compared with 862,000 short tons (\$64.5 million) in 1981. Shipments to Canada, the Netherlands, Saudi Arabia, and Singapore almost totally accounted for the decline, as combined exports to those four countries decreased by 193,000 short tons (\$8.9 million) during 1981-82 to 354,000 short tons (\$22 million) in 1982. Depressed world market activity in oil and gas drilling and iron and steel production are believed responsible for the downward trend of bentonite exports.

James J. Lukes 523-0279

Unprocessed flat glass.—Imports of unprocessed flat glass, including float, plate, sheet, rolled, and wire glass, rose 11 percent in 1982 compared with 1981, while exports dropped 19 percent during the same period. Imports of unprocessed flat glass rose to 98.7 million square feet (\$40.1 million) in 1982 from 89.2 million square feet (\$42.7 million) in 1981, reversing a downward trend in import quantity which had occurred since 1978. The renewed strength of the U.S. dollar against various other currencies has made imports less expensive, hence more attractive. Romania, the Federal Republic of Germany, Belgium, and Canada were the major suppliers of imports in 1982 and together accounted for 57 percent of total import quantity. Exports of unprocessed flat glass, which were adversely affected in 1982 by a sluggish world economy, reduced construction activity, and a strong U.S. dollar, dropped to 213.7 million square feet (\$133.9 million) in 1982 from 264.2

million square feet (\$166.2 million) in 1981. Shipments to Canada accounted for 49 percent of the total quantity exported. 1/

Nancy Fulcher 523-0290

Certain industrial fasteners.—U.S. exports of certain industrial fasteners (bolts, nuts, and screws) totaled 157 million pounds (\$154 million) in 1982, compared with exports totaling 160 million pounds (\$179 million) in 1981. Although industrial fasteners were exported to more than 20 countries during 1982, shipments to Canada accounted for 57 percent of the total quantity exported. The decline in exports during 1981-82 was primarily attributable to a downturn in the Canadian economy during that period and its effects on the automotive industry and other major consumers of industrial fasteners.

U.S. imports of industrial fasteners declined from 895 million pounds (\$486 million) during 1981 to 842 million pounds (\$462 million) during 1982. Based on quantity, imports from Japan accounted for 55 percent of total imports while Canada and Japan, together, accounted for 32 percent of total imports. The decline in imports is basically a reflection of a slump in demand for industrial fasteners that resulted from a decline in the domestic economic activity.

James Brandon 523-5437

<sup>1/</sup> On October 8, 1982 the Commission instituted two investigations under section 104(b) of the Trade Agreements Act of 1979 as to the likely effects on the U.S. industry of the revocation of existing countervailing duty orders on unprocessed float glass from Belgium (Inv. No. 104-TAA-11) and Italy (Inv. No. 104-TAA-12). On January 27, 1983 the Commission unanimously determined that the U.S. industry producing unprocessed float glass would not be injured by reason of imports covered by the outstanding countervailing duty orders if the orders were to be revoked. As a result, the Department of Commerce has revoked the countervailing duty order concerning float glass from Belgium with respect to all merchandise entered, or withdrawn from warehouse, for consumption on or after February 20, 1981. The Commerce Department will also revoke the countervailing duty order against float glass from Italy pending publication of the notice of revocation in the Federal Register.

Table 18.--Annual data on U.S. imports and exports for selected commodity groups 1/2

	••	••		from
		(2)	(3)	(2) to (3) (4)
Nonmetalic minerals and products, except ceramic : products and glass and glass products : Hydraulic cement and cement clinker :	·· ·· ·· ·· ·			
imports:     Quantity (short tons)	,444:	3,997,035:	2,929,063: 110,886:	-27
nort tons)	36,311: 16,997:	302,662:	203,243: 27,455:	133
Imports: Quantity (number)	1,913:	1,209:	1,212:	20
.000 dollars)	21,587: 37,983:	887,110:68,207:	299,171:	-66 -34
mports: Quantity (short tons)	80,416: 19,176:	504,339: 21,563:	348,376:	-31
(short tons)	41,795: 3,990:	28,364:	22,477:	-21
Imports: : : : : : : : : : : : : : : : : : :	38,962:	42, 132:	65,458:	55
(1,000 dollars)	18,842:	24,379:	18,918:	-22
oorts: Quantity (long tons)	83,233: 1,449:	301,265: 1,465:	245,633:	31
(long tons)	8,871: 0,659:	2, 139,853: 36,736:	1,737,838: 34,396:	- 19
: (1,000 dollars)	7,413:	7,221:	4,739:	-34
Exports: (1,000 dollars)	19,339:	23,527:	16,644:	-29

Table 18. -- Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	1982	.rercent :Change : from : (2) to : (3)
Dimension stone and articles thereof	• •• ••	• ••		
Value (1,000 dollars)	90,055:	133,690:	170,581:	28
Exports: Value (1,000 dollars)	17,068:	20,853:	18,826:	- 10
	7,862:	7,548:	6,497	- 14
Exports: Value (1,000 dollars)	11,364:	10,438:	8,630:	-17
Imports: Value (1,000 dollars)	119, 121:	157,355:	123,279:	-22
Exports: Value (1,000 dollars)	595,616:	715,006:	542,652:	-24
Imports: Value (1,000 dollars)	124,292:	139, 161:	92,736:	-33
Exports: Value (1,000 dollars)	96,938:	103,038:	86,514:	- 16
Imports: Quantity (long tons)	22,214: 97,360:	24,574:	27,479:	12
Abrasive articles  (action dollars)	54,112: 36,796:	54,134:33,625:	47,432:32,016:	112
Imports: Value (1,000 dollars)	60,643;	71,175:	69, 191:	E.
Exports: Value (1,000 dollars)Industrial diamonds	73,534:	77,730:	67,194:	- 14
Auantity (carats)	21,858,278:	20,406,686:	19, 131,731:	-22
Quantity (carats)	28,463,604: 74,436:	28,337,201: 69,496:	30,002,184: 67,491:	-3

Table 18. -- Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	1982 : (	:Porcent :Change : from
		: : : : : : : : : : : : : : : : : : : :		(2) to
	•			
Natural gemstones	••	••	•• ••	
Value (1,000 dollars)	1,014,389:	420,791:	295,508:	-30
Value (1,000 dollars)	10,966:	16,109:	19,928:	24
Value (1,000 dollars)	1,597,005	2, 193,713:	1,951,976	-
Value (1,000 dollars): Synthetic gemstones	674,208:	483,671:	322,535:	-34
Imports: Value (1,000 dollars)	20,991:	23,607:	24,134:	8
Exports: Value (1,000 dollars)	10,325	13,350:	11,349:	- 15
Clays, china clay or kaolin and ball clay		• • • • • •		
Quantity (1,000 short tens)	25:	20:	14:	-30 -31
Exports: Quantity (1,000 short tons)	1,602:	1,624:	1,440:	11-
Imports: Quantity (1,000 short tons)	17:		7 8	-81
Exports: Quantity (1,000 short tons)	114: 9,225:	111: 10,459:	92: 8,619:	1 1 8 1
Imports: Quantity (1,000 short tons)	17 : 42 :	17 : 43:	1	96
Clays, artificially activated and certain other:	897:	861:	667: 54,711:	-23
Imports: Quantity (1,000 short tons)	3,117:	12:	3,287:	122
Cuentity (1,000 short tons)	646:	603:	458:	124

Table 18. -- Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	1982	:rercent :Change : from : /2) _2
• • • • • •	· E	(2)	(3)	(5) (3) (4)
Nonmetallic minerals and products, n.e.c.			••••	
imports: Value (1,000 dollars)	322,255:	362,400:	347,688:	<b>5</b> -
Exports: Value (1,000 dollars)	315,048:	378,288:	364,065:	4-
Imports: Quantity (1,000 short tons)	899: 83,032:	826: 95,354:	543: 59,374:	-34 -38
	1,659:	1, 193:	1,083:	9-
Ceramic products Refractory and heat-insulating products	•• •• •	•••••		
Value (1,000 dollars)	61,165:	70,195:	60,704:	- 14
Exports: Value (1,000 dollars)	259,253:	271,948: :	195, 162	-28
Imports: Quantity (1,000 square feet)	255,411: 170,409:	254,659: 187,756:	225,780:	-11
Exports: Quantity (1,000 square feet) Value (1,000 dollars)	7,941: 7,319:	11,150: 13,339:	11,827: 14,639:	100
1,000 dollars)	15,306:	14,120:	12,458:	- 12
Exports: Value (1,000 dollars)	5,794:	6,802	4,898:	-28
Imports: Value (1,000 dollars)	4,483:	3,668;	4,204:	15
Value (1,000 dollars)	7,311:	11,971:	6,321:	-47
pottery Pottery Pottery products, n.e.c.		• • •		
Exporte: (1,000 dollars)	319,210:	336,200:	306,848:	6 -
Value (1,000 dollars)	6,979:	10,611:	10,873:	2

Table 18.--Annual data on U.S. imports and exports for selected commodity groups

Commod ty area	1980	1981	1982	:rercent :Change : from
	 E	(2)	(3)	(2) to (3) (4)
: : : : : : : : : : : : : : : : : : :				
:y (1,000 do	24,308: 178,445:	27,935: 201,738:	28,225: 192,605:	- 10
:y (1,000 do (1,000 do	734: 4,918:	610: 4,615:	. 589: 4,263:	n∞ II
(1,000 dozen) (1,000 dollar	13,565: 147,141:	16,067: 167,542:	17, 158:	<b>~</b> +
Exports: Quantity (1,000 dozen)	591: 12,312:	672: 13,325:	1,496:	122 20
rical w			, cn	
(1,00	79,562	92,326:	,87	. 2
Ceramic sanitary ware Imports: Value (1,000 dollars)	12,536:	14,397	10,929	-24
(1,000 dustrial c	26,808:	31,662:	27,130	- 14
articles, n.s.p.r. Imports: Value (1,000 dollars)	8,636:	12,279:	16,592	35
Exports: Value (1,000 dollars) Glass and glass products Elst alsternand and dicts thomas	26,924:	30,033:	29,060	M I
orts: 110 (1,000	196,316:	194, 155:	234,884	21
•• ഗദ	322,851:	345,720:	306,039	<u>-</u>
וות נו חו	120,691:	89,215: 42,735:	98,690	11
Cxports: Quantity (1,000 square feet)	306,549: 167,745:	264,241: 166,171:	213,739	- 19

Table 18. -- Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	1982	Percent Change from
	(1)	(2)	(3)	(2) to (3) (4)
Tempered glass	•• ••	••		
Imports: Quantity (1,000 square feet)	20,565: 39,072:	24,282:	28,896:	31
; ity (1,000 (1,000	37,344: 76,651:	51,027:	49,747:	no
glass (1.000	39,478:	26,525:	58, 139:	119
(1,000	39,648:	: 44,540:	43,469:	<b>~</b>
Mirrors of glass Imports: Value (1,000 dollars)	53,400:	53,380:	50,457:	<u>ဟ</u> 1
ts: ue (1,000 doll	20,666:	25, 394:	18,771:	-26
Glassware and other glass products Imports: Value (1,000 dollars)	405,665:	468,528:	477,775:	8
:s: (1,000	497,013:	551,569:	499,254:	6-
Fiber glass Imports: Value (1,000 dollars)	11,830:	16,730:	14,321:	-14
Expo Va	71,386:	89,944:	84,604:	9-
Ulass containers Imports: Value (1,000 dollars)	43,312:	66,093:	77,177	17
Exports: Value (1,000 dollars): Pressed and blown qlassware n.e.c.	41,807:	46,049:	45,573:	. <b>T</b>
ts: ue (1,00	304,330:	341,589:	346,335:	
Exports: Value (1,000 dollars): Procione motals	253,811:	276,904:	219,763:	-21
; ty (	87,202: 5,543,463:	102,132: 4,012,112:	125,932: 3,379,916:	23 - 16
Exports: Quantity (1,000 troy ounces)	89,041: 5,988,763:	36,236:	30,350:	116

Table 18. -- Annual data on U.S. imports and exports for selected commodity groups

Commodity area :	1980	1981	1982	Percent Change from
	(1)	(2)	(3)	(2) to (3) (4)
Precious metal ores, and other metal-bearing : materials, sweepings, and waste and scrap :	•• •• •• •			
Apports: Quantity (1,000 troy ounces)	14,778:	19,263:	21,570:	12
exports:     Quantity (1,000 troy ounces)	25,064: 1,443,573:	13,980: 722,667:	13,961: 602,084:	-17
Quantity (1,000 troy ounces)	3,385: 1,105,716:	2,614:	2,154: 511,904:	1318
Cyports: Quantity (1,000 troy ounces)	713: 316,574:	763:	766:	-38
Imports: Quantity (1,000 troy ounces)	4,090: 2,506,889:	4,164:	4,237: 1,650,718:	- 15
Caports: Quantity (1,000 troy ounces)	4,702:	5,237:	1,637:	-69 -76
Imports: Quantity Value	64,761:	75,921:	96,917:	28 1 - 6
Exports:  Quantity (1,000 tro Value (1,000 dol n and steel mill produ	57,205:	15,130:	12,875:	15
spreger (1,000 s (1,000 d	402: 63,212:	436: 68, 152:	321:	-26 -23
(1,000	72: 8,015:	16: 1,960:	54: 3,783:	234 93
Ferrochromium Imports: Quantity (1,000 pounds)	329,281: 146,660:	497,427: 219,200:	: 174,997: 80,816:	-65 -63
200	63,409: 22,233:	28,195: 10,361:	9,885:	-65

Table 18.--Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	1982 : CF	00 6
	 E	(2)	(3)	(2) to (3) (4)
Ferromanganese :	•• ••			-
Imports: Quantity (1,000 pounds)	; 1,045,285: 240,685:	: 1,209,035: 276,422:	838,895: 172,712:	-31 -38
Exports:	36,350: 11,125:	33,542: 13,690:	26,741:	-20
Imports: Quantity (1,000 pounds)	93,948: 42,526:	221,488: 81,118:	: 106,256: 40,342:	-52 -50
Adamtity (1,000 pounds)	54,982: 18,591:	31,510:	29,225: 11,745:	-3
Imports:   Quantity (1,000 short tons)	15,538: 6,932,233:	19,938: 10,285,870:	16,710: 8,985,036:	- 13
Quantity (1,000 short tons)	4,161: 2,556,303:	2,966:	1,891:	-36 -29
Copper ore, Copper ore				
Imports: Quantity (short tons, contained weight): Value (1,000 dollars)	90,949:	84,907: 115,670:	173,513:	104 64
Exports: Quantity (short tons, contained weight): Value (1,000 dollars)	335,617: 487,888:	334,121: 407,440:	379,166: 393,079:	13
imports: Quantity (short tons, contained weight): Value (1,000 dollars)	520,677: 1,026,974:	: 402,697: 644,092:	: 394,320: 542,653:	-2 -16
Exports:	23,751: 50,624:	41,708: 72,948:	41,406: 62,282:	-15
ort uan alu	: 110,934: 353,130:	: 184,919: 507,461:	: 160,915: 395,482:	-13
Value (1,000 dollars):	118,553: 393,068:	89,120: 322,802:	84,168: 264,583:	- 18 - 18

Table 18.--Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	1982	:Percent :Change
• •• ••	Ξ		(3)	(2) to (3) (4)
Bauxite and aluminum metals Bauxite	••••			
Imports: Quantity (1,000 short tons)	15,317: 380,537:	15,274: 392,557:	12,180	120
Aluminum, unwrought and waste and scrap	22: 4,766:	3,441:	20,753	-20
Quantity (short tons)	642,737:	795,472:	755,537	11.5
Quantity (short tons)	1,158,882:	584,760: 762,849:	615,038	- 17
Quantity (short tons)	79,408:	145,228:	218,050 422,704	34
Quantity (short tens)	338,059: 808,120:	282,762: 697,739:	205,865	-27
Quantity (short tons)	4,549: 27,218:	6,713:	9,655	444
Cxports: Quantity (short tons)	43,209: 76,929:	35,986: 47,324:	18,270	149
<u>₹</u>	357,091: 1,088,639:	388,426: 1,153,024:	262,323	132
Countity (1,000 pounds)	106,012:	85,705: 307,153:	108,160:294,560:	26
9 n d	48: 787,846:	48: 48: 648,487:	33: 401,132:	- 3 - 3 - 3 - 3 - 3
Quantity (long tons)	37,731:	60,990:	14: 106,553:	30

Table 18. -- Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	1982	Percent Change
	: E	(2)	(3)	: (2) to : (3) : (4) : (4)
		•		
Lead ore and concentrate Imports: Quantity (short tons)	33,794:	31,211:	21,809: 9,089:	130
ty (short tons) (1,003 dollars and waste and sc	~ ~ ~	3,9	1.23	-36
Imports: Quantity (short tons)	96,061:	116,622:	112,532:	-4
<u>u</u> 0 5	312,842: 227,056:	90,934:	118,810: 68,779:	31
Zinc ore and concent Imports:	6 70	C C	7	, L
(1,000 dollars)	75,771:	114,404:	30,272:	-74
Quantity (short tons)	79,616: 38,728:	77,144: 45,048:	98,860:47,231:	23.55
Quantity (short tons)	462,712:	691,481: 565,880:	514,704:	-26 -32
Appression (1,000 dollars)	41,310:28,666:	42,024: 32,720:	24,319:	-42 -38
Imports: Value (1,000 dollars)	2,070,808:	2,095,402:	1, 153, 963:	-45
Value (1,000 dollars)	1,849,283:	1,414,016:	957,889:	-32
Auchtity (1,000 pounds, contained weight) Value (1,000 dollars)	1,853:	3,158:	3:070:5	1 - 1 - 3
Value (1,000 dollars): Value (1,000 dollars):	6 : 17 : :	285: 146:	201:	-29

Table 18.--Annual data on U.S. imports and exports for selected commodity groups

Chrome ore and metal Chrome ore Imports: (undidulars)		1982 : CF	Change from
10 long tons, contained) 10 dollars) 10 dollars)		(3)	(2) to (3) (4)
10 long tons, contained) 10 dollars) 10 long tons, contained) 10 long tons, contained) 11 fee: 12 dollars)			
10 dollars)	366: 32 466: 49,94	186: 29,669:	-43
3 54,62 0 dollars)	5: 66: 5,89	1,573:	-88 -73
10 pounds)	: 3: 7: 24,62	10,078:	158
16,953: 13,90 10 pounds)	5,20	2,684:	148
(1,000 pounds)	: : : : : : : : : : : : : : : : : : :	11;898: 137,165:	- 14
: : : : : : : : : : : : : : : : : : :	35: 2,19 76: 16,46	837: 7,648:	-62 -54
•	5: 4,42 5: 49,83	2,353:	-47
Iron ore   Control   Con	: 119: 577: 577:	14: 155:	69 159
(long tons)	28,33 3: 28,33 3: 948,11	14,715:	884 884 88
(1,000 dollars)	7: 244,68	150,522:	138

Table 18. -- Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	1982	
		(2)	(3)	(4)
Magnesium metal : Nagnesium, unwrought, and waste and scrap :				
Apports: Quantity (short tons)	3,669:	6,750: 12,833:	4,607	-32 -25
Exports: Quantity (short tons)	49,729: 104,673:	33,065: 81,805:	37,330 92,903	13
Imports: Quantity (short tons, contained weight) Value (1,000 dollars)	47: 131:	32: 129:	72	56- 
Exports: Quantity (short tons, contained weight): Value (1,000 dollars)	6,813: 23,033:	1,598: 9,048:	2,082	32
Imports: Quantity (1,000 pounds, contained weight): Value (1,000 dollars)	670,285:	622,502: 43,161:	217,801	-65
Exports:     Quantity (1,000 pounds, contained weight):     Value (1,000 dollars)	212,980:	66,644:	28,227	1 58
Imports: Quantity (1,000 pounds)	15,829:	16,685:	10,452	-37 -38
Exports: Quantity (1,000 pounds)	24,639: 11,459:	9,488: 4,975:	7,200 4,570	124
ty (flasks of 76 pounds eac (1,000 dollars) ore and metal	11,557: 3,007:	12,583: 5,066:	9,055	- 28 - 40
Imports: Quantity (1,000 pounds, contained weight): Value (1,000 dollars)	3,777:	3,638:	5,863	310
Quant Value	68,217: 715,430:	51,348: 406,816:	49,782	-43 -43

Table 18. -- Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	1982	:Percent :Change : from
	(1)	(2)	(3)	(2) to (3) (4)
Molybdenum, unwrought and waste and scrap :				
× <1,00	535: 9,882:	449: 5,576:	324.2,843	-28
Exports:     Quantity (1,000 pounds, contained weight):     Value (1,000 dollars)	1,038: 8,972:	2,911: 12,583:	1, 123	-63
	137:	93:	1,959	-15
Exports: Quantity (1,000 pounds)	1,010: 23,454:	13,799:	13,834	
Imports: Quantity (1,000 pounds)			16	-72
Imports: Quantity (1,000 pounds)	42,458: 22,484:	56,971:	50,765	112
(1,000 pounds) (1,000 dollars) 1 containing over 99.7	,69	34,00	OIM I	-72
Quantity (1,000 pounds)	1,288:	1,920: 27,405: :	1,885 25,598	
Imports: Quantity (1,000 pounds)	2,322:	4,280: 90,601:	2,740	-36
Quantity (1,000 pounds)	425: 12,893:	172:	50 CJ	119
Imports: Quantity (1,000 pounds)	259: 21,120:	149: 10, 159:	164	10 4
Quantity (1,000 pounds)	71,917:	32,657:	469	32 - 15

Table 18.--Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	1982 : (	:Percent :Change : from
	(1)	(2)	(3)	(2) to (3) (4)
Tantalum, wrought Imports:  Quantity (1,000 pounds)	: : 1: 172:		146:	305
ty (1,000 (1,000 and metal	124: 20,896:	6,531:	48: 6,834:	- 50 5
00	844: 90,131:	719:	766: 81,576:	-15
Exports: Quantity (1,000 short tons)	17: 3,443:	7; 2,099;	1,279:	198
	9,553: 60,213:	12,980:	2,708:	-79
Exports:    Quantity (1,000 short tons)    Value (1,000 dollars)    Titanium, unwrought other than sponge; and waste and scrap	1,038:	450::	255:	-43
Imports: Quantity (1,000 short tons)	8,623: 33,189:	8,062:	2,977: 7,208:	-63
Exports: Quantity (1,000 short tons)	77,533:	114,701:	63 68,174:	-14
Imports: Quantity (1,000 short tons)	15,269:	21,573:	16,240:	122
Exports:     Quantity (1,000 short tons)	51,588:	53,806:	40,367:	125
s: tity (1,00 e (1,00	11,484:	11,770:	7,781:	-34 -49
Exports: Quantity (1,000 pounds, tungsten content): Value (1,000 dollars)	2,028:	175:	672:	284

Table 18. -- Annual data on U.S. imports and exports for selected commodity groups

# - #4 - 1	Commodity area	1980	1981	1982 : (	:Percent :Change : from
we to	tyle	 E	(2)	(3)	(2) to (3) (4)
Tungsten, unwrou Tungsten, unwr	unwrought, and waste and scrap :				
Andores: Quantity Value	ty (1,000 pounds, tungsten content): (1,000 dollars)	520:	377:	6,582:	60
exports: Quantity ( Value ( Tungsten, wrough	ty (1,000 pounds, tungsten content): (1,000 dollars):	2,494: 28,211:	3,499: 36,747:	2,338: 20,117:	-33
Imports: Quantity Value	(1,000 pounds)	161: 3,862:	186: 4,089:	2,255:	-74
exports. Quantity (1 Value (1 Metallic containers	(1,000 pounds)	762: 29,765:	632: 25,690:	474: 20,058:	125
	(1,000 dollars)	74,914:	81,239	83,146:	2
9e; es	(1,000 dollars)	277,945:	296,878:	247,916:	91 -
tγ	(pounds)	619,449,677:	649,951,819:	668,486,946: 378,139:	ו
ס .	(pounds)	118,881,710: 130,151:	112,983,019:	93,593,137: 108,996:	-17
. t y	(pounds)	532,779,136: 287,032:	575,482,812: 322,635:	583,485,628: 320,553:	
ţ<	(pounds)	57,510,563: 74,797:	62,700,045: 81,985:	41,621,497: 62,030:	-34 -24
ts: ntity ue	(pounds)	: 19,010,419: 7,877:	: 19,830,383: 7,996:	20,089,296:	- 3
t i ty	(pounds)(1,000 dollars)	2,204,908: 3,962:	2,267,966: 3,825:	2,285,692: 3,750:	-2
	/S JETTOD /	,	70'		^ I

Table 18. -- Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	1982	:Percent :Change
	 E	(2)	(£) 	(2) to (3) (4)
unod	3.08	10.941.695:	5	9-
(1,000 dollars)	40,330:	46,981:	•	-34
Guantity (pounds)	23,337,444: 22,079:	24,421,810: 26,351:	26,201,063: 18,305:	-29
Appress. Quantity (pounds)	38,168,450:	27,526,584:	39,928,464:	185
Nails, screws, bolts, and other fasteners; locks; builders' hardware; furniture, luggage and	29,387,856:	14,294,639:	15,780,852: 8,781:	101
Value (1,000 dollars)	921,517	934,685	950,695	1
Exports: Value (1,000 dollars)	537,664:	601,784:	544,510:	- 10
Augustic (1,000 dollars)	861,798,004:	895,402,966: 486,468:	842,244,952: 462,295:	911
(1,000 dollars)————————————————————————————————————	131, 153, 367:	160,407,531:	156,874,868: 153,749:	-14
Imports: Value (1,000 dollars)	850,045:	948,552:	940,990	1
orts. alue dtools	955,732:	1,035,533:	931,204:	1 10
Imports: Value (1,000 dollars)	507,636:	562,564:	577,987	M
Value (1,000 dollars)Table flatware	888,267:	958,132:	843,549:	1 12
		•	•	

Table 18. -- Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	1982 : (	: Percent : Change
		(2)	(3)	(2) to (3) (4)
Table flatware, precious metals		••		-
Imports: Quantity (pieces)	: : 7,505,081: : 13,203:	5,468,256: 9,035:	3,953,380:	128
Exports: Quantity (pieces)		160,112:	93,972:	141
Imports: Quantity (pieces)Value (1,000 dollars)	411,690,807: 65,275:	443,002,362: 82,140:	399,671,687:	- 15
Exports: Quantity (pieces)Value (1,000 dollars)	5,817,737: 41,116:	6, 121, 463: 52, 403:	7,252,337:	31
Imports: Quantity (number)	: : 41,142,320: : 24,458:	41,373,241: 26,590:	38,770,703: 26,511:	9-
Exports: Quantity (number)	312,888:	515,974: 2,052:	402,177: 2,162:	-22
Imports: Value (1,000 dollars)	3,532,401	3,099,196	3,147,384:	2
Exports: Value (1,000 dollars)	3,243,605	2,529,155:	2,046,818:	- 19
ts: ntity (pounds) ue (1,000 dollars)	: : 55,681,256: : 73,657:	53,755,036: 74,256:	43,457,225: 58,133:	-19
Exports: Quantity (pounds)	17,169,793: 36,543:	18,403,692: 41,110:	12,187,230: 31,638:	-34 -23
ports Quant Value	15,367,555: 6,769:	17,190,783:	16,013,539:	2-
Exports: Quantity (pounds)	4,401,478: 6,078:	5,024,403:5,872:	11,171,025:	122
				-

Table 18. -- Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	1982	Percent Change from
•• •• ••	(1)	(2)	(3)	(2) to (3) (4)
Round link chain and chain n.s.p.f. of iron or steel; chain of base metals other than iron:				
Quantity (pounds)	46,049,711:	32,993,772:	38,380,554:	5 5
Exports: Quantity (pounds)	19,570,442: 27,825:	19,797,268: 29,665:	13,363,906:	-32 -26
Auantity (1,000 short tons)	155: 162,294:	150: 181,543:	133:	111
Quantity (1,000 short tons)	346: 778,519:	379:	723,723:	-30

Table 19.-- Summary of trade-monitoring gates triggered for selected commodity groups, 1982

: : : :	and products, except ceramic : ss and glass products and cement clinker	petroleum and : use as fuel (08)	1ay: (06)	bentonite	products: clay tiles: , n.e.c: and ornamental:	articles, :	articles, n.s.p.f
		······································		• • • • • •			
	6) 08 09				3) 09	(08)	
Exports	10						

Table 19.-- Summary of trade-monitoring gates triggered for selected commodity groups, 1982

: : : :	(03) (08) 09 (03) (06) 09 (03) (06) 09 (03) (08) 09	(05) (06) 08 09 (06) (06)	(06) 08 (08) 06 (08) 06 (06)	(03) (06) 08 09 (03) (06) (03) (06) 09
Imports	(08) 09 09	(03) (06) 09 (03) (06) (03) 06 09	06 09 06 (03) (06) (03) (06) (08) 09 (03) (06) 09	(03) (06) (03) (06) (03) (06) (08)
Commodity area	Mirrors of glass———————————————————————————————————	Ferroalloys Ferromandum	ind waste and scrap ier than foil ate	Chrome ore and metal Chrome ore

Table 19. -- Summary of trade-monitoring gates triggered for selected commodity groups, 1982

: Exports : Exports :	(165) (166) 08 09 10 (06) (106
Commodity area	Iron ore————————————————————————————————————

Table 19.-- Summary of trade-monitoring gates triggered for selected commodity groups, 1982

Commodity area :	Imports	: Exports :
Scissors and shears————————————————————————————————————		. 08 09 . (06) . 03 06 09 . (06)
offuctures of base metal		

## Machinery and Equipment 1/

In 1982, U.S. trade in machinery and equipment products registered a trade surplus of \$14.9 billion compared with \$27.0 billion in 1981 (table 20, fig. 8), representing a decrease of 45 percent. U.S. imports of these products in 1982 totaled \$72.4 billion compared with \$68.5 billion in 1981, or up 6 percent; the principal sources of imports in both years were Japan, Canada, the EC, Mexico, and Taiwan. Machinery and equipment exports totaled \$87.3 billion in 1982 and \$95.5 billion in 1981, representing a decrease of almost 9 percent; principal export markets in both years were Canada, the EC, the OPEC, Mexico, and Japan. Significant trade changes in 1982 occurred in many product areas of the machinery and equipment sector; some of the more pronounced shifts took place in office machines, telephone and telegraph apparatus, semiconductors, metal-shaping machine tools, tractors, and aircraft products pursuant to the Civil Aircraft Agreement, all of which are covered later in this section.

## U.S. bilateral trade

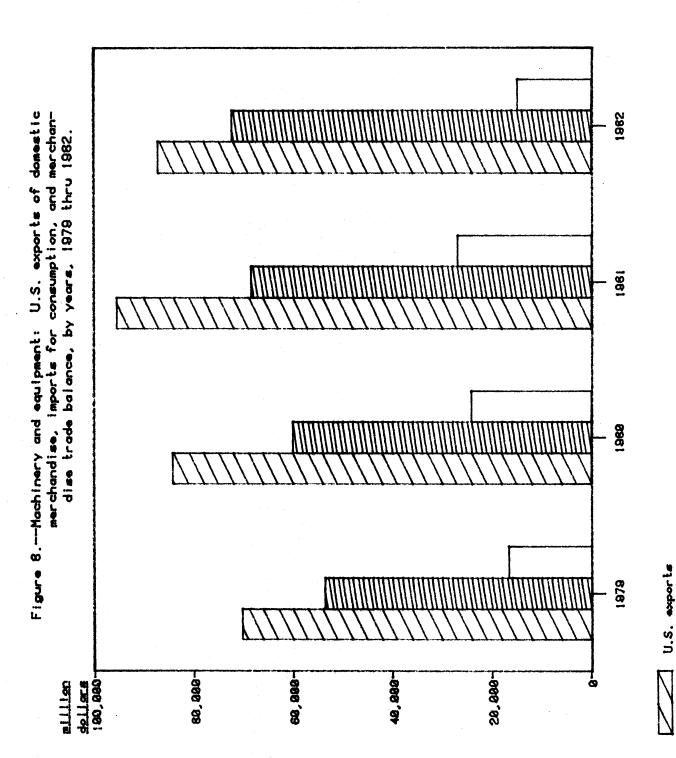
The major U.S. trading partners in terms of dollar volume of machinery and equipment in 1982 were Canada, the EC, Japan, and Mexico; the principal U.S. export markets were Canada, the EC, the OPEC, and Mexico; whereas, the principal sources of U.S. imports were Japan, Canada, the EC, and Mexico. The United States had a trade deficit with Japan of \$21 billion and a surplus with the OPEC of \$11 billion. A synopsis of trading activity in 1982 compared with 1981 with 12 major U.S. trading partners follows.

Canada.--U.S. imports from Canada of machinery and equipment, increased 13 percent to \$16.9 billion in 1982 from \$14.9 billion in 1981. U.S. exports dropped by almost 15 percent, falling to \$17.7 billion in 1982 from \$20.7 billion in 1981. The increase of imports and decrease in exports resulted in a significant drop in the favorable U.S. trade balance with Canada from \$5.8 billion in 1981 to \$805 million in 1982. The largest single product category contributing to this decline was motor vehicles. U.S. exports of these products to Canada dropped by \$1.3 billion and U.S. imports from Canada jumped by more than \$2.2 billion. Therefore, the U.S. trade balance with Canada in motor vehicles fell to a deficit of \$3.5 billion in 1982 from a trade surplus of \$195 million in 1981. Most categories of U.S. machinery and equipment exports to Canada fell in 1982, contributing to the fall in the U.S. trade balance. Other than motor vehicles, the most significant product categories experiencing declining exports were drilling and boring machines (a decline of \$188 million), machine tools (\$316 million decline), electrical machinery and equipment (\$215 million decline), and aircraft (\$344 million decline). With the exception of motor vehicles, most U.S. machinery and equipment imports from Canada also declined; however, in most import categories the decline of such imports was more than offset by declining U.S. exports of like products.

<sup>1/</sup> Included here are products classified in parts 4, 5, and 6, of schedule 6
(Metals and metal products) of the Tariff Schedules of the
United States.
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Table 20.--Machinery and equipment: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1980, 1981, and 1982  $\underline{1}/\underline{2}/$ 

ports of domestic merchandise: 17,965,741 : 20,733   3,666,088 : 4265   4265	20,733,205 : 4,265,776 : 18,911,157 :	
17,965 741	: 20,733,205 : 4,265,776 : 18,911,157 : 1,600,044 ·	
1,965,441   20,733     1,540,825   1,600     1,540,825   1,600     1,540,825   1,600     1,503,144   1,500     1,203,144   1,500     1,203,144   1,500     1,203,144   1,500     1,203,144   1,500     1,203,144   1,500     1,203,144   1,500     1,203,144   1,500     2,203,1382   22,223     3,1313,130   22,200     1,000,229   1,246     1,000,229   1,246     1,000,229   1,246     1,000,220   1,2	20,733,205 : 4,265,776 : 18,911,157 : 1 600 944 :	
1,440,825   1,500     1,440,825   1,500     1,440,825   1,500     1,440,825   1,500     1,503   144   1,503     1,692,115   1,504     1,692,115   1,504     1,692,115   1,504     1,692,115   1,504     1,692,115   1,504     1,692,115   1,504     1,692,115   1,504     1,692,115   1,504     1,692,115   1,504     1,692,115   1,504     1,692,115   1,504     1,692,115   1,504     1,692,115   1,692	4,265,776 : 18,911,157 : 1,600 044 :	17,651,717
15,495,445 : 15,911 15,50,465 : 6,945 : 16,901 15,50,465 : 16,901 15,50,465 : 16,901 15,50,465 : 16,901 15,50,465 : 16,901 15,50,465 : 16,901 15,104 : 11,105 15,113,305 : 11,105 15,113,305 : 12,105 15,113,305 : 12,105 15,113,305 : 12,105 15,113,305 : 12,105 15,113,305 : 12,105 15,113,305 : 12,105 15,113,305 : 12,105 15,113,305 : 12,105 15,113,305 : 12,105 16,113,305 : 12,105 17,113,113,113 : 1,113 17,113,113 17	18,911,157 :	4,013,570
1,540,825 : 1,600 589,771 : 599,789 : 890,469 : 890,469 : 890,469 : 890,469 : 890,469 : 890,469 : 890,469 : 890,469 : 890,469 : 890,460	1 KOO 06A .	17,186,066
890,469 : 890,469 : 890,469 : 890,469 : 890,469 : 890,401 : 1,203,144 : 1,503 : 11,135 : 11,135 : 11,135 : 11,135 : 11,135 : 11,135 : 11,135 : 11,135 : 12,238,901 : 1,245 : 11,225 : 1,025,239 : 1,245 : 1,025,239 : 1,245 : 1,025,239 :		1,481,425
1, 509, 771   1, 509, 771   1, 509, 771   1, 509, 771   1, 509, 771   1, 509, 771   1, 509, 771   1, 509, 771   1, 509, 771   1, 509, 772   1, 509, 702   1, 509, 702   1, 509, 702   1, 509, 702	890,438 :	848,930
1,203,144 : 1,504,640 : 6,548,	531,326 :	638,546
6,548,640:  1,692,315:  1,1936:  1,11,260:  1,11,260:  1,203:	1,500,044 :	1,784,903
1,692,315 : 1,692,315 : 1,1986 : 1,1198	8,405,098 :	5,038,790
84,306,921	1,584,507 :	1,651,151
811,260       622         22,213,382       25,229         22,213,382       25,229         84,306,921       95,536         12,396,901       14,912         20,411,587       25,111         20,411,587       25,111         39,035       14,45         102,239       1,246         102,239       1,246         103,353       1,246         104,328       2,466         106,336       6,161         107,464       2,466         108,43,498       20,843         108,43,498       20,843         11,145,789       1,114         11,45,789       1,114         11,45,789       1,114         11,45,789       1,114         11,45,789       1,114         11,45,789       1,114         11,46,789       1,114         11,48,789       1,114         11,48,789       1,114         11,11       2,444         11,11       2,444         11,11       2,444         11,11       2,444         11,484,311       2,444         11,444,444       2,444         11,444,444	11,199,106 :	11.505.664
351,340       25,213,382       25,229         84,306,921       95,526         12,396,901       14,913         20,411,587       25,129         15,128,865       14,451         395,035       14,451         1,020,229       1,246         1,020,229       1,246         1,020,229       1,246         1,020,239       1,023         1,020,239       1,023         1,020,239       1,023         1,020,239       1,023         1,020,239       1,023         1,020,239       1,023         1,020,239       2,466         1,020,338       2,466         1,020,338       2,466         1,020,338       2,466         1,020,338       2,466         1,020,338       2,466         1,020,338       2,466         1,020,338       2,466         1,020,339       2,466         1,020,339       2,466         1,020,339       2,466         1,020,339       2,466         1,020,339       2,466         1,020,330       2,466         1,020,330       2,466         1,143,732       2,466 <td>622.556 :</td> <td>533, 104</td>	622.556 :	533, 104
22,213,382     25,299       84,306,921     95,536       12,398,901     14,912       20,411,587     25,111       20,411,587     25,111       395,035     14,491       395,035     1,246       36,353     1,020       36,353     1,024       36,353     1,024       36,353     1,024       36,353     1,024       36,346     6,161       37,346     6,161       37,346     6,161       37,339     2,304       38,339     5,314       39,346     6,161       4,454     1,145,789       3,366,579     4,454       4,484,311     5,940       4,484,311     5,940       4,484,311     5,940       113,103     1,113	206.527 :	207,676
12,398,901   14,912   15,128,865   14,912   15,128,865   14,451   15,128,865   14,451   1,020,229   1,246	25.291.867 :	24.957.279
12,398,901   14,912   15,118,865   14,45   15,111   15,128,865   14,45   15,111   15,128,865   14,45   15,111   15,102   15,111   15,128   15,111   15,128   15,111   15,128   15,111   1,111   1	95.536.029 :	87, 291, 151
12,398,901	•	101111111
20,411,587       25,111         15,128,865       14,451         395,035       1,286         1,020,229       1,286         36,353       1,022         1,020,229       1,286         2,064,328       2,466         1,805,419       2,306         1,805,419       2,306         1,805,419       2,306         1,805,419       2,306         1,805,419       2,306         1,805,419       2,306         1,805,419       2,306         1,805,419       2,306         1,805,419       2,306         1,805,419       2,306         1,11       2,306         1,11       3,306         1,11       4,484         1,11       3,44         1,11       4,484         1,11       2,464         1,11       3,11         1,11       3,11         1,11       3,152         1,11       3,152         1,11       3,152         1,11       3,152         1,11       3,153         1,11       3,153         1,11       3,153         1,11	1A 012 758 .	16 846 270
15,128,865	75 111 739 .	25 322 900
1,020,229 1,246,335 1,020,229 1,224,336,335 1,020,229 1,020,229 1,020,229 1,020,229 1,020,229 1,020,229 1,020,229 1,020,229 1,020,239 1,020,230 1,	10 1111 OAA .	14 420 550
1, 305, 035 1 1, 305, 035 1 1, 305, 035 1 1, 305, 035 1 1, 305, 318 1 1, 305, 419 1 2, 2, 064, 328 1 1, 305, 419 1 2, 2, 334 1 1, 305, 419 1 1, 305, 419 1 1, 305, 519 1 1	. 440, 764, 41	14,429,560
1,020,229 : 1, 36,353 : 1, 36,353 : 1, 36,328 : 2, 36,328 : 2, 37,34 : 3,339 : 6, 33	483,033 :	535,987
838,992 1, 2,064,328 ; 2, 1,805,419 ; 2, 70,346 ; 2, 193,752 ; 3,339 ; 6, 193,752 ; 193,752 ; 6, 193,752 ; 193,752 ; 6, 193,752 ; 193,752 ; 6, 1,145,789 ; 1, 1,445,789 ; 1	1,248,977 :	1,400,377
2,064,328 : 2, 064,328 : 2, 064,328 : 2, 1, 305,419 : 2, 1, 305,419 : 2, 1, 305,419 : 2, 1, 305,419 : 2, 1, 305,419 : 2, 1, 4, 484,311 : 5, 364,152 : 68, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	35,606 :	38,709
2,064,328 : 2, 1,805,419 : 2, 1,305,419 : 2, 1,304,752 : 5,339 : 6, 1,31,308 : 2, 1,41,308 : 2, 1,41,41,41,41,41,41,41,41,41,41,41,41,41	1,022,888 :	1,265,809
1,805,419; 2, 70,346; 193,752; 5,339; 66, 8,339; 66,078,120; 68, 19,754,308; 5,714,308; 68, 11,143,498; 11,145,789	2,464,211 :	2,663,975
193,752   193,752   193,752   193,752   193,752   193,752   193,752   193,752   193,752   193,759   193,	2,300,995 :	2,560,306
193,752 : 5,339 : 60,078,120 : 68, 68,120 : 68,152 : 7,14,308 : 7,26,839 : 7,26,839 : 7,20,130 : 7,34,17 : 7,4,484,311 : 7,34,152 : 7,4,484,311 : 7,34,17 : 7,4,484,311 : 7,34,17 : 7,4,484,311 : 7,34,17 : 7,4,484,311 : 7,34,17 : 7,4,484,311 : 7,34,17 : 7,4,484,311 : 7,	64,742 :	92,976
5,714,308 : 6,0078,120 : 68,  1,5,566,839 : 5,14,308 : -20,  1,145,789 : 1,145	271,690 :	185,862
5,714,308; 6,89; 68; 68; 60,078,120; 68; 68; 68; 68; 68; 68; 68; 68; 68; 68	39,813 :	40,361
60,078,120 : 68,  1,5,566,839 : 5,566,839 : 5,566,839 : 20,  1,13,789 : 1,  1,145,789 : 1,  1,	6.167.347 :	7.017.326
5,566,839 : 5, 566,839 : 5, 566,839 : 5, 566,839 : 20, 3, 366,579 : 4, 489 : 1, 145,789 : 1, 145	58.542.029 :	170.046.77
5,566,839 : 5, 566,839 : -20, 743,498 : -20, 3, 366,579 : 1, 1, 145,789 : 1, 1, 145,789 : 1, 1, 145,789 : 1, 1, 145,789 : 1, 1, 145,789 : 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,		
-16,743,498 : -20, 3,366,579 : 4,145,789 : 1,145,789 :	5.819.446 :	805.438
3,366,579 : 4, 1,145,789 : 1, 1,457,789 : 1, 1,457,	20,845,956 :	-21.309.330
1,145,789 : 1, -129,759 : -23,417 :	4,454,112 :	2.756.506
	1,117,911 :	945,437
364,152 : 364,152 : 5,	-358,538 :	-551.447
364,152 : 364,152 : 5,	495.720 :	599,837
A,484,311 : 5	477,155 :	519,093
-113,103 :	5.940.886 :	2.374.814
	-716,488 :	-909.154
OPEC 8.647.489 : 11.134.3	11.134.363 :	11.412,688
••	350,865 :	347.242
•	166.714 :	167.315
•	19.124.520 :	17,939,953
••	26.993.999 :	14.931.079
• ••	•••	



Compiled from official statistics of the U.S. Department of Commerces. U.S. trade balance Sources

U.S. Importe

Japan. -- U.S. - Japan trade in machinery and equipment in 1982 varied little in value, compared with that in 1981. The value of U.S. exports to Japan decreased by 5.9 percent to \$4.0 billion and the value of U.S. imports from Japan increased by less than 1 percent to \$25.3 billion. The resultant U.S. trade deficit in 1982, \$21.3 billion, was an increase of 2.2 percent compared with 1981. The principal product accounting for the trade imbalance was motor vehicles for which the value of U.S. imports exceeded U.S. exports by \$13.1 billion (about 62 percent of the total deficit) in 1982. Radiotelephonic, radiotelegraphic, and television apparatus accounted for \$4.0 billion of the deficit, office machines \$1.3 billion, metalworking machine tools \$508 million, motor-vehicle parts \$472 million and semiconductors \$415 million. Imports from Japan of motor vehicles and radiotelephonic and radiotelegraphic apparatus decreased by 2 percent and motor-vehicle parts by 9 percent compared with 1981 imports. However, U.S. imports from Japan of office machines increased by 27 percent and semiconductors by 51 percent. Machine tool imports decreased by 22 percent. Most of these trade shifts are the result of the U.S. recession during 1982; however, the surge in imports in office machines and semiconductors reflect significant Japanese gains in the U.S. markets for automatic data processing machines, copiers, parts of office machines, and integrated circuit memories. The major categories of machinery and equipment exported to Japan in 1982 were aircraft and parts (\$888 million) and office machines and parts (\$832 million). In the former category the U.S. had a surplus of \$725 million, in the latter the U.S. had a deficit of \$1.3 billion as proviously mentioned.

EC.--U.S. imports from the EC fell slightly to \$14.4 billion in 1982 from \$14.6 billion in 1981. U.S. exports to the EC also decreased 9 percent to \$17.2 billion in 1982 from \$18.9 billion in 1981. The favorable U.S. trade balance with the EC, therefore, declined to \$2.8 billion in 1982 from \$4.5 billion, or by 38 percent. The principal U.S. export product contributing to the decline in the U.S. trade balance was aircraft. U.S. exports of aircraft fell to \$2.3 billion in 1982 from \$3.6 billion in 1981, or by 37 percent. Imports of motor vehicles from the EC increased by 8 percent to \$5.3 billion in 1982, from \$4.9 billion in 1981, while U.S. exports of such products declined by 13 percent in 1982 to \$1.1 billion, further contributing to the trade imbalance. The U.S. trade deficit with the EC in motor vehicles, therefore, increased to \$4.2 billion in 1982, from \$3.6 billion in 1981. The United States, however, maintained a large trade surplus with the EC in office machines (\$4.1 billion) and in electric machinery (\$1.5 billion).

Brazil.—The U.S. trade surplus in machinery and equipment with Brazil decreased by 15 percent to \$945 million in 1982 compared with 1981. U.S. imports from Brazil increased 11 percent to \$536 million in 1982 compared with 1981 and U.S. exports to Brazil decreased by 8 percent to \$1.5 billion. Products exported by the United States and accounting for a significant trade surplus were earth-moving machinery, office machines, aircraft and parts, and floating structures; of these, only trade in aircraft and parts was less in 1982 compared with 1981. Among the principal products imported from Brazil were piston-type internal combustion engines for automobiles, motor-vehicle bodies and chassis, and radio apparatus; of these, only piston-type internal combustion engines for automobiles were significantly larger in value in 1982 than in 1981. The increases in imports of the latter category are principallay

the result of the opening of an engine plant in Brazil by a subsidiary of a U.S. company to supply 4-cylinder engines to the United States.

Hong Kong.—The U.S. trade deficit, \$550 million, in machinery and equipment with Hong Kong was larger by 54 percent in 1982 compared with 1981. U.S. exports decreased to \$849 million, or by 5 percent, and U.S. imports increased to \$1.4 billion, or by 12 percent. The principal articles exported by the United States were parts of office machines and automatic data processing machines, semiconductors and parts, airplanes and parts, and earth-moving machinery. The major items imported from Hong Kong were parts of office machines and calculators, consumer electronic products (largely radio apparatus and audio tape recorders), pumps and compressors, and semiconductors. The United States had a large surplus in bilateral trade of aircraft and parts and earth-moving machinery, and large deficits in consumer electronic products; motors, generators, transformers, and related equipment; and pumps and compressors.

India.--U.S. exports of machinery and equipment to India in 1982 increased by 20 percent to \$639 million compared with 1981. U.S. imports from India increased 9 percent from 1981 to \$39 million in 1982. The resulting U.S. surplus in bilateral trade with India increased from \$496 million in 1981 to \$600 million in 1982, or by 21 percent. The major exports to India were aircraft and parts, motor vehicles and parts (principally trucks and parts of motor vehicles), automatic data processing machines and parts of office machines, and earth-moving machinery. Aircraft and parts accounted for about 20 percent of the surplus and motor vehicles and parts about 9 percent. Trade with India in many commodities fluctuated widely between 1981 and 1982. The fluctuations are attributed to the lack of wealth in India to purchase consistently machinery and equipment necessary for development.

Republic of Korea.--U.S. imports from Korea increased by 24 percent to \$1.27 billion in 1982 from \$1.02 billion in 1981. U.S. exports to Korea also increased, reaching \$1.78 billion in 1982 from \$1.5 billion in 1981. In 1982, the United States increased its favorable trade balance with Korea to \$519 million, a 9-percent increase over the 1981 trade surplus of \$477 million. Several product categories experienced large trade changes during 1981 and 1982. U.S. electric machinery and equipment exports gained 61 percent, increasing to \$279 million in 1982. Also increasing were U.S. exports of construction and mining machinery; exports of such machinery increased by 157 percent, reaching \$152 million in 1982, an increase of \$93 million, reflecting increases in that Government's activity in rural development projects. U.S. exports of office machinery increased to \$108 million in 1982, a gain of \$20 million. Offsetting some of the increases in U.S. exports was the sharp decline in U.S. aircraft exports. U.S. exports of aircraft fell by \$154 million or by 39 percent in 1982, declining to \$243 million. U.S. imports from the Republic of Korea of electrical machinery and equipment increased by \$193 million to \$1.08 billion in 1982. U.S. imports of office machines also rose by 33 percent or \$19 million in 1982.

Mexico. -- U.S. exports of machinery and equipment to Mexico, valued at \$5.0 billion in 1982, decreased 40 percent compared with 1981. U.S. imports increased 8 percent to \$2.7 billion in 1982 compared with 1981. The U.S. trade surplus was reduced from \$5.9 billion in 1981 to \$2.4 billion in 1982,

or by 60 percent. The principal products exported were motor vehicles and parts (mostly parts), which accounted for more than 21 percent of total U.S. exports to Mexico in 1982; however, compared with 1981, the value of such exports decreased by 46 percent. Other products exported in large volume to Mexico were lifting, handling, and earth-moving machinery, office machines and parts (mostly parts), and machines for working metal, stone, and other materials (mostly metalworking machine tools). All of these products were exported to a much lesser extent in 1982, compared with 1981. The principal product imported from Mexico was TV apparatus (mostly parts), which accounted for about 25 percent of the total value of U.S. imports. Other principal imported articles were piston-type internal combustion engines for automobiles, parts of motor vehicles, and electrical conductors. The recessionary conditions in the U.S. economy and the financial instability in Mexico undoubtedly affected bilateral trade significantly.

Taiwan.--U.S. imports from Taiwan in 1982 increased 11 percent to \$2.6 billion, and U.S. exports to Taiwan increased slightly more than 4 percent to \$1.7 billion. The overall U.S. trade deficit with Taiwan, therefore, increased further, reaching \$909 million in 1982 compared with \$717 million in 1981. U.S. trade with Taiwan is marked by several significant increases in imports. The most pronounced shift occurred in imports of office machinery and parts which increased 36 percent to \$160 million from \$118 million in 1981. Imports from Taiwan of electrical machinery and equipment increased more than \$120 million to \$1.8 billion, and was led by imports of radio receivers and parts, which increased by 75 percent (or \$54 million) to \$125 million in 1982. Imports of certain electrical equipment, principally motors, generators, and transformers (including small power packs and inductors), also increased by \$24 million to \$58 million in 1982, or by 70 percent. Television apparatus imports increased to \$497 million, up by more than \$21 million from 1981. Other significant import increases in 1982 include fans and blowers, which increased 49 percent to \$148 million, and imports of motor-vehicle parts, which increased 92 percent to \$69 million. Although U.S. exports to Taiwan in 1982 grew slightly, this overall increase was the net result of several significant fluctuations in certain product areas. For example, U.S. exports to Taiwan of steam-generating boilers and auxiliary equipment and parts increased by \$120 million to \$265 million in 1982, or by 83 percent; aircraft and spacecraft increased from \$73 million to \$347 million; and office machines increased 20 percent to \$126 million. Balancing out these large export gains were significant declines in two large export categories--machine tools and electric machinery and equipment. U.S. exports of machine tools fell dramatically to \$30 million in 1982 from \$79 million in 1981, a decline of 62 percent, while electric machinery and equipment fell by \$38 million (8 percent) to \$456 million in 1982 from \$495 million in 1981.

OPEC.—The U.S. trade surplus in bilateral trade of machinery and equipment with the OPEC increased by more than 2 percent in 1982 to \$11.4 billion compared with \$11.1 billion in 1981. The surplus was generated by U.S. exports of \$11.5 billion in 1982, 3 percent higher than in 1981, and U.S. imports of \$93 million in 1982, 44 percent higher than in 1981. The principal articles traded in 1982 were motor vehicles and parts (mostly passenger cars, trucks, and tractors and parts) which accounted for 21 percent of the value of U.S. exports to the OPEC; lifting, handling, and earth-moving

machinery (16 percent); aircraft and parts (11 percent); and internal combustion engines of various types (7 percent). U.S. exports of aircraft and parts and internal combustion engines increased by 24 percent and 18 percent, respectively, over 1981 exports, but U.S. exports of lifting, handling, and earth-moving machinery and motor vehicles and parts decreased by 3 percent and 17 percent, respectively, from 1981 exports. Although the OPEC continues to build infrastructure financed largely by the sale of petroleum, they have yet to build manufacturing capability in machinery and equipment sufficient to export significant amounts to the United States.

NME's.--U.S. imports from the NME's fell sharply to \$186 million in 1982 from \$272 million, or by 32 percent. U.S. exports to the NME's also dropped in 1982 by about 14 percent to \$533 million. The overall U.S. trade surplus with the NME's declined slightly to \$347 million in 1982 from \$351 million in The decline in imports from the NME's was led by a \$20-million drop in imports of pumps for liquids and parts thereof. This decline represented 23 percent of the total import decline. In 1982 imports of machine tools decreased by \$18 million to \$23.4 million, accounting for almost 21 percent of the NME's import decline. Imports of motor vehicles from the NME's declined by \$17 million in 1982, or by 28 percent from the 1981 level. Almost 54 percent of the total U.S. export decline to the NME's in 1982 was accounted for by the more than \$48-million drop in exports of tractors and parts. This drop was caused principally by the escalation of tractor prices due to a stronger U.S. dollar compounded by higher cost of U.S. financing. An additional \$15.5 million of the total U.S. export decline to the NME's was accounted for by the nearly 50-percent drop in exports of electrical machinery and equipment. U.S. machine tool exports to the NME's dropped \$10 million in 1982 to slightly more than \$20 million.

China. -- U.S. exports of machinery and equipment to China increased less than 1 percent in 1982 to \$207.7 million, whereas U.S. imports from China increased by 1.4 percent to \$40.4 million. The overall trade surplus therefore, remained at about \$167 million in both 1981 and 1982. The United States maintained a favorable trade balance with China in most machinery and equipment product categories. In 1982, construction machinery trade favored the United States by \$47.3 million, with U.S. exports reaching \$53.8 million, up from \$33.2 million in 1981. U.S. exports of office machines (principally automatic data processing machines and parts) to China increased by 64 percent to \$36.2 million in 1982; the U.S. trade surplus in these products increased to \$35.3 million in 1982, from \$21.9 million in 1981. The United States increased its favorable trade posture in the product category containing nonelectric motors, pumps, and refrigeration and air conditioning machinery to \$33.3 million in 1982 from \$16.3 million in 1981. Contributing most to this increase was a 68-percent drop in Chinese imports in 1982, principally imports of pumps for liquids. The United States also increased its 1982 trade surplus in aircraft (\$18.7 million) and motor vehicles (\$14.4 million). The favorable U.S. trade balance in the electrical equipment product category fell to \$19.8 million in 1982 from \$26.1 million in 1981 as imports from China increased by 34 percent to \$9.9 million, and U.S. exports fell 11 percent to \$29.9 million. Due to a 408-percent increase in imports of machine parts to \$6.2 million in 1982 from China and a 49-percent decrease of U.S. exports, the trade balance in this product category shifted from a trade balance of 33.4 million in 1981 favoring the United States to \$3.9 million in 1982 favoring

China. The principal reason for this trade shift in machine tools is due to the emphasis placed on the production of such products by the Chinese Government aimed at serving export markets. The Chinese also had a favorable trade balance in 1982 in machine tools.

## Commodity analyses

Steam generating boilers and auxiliary equipment and parts thereof.--U.S. imports of these articles totaled \$28.3 million in 1982, down more than 37 percent from the \$45.3 million reported in 1981. Exports of these products increased from \$661.4 million in 1981 to \$793.7 million in 1982, or by 20 percent. Imports in 1982 of steam-generating boilers and auxiliary equipment and parts thereof exceeded exports by \$690.3 million.

With excess energy-generating capacity resulting from conservation efforts, foreign firms have deferred placing orders for new steam power boilers. The U.S. industry has, however, increased its exports of parts and auxiliary equipment as the foreign purchasers have continued to maintain and upgrade existing steam-generating boiler systems.

John Tsapogas 523-0426

Compression-ignition engines and parts.--U.S. imports of compression-ignition engines and parts totaled \$592.7 million in 1982, down over 28 percent from the \$827.8 million in 1981. Exports of these products amounted to \$1.9 billion in 1982, down almost 10 percent from \$2.1 billion in 1981. Exports of compression ignition engines exceeded imports by \$281.2 million in 1982.

The large drop in imports and exports resulted from the continuous business slump in the automobile industry which decreased the worldwide demand for automotive engines for use in automobiles, trucks, and buses. New car retail sales in the United States declined from 8.5 million units in 1981 to 7.9 million units in 1982. Truck and bus retail sales have declined from 3.4 million vehicles in 1979 to approximately 2.5 million vehicles in 1982. Recently, stable fuel prices have also eroded the popularity of the fuelefficient compression ignition engines.

The largest decline in imports was in the category of compressionignition diesel engines other than for automobiles or marine craft which dropped 50 percent in 1982 to \$185.8 million from \$343.3 million in 1981.

> John Tsapogas 523-0426

Nonpiston-type aircraft engines.—U.S. imports of nonpiston aircraft engines and parts decreased from \$1.5 billion in 1981 to \$1.3 billion in 1982, or by 13 percent. Exports of the same products amounted to \$2.3 billion in 1982, up from \$2.1 billion in 1981. U.S. exports exceeded imports by \$972 million in 1982. The growth in exports was primarily due to increased

demand for U.S.-produced nonpiston engines and parts in France, Canada, and Japan.

While imports of nonpiston-type aircraft engines have declined from \$1.0 billion in 1981 to \$802 million in 1982, imports of parts for these engines have increased. U.S. imports of such parts amounted to \$505.5 million in 1982, up almost 23 percent from \$411.3 million in 1981.

The decrease in imports of engines and the increase in imports of parts can be attributed to the present slump in the U.S. airline industry. U.S. airlines have been experiencing declines in revenue-passenger miles traveled during 1981-82. The decline in revenues is forcing airlines to defer purchases of new aircraft and to continue to maintain and upgrade the existing fleet of aircraft.

John Tsapogas 523-0426

Wrapping and packaging machinery.—U.S. imports of these products reached \$257 million in 1982, representing an increase of 30 percent over such imports in 1981. Principal suppliers continued to be Italy and West Germany; these countries accounted for 61 percent, by value, of total imports of wrapping and packaging machinery in 1982. Wrapping and packaging machinery for the confectionery industry was the major category of machinery imported from Italy; such machinery enjoyed a price advantage of 10 to 20 percent, according to industry sources, and satisfied the market's demand for current technology. Major types of packaging machinery from West Germany included thermoforming machines, cartoning machines, filling and sealing machines for dry pharmaceutical products, and automatic weighers and check weighers. These West German products were well received in the U.S. market because of their innovative technology. Both Italian and West German suppliers do a thorough job of market research, advertising, and distribution of their products in the U.S. market, according to industry sources.

U.S. exports of packaging and wrapping machinery declined to \$368 million in 1982, down 20 percent from 1981. This decline was, in general, due to more favorable financing by foreign competitors (according to industry sources) and to economic conditions in traditional markets. In particular, exports to Mexico dropped to \$47 million in 1982, down 35 percent from the year before.

David Slingerland 523-0263

Drilling and boring machinery.—The value of imports of drilling and boring machinery fell by more than 70 percent to \$59 million in 1982. Falling imports from Canada accounted for most of the decline, and such imports consisted of oil-drilling and service rigs. The 1981 import decline reverses a 2-year trend of increased imports from Canada. Prior to 1982, the imports of oil-drilling and service rigs from Canada represented a reaction by U.S. companies' subsidiaries in Canada to increased Canadian Government involvement

in that country's western oil production. That situation has abated, and it is reflected in the decreased imports in 1982.

Ronald DeMarines 523-0259

Agricultural and horticultural machinery.—Both U.S. imports and exports of agricultural and horticultural machinery declined during 1982, compared with 1981. Imports dropped sharply to \$296 million, or by 32 percent, whereas exports declined to \$726 million, or by 23 percent. Canada is both the principal import source and principal export market for these products. During the comparative periods, imports from Canada declined by 38 percent, and exports to Canada dropped by 23 percent. Harvesting machines, a major item in this group of products, accounted for much of the decline in Canadian trade.

Industry sources indicate that exports have declined primarily because of the worldwide recession and the higher cost of U.S. products in worldwide markets. Imports of machinery covered here have fallen, according to industry sources, because of low farm commodity prices and the resulting overall lack of money for major capital investment. U.S. farm spending is being channeled toward the repair of existing machinery rather than new purchases.

William Greene 523-0265

Printing trades machinery.—U.S. exports of all major types of printing trades machinery declined in 1982, compared with 1981; total exports of these products fell from \$729 million in 1981 to \$600 million in 1982, a drop of 18 percent. For example, exports of offset printing presses, roll-fed type, declined to \$143 million in 1982, down 26 pecent from 1981. Other export declines in 1982 compared with 1981 include typesetting machines (down 12 percent); parts of printing presses (down 20 percent); printing blocks, cylinders, plates, sheets, and type (down 15 percent); and bookbinding machinery and parts (down 19 percent).

Exports of all printing trades machinery declined in 1982 for several reasons, including more favorable financing obtained by certain foreign producers for their customers (according to industry sources) and adverse economic conditions in many traditional markets. In 1982, significant U.S. export declines occurred in shipments to Canada, Mexico, and West Germany.

U.S. imports of total printing trades machinery increased in 1982 compared with 1981, rising from \$384 million in 1981 to \$437 million in 1982, up 4 percent. Imports of offset printing presses, sheet-fed type, principally sourced in West Germany, continued to be the major category of printing trade machinery imported; such imports reached \$151 million in 1982, up 4 percent from the year before. These presses from West Germany are well accepted in the United States because of their excellent technology that provides quality

reproductions at high speeds. The bulk of these West German presses are produced in large-volume operations that enjoy economies of scale.

Other significant import increases in 1982, compared with 1981 include bookbinding machinery and parts (up 26 percent); other printing machinery, including certain screen printers and plastic marking machines, (up 115 percent); parts of printing presses (up 9 percent); and parts of other printing machinery (up 42 percent). The only major import decline in 1982 was a drop of 26 percent for typesetting machinery and parts.

David Slingerland 523-0263

Converters, ingot molds, and casting machines, and parts thereof.—U.S. imports of converters, ingot molds, and casting machines, and parts thereof increased 153 percent, from \$34 million in 1981 to \$86 million in 1982. Japan and West Germany accounted for most of this increase, reflecting a continuing modernization program by the U.S. ferrous and nonferrous industries. The majority of these imported products were converters, ingot molds, and parts, which together accounted for \$72 million. U.S. exports of these products decreased 25 percent, from \$110 million in 1981 to \$83 million in 1982.

Charles West 532-0299

Metal-shaping machine tools.--U.S. imports of metal-shaping (metal-cutting) machine tools decreased 18 percent, from \$1,303 million in 1981 to \$1,068 million in 1982. Lathes were the most affected articles, with imports decreasing 29 percent, from \$499 million in 1981 to \$353 million in 1982. Japan accounted for most of this decrease, with imports of lathes from that country decreasing 33 percent, from \$305 million to \$204 million. According to industry sources, there are large inventories of Japanese lathes in the United States. These inventories, along with the depressed U.S. market, have affected imports.

U.S. exports of these products decreased 43 percent, from \$747 million in 1981 to \$423 million in 1982. U.S. exports of miscellaneous metal-shaping machine tools were most affected, with exports decreasing from \$336 million in 1981 to \$173 million in 1982, or by 49 percent. The combination of high prices in the U.S. and weakened world economies has forced a downturn in capital goods purchases by many of the United States' trading partners.

Charles West 523-0299

Office machines.—The United States realized a trade surplus of \$5.9 billion in office machines and parts in 1982. This is a decline of 11 percent compared with the 1981 surplus of \$6.2 billion. Although exports of office machines and parts increased from \$9.7 billion in 1981 to \$10.1 billion in 1982, or by 4 percent, imports increased sharply from \$3.5 billion to

\$4.2 billion, or by 21 percent. The United States continues to be a leader in technology and production of office machines; however, U.S. firms continue to rationalize their production throughout the world, thereby encouraging more trade. Imports from Japan of \$2.1 billion accounted for 49 percent of all imports of office machines and parts in 1982, and increased 27 percent when compared with 1982. Major U.S. export commodities are automatic data processing machines, computers, peripherals, and components and parts of these machines. The principal export markets are the United Kingdom, Canada, West Germany, France, and Japan. Major U.S. import commodities are automatic data processing apparatus and related equipment, as well as copying machines. The major supplying countries are Japan and Canada. Products showing a major change in trade activity during 1982 are discussed below.

Typewriters.—Exports of typewriters, reversing an upward trend, declined from \$211.2 million in 1981 to \$176.2 million in 1982, or by almost 17 percent. The decline was shared by all types of typewriter exports. Although exports to France and Saudi Arabia increased, declining exports to Canada, West Germany, and other countries were the major contributors to the overall drop in exports.

Automatic data processing machines.—U.S. imports of automatic data processing (ADP) machines continued to increase. Imports in 1982 were up 41 percent compared with 1981 and amounted to \$977.2 million. Exports during this same 1981-82 period were up only 1.3 percent. Japan displaced Canada as the leading supplier of ADP machines with an import surge of 115 percent. Japan achieved a 40-percent import market share in 1982, whereas, Canada dropped from 38 percent in 1981 to 29 percent in 1982. Of significance is the fact that most Canadian producers are subsidiaries of U.S. firms. The surge in imports from Japan is largely attributed to the increased U.S. demand for small computers and efforts by Japanese producers to satisfy that demand.

Calculators.—U.S. imports of calculators continued the decline started in 1981. Imports of calculators amounted to \$271.9 million in 1982, 14 percent less than the value imported in 1981. Of the major supplying countries, only Singapore showed a gain in 1982. Much of the decline is attributable to the upgrading of calculator power to or near computer status and the reduction in price of small computers to a level near the price of high-end calculators.

Copying machines.—U.S. exports of copying machines increased 33 percent in 1982 compared with 1981. Exports totaled \$170.1 million with major increases to Canada and the Netherlands. On the other hand, U.S. imports, reversing an upward trend, decreased 5 percent in 1982 compared with 1981. The weak demand principally for small copiers of the type imported is attributable to the recession in the United States. Imports totaled \$556.7 million, resulting in a deficit of \$386.6 million in the balance of trade.

Primary cells and batteries.—U.S. exports of primary cells and batteries declined by almost 21 percent, from \$158.3 million in 1981 to \$125.4 million in 1982. The two leading U.S. export markets, the Netherlands and Hong Kong, together accounted for 25 percent of the value of total export shipments in 1982, while remaining shipments were distributed among numerous developed and developing countries. Much of the decline in U.S. exports occurred in trade with Argentina, Mexico, Australia, Canada, and Belgium, which together registered an aggregate decline of over \$32 million. This trend was generally associated with the recession-depressed economies in these markets.

John Cutchin 523-0231

Vacuum cleaners and parts.—The value of U.S. imports of vacuum cleaners and parts increased from \$18.4 million in 1981 to \$24.1 million in 1982.

Mexico increased its share of the U.S. import market from less than 3 percent (\$466,000) in 1981 to 19 percent (\$4.5 million) in 1982. The increase in imports from Mexico is due in large part to foreign affiliates of U.S. firms exporting vacuum cleaner parts to be assembled in the United States. This arrangement takes advantage of low-labor costs in Mexico. Japan continues to be the principal supplier with 41 percent (\$9.8 million) of total imports in 1982. Exports of vacuum cleaners and parts fell from \$104.2 million in 1981 to \$74.3 million in 1982, or by nearly 30 percent. Canada, West Germany, and the United Kingdom were the principal markets for U.S. exports in 1982, together accounting for \$49.3 million, or 66 percent of the total.

Georgia Jackson 523-4604

Flatirons.—In 1982, U.S. imports of flatirons increased from \$25.1 million to \$43.3 million, or by 73 percent over 1981. Singapore, the major supplier, accounted for approximately 55 percent (\$24.0 million) of total imports in 1982. Imports from Brazil and Mexico, virtually nil in 1981, rose to \$15.9 million in 1982. U.S. exports declined by 48 percent in 1982 over 1981, or from \$21.4 million to \$11.2 million. Canada, the United Kingdom, and Venezuela were the principal markets, together accounting for \$7.1 million, or 36 percent of total U.S. exports. This substantial import expansion, coupled with the dramatic drop in exports, reflects the continuation of a major U.S. producer's practice of transferring its production of flatirons from its U.S. facilities to its subsidiaries in Singapore, Brazil, and Mexico.

Georgia Jackson 523-4604

Microwave ovens and parts.—U.S. imports of microwave ovens and parts showed a significant decline in 1982 over 1981. The value of U.S. imports decreased from \$303.1 million in 1981 to \$262.6 million in 1982, a drop of 169 13 percent. Japan, the principal source of U.S. imports, accounted for nearly all of this trend; imports from Japan declined from \$235.3 million in 1981, to \$165.7 million in 1982, or by 30 percent. This decrease can be attributed to

increased Japanese manufacturing facilities in the United States. U.S. exports also declined significantly during 1982 compared with 1981, from \$33.8 million to \$19.3 million, or by 43 percent. The sharp decline in U.S. exports to Canada and West Germany, which together accounted for 75 percent of the total export decline, paralleled the drop in the U.S. industry's output during the second half of 1982.

Georgia Jackson 523-4604

Telephone and telegraph apparatus.—In trade with all countries, the United States continued a favorable balance of trade. The surplus of \$203 million in 1982 was larger than the 1981 surplus by 28 percent. U.S. exports of telephone and telegraph apparatus to the Republic of Korea tripled, from \$66.9 million in 1981 to \$198.5 million in 1982. This reflects the Republic of Korea's continuing modernization and extension of its telephone and data communications systems. With total U.S. exports to the Republic of Korea of \$309.6 million in the past 5 years, this market has become second only to Canada for U.S. telephone and telegraph apparatus.

William B. Fletcher 523-0378

Television cameras.—Imports of television cameras and parts during 1982 did not continue to reflect the strong increase observed in 1981. The quantity of imports of complete cameras rose from approximately 433,000 units in 1981 to 486,000 units in 1982, or by 12 percent. During 1982, total U.S. imports increased to \$268 million, compared with \$243 million during 1981, or by 10 percent. Imports from Japan increased only slightly, rising less than 10 percent in value over 1981. However, Japanese imports accounted for 94 percent of the total value of U.S. imports in 1982. Imports of television cameras continue to be of the consumer types (principally nonprofessional), which are not produced in large quantities in the United States, rather than those for commercial broadcasting and industrial applications.

Ross Reynolds 523-0230

Color television receivers.—Imports of color television receivers from Japan and other sources continued to be strong. In 1982, imports totaled 2,347,000 units, valued at \$557 million, representing an increase of 21 percent in quantity and 14 percent in value over imports in 1981. The increase reflects a continuing strong demand in the United States for color sets. Despite significant Japanese investments in the United States for the production of color television receivers, imports from Japan (the major source) increased by 10 percent in quantity to 851,000 and 11 percent in value to \$279 million in 1982 compared with 1981. Imports from the Republic of Korea (the second largest source) increased 59 percent to 621,000 units and <sup>170</sup> the valued increased 55 percent to \$108 million in 1982 compared with 1981. Japan accounted for 50 percent of the value of imports and the Republic of

Korea for 19 percent. The surge of imports from the Republic of Korea has caused a stirring in the U.S. industry, according to the trade press, and some industry sources have threatened dumping action. The Orderly Marketing Agreement between the United States and Taiwan and the Republic of Korea was ended in June 1982. A dumping order on television receivers from Japan continues to be in force.

Ross Reynolds 523-0230

Tape recorders, tape players, and dictation machines.——Imports of tape recorders, tape players, and dictation machines amounted to \$2.5 billion in 1982, the same as in 1981. The arrested increase in 1982 compared with rapid increases in each year is attributed to a recession—generated drop in demand. Imports for 1982 from Japan, the principal source of nonprofessional video tape recorders, amounted to \$2.0 billion (constituting 80 percent of the total), the same value as in 1981. The other major sources for U.S. imports in 1982 were Taiwan, Korea, and Singapore, which in total were valued at \$370 million, an increase of 8 percent over 1981. Imports of tape recorders, tape players, and dictation machines account for the great bulk of U.S. consumption, since there is virtually no domestic production of nonprofessional video tape recorders. U.S. production of audio machines, including dictation machines, is also very small relative to imports.

Ross Reynolds 523-0230

Record players, phonographs, and turntables.—U.S. imports of record players, phonographs, and turntables decreased sharply in 1982, from \$272.4 million in 1981 to \$187.5 million, or by 31 percent. Imports from Japan accounted for 79 percent of the total imports in 1982 compared with 69 percent in 1981, even though the total value of imports of these articles from Japan decreased 22 percent from 1981 to 1982, or from \$189.4 million to \$148.5 million. Imports from the United Kingdom (the second largest source of imports) decreased from \$44.9 million to \$19.6 million, or by 56 percent from 1981 to 1982. As a share of total imports, those from the United Kingdom decreased from 16 percent to 10 percent. Other significant shifts included a 52-percent decrease in imports of these articles from West Germany (\$10.8 million in 1981 to \$5.2 million in 1982), and an 83-percent decrease in imports from Mexico (\$10.7 million in 1982 to \$1.8 million in 1982).

The decrease in U.S. imports of these products is a result of not only a chronically weak U.S. demand for consumer audio equipment but also a shift in consumer taste from phonograph, record players, and turnables to cassette recorder/players. In addition, there is an anticipatory lull in retail demand due to the impending introduction of new products this year, such as digitally recorded phonograph discs and players.

Eric Nelson 523-4585 171

Color TV picture tubes.—Compared with 1981, U.S. imports of color TV picture tubes declined by \$39 million in 1982, or by 27 percent. Much of the decline was accounted for by a 31-percent decrease in imports from Japan. In spite of this large decrease, however, imports from Japan still accounted for 92 percent of the value of total imports in 1982. The reduction in imports from Japan is related to the decrease in the production of color television receivers in the United States by Japanese producers. Compared with imports, exports of color picture tubes in 1982 declined even faster, decreasing to \$26 million, or by 59 percent. A large reduction in exports to Canada and Western Europe which are facing recessionary conditions accounted for much of the total reduction. As a result of these trade changes, the negative U.S. balance of trade in color picture tubes increased to about \$13 million in 1982.

Nelson Hogge 523-0377

Semiconductors.--U.S. imports of semiconductors were valued at \$4.2 billion in 1982, or 16 percent higher than in 1981. In comparison, U.S. exports reached \$3.8 billion in 1982, only 6 percent higher than in 1981. As a result, the U.S. negative balance of trade in 1982 exceeded \$383 million.

Imports of semiconductors are largely accounted for by U.S. producers which operate assembly plants in developing countries. Semiconductors' final assembly and encapsulation are completed in these countries prior to exportation of the finished devices back to the United States. Tariff items 806.30 and 807.00 are used extensively by U.S. producers.

The principal reason for the increased negative trade balance was the sharp rise in imports from Japan. In 1982, imports from Japan rose to \$608 million and were about 51 percent higher than in 1981. U.S. exports to Japan, on the other hand, were valued at \$193 million, an increase of only 13 percent over 1981. Integrated circuits were the most significant types of devices imported from Japan and were valued at \$445 million in 1982, or 55 percent higher than in 1981. A large share of the integrated circuits imported from Japan were computer-memory devices. The increase in demand for Japanese memory devices is related to the large share of the U.S. market accounted for by Japanese producers, falling unit prices of Japanese devices, and the increased willingness of U.S. end-product producers to buy from Japanese suppliers.

Nelson Hogge 523-0377

Rail locomotives and rolling stock.—U.S. imports of rail locomotives and rolling stock, excluding parts, amounted to \$118.0 million in 1982, a decrease of 47.9 percent from the level attained in 1981. Industry sources indicate that the decline in imports is primarily due to an existing railway equipment surplus in the United States. Domestic railroads increased their equipment stock in the late 1970's to accommodate rising coal transport demand; however, because of the recession-induced decrease in shipments of grain, lumber, and automobiles, a large number of locomotives and freight cars are now in

storage. Exports also decreased in this period, falling to \$432.5 million in 1982 from \$487.6 million in 1981.  $\underline{1}/$ 

Debby Ladomirak 523-0131

Passenger automobiles.--U.S. imports of automobiles increased from \$18.0 billion in 1981 to \$20.5 billion in 1982, or by 13.9 percent. Imports by units, however, remained relatively stable, increasing from 3.0 million in 1981 to 3.1 million in 1982. The average unit value of an imported automobile increased from \$5,991 in 1981 to \$6,657 in 1982, or by 11.1 percent. Unit imports from Japan, the leading source of imported automobiles, and West Germany declined in 1982 when compared with 1981, while the value of these imports increased by 1.4 percent during that period. The decline in unit imports from Japan is due primarily to the voluntary restraint level imposed upon exports of Japanese autos to the United States in 1982 by the Japanese Government. The second leading source of imported automobiles during 1981-82 Imports from Canada increased from 564,756 units, valued at was Canada. **\$4.27** billion, in 1981 to 707,194 units, valued at **\$5.80** billion, in 1982. The value and average unit value of imported automobiles increased from all of the six leading sources (Japan, Canada, West Germany, Sweden, France, and the United Kingdom) in 1982 when compared with 1981. Imports from Canada increased principally because of the increase in demand by U.S. consumers for larger, rear-wheel drive autos, many of which are built by U.S.-manufacturer's subsidiaries located in Canada.

U.S. exports of automobiles dropped substantially both in units and value in 1982 when compared with 1981. Exports, declined from 563,195 units, valued at \$4.0 billion, in 1981 to 390,089 units, valued at \$2.9 billion, in 1982. There was a decrease in U.S. exports to every major U.S. export market in 1982 when compared with 1981. The largest drop in exports of autos was to Canada, the primary U.S. export market, where a decline of 71 percent in units and 74 percent in value was registered. U.S. exports declined worldwide principally because of the weakened economies of those countries to which U.S. motor-vehicle manufacturers export automobiles. The U.S. trade deficit in automobiles increased from \$14.0 billion in 1981 to \$17.6 billion in 1982, or by 25.7 percent.

Jim McElroy 523-0258

Tractors, including parts.--U.S. imports of tractors and parts fell more than 20 percent in 1982 to \$786 million. The drop in imports of agricultural tractors and parts from Canada and the United Kingdom accounted for the majority of the decline. Expenditures by U.S. farmers for agricultural tractors were severely limited in 1982 by high interest rates and generally lower prices for agricultural commodities. These situations affected imports as well as domestic sales.

1/ On November 27, 1982, the U.S. International Trade Commission instituted a final countervailing duty investigation (Inv. No. 701-TA-182) on self-propelled rail passenger cars from Canada. However, on February 9, 1983, the petitioner withdrew its complaint.

U.S. exports of tractors also fell in 1982 to \$565 million or by more than 30 percent from the 1981 level. The decrease in exports to Canada, Australia, and Mexico accounted for most of the decline. Tractors most affected by the decline in exports are those used for construction purposes. Both, the slowdown in world construction activity and the higher U.S. prices are the principal reasons for the decline of U.S. exports of construction tractors.

Ronald DeMarines 523-0259

Forklift trucks and similar industrial vehicles.—U.S. imports of forklift trucks and similar industrial vehicles, excluding parts, decreased from \$152.2 million in 1981 to \$121.1 million in 1982, or by over 20 percent. The bulk of this decline is attributable to fewer imports from Japan. The majority of Japanese trucks are believed to have internal-combustion engines and a lift capacity of 4,000 to 6,000 pounds. These products are used in both manufacturing and service activities and their growth is closely related to that of the U.S. economy in general. Exports declined over 41 percent, from \$237 million in 1981 to almost \$139 million in 1982. This decline is attributed to the worldwide recession and a decrease in demand in many traditional U.S. export markets. The United States had a favorable trade balance in forklift trucks and similar industrial vehicles of \$17.8 million in 1982; however, this trade surplus declined drastically from the \$84.8 million recorded in 1981.

Debby Ladomirak 523-0131

Motorcycles.--U.S. imports of motorcycles, excluding parts, declined from 1,123,863 units, valued at \$1.28 billion, in 1981 to 935,054 units, valued at \$1.06 billion in 1982, representing a 17-percent decrease in both units and value. Motorcycles imported from Japan accounted for more than 95 percent of the total number of units and value during 1981 and 1982. However, the value of U.S. imports fom Japan decreased 15.6 percent in 1982 when compared with 1981, dropping from \$1.22 billion to \$1.03 billion. Virtually all of the decline in imports of motorcycles can be attributed to the decline in demand in the United States for motorcycles and the significant level of imported motorcycles already in inventory at the importer and dealer levels. 1/

U.S. exports of motorcycles increased from 23,062 units, valued at \$48.6 million, in 1981 to 25,161 units, valued at \$66.7 million, in 1982.

<sup>1/</sup> On September 16, 1982, the U.S. International Trade Commission instituted a section 201 investigation of the Trade Act of 1974 on imports of heavyweight motorcycles, engines and power trains subassemblies (Inv. No. TA-201-47). On January 19, 1983, the Commission determined that imports of heavyweight motorcycles are a substantial cause of the threat of serious injury to the domestic industry. On April 1, 1983, the President proclaimed a duty increase 174 and tariff-rate quotas on heavyweight motorcycles.

Thus, the U.S. trade deficit in motorcycles declined from \$1.23 billion in 1981 to \$993 million in 1982, or about 19 percent.

Jim McElroy 523-0258

Hand carts, dollies, and other nonself-propelled vehicles, including parts.--U.S. imports of nonself-propelled vehicles and parts increased from \$23.0 million in 1981 to \$46.5 million in 1982, a gain of over 102 percent. The principal sources were Taiwan and the Republic of Korea, which increased their exports of these products to the United States by 426 percent and 147 percent, respectively. Industry sources indicate that inexpensive hand carts are responsible for the large increase. The production process for these carts is labor intensive, giving imports a distinct price advantage. Exports declined by 19.6 percent, falling to \$194.5 million in 1982. However, the United States retained a favorable trade balance in nonself-propelled vehicles, including parts, in 1982, amounting to \$148.0 million.

Debby Ladomirak 523-0131

Floating structures, including parts.—U.S. exports of floating structures and parts increased 51 percent, from \$402 million in 1981 to \$607 million in 1982. The principal market for these articles was Brazil, which accounted for \$132 million, or 22 percent of U.S. exports in 1982. These floating structures consists principally of offshore oil well drilling and production platforms which cost approximately \$30 million to \$50 million each. Although there is currently a world oil glut, exploration and production platforms continue to be priority items for developing countries, which are highly dependent on oil revenues.

Chuck West 523-0299

Articles covered by the Civil Aircraft Agreement.--U.S. imports of articles covered by the Civil Aircraft Agreement decreased from \$3.7 billion in 1981 to \$3.4 billion in 1982, or by 8.1 percent. U.S. exports also declined 33 percent, falling to \$9.4 billion in 1982. The trade surplus declined significantly from \$10.4 billion in 1981 to \$6.0 billion in 1982. The declines can be attributed to the decreased demand for civil aircraft, both in the United States and abroad, due to high interest rates and the worldwide recession. Products showing a significant change in trade activity are discussed in the following sections.

Flight simulating machines.—U.S. imports of flight simulating machines increased from \$38.4 million in 1981 to \$67.2 million in 1982, a gain of 75 percent. Canada and the United Kingdom continue to be the major import sources, supplying almost 49 percent and 48 percent of total imports, respectively. Industry sources indicate that the gain in imports is due to the increased use of flight simulators to train pilots in the new large

transport aircraft delivered in 1982 and early 1983. Rising fuel costs, the expense of operating large transport airplanes, and the air controller situation have helped spur demand. Exports of flight simulators also increased, rising from \$59.2 million in 1981 to \$65.7 million in 1982.

New civil airplanes.—U.S. exports of new civil airplanes decreased from 3,325 units in 1981 to 1,320 units in 1982, or by over 60 percent. The value of these exports fell 45 percent to \$4.6 billion in 1982. Imports of new civil aircraft also declined, falling from 620 units in 1981 to 538 units in 1982. Import value decreased from \$1.2 billion in 1981 to \$1.0 billion in 1982, or by almost 17 percent. The decline in international trade in civil aircraft is due primarily to decreased orders for new airplanes and the worldwide recession.  $\underline{1}/$ 

Debby Ladomirak 523-0131

Motor-vehicle parts and accessories 2/.--U.S. imports of motor-vehicle parts and accessories, including duty-free parts and accessories imported from Canada under the United States-Canadian Automotive Products Trade Act (APTA), increased about 8 percent in 1982 compared with 1981 imports. Imports during 1982 amounted to \$9.1 billion, compared with \$8.5 billion in 1981. Imports from Canada, the leading source of imports of motor-vehicle parts and accessories, increased from \$3.9 billion in 1981 to \$4.5 billion in 1982, and imports from Japan, the second leading source of these products, increased by less than 0.1 percent. Virtually all of the Canadian increase can be attributed to increased imports of APTA parts and accessories. U.S. imports of APTA items in 1982 amounted to \$3.7 billion, compared with \$3.3 billion in 1981, an increase of over 14 percent.

Exports of motor-vehicle parts and accessories, however, decreased from \$11.3 billion in 1981 to \$10.6 billion in 1982, or by over 6 percent. Exports to Canada, the leading export market, increased by 3 percent, while exports to Mexico, the second largest market for parts and accessories, declined by over 41 percent. Most of the decrease in U.S. exports to Mexico was caused by the declining demand for motor-vehicle parts used in the assembly of new motor vehicles and the demand for replacement parts. This was brought about by the economic recession in Mexico, caused primarily by falling petroleum prices. Thus, the United States had a trade surplus of motor-vehicle parts and accessories of \$1.5 billion with the world in 1982, compared with \$2.8 billion

<sup>1/</sup> On May 27, 1982, the U.S. International Trade Commission initiated
preliminary countervailing duty investigations on commuter aircraft from
France (Inv. No. 701-TA-174) and Italy (Inv. No. 701-TA-175). On July 7,
1982, the Commission determined that the U.S. industry was not injured or
threatened with material injury. A similar investigation for Brazil (Inv. No.
701-TA-188) was instituted on August 13, 1982. On September 21, 1982, the
Commission found that the U.S. industry was not injured or threatened with
material injury.

 $<sup>\</sup>underline{2}$ / Included are motor-vehicle parts and accessories classified in schedules 1-7 of the TSUS.

in 1981, a decrease of \$1.3 billion. There was a decrease in the trade surplus with Canada of \$439 million and also a decrease in the trade surplus with Mexico of \$1.0 billion.

Certain motor-vehicle parts.—Products contained in this group include body stampings, bumpers, wheels, hubcaps and wheel covers, radiators, exhaust systems, brakes and parts, shock absorbers, transmissions, and miscellaneous motor-vehicle parts such as axles, tire valves, clutches, universal joints, and related parts (app. C). Imports of items in this group increased from \$3.2 billion in 1981 to \$3.6 billion in 1982, or by 10 percent, and exports declined from \$6.9 billion in 1981 to \$6.7 billion in 1982, or by 4 percent. The trade surplus in these products decreased from \$3.7 billion in 1981 to \$3.1 billion in 1982, or by over 16 percent.

The primary exports markets for these parts in 1982 were Canada, Mexico, and Venezuela. These three countries together represented \$5.2 billion of the total \$6.7 billion in U.S. exports in 1982, or almost 78 percent. The products in this group that accounted for the largest decrease in exports were wheels, radiators, exhaust systems, brakes, and miscellaneous motor-vehicle parts, while only exports of body stampings and bumpers increased during 1982.

Canada, Japan, West Germany, Mexico, and France were the principal sources of imports in this group, accounting for \$3.2 billion, or almost 91 percent, of total imports in 1982. Imports of APTA items represented \$1.8 billion, or 52 percent of the 1982 total, an increase of \$252 million when compared with imports in 1981.  $\underline{1}/$ 

Motor-vehicle engines and parts.--U.S. imports of motor-vehicle engines and parts increased from \$1.3 billion in 1981 to \$1.7 billion in 1982, or by 26 percent. More than 50 percent of the imported engines and parts were sourced from Canada, while Japan, Mexico, Brazil, and West Germany together accounted for almost all of the remaining imports. The greatest increase in imports of motor-vehicle engines and parts occurred in the gasoline-powered engine category, which increased from \$748 million in 1981 to \$1.1 billion in 1982, or by over 48 percent. Most of this increase was attributed to imports from Canada, Mexico, and Brazil, where U.S. motor-vehicle manufacturers have subsidiary engine plant facilities. Imports from Mexico increased almost 200 percent in 1982 over 1981, and imports from Brazil increased over 500 percent.

U.S. exports of motor-vehicle engines and parts declined marginally from \$1.98 billion in 1981 to \$1.97 billion in 1982, or less than 1 percent. The principal market for engines and parts in 1982 continued to be Canada, where virtually all imported engines are used in the assembly of new motor vehicles, principally automobiles and lightweight trucks.

Jim McElroy 523-0258

<sup>1/</sup> On April 29, 1982, the U.S. International Trade Commission instituted a section 201 investigation on tire valves (Inv. No. TA-201-46). On August 31, 1982, the Commission determined that tubeless-tire valves were not being imported into the United States in such increased quantities as to be a substantial cause of serious injury, or the threat thereof, to the ¹domestic industry.

Table 21.--Annual data on U.S. imports and exports for selected commodity groups  $\underline{1}/$ 

Commodity area	. 1980 :	1981	1982	rercent Change from
	 E	(2)	(3)	(2) to (3) (4)
Boilers, nonelectric motors and engines, and other : general-purpose machinery Steam generating boilers and auxilary equipment : and parts thereof				
Imports: Value (1,000 dollars)	: : 56,521:	45,292:	28,335:	-37
Exports: Value (1,000 dollars)	701,093:	661,442:	793,723:	20
parts thereof Imports: Value (1,000 dollars)	2,966:	2,944:	4,427	50
Exports: Value (1,000 dollars)	43,638	38,689:	33,893:	- 12
Imports: Value (1,000 dollars)	121,902:	81,437:	78,466:	<b>5</b> -
Exports: Value (1,000 dollars)	275, 125	308, 184:	404,442:	31
Imports: Value (1,000 dollars)	1,885,523:	2, 150, 167:	2,309,396	7
Exports: Value (1,000 dollars)	3,674,554:	4,108,099:	3,847,672:	9
Imports: Value (1,000 dollars)	1,145,212:	1,550,304:	1,399,434:	- 10
Value (:,000 dollars)	2,648,490:	2,939,500:	3, 189,747:	
Quantity (number)	2,645:	3,404:	1,978: 802,635:	-42 -23
Aports: Quantity (number)	1,647:	817,241:	2,137:857,505:	∞ ru
Imports: Value (1,000 dollars)	23,691:	22,544:	32,972:	46
Exports: Value (1,000 dollars)	7,242:	16,530:	19,365:	17

Commodity area :	1980	1981	1982	:Percent :Change : from
••••••		(5)	(3)	(2) to (3) (4)
Nonelectric engines and motors and parts thereof :				
Imports: Value (1,000 dollars)	53,345:	55,997	60,223	€0
	57,390:	61,265:	49,485	- 19
Imports: (1,000 dollars)	450,146	663,031	528,554	-20
Exports: Value (1,000 dollars)	1,036,898:	1, 182, 133:	1, 184, 380	
n a	263,742:	437,607:	462,896	•
N 0 0 1	98,886:	107,363:	121,654	
ກ່ອ	246,718:	277,434:	269,887	۳, 
Value (1,000 dollars)	835,438:	1,025,220:	865,233	- 16
	75,324:	76,551:	69,445	61
Value (1,000 dollars)	54,319:	65,622:	61,730	<b>9</b>
Value (1,000 dollars)	75,859:	83,960:	100,979	20
Value (1,000 dollars)	1,108,513:	1,255,177:	1,093,400	-13
Value (1,000 dollars)	29,646:	29,076:	39,045	34
	177,277:	146, 114:	139,611	<b>ታ</b> !
Imports: (1,000 dollars)	99,813:	89,929	102,094	14
exports: Value (1,000 dollars)	622,889:	663.810:	559,702	- 16

Table 21. -- Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	1982	:Percent :Change : from
	÷ : : : :	(2)	(3)	(2) to (3) (4)
Calendering and similar rolling machines (except : metal-working and metal-rolling and : glass-working machines), and parts thereof :	•• •• ••			
ທີ່ປ	11,891:	20,490	9,148	-55
Exports: Value (1,000 dollars)	14,881:	14,881:	21,068	42
Malue (1,000 dollars)	9,312:	14,208:	11,574	-19
Value (1,000 dollars)Equipment for treating materials by changing:	42,489:	34,847:	30,923	<del>-</del>
Value (1,000 dollars)	195,900	256,538:	347,321	35
n a por c	414,352:	451,590:	469,440	4
Value (1,000 dollars)	132,897	181,047	204,844	<b>.</b> 13
	724,909:	802,498	773,464	4
Value (1,000 dollars)	181,210:	198,171:	257,034	30
Value (1,000 dollars)	436,607:	460,268:	368,284	-20
Value (1,000 dollars)	35,813:	31,277:	39,377	26
าญั่ม	82,491:	90,535:	76,669:	-15
101	56,303	74,635:	85,435	14
שור	345,662:	430,559:	449,259:	4

Table 21.--Annual data on U.S. imports and exports for selected commodity groups

Commodity area :	1980	1981	1982	:Percent :Change : from
	(1)	(2)	(3)	(2) to (3) (4)
Elevators, winches, cranes, and related machinery; :     earth-moving and mining machinery     Mechanical shovels, coal-cutters, excavators, :     scrapers, bulldozers, and excavating, involving the part of the post of the part of the		• • • • • • •		
			P U	
: (1,000 dollars)- g and boring machine	5,989,561: :	7,243,401:	6,983,225	4-1
Apports: Quantity (units)	1,492: 32,846:	2,706: 258,725:	1,500: 58;809:	-45 -77
Capartity (units)	5,537: 479,296:	3,814: 385,493:	1,670: 536,821:	39
Imports: :	110,879	111,784:	108,792	۴
Value (1,000 dollars)	855,943:	874,406:	456,844	-48
Appress: Quantity (units)	632:	798:	319:	-60 -41
Quantity (units)	2,821: 289,194:	3,175:290,083:	1,543	-51
Value (1,000 dollars)	438,781:	546,500	579,880	•
Agricultural and horticultural machinery; machinery: for preparing food and drink Agricultural and horticultural machinery	776,867	908,245:	828,659	6-
Exports:	538,778:	440,849:	296,796	-33
Value (1,000 dollars):	862,273:	965,056:	725,790:	-25

Table 21. -- Annual data on U.S. imports and exports for selected commodity groups

Parts of agricultural and horticultural machinery:   Imports:   Value   (1,000 dollars)	Commodity area :	1980	1981	1982	:Percent :Change : from
(1,000 dollars)————————————————————————————————————		£	(2)	(3)	: (2) to : (3) : (4)
(1,000 dollars)————————————————————————————————————	of agricultural and horticultural			·	
(1,000 dollars)	(1,000	218,049	185,252	154,610	-17
(1,000 dollars)————————————————————————————————————	(1,000 dollars) and parts thereof	284,314:	309,760:	265,970	- 14 - 4
for preparing and manufacturing food	(1,000	6,712:	12, 168:	20,047	. 65
nery for use parts thereof indeparts thereof ind	(1,000 dollars)for preparing and manufacturing food	140,489:	133,005:	120,468	61
alue (1,000 dollars)	nd parts thereof use in the manufacture of thereof	•• •• ••	•		
and poultry packing plant machinery and south poultry packing plant machinery and south packing plant machinery and south south packing plant machinery and south south south packing plant machinery and parts (1,000 dollars)————————————————————————————————————	(1,000	4,954:	5,956;	2,658	-55
(1,000 dollars)	oorts: Jalue (1,000 dollars) and poultry packing plant machinery equipment and parts thereof	33,821:	48,888	41,514	
(1,000 dollars)	(1,000	12,941:	11,726	14,591	24
(1,000 dollars)	(1,000 dollars) and grain mill machinery and f	75,344:	76,709	69,563	6 1
(1,000 dollars)	(1,000	660'9	7,390	5,305	-28
(1,000 dollars)	0 m	35,848:	39,609:	36,321	€
(1,000 dollars)	(1,000	16,198:	17,649:	20,654	17
(1,000 dollars)	(1,000 dollars)	35,815:	45,378	46,719	
(1,000 dollars) 48,600: 65,697:	(1,000	8,114:	7,040	8,040	14
	(1,000	48,600:	65,697:	56,073	- 15

Table 21.--Annual data on U.S. imports and exports for selected commodity groups

Commodity area :	1980	1981	1982	:Percent :Change : from
		: (2) :	(3)	(2) to (3) (4)
Miscellaneous machinery for preparing and manufacturing food or drink, and parts thereof			• • • • •	
	50,068;	60,272:	58,511:	13
Exports: Value (1,000 dollars)	128,014:	150,270:	139,698:	-7
printing machinery  Machines for making cellulosic pulp, paper, or : paperboard; machines for processing or : finishing pulp, paper, or paperboard, or making them into articles; and parts thereof :			• • • • •	
(1,000 dollars)	232,265	253,736	198,711:	-22
Exports:  Value (1,000 dollars) Printing trades machinery, other than for textiles, and parts thereof	311,227:	341,300:	301,416:	- 12
Imports: Value (1,000 dollars)	353,738:	383,980:	436,885	14
Exports: Value (1,000 dollars) Duplicating machines and parts thereof	630,960:	728,668:	599,679	1 8
Imports: (1,000 dollars)	19,714:	23,974:	20,227	- 16
Value (1,000 dollars)	82,424:	82,968:	65,730	-21
Imports: Value (1,000 dollars)	9,052	9,503;	7,488	-21
Exports: Value (1,000 dollars)Textile machines; laundry and dry-cleaning machines	12, 157:	16,424:	15,615	in I
Machines for extruding or drawing man-made textile filaments	••	** ** *		
Imports: Quantity (units)	194: 4,638:	1,890:	31:	-83 -28
Exports: Quantity (units)	219:	249:	1,281:	-76 -81

Table 21.--Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	1982	:Percent :Change : from
	<b>:</b>	(2)	(3)	(2) to (3) (4)
Textile yarn-producing machinery	•••••		•• •• •	
Andress (units)	6,395:	5,599:	6,960:	24
exports: Quantity (units)	2,811:	2,386: 29,249:	1,862: 21,947:	-22
ם ו	9,567: 51,103:	2,237: 37,480:	7,628: 36,635:	241
exports: Quantity (units)	4,657:	3,073:	1,491:	-51 -53
Imports: Quantity (units)	64,861:	65,295: 199,998:	95,710: 196,002:	47
Cyports: Value (1,000 dollars)	1,171:	1,149:	871: 6,031:	-24 -35
Imports: Quantity (units)	13,626:	15,980: 50,200:	18,922: 42,365:	18 - 16
cxports:     Quantity (units)	3,265:	2,760:	2,707:	-25
Imports: Quantity (units)	1,321:	1,949: 15,876:	4,442: 11,958:	128 -25
exports: Quantity (units)	2,402:	2,170:12,921:	9,6312	-40 -25
ts: htity (units) be (1,000 dollars)	5,335:	; 5,855;	4,732:	-19
Value (1,000 dollars)	6,922:	9,070:	6,003:	-34

Table 21.--Annual data on U.S. imports and exports for selected commodity groups

Commodity area :	1980	1981	1982	:Percent :Change
	Ξ	(5)	(3)	(2) to (3) (4)
Household and commercial laundry equipment and : parts thereof :				
imports: Value (1,000 dollars)	40,807	37,557:	42,034	12
Exports: Value (1,000 dollars)	196,067:	207,971:	175,064	1 6
Yalue (1,000 dollars)	45,633:	40,523:	25,312	-38
Value (1,000 dollars)	28,755:	31,708:	21,442	-32
Imports: Quantity (units)	2,089: 2,405:	3,021:	3,303	50
Value (1,000 dollars)	20,363:31,704:	16, 122: 24,828:	12,146:21,667:	135
imports: Value (1,000 dollars)	183,978:	184, 188:	167,324	6-
Value (1,000 dollars): Cordage machines and parts thereof:	167,572:	153,612:	139,683	6
tγ	6,315:	8,660:	12,345	43
Quantity (units)		8,286::	9,244	0.5
Imports: Value (1,000 dollars)	234,806	267,415	258,470	'n
Value (1,000 dollars)	145,607:	139,431:	118,580	- 15

Table 21.--Annual data on U.S. imports and exports for selected commodity groups

	Commodity area	1980	1981	1982	Percent Change from
	•• •• ••	(1)	: (2) :	(3)	(2) to (3) (4)
Converters and pa	ers, ingot molds, and casting machines, instacting thereof				
Imports: Value	(1,000 dollars)	54,198;	34,287:	85,511	149
Exports: Value Metal rolli	(1,000 dollars)	93,380:	109,861:	83,409	-24
Imports: Value	(1,000 dollars)	59,490:	60,024:	47,242	-21
Exports: Value Metalworki	(1,000 dollars)ing machine tools and parts thereof	199,883:	185,294:	134,619	-27
Imports: Value	(1,000 dollars)	1,518,832:	1,726,143:	1,497,496	-13
Exports: Value Non-metalv	Exports: Value (1,000 dollars)	1,093,598:	1,453,066:	1,010,855	-30
Imports: Value	(1,000 dollars)	117,698:	151,361	146,642	٤,
Exports: Value Tool holders	(1,000 dollars)	257,859:	308,099	247,951	-20
Imports: Value	(1,000 dollars)	55, 184:	: 55,794:	51,568	∞,
Exports: Value (1, Nonelectrically thereof	(1,000 dollars)ically powered hand tools and parts	179,316:	165,684:	147,558	<u>-</u>
ທີ່ຜ	(1,000 dollars)	249,634	231,166	214,703	-1
Exports: Value Gas-operated	: (1,000 dollars)	414,775:	387,795	277,837	-58
thereof Imports:		9.857:	10.073:	6.576	ا بر
	(1,800	68,056:	84,539:	73,754	-13
Uttice machi Imports: Value	. (1,000 dollars)	2,870,513	3,492,997	4,233,768	2 5
exports. Value	(1,000 dollars)	8,620,469:	9,722,108:	10,136,657	4

Table 21.--Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	1982	:Percent :Change : from
• • • • •	: E	(2)	(3)	(2) to (3) (4)
Typewriters not incorporating a calculating : mechanism :			•• •• ••	
	2,391:	2,210:	1,922: 363,898:	្ត ឆ្កិស
Exports: Quantity (1,000 units)	166: 154,416:	211,163:	162: 176,227:	-19
Imports: Quantity (1,000 units)	2,374: 345,565:	2,186: 326,214:	1,862:	- 15 - 3
Exports: Quantity (1,000 units)	130:	150: 39, 581:	32,922:	-29
Imports: Quantity (1,000 units)	17:	19,325:	60:	157
Exports: Quantity (1,000 units)	36: 127,932:	171,581:	143,304:	111
	717: 552,595:	1,133: 692,400:	2,195:	94
Exports:  Quantity (1,000 units)	332: 1,938,091:	280: 2,016,134:	378: 2,041,817:	35
Imports: Value (1,000 dollars)	369,321:	316,882:	271,880:	-14
Exports: Value (1,000 dollars)	51,213:	34,710:	36,253:	4
Imports: Quantity (1,000 units)	23,423:	22,333:	21,331:	-4 -15
Exports: Quantity (1,000 units)	678: 28,947:	470: 17,626:	529:	13 26

Calculating machines, except hand-held or pocket type calculators, employing solid-state circuitry in the calculating mechanism mechanism luports:  Quantity (1,000 units)	0 3 0 00	(3) 6,794: 154,120: 31: 14,076: 556,690: 556,690:	(2) to (3) (4) (4) -7 -13 -13 -18 -18
ines, except hand-held or : calculators, employing : calculators, employing : calculating : calculation : calculating : calculat		6,794: 154,120: 31: 14,076: 556,690: 556,690:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
000 units)		6,794: 154,120: 31: 14,076: 14,076: 556,690: 556,690:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
103: 000 units)	103: ,265: 17 332: ,109: ,850: 127	31: 14,076: 450: 556;690: 170,126:	11 101 102 103 104 104 104 104 104 104 104 104 104 104
0 units)	332; ,109; 588, 207; ,850; 127,	769	1 k
0 units)	207: ,850: 127, :	25	
dollars)			
(1,000 dollars)	13,280: 14,473:	16,328	13
y, clusting, grinding, or mixing I substances in solid form, and part f	20,680: 24,593:	20,585:	- 16
		• •• •• •	
Value (1,000 dollars) 90,422:	90,422: 93,704:	75,350:	-20
(1,000 dollars)		340,873:	-27
Imports: Value (1,000 dollars) 31,825: Events:	31,825; 22,635;	20,569:	6-1
Value (1,000 dollars)	96,515: 96,721:	100,495:	4
(1,000 dollars) 219,684:	219,684: 226,760: :	179,106:	-21
(1,000 dollars) 332,465:	332,465: 349,893: :	308,121:	- 12

Table 21.--Annual data on U.S. imports and exports for selected commodity groups

	1980 :	1981 :	1982	rercent :Change : from
	••••••••••••••••••••••••••••••••••••••	(2)	(3)	(2) to (3) (4)
Automatic vending machines and parts thereof		# # 2 # # # 2 # 1 # # 1 # 2 # 2 # # 1 # 2 # 2 # # 1 # 2 # 2 # 2 # # 2 # 2 # 2 # 2 # 2 # 2 # 2 # 2 # 2 # 2		affect on a fi
Value (1,000 dollars)	9,824:	10,891:	8,813	- 19
Exports:  Value  Value  Tobacco leaf stripping or cutting machines;  industrial cigar- or cigarette-making  machines and parts thereof	43,427:	48, 109	46, 173	4
Value (1,000 dollars)	46,391:	40,335:	63, 165	57
Exports: Value (1,000 dollars)	23,618:	39,221:	24,802	-37
Value (1,000 dollars)	565,506:	577, 159:	695,139	20
(1,000 dollars):: hines molds	1,415,170:	1,593,255:	1,536,238	
	131,109:	138,560:	148,542	7
Exports: Value (1,000 dollars)	119,897:	159,841:	148,842	-7
Quantity (units)	7,362: 2,706:	2,034:	6,161:	203
Quantity (units)	1,586:	1,506:	1,250	-35
Value (1,000 dollars)	460,042:	590,306:	605,407	m
Antifriction balls and rollers and ball and :  Imports:	829, 193;	936,027:	854,400	6 1
Value (1,000 dollars)	479,512:	476,822:	452,372	. : .
Value (1,000 dollars)	343,026:	353,774:	283,372	-20

Table 21.--Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	1982 :	: Percent
	•••••	·· ·· ·		from (2) to
	3	(2)	(3)	(4)
Forged steel grinding balls	•• ••	•	••••	
Imports: Quantity (1,000 pounds)	21,392:	18, 189: 4, 153:	7,603:	- 158 - 158
y (1,000 pounds)y	55,639:	76,047:	63,910:	-16
Value (1,000 dollars)	14,978	20,240	15,939. :	12-
riable ratio couplings; t			· ··	
chain sprockets; clutches; and universal joints; and parts thereof	•• •• •	•• •• •	•• •• •	
ທີ່	194,281:	264,033:	212,383:	-20
Exports: Value (1,000 dollars)	305,335:	326,408:	278,255:	- 15
(1,000	67,393:	78,623:	89,307	14
s: e (1,000 dol	160,154:	189, 176:	178,454:	9-
ach	•• ••			
equipment Tmoorts:	•• ••			
Value (1,000 dollars)	841,566:	1,005,042:	1,061,997:	•
	1,477,654:	1,774,312:	1,646,898:	-7
Imports:  Value (1,000 units)	70,316:	106,470:	130,643:	23
ty (1,000 cm (1,000 denerator	165,835:	8,048: 162,215:	4,835: 165,571:	140
	335,946:	416,034:	406,701:	-2
Exports: Value (1,000 dollars)	824,038:	1,016,921:	903,489:	-1
		•	***************************************	

Table 21.--Annual data on U.S. imports and exports for selected commodity groups

Commodity area :	1980	1981	1982	:Percent :Change : from
	 E	. (2)	(3)	(2) to (3) (4)
Generator sets :		••		
Imports: Quantity (1,000 units)	590:	860: 39,522:	464:	1
Exports: Quantity (1,000 units)	90: 420,933:	91: 554,366:	513 474,573	1 1
(1,00	59,634:	70,723:	60,739	- 14
Exports: Value (1,000 dollars)	29,395:	32,091:	25,337	-2
Imports: Value (1,000 dollars)	166,028:	195, 127:	214,345	
Exports: Value (1,000 dollars)	270,538:	336,510:	275,678	1 1
ts: ue (1,	105,031:	116,486:	124,822	
Exports: Value (1,000 dollars)	127,587:	178,179:	150,294:	1
00 do1	79,509:	87,429:	91,958:	
Exports: Value (1,000 dollars)	141,417:	133,430:	89,079	κ κ
thereof Imports: Value (1,000 dollars)	13,630:	19,880:	25,914	ĸ
Exports: Value (1,000 dollars)Electromechanical household appliances and parts:	114,859:	119,494:	84,768	-53
thereof Imports: Value (1,000 dollars)	69,591:	87,940:	89,586	
Exports: Value (1,000 dollars)	94,830:	97,682:	81,955	- 16
Imports: Value (1,000 dollars)	59,544:	51,638:	65,714:	27
Exports:	. 377 21	14 148	12 681	ï

able 21.--Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	1982 : (	:Percent :Change : from
			33	(2) to (3) (4)
_	••	••	•• ••	
Imports: Value (1,000 dollars)	199,582:	217,851:	206,291	ı,
ម ២	259,746:	297,270:	257,386:	-13
מ מו	56, 174:	52,399:	59,303:	13
2	21,632:	25,412:	23, 194:	61
Value (1,000 dollars)	14,728:	13,534:	14,170:	ιΩ
Exports:  Value (1,000 dollars)  Electric furnaces and ovens, welding, brazing, including addipment :	18,023:	19,077:	13,059:	-32
Impores: (1,000 dollars)	158,528	123,667:	107,579:	- 13
Exports.  Value (1,000 dollars) Electrothermic household appliances, other than :  cocking stoves and ranges, furnaces, heaters,: anc ovens; and parts thereof	355,000:	397,705:	337,675:	- 15
Imports: Value (1,000 dollars)	282,571:	284,073	313,635	- 0
Exports: Value (1,000 dollars)	165,672:	186,059:	141,968:	-24
Imports: (1,000 dollars)	245,828:	329,042:	297,034	- 10
Exports: Value (1,000 dollars)	117,021:	128,983:	125,827:	2
Imports: (1,000 dollars)	32,576	43,077:	51,320:	19
Value (1,000 dollars)	28,245:	27,942:	26,065:	-7

(2) to (3) (4) -25 Percent Change from 27 27 45 109 6 -20 0 -7 -43 5,453: 267,681: 475,604: 7,745,610: 790,335: 59,348: 305:24,258 1,253,842 626,335 167,618 211,230 2,094,305 220,578 829, 144 378,903 832,897 Table 21. -- Annual data on U.S. imports and exports for selected commodity groups 1982 (3) 2,607: 405: 26,812: 63,666 742,713 494,570 261,254 520,681 264,028 7,650,835 243,134 825,115 389,811 1,079,876 653,215 151,023 2,232,765 1981 (5) 580,049: 860,900: 645,201: 294,548: 2,303 421: 23,938: 131,829: 63,375 413,905 420,647 557,039 189, 165 5,762,705 436,023 187,718 1,982,842 1980 3 Microphones, loudspeakers, and related equipment (1,000 dollars)-------Radiotelegraphic and radiotelephonic apparatus and related equipment Quantity (1,000 units)-----Value (1,000 dollars)---(1,000 dollars)---(1,000 dollars)----Telephone and telegraph apparatus (1,000 dollars)-(1,000 dollars)-(1,000 dollars)---Quantity (1,000 units)--Value (1,000 dollars) (1,000 dollars)--(1,000 dollars)--(1,000 dollars)--(1,000 dollars)--(1,000 dollars) --(1,000 dollars)-Commodity area Radio receivers and parts Telephone instruments Television apparatus Television receivers Television cameras Exports: Exports: Exports: Imports: Imports: Value Value Value Value Value Exports: Exports: Imports: Imports: Value Value Value Exports: Exports: Imports: Imports: Value Value Value Value

Table 21. -- Annual data on U.S. imports and exports for selected commodity groups

Automobile radio receivers    Januarity (1,000 units)	Commodity area :	1980	1981	1982	Percent Change from
Automobile radio receivers  Automobile radio receivers  Yalue (1,000 dollars)				(3)	(2) to (3) (4)
Imports   System	radio receiver				
Exports:	ty (1,000 units)	3,314:	3,517:	3,597:	8
Exports:  Quantity (1,000 units)	(1,000	100,227:	129,040:	154,874:	20
Value (1,000 dollars)	ky (1,000 units)		774:	758:	-2
automobile type    Januari	(1,000 dollars)	•	72,617:	: 1,56,17	ī
Use (1,000 dollars)	obile type			••	
Exports:  Exports:  (1,000 dollars)	ty (1,000 units)	29,875:	33,526:	33,762:	-
Value (1,000 units)————————————————————————————————————	(1,000 dollars)	486,521:	550,249:	544,975:	-
Value (1,000 dollars)	ity (1,000 units)		564:	416:	-26
100   100	e (1,000 dollars)	·	19,764:	12,728:	-36
Quantity (1,000 units)       3,844;       5,154;         Value (1,000 dollars)       268;       241;         Quantity (1,000 units)       268;       241;         Value (1,000 dollars)       238,037;       276,219;         Value (1,000 dollars)       240,130;       272,381;         Value (1,000 dollars)       240,130;       272,381;         Value (1,000 dollars)       75,718;       58,022;         Palue (1,000 dollars)       1,632,333;       2,496,531;         Palue (1,000 dollars)       257,437;       297,865;         Rachines (1,000 dollars)       1,632,333;       2,496,531;         Palue (1,000 dollars)       257,437;       297,865;	ranscervers   Tanscrts:	• ••	• ••		
Value       (1,000 dollars)	ty (1,000	3,844:	5, 154:	4,635:	10
Quantity (1,000 units)       268:       241:         Value (1,000 dollars)       238,037:       276,219:         Ind payers, phonographs, record changers, and turntables, and parts thereof       260,130:       272,381:         Moorts: (1,000 dollars)       240,130:       272,381:         Value (1,000 dollars)       75,718:       58,022:         Palue (1,000 dollars)       1,632,333:       2,496,531:         Value (1,000 dollars)       257,437:       297,865:         Value (1,000 dollars)       85,167:       173,676:         Introl apparatus and parts thereof       85,167:       173,676:         Introl apparatus and parts thereof       85,167:       173,676:         Inte: (1,000 dollars)       619,123:       614,866:	(1,000	130,337:	171,024:	162,643:	
Value (1,000 dollars)	(1.000 units)	268:	241:	192:	-20
and turntables, phonographs, record changers, and turntables, and parts thereof and turntables, and parts thereof and turntables, and parts thereof and turntables, and dictation are corders, tape players, and dictation are corders, tape players, and dictation are corders (1,000 dollars)	lue (1,000 dollars)	238,037:	vo	287,238:	4
and turntables, and parts thereof.  aports: (1,000 dollars)	players, phonographs,	•••	•••		
Palue (1,000 dollars)	rntables, and parts		• • •		
<pre>cports:     (1,000 dollars)</pre>	(1,000 dollars)	240,130:		187,514:	-31
machines machines machines machines nports: Value (1,000 dollars)	(1.000 dollars)		58.022:	0.36	-30
machines nports: Value (1,000 dollars)	, tape players, and		••		
ports: (1,000 dollars)	machines	•••	••	••	
<pre>cports:     (1,000 dollars)</pre>	(1,000			2,522,000:	-
value (1,000 dollars) 619,123: 614,866: 623,93		: 257 637	397.865	369.317	- 1
introl apparatus and parts thereof:  ints: ilue (1,000 dollars)	value (1,000 dollars)- navidational, radar, and				2
(1,000 dollars)	ontrol apparatus and parts		••*		
: (1,000 dollars)	(1,000	85, 167:	173,676:	125,224:	-28
: : : : : : : : : : : : : : : : : : :	. (1.000 20]]	619.123:	614.866:	23.93	
	ard Cooking and a				

--Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	1982	:Percent :Change : from
	£		(3)	(2) to (3) (4)
Radar				,
Imports: Value (1,000 dollars)	31,679:	80,046	55,452	<b>N</b> -
Exports: Value (1,000 dollars)	356,898:	404,333:	411,112:	
,000 dollars)	185,887:	217,338:	226,504	
	256,426:	271,215:	263,833	1
(1,00	271,674:	: 287,712:	288,765	
Exports: Value (1,000 dollars)	233,451:	203,960:	209,208	
Imports: Quantity (1,000 units)	521,242: 48,315:	745,400:	824,833	<b>-</b>
Exports: Quantity (1,000 units)	13,662: 11,589:	9,236:	9,626	
; :ity (1,000 units) : (1,000 dollars)	323,489: 45,713:	280,790:	205,439	-27
Exports:     Quantity (1,000 units)	137,527: 77,907:	103,570: 60,686:	100,202	777
155: 15: 14: ty (1,000	2,221,290: 90,089:	2,995,450:	3,393,271	
Exports: Quantity (1,000 units)	383,683: 71,795:	515,541:	699,761	Ř
Imports: Value (1,000 dollars)	958,289	1,108,528:	1,180,778	
Exports:	1 400 001:	1 800 266:	1.798.117	Ĭ

Table 21.--Annual data on U.S. imports and exports for selected commodity groups

Commodity area		1980	1981	1982	:Percent :Change : from
			(2)	(3)	(2) to (3) (4)
Electrical switches and relays Circuit breakers		100 TO 60 C		•• •• ••	
ξ Ω;		16,573:	20,986:	17,599:	-16
Exports: Quantity (1,000 units)		31,313: 162,672:	37,519:	31,229:	-17
		408,643: 203,063:	454,675: 236,009:	408,124: 232,982:	1-10
exports: Quantity (1,000 units)	1 1 1 1 1 1 1 1	199,024:	223, 113: 261,230:	174,532: 256,555:	122
Imports: Quantity (1,000 units)		66,825: 10,781:	94,984: 12,605:	87,946: 11,566:	7-7-8-
Connectors (1,000 dollars)		35,682:	37,700:	38,334:	100
		702,785: 128,446:	1,215,981:	1,198,407: 167,640:	. 17
Quantity (1,000 units)		739,670: 268,944:	825,588:	591,046: 258,098:	-28 -6
Auantity (1,000 units)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	501:	704:	423: 17,146:	-40 50
Quantity (1,000 units)		71,063:	118: 87,689:	110:	21
Imports: Quantity (1,000 units)		1,935: 6,364:	2,650: 9,317:	1,447: 8,240:	-45 -12
Quantity (1,000 units)		1,664:	2,294:	1,562: 21,768:	-32

Table 21. -- Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	1982	Percent Change
		(5)	(3)	: (2) to : (3) : (4)
Electrical resistors :				
	: 166, 197:	179,185:	185,691	
Exports: Value (1,000 dollars)	142,173:	134,810:	139,305	м 
Imports: Value (1,000 dollars)	94,851:	101,981:	98,417	
exports: Value (1,000 dollars): Carbon composition resistors	81,025:	82,147:	86,528	
Imports: Quantity (1,000 units)	1,246,133:	1,083,355:	961,760	11-1
Exports. Quantity (1,000 units)	250,686: 12,656:	138,642: 9,950:	67,276 7,794	-51
Imports: Quantity (1,000 units)	5, 183,802: 42,745:	6,519,207: 49,565:	6,145,622	
Exports: Quantity (1,000 units)	95,952: 14,360:	111, 168: 13,815:	104, 134 18, 099	31
Imports: Quantity (1,000 units)	47,821:	59,062: 6,534:	144,132	144
Exports:     Quantity (1,000 units)	36,286: 7,826:	35,416: 6,506:	41,122	 6
Imports: Value (1,000 dollars)	19,606:	17,622:	16,950	4-1
exports: Value (1,000 dollars): Electric lamps	32,108:	35,381:	39,782	12
Imports: Sylve (1,000 dollars)	163,029:	175,624:	187,876	7
Value (1,000 dollars)	192,148:	164,770:	155,328	9-

Table 21.--Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	1982	Percent Change from
	£	(2)	(3)	(2) to (3) (4)
Electronic tubes (except x-ray)	•••	••	••	
(1,00	203,805	: 251,027:	200,651	-20
Exports: Value (1,000 dollars)Television nicture tubes	293,407:	290,404:	247,582:	- 15
(1,000	43,802	68,275	51,795:	-24
5 0 0	87,641:	64,022:	26,330:	-59
)	3,348,107:	3,617,583:	4,205,115:	16
Exports: Value (1,000 dollars): Transistors	3,477,234:	3,606,979:	3,821,714:	9
Imports: Quantity (1,000 units)	: 1,797,594: 208,988:	1,927,192:	1,922,484: 259,661:	00
Exports:     Quantity (1,000 units)	243,542: 95,216:	222,450: 87,338:	173,627: 81,764:	122
2,	2,756,514:	2,952,690	3,461,332:	17
Exports: Value (1,000 dollars) Electrical conductors	833,475:	768,411:	836,260:	<b>6</b> `
Imports: Value (1,000 dollars)	430,231	532,077:	545,457:	m <sub>.</sub>
Exports: Value (1,000 dollars)	411,098	594,396	559,005:	9-
Imports: Value (1,000 dollars)	269,928:	318,901	525,906:	65
Exports: Value (1,000 dollars)Rail locomotives and rolling stock	833,499:	946,498:	994,037:	ľ
oorts Value	458,362:	226,357	117,990:	-48
Exports: Value (1,000 dollars)	452,255:	487,828:	432,519:	=
	•	•	•	

Commodity area	1980	1981	1982	:Percent :Change : from
	(1)	(2)	(3)	(2) to (3) (4)
Motor vehicles Automobile trucks and truck tractors				٠.
S T U	331,273:	721,633:	682,460 4,130,020	in o
Exports: Quantity (units)	154,298:	134,799: 2,073,687:	102,642	124
orts: Janti	11,468: 180,024:	16,088:	14,651 249,320	-20
Exports: Quantity (units)	3,530:	3,400:	3,309	1 - 1 - 1 - 1 - 1
Imports: Quantity (units)	3,315,764:	3,003,368:	3,076,647	24
Exports: Quantity (units)	631,880: 3,995,615:	563, 195: 3, 996, 144:	390,089 2,922,853	-31
Imports: Quantity (units)	39,202: 58,074:	27,940: 41,466:	32,986 52,212	18
Exports: Quantity (units)	15,098: 21,099:	10,834:	7,236	-33
Quantity (units)	150, 183	289,944:	327,456	13.0
Exports: Quantity (units)	17, 135:	15,857:	10,011 932,742	-37
0 + 0	794,346:	106,840: 493,647:	45,094 497,275	1.58
exports: Quantity (units)	95,403:	100,323:553,697:	69,158	-31

Table 21. -- Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	1: 1982 : (	:Percent :Change : from
	 E	(2)		(2) to (3) (4)
Motor vehicle parts, except bodies and chassis :			•• ••	
Imports: Value (1,000 dollars)	2,910,049:	3,226,616:	3,550,177	10
Exports: Value (1,000 dollars)	5,651,633:	6,936,538:	6,663,116:	4-
Imports: Value (1,000 dollars)	1,087,502:	991,501:	785,446:	-21
Value (1,000 dollars)	3,281,851:	3,582,805	2,417,663:	-33
Including parts Imports: Value (1,000 dollars)	140,903:	192,906:	152,083:	-21
(1,000 ther self	437,773:	452,994:	305,583:	, , , , , , , , , , , , , , , , , , ,
Imports: Value (1,000 dollars)	2,972:	17,725:	23,042:	30
Exports: Value (1,000 dollars)	450,389: :	743, 156: :	1, 125,065:	5
Imports: Value (1,000 dollars)	1,257,279	1,342,241:	1,120,482:	-17
Exports: Value (1,000 dollars)	91,737	77,013:	87,535:	14
Imports: Value (1,000 dollars)	18,758:	22,970	46,536	103
Exports: Value (1,000 dollars)	226,502:	241,978:	194,515:	-20
Imports: Value (1,000 dollars)	1,908,118:	2,585,931:	2,481,131:	4-
	12,771,443:	14,621,380:	11,645,736:	-20
Quant Value	634: 968,009:	805: 1,377,907:	741:	-8 -16
7 & >	4,896: 9,170,145:	4,334:	2,194: 7,121,361:	-49 -30

Table 21.--Annual data on U.S. imports and exports for selected commodity groups

Commodity area :	1980	1981	1982	:Percent :Change : from
	 E	(2)	(3)	: (2) to : (3) : (4)
Pleasure boats; floating structures		•••		
Exports: (1,000 dollars)	182,273:	251,773:	254,397	
Value (1,000 dollars)	356,721:	702,765:	941,399:	34.
Imports: Value (1,000 dollars)	162,341:	199,973:	183,986:	: -5
Value (1,000 dollars)	262,051	295,574:	327,726	

Table 22.--Summary of trade-monitoring gates triggered for selected commodity groups, 1982

Exports		
	01 00	
		•• •• •• ••
Imports		
	(01) (01) (04) 07 (01) (01) (01) (01) (01) (01) (01) (01)	·
Commodity area :		mackinery; earth-moving and mining machinery :     Mechamical shovels, coal-cutters, excavators, :     scrapers, bulldozers, and excavating, :     levelling, boring, and extracting machinery:     other than elevators, winches, cranes, and :

Table 22.--Summary of trade-monitoring gates triggered for selected commodity groups, 1982

Exports					09 10	
	0 2				(07) 09 10	07
	(04)	0			(04) (04) (04) (07)	(04)
	100 (100)	60		(01)	55555	(10)
	·· ·· ·· · · · · · · · · · · · · · ·		·· ·· ·· ·· ·· ·· ·· ··		· · · · · · · · · · · · · · · · · · ·	
Imports						
Imi	2 .			•	60	2
	(04) (07)	9 10			45 07 25 07	4 (07)
			2	2 2	(07	. 04
<i>.</i> .			5 	(01)		
Commodity area	related machinery and parts thereof Drilling and boring machinery	Parts of agricultural and horticultural machinery————————————————————————————————————	thereof	00 4 1 5 1 1 5	Textile machines; laundry and dry-cleaning machines; sewing machines  Machines for extruding or drawing man-made textile filaments————————————————————————————————————	ngs, f It and abrics ng fel

Table 22.--Summary of trade-monitoring gates triggered for selected commodity groups, 1982

Table 22.--Summary of trade-monitoring gates triggered for selected commodity groups, 1982

	Commodity area :			Imports				Exports
G1z Mo1 Aut	mineral substances in solid form, and parts: thereof	(81)				(01)		
Tor Parts	Tobacco leaf stripping or cutting machines; industrial cigar or cigarette-making machines and parts thereof	100	60			(01) 10	_	
Mol Tap	Molders' patterns for manufacture of castings: Taps, cocks, valves, and similar devices and sparts thereof used to control the flow of sliquids, cases or solids	(01)	) 50	(2)	· · · · · ·	(01) (04)	(20)	
Ant For Gea	balls and rollers arings and parts- grinding balls d other speed cha or variable rati	(10)	(04)			(01) (01) (04)	60 (	
Mis Elect Mot	torque s; clutche s thereof- r nt rs, and re	(01)						
<b>⊢</b> Σ	rangformers	90			•• •• •	(04) 07		
E G	devices	(04)	0.2	·		(04) 07 (01)		
Por Vac	Portable electric hand tools	10				(10)		
Ele Ele Por	s, and sci	0 1				(01)		
Ele Ele	Electric furnaces and ovens, welding, brazing, : induction and dielectric heating equipment-: Electrothermic household appliances, other than: cooking stoves and ranges, furnaces,	60			·· ·· ·· ··			

Table 22.--Summary of trade-monitoring gates triggered for selected commodity groups, 1982

: : : :	(01) 01 01 04) 07 (01)	(01) (04) (04) 07 10 (01) (04)		(04) 07 (04) 07 (04) 07 (04) 07 (04) 07	(01) (05) 08 09 01 08 : (01) 09
Imports	09 01 04 (07) 09	01 09 (04) 09 (01)	(01) (01) (01) (05) 09	(04) 09 (04) 07 09 (04) 07 09 (04) 07 09	05 (08) 09 (01) (01)
Commodity area	heaters, and ovens; and parts thereof Electric cooking stoves and ranges and parts thereof	Radio receivers and parts————————————————————————————————————	s and parts thereo isual signalling a s	and relays n circuit breakers creation and the contactors	Fixed resistors———————————————————————————————————

Table 22.--Summary of trade-monitoring gates triggered for selected commodity groups, 1982

Exports	07		(04) (02)	(04)			(05) 07 10
	(04)		5 00			60 00	.: (05) .: (05)
Imports		60	40	20		60	
		5	01)	04)	3 6 6		
Commodity area :	Semiconductors	                         	Automobile trucks and truck tractors	Special purpose motor vehicles	iractors, including parts	vehicles, including parts	Aircraft and spacecraft, including parts

## Miscellaneous Manufactures 1/

In 1982, U.S. trade in miscellaneous manufactures registered a surplus of \$1.16 billion, down 28 percent from the surplus of \$1.60 billion in 1981 (table 23, fig. 9). This percentage decline, greater than the 25-percent decrease in 1981 over 1980, reflects a continued deteriorating trend in the trade balance since the beginning of 1981, and a deficit in the third quarter of 1982. Aggregate exports in this sector increased from \$14.9 billion in 1981 to \$15.3 billion in 1982, or by 3 percent, whereas aggregate imports increased from \$13.3 billion to \$14.1 billion, or by 6 percent.

Scientific instruments and similar apparatus continued to register a substantial surplus in 1982 of \$3.7 billion, the same as in 1981. The surplus in medical, surgical, and X-ray instruments and apparatus also remained relatively unchanged at \$1.3 billion in 1982. Photographic equipment and supplies recorded a 20-percent decrease in the trade surplus from \$599 million in 1981 to \$479 million in 1982.

Some of the commodity groups that registered significant increases in the trade deficits from 1981 to 1982 were the following: games, up from \$321 million to \$783 million, or 244 percent; jewelry, up from \$807 million to \$980 million, or 21 percent; dolls, toys and models, up from \$572 million to \$793 million, or 39 percent; furniture, mattresses, pillows, and similar furnishings, up from \$606 million to \$775 million, or 28 percent; musical instruments and parts, up from \$61 million to \$145 million, or by 138 percent.

Commodities showing reductions in trade deficits included bicycles and parts, down 36 percent to \$197 million in 1982, and watches and clocks, down 21 percent to \$868 million in 1982.

## U.S. bilateral trade

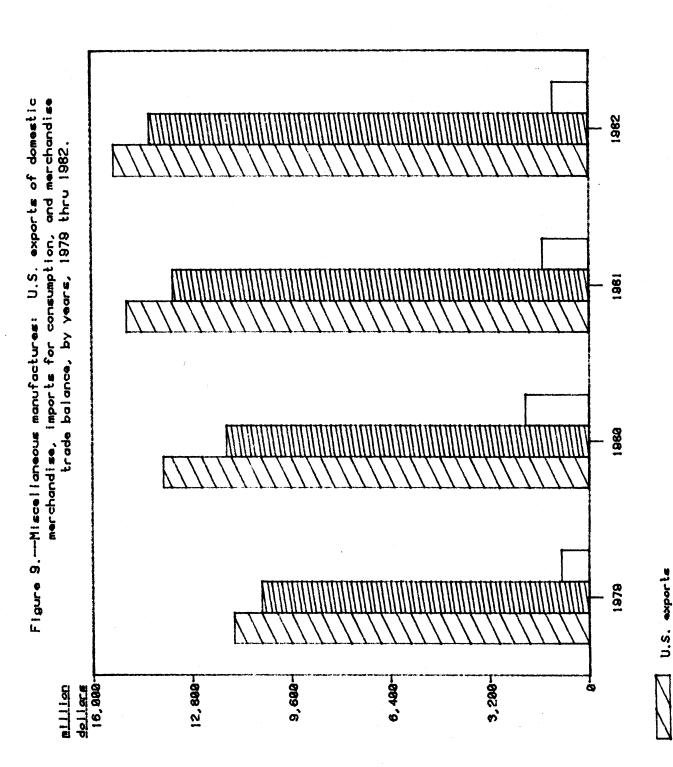
The United States showed no major shifts in the 1981-82 period with its bilateral trade partners. The one most significant trading partner of the United States in the miscellaneous manufactured goods sector was the European Community. It was the major market for exports in 1981 and 1982, and our major import source in 1982. Exports to the EC totaled \$4.3 billion in both 1981 and 1982. Exports to Canada, the second most important market, registered \$1.82 billion in 1982, down 7 percent from \$1.95 billion in 1981. Exports to Japan were stable at \$1.3 billion in both years.

On the import side, the EC supplied \$3.65 billion miscellaneous manufactured goods in 1982; this was an increase of 13 percent from \$3.27 billion in 1981 when it was second after Japan (at \$3.27 billion) as the most important import source for the United States. Taiwan, the third most significant source of imports in both 1981 and 1982, supplied a total value of \$1.7 billion and \$2.0 billion, respectively.

<sup>1/</sup> Included here are the commodities classified in the following portion of the Tariff Schedules of the United States: schedule 7 (specified products; miscellaneous and nonenumerated products) except pts. 1(a), 1(b),  $1(c^2)^{0.9}$  12, and 13(b).

Table 23.--Miscellaneous manufactures: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 1980, 1981, and 1982  $\underline{1/2}$ 

, tem	1980	1981	1982
	••	••	
U.S. exports of domestic merchandise:	••	••	
Canada	1,650,167 :	1,950,070 :	1.822.715
;Udir	1,181,821 :	1,319,070 :	1,308,938
;	4,184,505 :	4,306,552 :	A.293.352
Brazil:	172,313:	175,455 :	169.879
Hong Kong	206,870 :	231,219 :	225,313
India:	74,979 :	90.852 :	10.5 SOL
Korea	117.572 :	140,150	231 674
Hexico:	570.151 :	772.049 :	528.01.
Taiwan	190.450 :	227.855	216 540
OPEC	*877.979	1.123.14	1 230 531
NAES:	176.844	140,839	130,962,1 130,05E
China	56.501	70.881	83 430
All Other:	4.316.733	. 200107 A. A20. A92	001100 V
Total:	13,720,391 :	14.893.751 :	15, 290, 609
U.S. imports for consumption:	•		
Canada:	782,506:	894.870	225, 223
Japan:	2,618,878 :	3.265.445	810 011 6
	3,054,837	3.219.924	2 651 A7A
Brazil	54.190 :	54.487	57 201
Hong . Kong:	1.195.195 :	1.325.594	166116 ADC 808 L
India	19.894	26 360 .	001101111
Korea	572.854	636.805	100 t 7
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Talwan	1.363.988	1 202 868 .	350,056
OP8C	0 268	13 106	•
NARS	125 801	. 001.C1	045,212 041,000
	K7 843 .	. 000 411	100,100
A11 Other	1.A57.A93	1 631 791 .	PIK'CCI .
Total	11 582 188 .	12 207 302	11,(17,41
U.S. merchandise trade balance:		: 70/1/67167	14,132,980
Canada:	867.660 :	1.055.199	187
Japan	-1 A37 OSK ·	-1 050 124 ·	1 964 020
	1.129.668	1.086.627	KA1 878
Brezil	118,123	120,067	777 788
Hong Kong	-988.324	-1.094.374	1 007 803
India	55.084	64.497	6.00 ER
Korea	-455.281 :	-496.654	021.205-
Hex i co	241 963	412.450	208 461
Tallanda and a second a second and a second	-1.173.538 :	-1.476.012 .	107,002
	868.710	1,110,036	1 227 125
NHRS	50.952	-25.090 :	20 JAN 188
China	-11.352 :	- 63.919 •	-72 A8A
A11 Other	2.859.240	2.788.701	207 670 6
	2 137 202 ·	1 505 060 .	1 157 400
	. 7070./0107		74° / CT ° T



Compiled from official statistics of the U.S. Department of Connersos. U.S. trade balance Source

U.S. Imports

Canada.—The 1982 U.S. merchandise trade balance with Canada remained in favor of the United States, but declined by about 16 percent from a surplus of \$1.06 billion in 1981 to a surplus of \$887 million in 1982. U.S. imports from Canada were valued at \$895 million in 1981, and increased to \$936 million in 1982, whereas U.S. exports declined from \$1.95 billion in 1981 to \$1.82 billion in 1982. In terms of value, imports of furniture and scientific instruments accounted for \$615 million, or about 66 percent of miscellaneous manufactured imports from Canada in 1982. The major U.S. export items to Canada were scientific instruments, medical goods, and photographic equipment and supplies. These amounted to \$1.13 billion, or about 62 percent of the total value of all U.S. miscellaneous manufactured merchandise exported to Canada in 1982.

U.S. exports to Canada of scientific instruments and furniture declined by about 10 percent in 1982, at a time when U.S. imports of these products from Canada increased, resulting in an eroded U.S. surplus for 1982. The U.S. surplus in U.S.-Canadian bilateral trade of these items fell from \$289 million in 1981 to \$158 million in 1982, or by about 45 percent. The strength of the U.S. dollar was largely responsible for this decrease in the U.S. trade surplus of scientific instruments and furniture.

Japan.—The U.S. merchandise trade balance with Japan for miscellaneous manufactured goods improved by slightly more than 4 percent between 1981 and 1982, from a deficit of \$1.95 billion in 1981 to a \$1.86 billion deficit in 1982. U.S. imports from Japan were valued at \$3.27 billion in 1981 and declined to \$3.11 billion in 1982. U.S. exports to Japan exhibited a smaller decrease, falling from \$1.32 billion in 1981 to \$1.31 billion in 1982. Some of the major areas contributing to the 1982 trade deficit were photographic equipment and supplies (especially cameras) (\$614 million), game machines (\$275 million), horological devices (\$282 million), optical goods (\$320 million), and unrecorded magnetic recording media (\$230 million).

Imports demonstrated more volatile shifts in trading patterns than exports. Significant decreases in imports in four product areas helped reduce the U.S. trade deficit with Japan in 1982. Imports of horological devices declined from \$410 million in 1981 to \$284 million in 1982, or by about 31 percent. The growing worldwide trend toward increased competition in the low-priced end of the watch and clock market contributed significantly to this decrease as is indicated by the declines in average unit values. However, part of the explanation for the decrease can be laid to a reclassification of solid-state watches, clocks, and modules from the miscellaneous manufactures category into schedule 6 of the Tariff Schedules of the United States. A more significant trade shift was the 49-percent reduction in imports of bicycles and parts from \$176 million to \$90 million. This reflected a drop in the market for bicycles, as adults responded to the recession by postponing their purchases of lightweight models. Imports of cameras and enlargers fell from \$492 million to \$443 million, or by 10 percent, as consumer interest in motion-picture cameras continued its 5-year downward trend and retailers cut back on imports of 110 and 126 cameras in anticipation of heavy sales of the new disc format introduced by an American manufacturer early in 1982. Imports of optical lenses and elements (except ophthalmic lenses) also declined, from \$236 million to \$200 million. 212

Despite the overall reduction in imports from Japan in 1982, imports of three products did rise significantly. Chief among these was games, principally the arcade game Donkey Kong, home video games and cartridges, and other electronic games, which increased by 76 percent, from \$161 million to \$284 million. Japanese exports were boosted by creative game concepts, state-of-the-art capabilities in their electronics industry, and a strong U.S. market. Imports of unrecorded magnetic media advanced from \$226 million in 1981 to \$272 million in 1982, as the U.S. market for imports of consumer tape expanded due to a recent decision of a major domestic producer, to abandon the consumer tape market and concentrate its resources on the professional market. The rise in imports of equipment specially designed for photofinishing, from \$35 million to \$59 million, reflects the increased investment by photofinishers in mini-labs with capabilities of up to one hour photofinishing.

Significant shifts were rare on the export side of the trade ledger. Sporting goods, led by golf clubs, advanced 21 percent, from \$92 million to \$111 million. Exports of surgical and medical instruments, also in demand for their high quality, increased by 27 percent, from \$45 million to \$57 million.

<u>EC</u>.—Among the countries and groups discussed in the miscellaneous manufactures sector, the EC was the most important U.S. trading partner in 1982 for both imports and exports. The U.S. trade surplus with the EC decreased from \$1,087 million in 1981 to \$642 million in 1982. While U.S. exports of miscellaneous manufactured products decreased less than 1 percent, from \$4,307 million in 1981 to \$4,293 million in 1982, U.S. imports of such products increased for the same years from \$3,220 million to \$3,651 million, or by about 13 percent. In 1982, scientific instruments were by far the largest group of articles, valued at \$1,580 million, exported to the EC. Other important U.S. export items to the EC in 1982 included medical goods, \$799 million; photographic equipment and supplies, \$745 million; and recording media, \$489 million.

The most important shifts in export trade during 1981-82 between the United States and the EC were game machines and medical goods. U.S. exports of game machines to the EC decreased sharply from \$168 million in 1981 to \$114 million in 1982 mainly because of a declining market for arcade video game machines. Conversely, U.S. exports of medical goods to the EC increased substantially from \$706 million in 1981 to \$799 million in 1982. Reflecting the high quality of such goods, the export gains were registered in a large number of surgical and medical instruments and apparatus; orthopedic, prosthetic, and surgical appliances and supplies; and electro-medical apparatus and parts.

With regard to U.S. imports of miscellaneous manufactures in 1982 from the EC, the most important articles included jewelry, \$579 million; scientific instruments, \$482 million; works of art, \$433 million; and medical goods, \$420 million. The most significant increases involved U.S. imports of jewelry and works of art, which increased from \$457 million in 1981 to \$579 million in 1982, (about 27 percent) and from \$330 million in 1981 to \$433 million in 1982 (about 31 percent), respectively. Virtually all of the increase in imports of jewelry was accounted for by precious metal jewelry, primarily from Italy,213 because of the strength of the U.S. dollar. The large increase in imports of works of art was chiefly accounted for by lower priced paintings, pastels, and drawings, by hand, original or not, from the United Kingdom.

<u>Brazil</u>.—The U.S. trade surplus with Brazil deteriorated slightly between 1981 and 1982, decreasing from \$121 million to \$112 million. For this period, U.S. exports to Brazil decreased from \$175 million to \$170 million. At the same time U.S. imports from Brazil increased from \$54 million to \$57 million.

The most important U.S. export items to Brazil in 1982 were scientific instruments, \$88 million; photographic equipment and supplies, \$27 million; and medical goods, \$23 million. The largest U.S. export trade shifts during 1981-82 were both negative as U.S. exports of medical goods decreased from \$27 million to \$23 million and those of photographic equipment and supplies decreased from \$31 million to \$27 million. Both decreases occurred because of depressed economic conditions in Brazil.

The major miscellaneous manufactured articles imported from Brazil in 1982 were scientific instruments, \$16 million; handbags, luggage, and flat goods, \$11 million; and medical goods, \$10 million. The largest trade shift was in medical goods which increased from \$6 million in 1981 to \$10 million in 1982.

Hong Kong.—The U.S. merchandise trade deficit for miscellaneous manufactured goods with Hong Kong remained almost stable at about \$1 billion in 1982. U.S. imports from Hong Kong were also relatively stable at about \$1.3 billion in 1981 and 1982. In terms of value, dolls, toys, games, and horological devices accounted for \$937 million, or about 71 percent, of miscellaneous manufactured imports from Hong Kong in 1982. The most significant shift in U.S.—Hong Kong bilateral trade occurred in imported games. With the opening of a plant in Hong Kong in 1982 by the largest U.S. manufacturer of home video games, which sought a low—wage and low—tax rate site to reduce costs, imports of all games increased from \$74 million in 1981 to \$305 million in 1982.

U.S. exports to Hong Kong dropped slightly from \$231 million in 1981 to \$225 million in 1982. The major U.S. export items shipped to Hong Kong were photographic equipment and supplies which amounted to \$48 million in 1982 (virtually unchanged from 1981), or about 21 percent of the total value of miscellaneous manufactured items exported to that country in 1982. U.S. exports of horological devices declined to \$11 million in 1982, a decrease of about 48 percent compared with such exports in 1981, brought on by the worldwide trend toward increased competition in the low-priced end of the watch and clock market.

<u>India.</u>—The U.S. trade surplus with India in miscellaneous manufactured articles improved between 1981 and 1982, increasing from \$65 million to \$81 million, or by about 25 percent. U.S. exports increased from \$91 million in 1981 to \$106 million in 1982, or by about 17 percent. During the same time, U.S. imports from India decreased from \$26 million to \$25 million.

In 1982, the principal groups of articles exported to India were scientific instruments, valued at \$79 million, and medical goods, \$15 million. By far the largest trade shift was that registered in scientific instruments, which increased from \$62 million in 1981 to \$79 million in 1982, or by about 27 percent. This shift resulted from increased demand for meteorological, hydrological, geophysical instruments, and parts, and for instruments and

apparatus to measure or check electrical quantities, and parts. These articles are believed to be advanced high quality goods produced in limited amounts, if at all, in India.

The categories of U.S. imports from India registering the largest amounts in 1982 were jewelry, \$6 million, and handbags, luggage, and flat goods, \$4 million. U.S. imports of photographic equipment and supplies from India experienced the largest trade shift, increasing from \$373,000 in 1981 to \$2.9 million in 1982. Virtually all of this increase was accounted for by hand-held type cameras.

<u>Korea</u>.—During 1981-82, the value of U.S. exports to Korea increased from about \$140 million to \$232 million, or by 65 percent. During the same period, the value of U.S. imports from Korea grew by 16 percent, from \$637 million to \$740 million, causing a U.S. trade deficit with Korea amounting to \$497 million in 1981, and \$508 million in 1982.

Scientific instruments, and medical goods were the only two commodity groups in this sector that experienced significant growth, accounting for 73 percent of U.S. exports to Korea in 1981-82. During the period, the value of U.S. exports of scientific instruments grew from about \$74 million to \$126 million, or by 70 percent; and U.S. exports of medical goods increased by 78 percent, from \$27 million to \$48 million. The expansion and modernization of certain industrial and medical facilities in Korea were primarily responsible for the growth of U.S. exports to that country.

U.S. imports from Korea of virtually all commodity groups of this sector experienced growth in 1981-82, and three groups accounted for about 60 percent of total U.S. imports. During 1981-82, imports of dolls and toys increased from \$118 million to \$167 million, or by 42 percent; sporting goods (chiefly leather sports gloves) grew from \$108 million to \$128 million, or by 19 percent; and handbags, luggage, and flat goods increased from \$139 million to \$170 million, or by 22 percent. U.S. imports from Korea consisted primarily of commodities produced by labor-intensive industries, and staffed by a relatively low-wage-rate labor force. These factors, combined with the Korean Government policy of discouraging nonessential imports, contributed to the trade deficit with Korea.

Mexico.—During 1981-82, the value of U.S. exports to Mexico decreased by about 32 percent, from \$772 million to \$528 million, and the value of U.S. imports declined by 11 percent, from \$360 million to \$320 million. Because of the downward trend in bilateral trade, the U.S. trade surplus decreased from \$412 million in 1981 to \$208 million in 1982, or by 50 percent. The bilateral trade between the United States and Mexico was adversely affected primarily by the worldwide recession and falling oil prices, which severely impacted Mexico and curtailed its purchasing power.

The two leading commodity groups in this sector, which accounted for about 50 percent of total U.S. exports to Mexico in 1981-82, were scientific instruments and medical goods. Exports of scientific instruments fell to \$199 million in 1982, from \$270 million in the previous year, a drop of 215 26 percent; exports of medical goods declined by 25 percent to \$63 million from \$84 million. Although exports of scientific instruments decreased

sharply in 1982, they remained relatively large because of the continued development, expansion, and modernization of certain industrial sectors, particularly petroleum and petrochemicals. In addition, about 10 percent of U.S. exports of scientific instruments to Mexico consisted of parts and components to be assembled there and exported to the United States under TSUS item 807.00. The policy by the Mexican Government of encouraging the modernization of the medical infrastructure was primarily responsible for the relatively strong showing of U.S. exports of medical goods to that country.

Scientific instruments, furniture, dolls and toys, handbags, luggage, and flat goods accounted for about 58 percent of total U.S. imports from Mexico in 1981-82. During the same period, imports of scientific instruments from Mexico fell from \$84 million to \$57 million, or by 32 percent. Declining demand in the United States for such products, and greater utilization of existing inventories accounted for the sharp decline in imports in 1982. Handbags, luggage, and flatgoods declined to \$21 million in 1982, from \$33 million in the previous year, or by 36 percent. A falling off of demand for these products in the United States, because of the economic slowdown, was primarily responsible for the decline in imports from Mexico in 1982.

<u>Taiwan</u>.—During 1981-82, the value of U.S. exports to Taiwan decreased by 5 percent, from \$228 million to \$217 million. During the same period, U.S. imports from Taiwan increased from \$1,704 million to \$1,970 million, or by about 16 percent, causing a U.S. trade deficit with Taiwan amounting to \$1,476 million in 1981, and \$1,754 million in 1982.

Scientific instruments, and medical goods were the only two major commodity groups in this sector that experienced growth, accounting for 55 percent of total U.S. exports to Taiwan in 1981, and 66 percent in 1982. During 1981-82, the value of U.S. exports of scientific instruments to Taiwan grew from \$104 million to \$120 million, or by about 15 percent, and exports of medical goods increased by 9 percent, from \$22 million to \$24 million. Taiwan's ongoing expansion and modernization of certain industrial sectors and medical facilities were primarily responsible for the growth in U.S. exports to Taiwan for these two commodity groups.

U.S. imports of most commodity groups in this sector experienced growth in 1981-82; five groups accounted for 66 percent of total U.S. imports in 1981, and 77 percent in 1982. During 1981-82, U.S. imports of furniture increased from \$227 million to \$259, or by 14 percent; imports of dolls and toys increased by 17 percent, from \$162 million to \$189 million; imports of games, chiefly game machines, grew from \$241 million to \$344, or by 43 percent; imports of sporting goods increased by 9 percent, from \$171 million to \$186 million; and imports of handbags, luggage, and flat goods grew from \$324 million to \$373 million, or by 15 percent. A Taiwan company owns five furniture assembly and distribution facilities in the United States where knockdown furniture components imported from Taiwan are assembled.

OPEC.--U.S. imports of miscellaneous manufactures from OPEC were small in both 1981 and 1982, amounting to \$13 million and \$12 million, respectively. However, U.S. exports were strong, amounting to over \$1.0 billion in 1982, 11 percent above the 1981 level. This resulted in a trade surplus greater than \$1.0 billion in 1981 and 1982.

Antiques and works of art, both duty-free categories, accounted for the greatest portion (70 percent in 1981, 60 percent in 1982) of total imports of miscellaneous manufactures from OPEC. Import levels, which fluctuate depending on the availability of major collections and major single works, fell 20 percent from 1981 to about \$7 million in 1982.

Exports of scientific instruments, the largest group, were \$420 million in 1982, a slight increase from the \$403 million in 1981. Medical instrument exports, next largest, rose from \$144 million to \$165 million between 1981 and 1982. Increased industrialization has occurred in recent years in these countries, creating a need for high quality, technologically advanced instrumentation. With increasing construction of hospital plants, the need for medical equipment also grew. The high quality and relatively inexpensive price of domestically produced furniture have led to an increase in furniture exports to OPEC; these exports climbed 18 percent, from nearly \$173 million in 1981 to \$205 million in 1982.

<u>NME's.</u>—The value of U.S. imports of miscellaneous manufactures from nonmarket economy countries (NME's) increased by 26 percent, totaling \$210 million in 1982. U.S. exports rose 27 percent over the same period, from \$141 million to \$179 million. The U.S. trade balance was negative for both years, amounting to \$25 million in 1981 and \$31 million in 1982.

Furniture, pillows, cushions, and mattresses was the largest group of imports, with a value of \$26 million in 1981 and \$28 million in 1982. Wood furniture, primarily low-cost chairs from Yugoslavia, accounted for almost all furniture imports from NME's in both years. Imports of medical instruments grew from \$505,000 in 1981 to nearly \$4 million in 1982. Most of the increase was due to an increase in imports of artificial respiration, oxygen therapy, and similar breathing apparatus from Poland.

Exports of miscellaneous products, particularly light reflecting and pressure sensitive sheets, strips, and tapes, doubled to \$43 million in 1982. Increased industrial demand for high quality plastic-backed tape caused the rise. Scientific instrument exports remained strong in 1982 at \$30 million, little changed from the total exported in 1981.

U.S. imports of miscellaneous manufactures from China reached \$156 million in 1982, representing a 36-percent rise over the 1981 total of \$115 million. U.S. exports also increased in 1982, rising by 18 percent to \$83 million. The U.S. trade deficit with China was \$73 million, an increase of 65 percent over that recorded in 1981.

Matches, pyrotechnics, candles, and blasting caps, with 1982 imports valued at \$36 million, was the major group of miscellaneous manufactures imported from China. The 29-percent rise in these imports since 1981 is largely attributable to the increased popularity of fireworks and to lower import duties resulting from China's acquisition of MFN status in February of 1980. Handbags, luggage, and flat goods was another large group of imports, rising from \$23 million in 1981 to \$32 million in 1982. Increased imports of handbags, due to China's low production costs, account for much of the rise in imports.

Scientific and medical instruments led all categories of exports of miscellaneous manufactures, comprising 89 percent of total exports for the sector. Instrument exports were \$74 million in 1982, up from \$60 million in 1981. China's lack of technology to produce advanced scientific and medical instrumentation is the primary reason for the size of and increase in these exports.

## Commodity analyses

Scientific instruments.—Exports of surveying, hydrographic, navigational, meteorological, hydrological and geophysical instruments, and parts, increased from \$912 million in 1981, to \$1,022 million in 1982, or by 12 percent. Strong demand by Canada, the United Kingdom, Singapore, Norway, and the People's Republic of China for advanced geophysical and navigational instruments and systems was primarily responsible for the positive export performance of this product group. During 1981-82, imports of instruments and apparatus to measure or check electrical quantities, and parts, increased from a value of \$110 million to \$137 million, or by 25 percent. The continued growth in imports of these instruments is due primarily to the growing demand for these products, especially electronic circuits testing instruments, and the increased capability of more developed and developing countries to produce and export competitively priced advanced quality instruments.

Ruben Moller 724-1732

Medical goods.—The United States registered a trade surplus for medical goods valued at \$1,357 million in 1981 and \$1,317 in 1982. It is believed that the lesser performance in 1982 was caused primarily by the relatively weak world economy and the increased capabilities of certain countries to produce and successfully market worldwide a growing number of advanced medical goods.

During 1981-82, the value of U.S. exports of medical goods increased from \$2,049 million to \$2,148 million, or by about 5 percent. The largest markets for both years were the EC, 36 percent; Canada, 14 percent; and Japan, 11 percent. For the same years, imports increased by 20 percent, from \$692 million to \$831 million. During 1981-82, the principal sources were the EC, 41 and 51 percent, respectively; and Japan, 20 and 19 percent, respectively. The ability of an increased number of foreign producers to manufacture quality, up-to-date products, and competitively market these products in the United States were the prime reasons for the increase in imports, in spite of the weakened U.S. economy.

Ruben Moller 724-1732

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<u>Furniture</u>.—Imports of all furniture items increased over 9 percent from 1981 to 1982, rising from \$1.25 billion to \$1.36 billion. The principal sources, Canada and Taiwan, accounted for 47 percent of total furniture

imports. Imports of furniture designed for motor vehicle or aircraft use increased 12 percent in 1982 over that in 1981, rising from \$250 million to \$279 million, with Canada and Mexico as the two principal sources. These imports accounted for approximately 20 percent of total imports. Imports of metal furniture increased 15 percent during the same period, from \$233 million to \$268 million. These imports also accounted for 20 percent of total imports, with Canada and Taiwan as the principal sources.

Reversing the trend of the past 3 years, exports of U.S. produced furniture declined 8 percent from \$644 million in 1981 to \$591 million in 1982. For the first time, Saudi Arabia became the principal market for U.S. exports, receiving 28 percent of total furniture exports. Exports to Canada, the number two market, declined sharply from \$163 million in 1981 to \$118 million in 1982, or by 27 percent. The relative strength of the U.S. dollar in most world markets combined with a worldwide recession contributed to a weakened demand for U.S. produced furniture.

Rhett Leverett 724-1725

Horological devices.--U.S. imports of watches, clocks, and clockwork-operated devices and parts declined between 1981 and 1982, from \$1.0 billion to \$993 million. Exports of these articles also fell, from \$147 million in 1981 to \$125 million in 1982.

Watches and watch movements, which make up two-thirds of the value of imports for this group, accounted for most of the change in imports. While the quantity of watches and watch movements imported rose 12 percent to 94 million units in 1982, the value decreased 18 percent to \$678 million. Intense price competition in the low end of the watch market contributed to the increased quantity and lower value. Japan, Hong Kong, and Taiwan continued to be the leading exporters of watches and watch movements to the United States. While Hong Kong supplied the most units in 1982, 49 million, Japan appeared to hold the lead, in terms of value, at \$199 million.

Exports of watches and watch movements fell 27 percent to \$20 million in 1982. The almost complete disappearance of domestic production and increased offshore assembly operations caused this shift.

Cynthia Wilson 724-1731

Photographic equipment and supplies.—The value of U.S. imports of all photographic equipment and supplies was \$1.4 billion in 1982, representing an increase of 1.6 percent over imports in 1981. Imports of photographic film, emulsion, dry plates, and silver halide papers increased from \$557 million in 1981 to \$594 million in 1982, or by 7 percent. In terms of value, Japan supplied almost 45 percent of these imports in 1982. Imports of photographic film and paper have increased due to the strengthening dollar, effective utilization by a Japanese manufacturer of its previously expanded U.\$19\$ sales force, and an increase in this Japanese manufacturer's U.S. exposure as it

capitalized on its official sponsorship of the 1984 Olympic games and the U.S. Olympic Team.

U.S. exports of all photographic equipment and supplies declined by 5 percent, from \$2.0 billion in 1981 to \$1.9 billion in 1982. The potential for an even larger export decline in 1982 was averted by a boom in exports of fixed-focus, hand-held-type, still-picture cameras. Exports of these cameras increased from \$28 million in 1981 to \$123 million in 1982, or by more than 300 percent. This growth was due to the spring 1982 introduction by a major U.S. manufacturer of a new camera system utilizing a disc format; reportedly, this manufacturer exported over 3 million such cameras, or about 40 percent of its 1982 production. Canada, Japan, and the United Kingdom were the leading markets for U.S. exports of these cameras in 1982. Exports of photographic film, emulsion, dry plates, and silver halide papers decreased from \$1.4 billion in 1981 to \$1.2 billion in 1982. This was caused primarily by the strong U.S. dollar and the use by a major U.S. manufacturer of its film sensitizing facilities in the United Kingdom and France.

Kenneth Durkin 724-1729

Ophthalmic goods.—The value of U.S. imports of ophthalmic goods increased by 14 percent in 1982 to \$342 million from \$300 million in 1981, due to a 12-percent increase in imports of eyeglasses, goggles, and similar articles, and a 7-percent increase in the value of imports of frames and mountings, and parts of eyeglasses, goggles, and similar articles. These two categories composed about 84 percent of the value of imports of all ophthalmic goods.

The value of U.S. exports of ophthalmic goods decreased by 8 percent to \$113 million in 1982 compared with a value of \$123 million in 1981, due to a 19-percent decrease in the value of exports of eyeglasses, goggles, similar articles, and a 23-percent decrease in exports of contact lenses. These shifts in imports and exports principally reflect the strength of the dollar in the foreign exchange market, and the effect of the worldwide recession on trade.

Richardo Witherspoon 724-0978

Games.—While imports of game machines in 1982 advanced by 70 percent over 1981 (from \$561 million to \$955 million), exports fell by 25 percent (from \$333 million to \$250 million). The popularity of the Japanese-made arcade game Donkey-Kong accounted for the quadrupling of imports of coin-operated game machines (from \$35 million to \$140 million). Meanwhile, U.S. exports in the same category were nearly halved (from \$220 million to \$116 million) as many European arcades went out of business or could not afford the high price of U.S.-made, high-quality games. In the home video game market, the largest domestic manufacturer opened plants in Hong Kong and Taiwan, leading to a 71-percent increase in imports (from \$358 million to \$610 million). Thanks to a strong market in Canada, exports of home video

games and parts also advanced, but on a smaller scale, from \$113 million to \$135 million. One fourth-quarter comparison between 1981 and 1982 is particularly worthy of note: the shrinking market for Rubik's Cube and similar puzzles led imports of games from Taiwan other than game machines to fall from \$32 million to \$8 million.

Ralph J. Watkins 724-0976

Dolls, toys, models, tricks, and party favors. -- In 1982, U.S. imports of dolls and stuffed toy animals increased by 29 percent over imports in 1981 to \$314 million, and exports decreased 27 percent to \$9 million, increasing the trade deficit in these products by 32 percent to \$305 million. Imports of toys, models, tricks, and party favors of \$716 million in 1982 were up 16 percent over imports in 1981. Exports of toys declined by 18 percent to \$228 million, increasing the trade deficit to \$489 million, or by nearly 44 percent. Hong Kong, Taiwan, and the Republic of Korea remained the leading sources of imports in both categories, accounting for 81 percent of doll and stuffed toy imports and 68 percent of imports of toys, models, tricks, and party favors, continuing the past trend toward reliance on imports from Asia in these product groups. Another trend consists of the diversification of production in these groups into other Asian countries as evidenced by imports of dolls and stuffed toys from the Philippines and China and toys from Macao. Imports of dolls and stuffed toys from the Philippines were \$15 million in 1982, up 25 percent over imports in 1981 and imports from China were up 197 percent to \$8 million. Imports of toys from Macao rose 223 percent to \$40 million in 1982. Decreased exports of toys and models reflect the strength of the U.S. dollar during 1982.

Mark D. Estes 724-0977

Luggage.—U.S. imports of luggage increased from \$294 million in 1981 to \$336 million in 1982, or by 14 percent. In 1982, Taiwan supplied 54 percent of total luggage imports, Korea, 24 percent, and Mexico, 5 percent. As in 1981, luggage of materials other than leather and plastics (primarily textiles) registered by far the largest gain in 1982, rising from \$101 million to \$153 million, or by 51 percent, and in the latter year approached half of total imports. These imports consist primarily of manmade materials, mainly nylon, and to a lesser extent of canvas. Increasing emphasis is being placed in marketing efforts on durable fashionable luggage. Nylon meets these criteria and comes in many bright, fashionable colors. However, the production process for this type of soft—side luggage is also more labor intensive, the principal competitive advantage of imported luggage.

In 1982, U.S. exports of luggage continued the decline begun in 1981, decreasing from \$48 million in 1981 to \$39 million in 1982, or by 19 percent. Reflecting the depressed state of economies worldwide and the resulting decreased travel, the decline was spread among many countries.

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Jewelry.--U.S. jewelry imports rose 12 percent, reaching over \$1.0 billion in 1982. Exports fell 19 percent, from \$233 million to \$188 million. Italy was the major source of imports, with \$525 million. Switzerland was the primary export market, accounting for \$71 million, or 38 percent of all U.S. jewelry exports.

Much of the overall increase in jewelry imports resulted from a 22-percent rise in precious metal jewelry imports. These imports increased from \$706 million in 1981 to \$864 million in 1982. Italy, at \$516 million, surpassed all other countries with 60 percent of precious metal jewelry imports. Israel was second at \$92 million. Italy's reputation for finely crafted, stylish jewelry accounts for its strength in the U.S. market.

The decline in jewelry exports between 1981 and 1982 was due to decreased U.S. exports of both precious metal and costume jewelry. Precious metal jewelry exports dropped 19 percent, from \$141 million to \$114 million. Costume jewelry exports fell by 18 percent, from \$82 million to \$67 million. Switzerland, at \$69 million, was the primary market for precious metal jewelry exports; Japan, at \$10 million, was the major market for costume jewelry exports. The strong value of the U.S. dollar in 1982 made imports more attractive, while contributing to sales difficulties for exporters.

Cynthia Wilson 724-1731

Bicycles.—U.S. imports of bicycles decreased from 2.2 million units, valued at \$185 million, in 1981 to 1.7 million units, valued at \$123 million, in 1982, or by 22 percent in quantity and 34 percent in value. Most of this decrease resulted from recession-related decreased demand by adults for larger lightweight-type bicycles and some diversion of discretionary income into purchases of video games. Demand for imports of smaller bicycles for children, primarily 20-inch BMX style, remained constant. On a unit basis, Taiwan and Japan, the two largest suppliers experienced the largest declines. However, in 1982, they continued to supply the largest share of imports on a unit basis, with Taiwan accounting for 64 percent and Japan for 20 percent. Because Taiwan's rate of decrease was slower, its share of imports increased by 10 percentage points, while Japan lost a like share. 1/

Carl F. Seastrum 724-1733

<sup>1/</sup> On September 24, 1982 the U.S. International Trade Commission initiated preliminary antidumping investigations on bicycles from the Republic of Korea (Inv. No. 731-TA-110) and Taiwan (Inv. No. 731-TA-111). On November 2, 1982, the Commission found there is no reasonable indication that an industry in the United States is materially injured, or is threatened with material injury, by reason of imports from the Republic of Korea of bicycles, provided for in items 732.02 through 732.26, inclusive, of the . . . TSUS, which are allegedly being sold in the United States at less than fair value (LTFV). The Commission further determined "that there is a reasonable indication that an 222 industry in the United States is being materially injured, or is threatened with injury, by reason of imports from Taiwan of bicycles, as provided in the TSUS items shown above, which were allegedly being sold in the United States at LTFV."

Parts of bicycles.—U.S. imports of parts of bicycles decreased sharply from \$142 million in 1981 to \$85 million in 1982, or by 40 percent. Because a U.S.—produced bicycle requires a large proportion of imported parts, the significant decrease in demand for all bicycles in the U.S. market caused a large decrease in demand for imported parts of bicycles, which are used primarily in original—equipment manufacturing. The drop in demand for bicycles was caused by the recession and by some diversion of consumer discretionary income into purchases of video games. In 1982, Japan supplied 61 percent of total imports of parts of bicycles, Taiwan 15 percent, and Italy 10 percent.

Carl F. Seastrum 724-1733

Musical instruments, parts, and accessories.—The value of U.S. exports of musical instruments, parts, and accessories decreased by 27 percent in 1982 to \$148 million from \$202 million in 1981, whereas the value of imports increased by 12 percent to \$293 million during the same period. These shifts in imports and exports reflect principally the continued strength of the dollar in the international exchange market in conjunction with softer world markets for the generally higher priced U.S.—produced instruments.

The decline in the value of exports was due chiefly to a 56-percent decrease in exports of organs to Australia, the Netherlands, and Canada, and a 40-percent decrease in exports of pianos to Canada, West Germany, and Australia.

The increase in the value of imports was accounted for by a 55-percent increase in the value of imports of pianos from Japan and the Republic of Korea, and a 98-percent increase in the value of imports of electronic musical instruments other than organs, pianos, and guitars, from Japan and Hong Kong. The bulk of these electronic musical instruments consisted of synthesizers and electronic keyboards.

Richardo Witherspoon 724-0978

Golf equipment.—Strong growth was exhibited in both imports and exports of golf equipment in 1982. The 38-percent rise in imports (from \$45 million in 1981 to \$62 million in 1982) was more than offset by the 17-percent increase in exports (from \$114 million to \$133 million). Leading the way for imports was a 91-percent escalation in clubs and parts of clubs from Taiwan, Japan, the United Kingdom, and Mexico, from \$11 million to \$21 million. Together, these sources accounted for 92 percent of the imports of golf clubs and parts in 1982. Exports, on the other hand, were paced by a 50-percent increase in the shipments of golf equipment other than golf clubs and parts (essentially golf balls) from \$28 million to \$42 million. The most significant expansions were in exports to Japan by 120 percent (to \$15 million) and to Canada by 47 percent (to \$8 million).

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Pens, mechanical pencils, and parts.—In 1982, the value of U.S. imports of pens, mechanical pencils, and parts increased by 4 percent over imports in 1981, rising to \$85 million, and exports declined by 16 percent to \$114 million. Thus, the trade surplus in these products continued to shrink, dropping from \$54 million in 1981 to \$30 million in 1982, or by 44 percent. The principal reason for the narrowing trade surplus was the continued strong dollar. Japan was the major supplier of imports, accounting for 60 percent (\$49 million) of total imports in 1981, and 59 percent (\$50 million) in 1982. Exports went to many countries, with Canada, which took 12 percent of total exports in each year, the principal market.

Bill Hanlon 724-1745

Light-reflecting and/or pressure-sensitive flat shapes or forms.--U.S. imports of light-reflecting and/or pressure-sensitive flat shapes or forms increased by 8 percent in 1982 to \$73 million compared with the level attained in 1981. Most of this growth resulted from a rise in imports from Italy, and consisted primarily of nonelectrical plastic-backed pressure-sensitive tape and pressure-sensitive sheets, strips, monograms or forms; and reportedly, the increase was attributable to the continued competitive strength of Italian producers of these articles. Taiwan, Italy, and Japan were the largest sources in 1982, accounting for 32 percent, 22 percent, and 13 percent, respectively, of total imports. U.S. exports of these articles increased by about 2 percent to \$234 million in 1982, compared with \$229 million in 1981. Exports to the U.S.S.R., the largest single market, accounted for a 16-percent market share in 1982, up from a 9-percent share in 1981; however, the multiyear trend of exports to the U.S.S.R. reflects a declining market share, chiefly attributable to increased competition from European and Asian producers of plastic tape.

> Nancy Paris 724-1748

Nontextile floor covering.—U.S. imports of nontextile floor coverings increased 7 percent from 1981 to 1982, rising to \$39 million in the latter year. Resilient flooring, principally sheet vinyl flooring and vinyl tile, constituted the largest share of imports, increasing 8 percent to \$35 million. Imports of vinyl tile in 1982 rose 6 percent over the previous year to \$13.0 million. Taiwan, the principal source of vinyl tile imports in each year, accounted for 86 percent of the total in 1981 and 89 percent in 1982.

After a trend in recent years of annual increases, U.S. exports of nontextile floor coverings in 1982 decreased 16 percent compared with 1981, falling from \$122 million to \$102 million. The major markets were Canada, Japan, and Mexico, which together accounted for 62 percent of exports in 1981 and 66 percent in 1982. While exports to Japan remained relatively stable at \$14 million in each year, exports to Canada dropped 7 percent to \$48 million and those to Mexico declined 46 percent to \$6 million. The bulk of exports, which consisted principally of various resilient floor coverings, dropped 12 percent, to \$28 million.

This decline in exports is attributable to the strong value of the U.S. dollar combined with the overall economic problems in both Canada and Mexico.

Doris B. Mebane 724-1730

Fishing rods.—The growth in imports of fishing rods accelerated in 1982 compared with 1981, increasing by 42 percent in quantity (from 7.7 million rods to 11.0 million rods) and 45 percent in value (from \$29 million to \$42 million). Taiwan and Korea accounted for 90 percent of the value of imports in 1982. Meanwhile, exports of fishing rods slumped by 66 percent in quantity (from 250,000 rods to 85,000 rods) and by 61 percent in value (from \$4.0 million to \$1.6 million). The average unit value of imported rods was \$3.86 in 1982 compared with \$18.47 for exported rods.

Ralph J. Watkins 724-0976

Tennis rackets.—The previously reported trend in which Taiwan was noted to be upgrading its tennis rackets in order to appeal to the increasingly quality conscious U.S. consumer continued in 1982. Imports from Taiwan were up by almost 50 percent in value in 1982 over 1981 (from \$16 million to \$24 million), but they advanced a more moderate 22 percent in quantity (from 2.4 million rackets to 2.9 million rackets) as the average unit value rose by 21 percent, to \$8.25. By comparison, the average unit value of U.S. exports was \$29.29 in 1982. U.S. exports were stable, rising 4 percent in value to \$27 million while dipping 6 percent in quantity to 912,000 rackets. Taiwan supplied 80 percent of U.S. imports of tennis rackets in 1982, in terms of quantity.

Ralph J. Watkins 724-0976

Artificial flora, parts thereof, and articles made thereof.—U.S. imports of artificial flora, parts thereof, and articles made thereof increased to \$42 million in 1982, or by 47 percent over 1981. The Far Eastern countries accounted for the bulk of this increase and for 84 percent of total imports of these articles in 1982, up from 72 percent in 1981. Because the production of artificial flowers is a labor-intensive operation, U.S. manufacturers continued to produce, to a large extent, only the higher priced artificial flowers which are chiefly used for commercial display purposes. Increased imports of artificial flowers from the Far Eastern countries continued to satisfy the increased domestic demand for such articles at a lower price.

Nancy Paris 724-1748

Table 24.--Annual data on U.S. imports and exports for selected commodity groups 1/2

ty (1,000 units)	(2)	•	(2) to (3) (4)
(1,000 units)		. (3)	- Commence of the Commence of
(1,000 units)————————————————————————————————————			
(1,000 units)————————————————————————————————————	; ,042: 171,786: ,566: 421,049:	: :6: 167,009: 9: 422,833:	MO
(1,000 dollars)	,227: 7,581 ,479: 20,014	; 6,320: 4: 15,032:	-17
(1,000 dollars)	.070: 294,377	336,420	14
(1,000 dollars)	,574: 48,350	38,965:	- 19
(1,000 dollars)	,044: 87,474	. 90,249:	m '
(1,000 dollars)	,404: 9,086	6,763	-26
if (1,000 dollars)	: ,639: 299,761	342,026	14
lenses (except ophthalmic lenses) and : : : : : : : : : : : : : : : : : : :	,073: 122,722 :		<b>≈</b>
dollars)			
dollars)	,536: 303,861	: 275, 163:	6-
: : : : : : : : : : : : : : : : : : :	,371: 50,347	.7: 60,090: :	
. 62//26	125.		
rts: 1ue (1,000 dollars)			
and medical instruments and apparatus : : : : : : : : : : : : : : : : : : :	: : 153: 196,808	: : 8: 221,917:	13
Exports: Value (1,000 dollars)	; ,071; 559,750	: :0: 601,238:	

 $\underline{1}/$  Import values are based on Customs value; export values are based on f.a.s. value, U.S. port of export.

Table 24. -- Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	1982	Percent Change from
	(1)	(2)	(3)	(2) to (3) (4)
Orthopedic, prosthetic, and surgical appliances and:	•• •• ••	•• ••		
Imports: Value (1,000 dollars):	72,172	74,931:	87,818	17
Exports: Value (1,000 dollars)	273,869:	310,757:	332,743	7
Imports: Value (1,000 dollars)	34,965:	41,157	40,066	<b>1</b>
Exports: Value (1,000 dollars)	95,228:	114,431:	120,324	ι <b>Λ</b>
parts Electro-medical apparatus and parts	• •• •	• •, •		
Value (1,000 dollars)	81,159:	109,707:	129,391	18
(1,000 dollars)	591,675:	727,881:	773,823	•
Apparatus based on the use of x-rays or of radiations, whether for medical, industrial, :	• • •	• • •		
ts: (1,000	: 226,089:	269,677:	351,612	30
. (1,00	296,384:	336, 180:	320,110	<u> </u>
Surveying, hydrographic, navigational, : meteorological, hydrological, geophysical : instruments, and parts :	•• •• ••	•• ••		
Imports: Value (1,000 dollars)	170,851:	246,080:	237,603	Ŋ
Exports: Value (1,000 dollars)	743,649:	911,890:	1,022,230	7
instruments; micrometers, calipers, and gauges; balancing machines; non-optical measuring and checking machines, n.s.p.f., and parts	•• •• •			
Imports: Value (1,000 dollars)	314,102:	343,827	326,900	:S
Exports: Value (1,000 dollars)	105,108:	107,293:	91,270	- 15

Table 24.--Annual data on U.S. imports and exports for selected commodity groups

Commodity area :	1980	1981	1982 :	:Percent :Change : from
	<b>S</b>	(2)	3	(2) to (3) (4)
Balances of a sensitivity of 5 centigrams or : better, and parts; and weights				
(1,000 dol	24,107	19,558:	17, 171:	- 12
Exports.  Yolue (1,000 dollars)	9,327:	13, 186:	13,290:	-
ogth of articles ormaterials undersion, tension, torsion or she				
Imports: Value (1,000 dollars)	13, 165:	9, 183:	12,941:	4
Exports. Value (1,000 dollars)	118,810:	136,231:	124,209:	6-
nts and a second				
	23,685:	28,632:	26,717:	-7
,000 dol easuring	41,654:	48,860:	44,002: :	- 10
s, or gases, or ts	10 10 10 10 10 10 10 10 10 10 10 10 10 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Value (1,000 dollars)	219,884:	252,368:	251,197	0
Value (1,000 dollars)	1,009,942:	1,178,679:	1,104,052:	9-
Imports: Value (1,000 dollars)	85,091:	101,417:	110,597	6
Speedometers, tachometers, revolution counters and :  similar counting devices, and parts	803,396:	904,499:	903,008:	0
Imports: Value (1,000 dollars)Fynorts:	46,789:	45,769:	41,786	6 -
	43,833:	60,392	48,018:	-50
Imports: (1,000 dollars)Exports:	15,978:	10,769:	11,862:	10
Value (1,000 dollars)	116,882:	126,072:	127,487:	-

Table 24.--Annual data on U.S. imports and exports for selected commodity groups

Commodity area :	1980	1981	1982	Percent Change from
	 E	(2)	(3)	(2) to (3)
Instruments and apparatus to measure or check : electrical quantities, and parts		•••••		
Value (1,000 dollars)	86,652:	109,877	137,422	25
Exports: Value (1,000 dollars)Electricity, gas, and liquid supply meters, and :	1, 188, 129:	1,352,211:	1,373,313	
parts Imports: Value (1,000 Asilane)	11 0 14		12,619	<u>-</u>
				-
Value (1,000 dollars)	89,809: :	98,025:	86,197	1 1 2
Watches and watch movements	•• ••	•• ••		
Quantity (thousands)	58,313: 698,580:	83,332:	86,134	-22
J)	6,686:	8,742:	2,079	-76
ock mov				
Quantity (thousands)	41,406: 260,125:	48,678:	47,374 228,455	-28
exports: Quantity (thousands)	1,488:	2,094:	1,842	112
Imports: Value (1,000 dollars)	33,073:	21,882:	12,201	75-
Value (1,000 dollars)	21,451:	22,934:	24,885	
ו ומ ר	504,576:	613,646:	597,863	£.
Value (1,000 dollars)	231,881:	243,430:	293,404	21

Table 24.--Annual data on U.S. imports and exports for selected commodity groups

Commodity area :	1980	1981	1982	Percent Change
• • •	• •• ••	• •• ••		(2) to
• • • • • • • • • • • • • • • • • • • •	(1)	(2)	(3)	(4)
combination camera-pro	••	••		
or without sound reproducing, or sound : recording and reproducing systems, and parts; :	••	••		
ojection screens	••	•••		
Value (1,000 dollars)	35,896:	25,764:	23,819	<b>∞</b> 1
Exports: (1 000 4011250)	: 0108 01	117 168:	377 00	-23
film viewers, titlers,				3
, s	••			
יש ר	3,892:	3,262:	2,534	-22
Exports: Value (1.000 dollars)	17.025:	18,349:	13, 136	-28
nic lens caps, lens hoods, a	••• ••	••. 1		
and filters; film reels and reel cans; and frames and mounts for photographic slides				v
2 C C C C C C C C C C C C C C C C C C C	: 27 00	: 18 976	16 785	1 2 2
Exports:		. 0 / 2 / 60 !		<b>J</b>
lars)	20,489:	21,627:	22,037	
ic flash-li		••		
meters, and				
r use in		••		
photographic processes; and range-tinders : designed to be used with photographic cameras :		• ••		
ts thereof		··· ·		
Imports: Value (1,000 dollars)	87,158:	102,566:	88,260	1 14
			7 112	-27
specially d				·
Value (1,000 dollars)	27,497:	47,750:	73,951	55
Exports: Value (1.000 dollars)	206.039:	199.156:	195,159	,
specially d				1
ing motion-picture:	•			
101	2,864:	2,409:	2,984:	24
	28,837:	23,966:	21,982	₩ 1
	•			

Table 24:--Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	1982	:Percent :Change : from
	(1)	(2)	(3)	(2) to (3) (4)
Photographic film, photosensitive emulsion, and : photographic dry plates, sensitized but not exposed				
Imports: (1,000 dollars)	366,707:	381,333:	395,954	4
Exports: Value (1,000 dollars)	1,052,929	1,040,517:	943,690	6
Value (1,000 dollars)	165,993	185,809:	211,729	41
Exports:  Value  Value  Value  Value  Value  Notion-picture film in any form on which pictures.  or sound and pictures, have been recorded,  whether or not developed, news sound recordings  relating to current events abroad; and sound  recordings produced on photographic or magnetic	296,976	305,596	291,202	ភ !
tion with moti	•			
Table (1,000 dollars)	29,064:	21,102:	21,536	N
Magnetic video tape on which pictures or pictures :	75,919:	73,982:	70,381	ທ ເ
Quantity (1,000 linear feet)	60,272:	108,558: 7,645:	107,807	1 1
Quantity (1,000 linear feet)	23, 388: 23, 823:	31,423: 28,924:	32,939	ν. <sub>6</sub>
Imports: Value (1,000 dollars) Exports:	35,518:	49,150:	50,672	M
Value (1,000 dollars)	96,546:	87,820:	61,200	- 30
Tiporces (1,000 dollars)	15,376:	13,575:	26,459	95
Value (1,000 dollars)	60,642:	86,170:	115,918	35

Table 24. -- Annual data on U.S. imports and exports for selected commodity groups

Commodity area	1980	1981	1982	Percent Change
				(2) to
	£	(2)	(3)	(£)
	••	••		
ecoroning media not naving any materia ed thereon		• • •		
Imports:	329 597	: 844.596	151.997	
(S. 1917.00 000/1)				
dollars)	419,284:	550,037:	592,671	∞ 
	• ••	• * • •		
n the manufacture of sound r	••		1	
for the r	• ••	· ••		
materials	••			
Value (1,000 dollars)	16,139:	8,731:	960'9	-30
Exports: Value (1.000 dollars)	2,775:	2,934:	4,588	56
nstruments,	•••	•••	• •	•••
Value (1,000 dollars)	207,570:	262,851:	293,208	: 12
Exports:	217.615:	201.743:	147.836	-27
instruments				ì
Imports: Value (1,000 dollars)	: 144,354:	: 190,671:	226,262	. 19
Exports: (1 000 40]] and an exports:	: 140 440:	166 600:	21 7 00	
(including electric pianos,	5			3
etc.)		•• ••		
tity (number)	26,517:	31,441:	65,052	107
Value (1,000 dollars)	2	.2/6 ' C b	68, 165	ດ ດ
ber	20,151:	21, 124:	11,681	-45
reed and ele	-	.017(77	10716	•
Imports: Occupatity (number)	224.617:	164.287:	135,640	-17
e (1,000 dollars	11,985:	21,693:	20,627	
cxports: Quantity (number)	48,692:	40,939:	17,703	: -57
	48,634:	80	18,888	56

Table 24.--Annual data on U.S. imports and exports for selected commodity groups

		••	••		Percent
	Commodity area	1980	1981	1982 :	Change
		•••	•••	•	(2) to
		(1)	(2)	3	3
L	mattresses, and pillows, cushions, and : furnishings				
	: (1,000 dollars)	1,094,287:	1,250,072:	1,366,658:	
4	(1,000 dollars)	475,235:	643,748:	591,473:	<b>&amp;</b> I
	3011;	2,908:	2,624:	3,218:	23
Exports. Value Furniture of	ers)	11,787:	13,552:	14,793:	6
convertible dual-purpose	aircratt, bedsprings or mattresses, convertible sofas, sofa beds or similar dual-purpose furniture	•	••••	•• ••	
Imports: Value	(1,000 dollars)	843,546:	986,187	1,071,514:	6
Exports: Value Nontextile flo	: (1,000 dollars): floor coverings	385,266:	510,541:	471,380:	<b>∞</b>
	000	32,857:	36,059	38,732:	7
Exports: Value ( Small arms (bo	: (1,000 dollars): (bore diameter 30 mm and under)	: 109,895: :	121,883:	101,802:	- 16
	: (1,000 dollars)	101,713:	121,754:	126,393:	4
s: e and	(1,000 dollars)	152,246:	168,676:	161,849:	<b>5</b> -
	(1,000 dollars)	: 162,491:	176,425:	312,174:	7.7
	(1,000 dollars)	20,643:	18, 188:	27,403:	51
Value (Games	(1,000 dollars)	1,075,287:	889,657	1,474,227	99
orts:	(1,000 dollars)	517,657	681,344:	1,058,080:	55
Exports: Value (	(1,000 dollars)	349,204:	360,022	274,750:	-24
			•	•	

Table 24.--Annual data on U.S. imports and exports for selected commodity groups

: Commodity area	1980	1981	1982	Percent Change
	:	(2)	(3)	trom (2) to (3) (4)
Sporting goods Imports: (1.000 dollars)	622.480:	596.057	664.984:	- 5
(1,000 d ackle	338, 170:	368,268:	373,486:	
Value (1,000 dollars)	126,696:	136,999:	159,275:	16
000	35,262;		62,24	38
Exports: Value (1,000 dollars)	94,573:	113,792	132,852:	17
Value (1,000 dollars)Fynnte:	28,177:	37,309:	48,358:	30
Ski equipment, snowshoes, sleds, toboggans, and sparts of the foregoing	35,251:	40,351:	43,520:	••
Apports: Quantity (pairs)	1,036,624: 43,663:	686,927: 32,476:	942, 193: 39,481:	37
Lan L	243,061: 20,997:	221,688:	174,928:	-21
Imports: Quantity (1,000 units)	2, 154: 150, 676:	2,224: 184,631:	1,725:	-22 -33
Quantity (1,000 units)	5,325:	90:	3,689:	138
alue prts	130,419:	142,092:	85,111:	-40
Value (1,000 dollars):	13,512:	13,922:	7,888:	-43

Commodity area	1980	1981	1982	Percent Change from
	· •• •		•• •	(2) to
	: (1) :	(2)	(3)	(4)
Children's vehicles, except bicycles, and baby carriages, and parts thereof		•• ••		
Imports: Value (1,000 dollars)	12,981:	13,808:	22,331:	62
Exports: Value (1,000 dollars)	16,946:	8,476:	6,532:	-23
Imports: Value (1,000 dollars)	211,830:	243,811:	313,788:	29
Exports: Value (1,000 dollars)	9,393:	12,626:	9,225:	-27
	: : : : 540,744:	518,491:	716,377	16
(1,000	249,400:	278,022:	227,681:	18
s: (1,000 c	: : : : 839,332:	1,039,948:	: : 1,168,659:	12
(1,000	290,495:	232,728:	188,421:	- 19
rrectous metal jeweiry Imports: Value (1,000 dollars)	: : 555,273:	706,343:	864,272:	22
Exports: (1,000 dollars)	. 204,309: 	140,845:	114,488:	- 19
Imports: (1,000 dollars)	: 171, 477:	193,721:	178,249:	₩
Exports: Value (1,000 dollars)	76,846: 	81,929:	66,809:	1
ts: (1,000	80,704:	107,950:	940,76	- 10
Exports: Value (1,000 dollars)	1,259:	952:	1,062:	12
Imports: Value (1,000 dollars)	111,484:	112,900:	109,551:	ĸ
Exports: Value (1,000 dollars)	: 58.775:	59.009:	51.189:	-13

(2) to (3) (4) 10 Ť - 16 - 10 -32 - 13 -78 -81 7ī Percent 7 :Change from 27,423:10,494: 1,928:2,614: 377,776 85, 124 12,865 18,064 39,316 32,954 114,113 5,322 11,872 91,487 9,197 Table 24.--Annual data on U.S. imports and exports for selected commodity groups 1982 (3) 47,061 25,274: 10,794: 2,211:2,802: 14,219 177: 31,603 81,722 9,839 20,031 92,868 77,806 135,836 7,833 11,947 1981 (5) 65,651: 16,061: 7,974: 6,752: 2,055:2,994: 130: 89: 10,031 138,569 94,268 48,744 65,260 29,648 13,540 9,183 17,216 1980 3 crayons, including charcoal crayons; leads for cased pencils, refill leads, other crayons and leads; and billiard and tailors' chalk Brooms, brushes, paint rollers and combination toilet articles Cased pencils, and pencils, n.s.p.f., chalk Needles, pins, hair curlers, and apparel Pens, mechanical pencils and parts (1,000 dollars)---(1,000 dollars)----(1,000 dollars)---units)----dollars)-gross)----dollars)--(1,000 dollars) -gross)----dollars)-fasteners, except buttons Commodity area (1,000 dollars)-(1,000 dollars)--Quantity (1,000 units)--Value (1,000 dollars) (1,000 dollars)--(1,000 dollars)--(1,000 dollars)-Miscellaneous products (1,000 (1,000 (1,000 Quantity Quantity Quantity Clothespins Exports: Exports: Imports: Exports: Exports: Imports: Value Imports: Value Value Value Value Value Exports: Exports: Exports: Imports: Imports: Imports: Value Value Value Value Value Buttons Value

Table 24. -- Annual data on U.S. imports and exports for selected commodity groups

Table 24 Allinai data dii 0.3. Ilipoi ta alia espoi ta 101 serectea collinai y groups	appoint to the	מפדפרופת כסוווווסם	ıty groups	
Commodity area	1980	1981	1982	:Percent :Change : from
	<b>6</b>	(2)	(3)	(4)
Sausage casings, n.s.p.f.		•• ••	1. 1.	
Quantity (1,000 pounds)	7,469:	6,338:	7,066:	6: 3: 11
Quantity (1,000 pounds)	14,301:	13,616:	13,839: 70,063:	

Table 25.--Summary of trade-monitoring gates triggered for selected commodity groups, 1982

Commodity area :	Imports	Exports:
		: (01) (04)
Luggage		: (01) :
ophthalmic lenses (except ophthalmic lenses) a		
struments and components other		•••
otical lenses I and medical instruments and apparatudic, prosthetic, and surgical appliances		
in supplies————————————————————————————————————		
nd electro-medi		
Electro-medical apparatus and parts		# 3
radiations, whether for medical, industrial, or other, uses and parts:	01	• •• <sub>!</sub>
Surveying, hydrographic, navigational, meteorological, hydrological, geophysical		
instruments, and parts		
calculating instruments; micrometers,		
non-optical measuring and checking machines, :		
h.s.p.t., and parts	* * * * * * * * * * * * * * * * * * *	#
and parts; and weights appliances for determini		
strength of articles ormaterials under : compression, tension, torsion or shearing :		
barometers		
Apparatus for measuring, checking or controlling:		
<u>Iling</u>		
perature, and parts ants for physical or chemical analys		
ution coun	•	
for meas		**************************************
detecting alpha, beta, gamma, x-ray, cosmic . or similar radiations, and parts:		
Instruments and apparatus to measure or check elegtrical quantities, and parts		· · · · ·
Electrifeity, gas, and liquid supply meters, and		

Table 25.--Summary of trade-monitoring gates triggered for selected commodity groups, 1982

: Exports :	: : (01) (04) 07 : (04)		• •• •• •• •• •• ••		: (02) : 02 : :
Imports	(01) (07) (01) (07) 09 (02)		20		02 09
Commodity area	Watches, clocks, and clockwork operated devices (including time clocks and time stamps) and parts Watches and watch movements	camera-enlargers, and parts thereot projectors and combination camera-projectors, with or without sound reproducing, or sound recording and reproducing systems, and parts; and projection screens	hic processes; and range-to be used with photograph thereof	Photographic papers, including blue print and brown print papers, sensitized but not exposed; and heat sensitive papers.  Motion-picture film in any form on which pictures, or sound pictures, have been recorded, whether or not developed, news sound recordings relating to current events abroad; and sound recordings produced on photographic or magnetic film, tape, or wire, and suitable for use in connection with	Magnetic recordings on the having any material:  Magnetic recordings on the having any material:  Sound recording media not having any material:  Sound recordings on disc of soft wax (master ::

Table 25.-- Summary of trade-monitoring gates triggered for selected commodity groups, 1982

Commodity area :			Imports		Exports
records), or metal matrices obtained therefrom, for use in the manufacture of sound records for export; and scrap and waste: photographic film fit only for the recovery of its constituent materials	(02)	60		: 02 : 02 : (01)	
Pianos (including electric pianos, harpsichords, etc.) Organs (including pipe, reed and electronic) Furniture, mattresses, and pillows, cushions, and: similar furnishings	(04)	40	(02)	(01) (04) (01) (04)	
boxsprings  Furniture other than medical, motor-vehicle or a sircraft, bedsprings or mattresses, convertible sofas, sofa beds or similar dual-purpose formiture				· · · · · · · · · · · · · · · · · · ·	
Small arms (bore diameter 30 mm and under): Ordnance and accessories	01			012	
Sporting goods	00			(10)	
Snow skis	400 CC 10 CC 10	(04)	60	(01) (04) (01) (04) (01) 09	
Precious metal jewelry				6 6	

Table 25.-- Summary of trade-monitoring gates triggered for selected commodity groups, 1982

Commodity area	Imports		Exports
Cased pencils, and pencils, n.s.p.f., chalk : crayons, including charcoal crayons; leads : for cased pencils, refill leads, other crayons and leads; and billiard and tailors' : chalk	04)	(01) (04) 09	

### APPENDIX A

TRADE MONITORING GATES USED IN USITC MONITORING SYSTEM

#### Trade Monitoring Gates

Each commodity area listed in <u>U.S. Trade Shifts in Selected Commodity Areas</u> is assigned specific economic test criteria or "gates" from among those listed below. For example, in one commodity area the assigned gate for import value may be a change of 20 percent (gate 1); in another area, the gate used may be an import value change of 40 percent (gate 3).

When trade shifts meet or exceed an assigned gate level; the assigned gate is printed in the monitoring table. 1/ Thus, the gates printed do not represent actual percentage changes in trade levels or costs. For example, if for a given commodity, gate 2 (+ 30 percent) is an assigned gate, then when import value changes by 30 percent or more, gate 2 will be printed—no matter how great the actual percentage change. In this example, even if the change in import value for the commodity exceeds 40 percent, gate 3 (+ 40 percent) would not be printed, nor would gate 1 (+ 20 percent) be printed when the percent change in import value exceeds the gate 1 level but is less than the gate 2 level.

### Import monitoring gates

Category	Economic Criterion	
Import value	1. Total value of the import class has changed ( <u>+</u> ) by at least 20 percent compared with a designated, prior, comparable period.	
	2. Total value of the import class has changed (+) by at least 30 percent compared with a designated, prior, comparable period.	
	3. Total value of the import class has changed (+) by at least 40 percent compared with a designated, prior, comparable period.	
Import quantity	4. Total quantity of the import class has changed of by at least 10 percent compared with a designated, prior, comparable period.	( <u>+</u> )
	5. Total quantity of the import class has changed ( <u>+</u> ) by at least 20 percent compared with a designated, prior, comparable period.	
	6. Total quantity of the import class has changed ( <u>+</u> ) by at least 30 percent compared with a designated, prior, comparable period.	·

<sup>1/</sup> Printed gate numbers (1-6) enclosed by parentheses represent negative changes.

# Import monitoring gates--Continued

Catacom	- E.o.	nomic Chihamian
Category	ECO	nomic Criterion
Import unit value	7.	Average unit value of the import class has changed (+) by at least 20 percent compared with a designated, prior, comparable period.
	8.	Average unit value of the import class has changed (+) by at least 30 percent compared with a designated, prior, comparable period.
Supplying countries	9.	Share of total imports, by value, from at least one country has changed (+) by at least 20 percentage points compared with a designated, prior, comparable period.
	10.	The leading supplier, by value, in the current period was not among the top four supplying countries during a designated, prior, comparable period.
	· <u>· · · · · · · · · · · · · · · · · · </u>	
Export monitoring gates	3	
	_	
Category	Eco	nomic Criterion
Export value	1.	Total value of the export class has changed $(+)$ by at least 20 percent compared with a designated, prior, comparable period.
	2.	Total value of the export class has changed $(+)$ by at least 30 percent compared with a designated, prior, comparable period.
	3.	Total value of the export class has changed $(+)$ by at least 40 percent compared with a designated, prior, comparable period.
Export quantity	4.	Total quantity of the export class has changed (+) by at least 10 percent compared with a designated, prior, comparable period.
	5.	Total quantity of the export class has changed (+) by at least 20 percent compared with a designated, prior, comparable period.
	6.	Total quantity of the export class has changed (+) by at least 30 percent compared with a designated, prior, comparable period. A-3

## Export monitoring gates--Continued

Category	Economic Criterion	
Export unit value	7. Average unit value of the export class has change (+) by at least 20 percent compared with a designated, prior, comparable period.	d
	8. Average unit value of the export class has changed (+) by at least 30 percent compared with a designated, prior, comparable period.	
Market countries	9. Share of total exports, by value, to at least one country has changed (+) by at least 20 percentage points compared with a designated, prior, comparable period.	
	10. The leading market country, by value, in the current period was not among the top four market countries during a designated, prior, comparable period.	

## APPENDIX B

TRADE DATA FOR ARTICLES COVERED BY THE MTN CIVIL AIRCRAFT AGREEMENT

Trade data on U.S. imports and exports for articles covered by the MTN Civil Aircraft Agreement  $\underline{1}/$ 

			1982	:Change : from : (2) to
	 E	(2)	(3)	(4)
Articles covered by the mtn civil aircraft : agreement :				
Imports: Value (1,000 dollars)	2,878,453	3,690,766:	3,411,105	₩
Exports. Value (1,000 dollars)Engines and parts of engines	13,826,888:	14,073,196:	9,417,960	-33
Value (1,000 dollars)	1,036,336	1,411,096	1,261,798	-11
Value (1,000 dollars)	1,593,989:	1,740,560:	904,835	-48
Quantity (number)	2,549:	3,326:	1,854 786,993	-44
Pumps, fans and blowers, compressors, air-conditioners and refrigerating equipment:	1,393:	1,729: 739,156:	1,743	- 2
Value (1,000 dollars)	8,118:	8,010:	10,400	30
Flight simulating machines and parts thereof	18,937:	22,341:	19,693	- 12
Fynorte:	16,294:	38,377:	67,156	75
Electrical generators, motors and transformers :	26,834:	59,224:	65,729	=
Value (1,000 dollars)	5,686:	9,358;	06249	-27
Ovens and other food warming equipment	14,530:	17,310:	15,740	6 -
Value (1,000 dollars)	1,126:	263:	73	-72
Quantity (units)	15,494:	15,215:	15,130	10

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

Trade data on U.S. imports and exports for articles covered by the MTN Civil Aircraft Agreement

Commodity area :	1980	1981	1982	:Percent :Change : from
	 E	(2)	(3)	(2) to (3) (4)
Amplifiers, receivers, and recorders	•••			
Imports: Value (1,000 dollars)	3,343:	7,061:	4,037	-43
Exports: Value (1,000 dollars)	114,474:	135,822:	151,611	5
Imports: Value (1,000 dollars)	9,060:	11,870:	11,737	7
Value (1,000 dollars)	338,742:	348,557:	361,560	4
Imports: (1,000 dollars)	731:	372:	506	143
Value (1,000 dollars)	7,018:	10,314:	16,423	29
Imports. Value (1,000 dollars)	1,817:	1,951:	2,882	8,4
Value (1,000 dollars)	4,438:	58,575:	69,884	19
Quantity (units)	611:	780: 1,336,505:	724	-77
. Quantity (units)	4,434: 8,251,697:	3,826:	1,557	1.59
Imports: Quantity (units)	511: 830,103:	620:	538	- 13
Apprily (units)	3,940: 7,765,322:	3,325:	1,320	-60
Imports: Quantity (units)	207: 54,854:	260: 105,734:	260	- 19
Value (1,000 dollars)	525:	453:	205,956	-43

Trade data on U.S. imports and exports for articles covered by the MTN Civil Aircraft Agreement

Commodity area	1980	1981	1982	: Percent : Change : from
5 d	 E	(2)	(3)	(2) to (3) (4)
Other civil airplanes				
i. 4.	304: 775,248:	360: 1,108,488:	278:	-23 -16
Multi-engine, 4,400 pounds and over, but Imports:	3,415:	2,872:	1,061: 4,350,649:	-63 -45
Quantity (units)	119: 95, 188:	123,695:	87: 104,285:	-29
Quantity (units)	432: 453,728:	426: 526,043:	308,892	151
Value (1,000 dollars)	156:	219:	151:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Quantity (units)	83,079:	86,452:	25: 136,726:	58
imports: Quantity (units)	17: 279,509:	162,222;	93,742:	-43
Quantity (units)	237: 6,726,954:	255: 7,180,115:	3,834,065:	-53
Exports:	10,222:	10,350:	9,007:	 1 3
Value (1,000 dollars): Meters and gauges Imports:	14,516:	34,928:	343,838:	884
Value (1,000 dollars)Exports:	110,520:	105,892:	123,854:	17
Value (1,000 dollars):	207,419:	230,830:	46,624:	-80

2,629,731:

2,844,636:

3,221,281:

(1,000 dollars)----

: Percent : Change : from : (2) to : (3) 149 6-= 15 Trade data on U.S. imports and exports for articles covered by the MTN Cavil Aircraft Agreement 17: 36: 737,261: 38,161 11,597 1982 (3) 728, 135: 15: 3,895: 15,325 12,682 4,740 1981 (5) 41: 11: 2,786: 7,344 693,622 12,792 1930  $\Xi$ Furniture
Imports:
Value
Exports:
Value
(1,000 dollars)-----Pneumatic tires, of rubber or plastics
Imports: Commodity area

## APPENDIX C

TRADE DATA FOR MOTOR VEHICLE PARTS AND ACCESSORIES

Trade data on U.S. imports and exports for motor vehicle parts and accessories  $1 \over 2 /$ 

Commodity area	1980	1981	1982	Percent Change from
	 E	(2)	(3)	(2) to (3) (4)
Motor vehicle parts and accessories	••••	•• ••		
Imports: (1,000 dollars)	9,028,783	8,446,138	9,110,446	€0
Exports: Value (1,000 dollars)	9,310,763:	11,261,660:	10,641,744	9
Quantity (units)	794,346:	106,840: 493,647:	45,094 497,275	55.
Exports:	95,403: 501,763:	100,323: 553,697:	69, 158:	-31
Imports: Value (1,000 dollars)	2,910,049:	3,226,616	3,550,177	10
Exports: Value (1,000 dollars)	5,651,633:	6,936,538:	6,663,116	4
Imports: Value (1,000 dollars)	265,600:	317,563	376,946	19
Exports: Value (1,000 dollars)	971,695:	1,034,969:	1, 164, 680	5
The (1,000 dollars)	186,552:	182,582:	187,707	m
Exports: Value (1,000 dollars)	81,978:	108,445	96, 106	<del>-</del>
Value (1,000 dollars)	692, 129:	646,747:	843,324	30
Exports: Value (1,000 dollars)	1, 172, 119:	1,384,463:	1,314,181	יי יע
Value (1,000 dollars)	1,765,766:	2,079,722:	2, 142, 198	m
Value (1,000 dollars)	3,425,839:	4,408,659:	4,088,147	-7

 $\frac{2}{s}$  Separate data on U.S. exports are not collected in terms of items covered by the United States-Canadian Automotive Products Agreement (APTA). 1/ Import values are based on Customs value; export values are based on f.a.s. value, U.S. port of export.

Commodity area	1980	. 1981	1982	:Percent :Change
				: (2) to
	(£)	: (2) :	(3)	
Motor vehicle engines and parts				
Imports: Value (1,000 dollars)	1,104,569	9: 1,331,649:	1,666,896	• ••
Exports:     Value (1,000 dollars)	1,691,875	; 1,982,861: ;	1,968,593	
ions, and parts	••			
Value (1,000 dollars)	594,068	764,614:	747,323	
Exports: Value (1,000 dollars)Electrical starting and ignition equipment and	58,682	87,338:	83,574	
••	299,597	377,011:	375,096	
Exports: Value (1,000 dollars)Electric lighting and signaling equipment and parts thereof	371,357	473,561:	458,790	
Imports: Value (1,000 dollars)	55, 186	51,997	59,839	
Exports: Value (1,000 dollars)	: 117,346 :	114,399:	106,011	
Imports: Value (1,000 dollars)	70,528	73,331:	61,197	
Value (1,000 dollars)	16,877	20,546:	19,469	
Imports: Quantity (units)	20,200,209: 1,099,063:	23,409,533: 3: 1,124,170:	27,212,545:	
Quantity (units)	9,627,986:	387,211:	6,874,901 249,391	·
Imports. Value (1,000 dollars)	58,203	. 45,346: : 45,346:	46,569	
Value Value	16.917		12 636	•,

Trade data on U.S. imports and exports for motor vehicle parts and accessories

	1980	1981	1982	Change
	: :	3	3	(2) to (3)
Glass products		• • ••		
0.0	KR 821:		104 401	7.7
Es: (1,000 o	114, 187:	132,943:	125,879	יני
nd leaves fo				
Value (1,000 dollars)Exports:	106,791:	117,949:	118,969	
Value (1,000 dollars)	43, 194:	50,395:	43,588	4
Value (1,000 dollars)	-: 88,479:	111,863:	92,424	-17
Value (1,000 dollars)	61,955:	66,807:	63,894	4-
fans and blowers and part	••••	••••••		
Value (1,000 dollars)	-: 26,081:	32, 134:	84,937	164
~	-: 5,187:	8,219:	7,010	-15
Air conditioning machines, refrigerating equipment, and parts thereof			en e	A.A.
Imports: Value (1,000 dollars)	13, 129:	14,887:	17,140	15
(1,000	. 156,859:	197,135	268,899	36
Furniture designed for automotive use Imports:				
Value (1,000 dollars)	-: 227,127:	235, 171:	241,601	·м
Value (1,000 dollars)	31,828:	54,959:	50,259	6
Imports: Value (1,000 dollars)	-: 47,403:	79,614:	71,087	-11
Exports: Value (1,000 dollars) Measuring, testing, and controlling instruments and parts thereof	20,230:	23,829:	18,250	-23
 o :	. 39,686:	46,948:	54,258	16
exports. Value (1,000 dollars)	-: 2,191:	2,452:	1,917	-22

Trade data on U.S. imports and exports for motor vehicle parts and accessories

Commodity area	1980	1981	1982	:Percent :Change : from
• • •	(1)	(2)	(3)	(2) to (3) (4)
Floor coverings	•••••	•• •• •		
imports: Value (1,000 dollars)	6,558:	7,847:	8,786	12
Yalue (1,000 dollars)	20,197:	25,643:	28,791	12
	219,570:	251,102	254,564	-
Exports:  Value (1,000 dollars)	105,737:	125,981:	120,693	
Imports: Value (1,000 dollars)	2,826,845:	3,259,171:	3,720,170	4
Apports: Quantity (units)	33,795:	19,928: 323,625:	20,511: 329,064:	m 0.
Imports: Value (1,000 dollars)	1,361,157:	1,573,579: :	1,825,758	91
Imports: Value (1,000 dollars)	94,600:	110,187	136,268	54
Imports: Value (1,000 dollars)	75,574:	80,409:	78,818	N 1
Imports: Value (1,000 dollars)	146,964:	182,609:	378,814	107
5 D.C.	1,044,017:	1,200,372:	1,231,857	м <i>.</i>
Value (1,000 dollars):	399,021:	610,412:	786,030	29

Trade data on U.S. imports and exports for motor vehicle parts and accessories

Commodity area	1980	1981	1982	: Percent : Change
		(2)	3	(2) to (3) (4)
Radios, tape players, tape recorders, combinations, and parts thereof				
Value (1,000 dollars)Electrical starting and ignition equipment and parts thereof	26,091	26,587	32,685	23
Imports: Value (1,000 dollars)Electric lighting and signaling equipment and	40,166	58,765	61,564	ī.
Imports: Value (1,000 dollars)	12,786	14,472	17,368	20
Aglue (1,000 dollars)	40,065	46,051	37,267	- 19
Value (1,000 dollars)	23,976	28,822	24,926	-14
Imports: Value (1,000 dollars)Springs and leaves for springs	23,284	29,366	43,711	64
Value (1,000 dollars)	79,645	80,671:	77,242	4
Value (1,000 dollars)	27,579	29,981:	27,202	6
Value (1,000 dollars)	13,635	19,484:	14,454	-26
Value (1,000 dollars)Furniture designed for automotive use	2,253:	2,380:	3,358:	<b>.</b>
Value (1,000 dollars)	181,398	177,691:	185,369	
Value (1,000 dollars)	10,578	13,039	12,710	-3

Trade data on U.S. imports and exports for motor vehicle parts and accessories

							:Percent
Commodity area		1980		1981		1982	:Change
	••				••		: from
	••		••				: (2) to
			••		••		: (3)
		3		(2)		(3)	(4)
	. .		. .				
Measuring, testing, and controlling instruments and parts thereof			•••				
Imports:			••		••		••
Value (1,000 dollars)		14, 192:		19,465	5:	30,500:	: 57
Floor coverings					•••		
Value (1,000 dollars)		6.558:		7.847		8.786:	
Miscellaneous automotive parts and accessories,	••		••		••	) ) •	
n.s.p.f.	•• •		••				
Imports:		160 157	. :	107 025		. 191 696	
	• •	77. 4.01		7017	· ·	202101	· .
	•		•				

## APPENDIX D

ALPHABETICAL INDEX FOR COMMODITY GROUPINGS COVERED IN THE SECTOR TABLES

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beds, and similar dual-purpose sleep furniture, and boxsprings	23
Beef and veal, fresh, chilled, or frozen	19
Belting and belts for machinery, of rubber or plastics and not containing textile fibers	11
Benzenoid hydrocarbons (primary)	10!
Benzenoid organic chemicals	10!
Berries, fresh	27
Bicycles	23
Bodies and chassis for motor vehicles	23. 199
Body-supporting garments	8!
Boilers, nonelectric motors and engines, and other general-	0:
purpose machinery	17
Bolts, nuts, and screws-	149
Books, miscellaneous	5
Botanical pesticides, total-	10!
Boxes (light and heavy containers; bags)	5
Bread made with yeast as the leavening substance	3:
Broadcast band radio receivers other than automobile type	19
Broadwoven fabrics	8:
Broadwoven fabrics, of cotton	8
Broadwoven fabrics, of manmade fibers	8:
Broadwoven fabrics, of silk	8:
Broadwoven fabrics, of wool-	82
Brooms, brushes, paint rollers and combination toilet articles	
Building papers	5(
Bulbs, roots, rootstocks, clumps, corms, or tubers	
Butter	22
Buttons	236
Calcium chloride	106
Calcium compounds	
Calculating, accounting, and similar machines employing a	100
calculating mechanism	187
Calculating machines, except hand-held or pocket type	107
calculators, employing solid-state circuitry in the	
calculating mechanism	188
Calculating machines specially constructed for multiplying	100
and dividing	187
NOT 134 NOT ALL TO ALL	

Calculators, hand-held or pocket type
Calendering and similar rolling machines (except metal-working and
metal-rolling and glass-working machines), and parts thereof
Candied, crystallized, or glace nuts, fruits, fruit peel,
and other vegetable substance
Cased pencils, and pencils, n.s.p.f., chalk crayons, including
charcoal crayons; leads for cased pencils, refill leads, other
crayons and leads; and billiard and tailors' chalk
Cattle
Cattle hides
Cattle-hide upper leather
Cattle-Hide upper leather————————————————————————————————————
Centrifuges and filtering and purifying machinery and parts
thereof
Ceramic bricks and structural clay tiles
Ceramic construction articles
Ceramic construction articles, n.e.c.
Ceramic electrical ware
Ceramic fixed capacitors
Ceramic floor and wall tiles
Ceramic products
Ceramic sanitary ware
Cereal breakfast foods
Chain of base metal
Cheeses
Chemical elements
Cherries, fresh
Chewing gum
Children's vehicles, except bicycles, and baby carriages, and
parts thereof
Chrome ore
Chrome ore and metal
Chrome, unwrought, ex. alloys and waste and scrap
Cigarettes
Cigars
Circuit breakers
Citrus fruit
Clays
Clays, artificially activated and certain other clays
Clays, bentonite
Clays, china clay or kaolin and ball clay
Cleaning and polishing compounds, 10 pounds each or less
Clocks and clock movements————————————————————————————————————
Clothespins
*** YIIY Y D # 11V

	Po
Coal and other carbonaceous material	]
Cobalt ore and metal	<u> </u>
Cobalt, unwrought, unalloyed, and waste and scrap	
Cocoa and confectionery	
Coffee	
Coffee and coffee substitutes, tea, mate	
Columbium ore	
Columbium ore and metal	
Columbium, wrought and unwrought and waste and scrap	
Compressors and parts thereof	
Concrete mixes and articles thereof	- 1
Condensed or evaporated milk and cream, including dried milk	
and cream	
Connectors	
	-
Containerboard (Kraft linerboard)	
Converters, ingot molds, and casting machines, and parts thereof	-
Copper ore and metal	
Copper ore, copper bearing materials, and waste and scrap	
Copper ore, waste and scrap, and unwrought copper	1
Copper, unwrought	- :
Copper, wrought	1
Copying machines	
Cordage	
Cordage and fish netting and nets	
Cordage machines and parts thereof	1
Corn	
Corn oil	
Corn sweeteners	
Costume jewelry	
Cotton	
Cottonseed	
Cottonseed oil	
Crude petroleum	:
Crushed stone	
Cucumbers, fresh, chilled, or frozen	
Curtains and draperies	
Cut flowers, fresh; bouquets, wreaths, sprays, or similar	
articles made from such flower or other fresh plant parts	<b></b> .
Cut gemstones and articles thereof	1
date genip correct what are proceed that corre	
Decalcomanias	
Dental instruments and parts (including artificial teeth	
and dentures)	_ ;
Dextrine and soluble or chemically treated starches-	
Dimension stone and articles thereof	
Distilled spirits	- :
Dalla and aluccad Lau Cinuma ac mainte aliceta	····
Dolls and stuffed toy figures of animate objects	- 2

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Drawing, marking-out, and mathematical calculating instruments; micrometers, calipers, and gauges; balancing machines; non-optical measuring and checking machines, n.s.p.f., and parts-Drilling and boring machinery	- 227 - 181
Drugs and related products-	- 111
Duplicating machines and parts thereof	- 183
Dyes and tanning products of vegetable origin, total-	- 103 - 113
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Edible preparations	- 33
Edible preparations not specially provided for-	34
Edible preparations, not specially provided for————————————————————————————————————	- 22
Elastomers, total	- 112
Electrical articles, miscellaneous	
Electrical capacitors	195
Electrical conductors	- 198
Electrical machinery and equipment-	- 190
Electrical resistors	- 197
Electrical switches and relays-	- 196
Electric cooking stoves and ranges and parts thereof	- 192
Electric furnaces and ovens, welding, brazing, induction and	
dielectric heating equipment	- 192
Electric furnaces, heaters, and ovens and parts thereof	. 192
Electricity, gas, and liquid supply meters, and parts	- 229
Electric lamps	197
Electric lighting equipment for motor vehicles	- 192
Electric shavers, hair clippers, and scissors and parts thereof	- 191
Electric sound and visual signalling apparatus	
Electro-medical apparatus and parts	
Electromechanical household appliances and parts thereof	
Electronic tubes (except X-ray)	198
Electrothermic household appliances, other than cooking stoves	
and ranges, furnaces, heaters, and ovens; and parts thereof	192
Elevators, winches, cranes, and related machinery; earth-moving	
and mining machinery	
Epoxides and halogenated expoxides (non benzenoid)	- 110
Equipment for treating materials by changing temperature and parts thereof	
Equipment specially designed for photofinishing (still pictures)	230
Equipment specially designed for processing and printing motion-	- 230
Essential oils-	- 112
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Filament yarn of manmade fibers	80
Filberts	27
Film resistors	
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Fine papers (printing, writing, and specialty paper items)	50
Fish, dried, salted, pickled, smoked, or kippered	20
Fish fresh or frozen	20
Fish, in airtight containers	20
Fishing tackle	234
Fish netting and nets	81
· · · · · · · · · · · · · · · · · · ·	
bonito and herring	21
Fixed resistors	197
Flavored or blended sugars, sirups, and molasses, maple sugar	
and sirup, and honey	29
Flavoring extracts	112
Flat glass and products thereof	138
Flat goods	226
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Floor coverings	83
Flour mill and grain mill machinery and parts thereof	
Fluid milk and cream, including flavored milk	
Fluorspar	137
Footwear	86
Forged steel grinding balls	
Fork-lift trucks and similar industrial vehicles, including parts	200
Front-end loaders	181
Fruit. dried	28
Fruit, fresh	27
Fruit juices	30
Fruit, prepared or preserved (except dried)	28
Furnace burners and non-electric industrial furnances and ovens,	
and parts thereof	179
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similar dual-purpose furniture	
Furskins	
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variable ratios, pulleys and sheaves; shaft couplings; torque	
converters; chain sprockets; clutches; and universal joints;	
and parts thereof	190
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Glass containers	139
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Halogenated hydrocarbons (non benzenoid)	11
Handbags	220
Handtools, cutlery, forks and spoons——————————————————————————————————	149 49
Hardwood lumber Hardwood veneer and plywood-	4: 4:
Headwear	4: 8(
Hides and skins-	2:
Hops, hop extract, and lupulin	3!
Hose, pipe, and tubing, n.s.p.f. suitable for conducting gases	J.
or liquids, including gaskets and pipe fittings, or rubber	
or plastics	11!
Hosiery	8!
Household and commercial laundry equipment and parts thereof	
Hydraulic cement and cement clinker	11

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Hydrogen peroxide	10
Hydrometers, thermometers, barometers, and similar instrume	
Ice cream	
Ignition equipment	19
Industrial ceramics and ceramic articles, n.s.p.f	
Industrial diamonds	
Industrial molds	
Industrial paperboard	
Industrial papers, packaging and miscellaneous papers	
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Inorganic acids	10
(Certain) inorganic chemical compounds	
Inorganic pigments and pigment-like materials, total-	
Instantaneous or storage water heaters and parts thereof	
Instruments and apparatus for measuring or detecting alpha,	
gamma, X-ray, cosmic or similar radiations, and parts	
Instruments and apparatus to measure or check electrical	
quantities, and parts	
Instruments for physical or chemical analysis, and parts	22
Through a car cares	19
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and ferroalloys	
TLOU OLG	
Jewelry	
Jewe II y	
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Ketones (non benzenoid)	
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Ketones (non benzenoid)	
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Leather wearing apparel, except gloves and headwear, not subject	
to textile import restraints  Lifting, handling, loading, and unloading machinery and parts	- 86
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Lime	
Live animals, except birds and poultry	- 19
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LOGS	- *** 48
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Luggage	
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machines for processing or finishing pulp, paper, or paperboard,	
or making them into articles; and parts thereof	- 18
Machines for making felt and nonwoven fabrics including bonded	
fabrics, in the piece or in shapes, including felt-hat making	
machines and hat-making blocks; and parts thereof	- 18
Machines for working metal, stone, and other materials	- 18
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Magnesium metal-	
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Magnesium, wrought	
Magnetic recording media not having any material recorded thereon	
Magnetic video tape on which pictures or pictures and sound have been recorded	
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Malts and starches	2
Manganese compounds	106
Manganese ore	145
Manganese ore and metal	145
Manganese, unwrought, and waste and scrap-	145
Manmade fibers	79
Meat and poultry packing plant machinery and equipment and	· • • •
parts thereof	182
Meat, except poultry meat-	19
Mechanical shovels, coal-cutters, excavators, scrappers, bull-	
dozers, and excavating, leveling, boring, and extracting	
machinery other than elevators, winches, cranes, and related	
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Mercury ore and metal	145
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Microphones, loudspeakers, and related equipment————————————————————————————————————	193
and cream, cheeses, butter, yoghurt, and ice cream	2.2
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Milled rice	25
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Molybdenum ore and metal	145
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Monohydric alcohols, unsubstituted and halohydrins (non benzenoid)	110
Motion-picture cameras and parts thereof	229
Motion picture film in any form on which pictures, or sound and	4.4.3
pictures, have been recorded, whether or not developed, news	
sound recordings relating to current events abroad; and sound	
recordings produced on photographic or magnetic film, tape, or	
wire, and suitable for use in connection with motion-picture	
exhibits	221
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Motor buses	-
Motorcycles, including parts	
Motors and generators	
Motors, generators, transformers, and related equipment-	
Motor-vehicle parts, except bodies and chassis	
Motor vehicles	were:
Mushrooms and truffles	
Mushrooms, other than fresh or dried	•••
Musical instruments	
Musical instruments, parts and accessories-	
Nails, screws, bolts, and other fasteners; locks; builders' hardware; furniture, luggage and saddlery hardware Narrow fabrics	
hardware; furniture, luggage and saddlery hardware	<b></b> 57
Narrow fabrics	_
Narrow fabrics, machine clothing, belting and belts, and hose, of	
textile materials	
Natural gas and products derived therefrom-	•••
Natural gemstones	-
Natural gums and resins, except pine gum-	••
Natural or cultured pearls	-
Naval stores	···
Neckwear	-
Needles, pins, apparel fasteners, and hair curlers	••
Needles, pins, hair curlers, and apparel fasteners, except buttons	-
Newspapers	•
Newsprint	-
Nickel ore and metal	
Non benzenoid organic compounds, miscellaneous	
Noncellulosic man-made fibers	
Nonelectrically powered hand tools and parts thereof	
Nonelectric engines and motors and parts thereof	
Nonmetallic minerals and products, except ceramic products and	
glass and glass products	
Nonmetallic minerals and products, n.e.c	-
Non-metalworking machine tools and parts thereof-	
Non-piston type aircraft engines	-
Nonrubber footwear-	
Nontextile floor coverings	-
Nontextile floor coverings————————————————————————————————————	
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and the second of the second o	
Office machines-	•
Office machines and parts	•
Oilseeds	•
Oleomargarine and butter substitutes	•

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Ophthalmic goods	
Optical instruments and components other than optical lenses-	
Optical instruments, components and lenses, except ophthalmic	
Optical lenses (except ophthalmic lenses) and elements	
Ordnance and accessories	
Ores of cerium and thorium	
Organic chemicals (nonbenzenoid), miscellaneous	·- 111
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Organs (including pipe, reed and electronic)	- 232
Orthopedic, prosthetic, and surgical appliances and supplies-	227
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Oninto and noluted items total	11/
Paints and related items, total	114
Parts of agricultural and horticultural machinery	- 182
Parts of bicycles	234
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Parts of textile machinery	185
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Pens, mechanical pencils and parts	236
Periodicals	
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Photographic cameras, other than motion-picture cameras,	
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Photographic film viewers titlers, splicers, editors,	
combinations, thereof, and parts	- 230
Photographic flash-lighting apparatus, including electronic	
stroboscopic flash apparatus, photographic light meters, and	
half-tone screens designed for use in engraving or photographic	
processes; and range-finders designed to be used with photo-	
graphic cameras and parts thereof	230
Photographic lens caps, lens hoods, adapter rings and filters;	
film reels and reel cans; and frames and mounts for	
photographic slides	- 230
Photographic papers, including blue print and brown print papers,	
sensitized but not exposed; and heat sensitive papers	- 231
Pianos (including electric pianos, harpsichords, etc.)	
Pig iron, and spiegeleisen	- 140
Pistachio nuts	- 27
Plastics and resin materials	- 112
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Platinum group metals	
Pleasure boats; floating structures	•••
Plywood and building boards	
Pneumatic tires	
Polyhydric alcohols and their derivatives (non benzenoid)	
Pork, fresh, chilled, or frozen	
Pork, prepared or preserved, except sausage and canned hams	
Portable electric hand tools	
Portable electric lamps	
Pottery products, n.e.c.	-
Poultry and poultry meat-	
Power transmission chain of iron and steel	
Precious metal jewelry	
Precious metal ores, and other metal-bearing materials, sweepings, and waste and scrap-	
Precious metals	
Prefabricated buildings-	
Pressed and blown glassware n.e.c	
Primary cells and batteries	
Printed matter	
Printing trades machinery, other than for textiles, and parts thereof	
Products, miscellaneous-	
(Certain) products in schedule 4, part 13	
Projectors and combination camera-projectors, with or without sound reproducing, or sound recording and reproducing systems,	
and parts and projection screens	•••
Pulp and paper machinery; bookbinding machinery; printing	
machinery- Pumps for liquids and parts thereof	
Tumps for Elquido and pares enercor	
Radar	
Radio navigational, radar, and radio remote control apparatus and	
parts thereof	
Radio receivers and parts	
Radiotelegraphic and radiotelephonic apparatus and related equipment	
Rail locomotives and rolling stock	_
Raw fibers	
Record players, phonographs, record changers, and turntables, and	
parts thereof	
Refractory and heat-insulation products	
Refrigerators and refrigeration equipment and parts thereof	
Rhenium metal	
Rice (paddy and brown)	
Robes and dressing gowns-	

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Rubber and plastics waste and scrap; film, strips, sheets, other	110
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Sardines	21
Sauces	2.1
Sausage	34
Sausage casings, n.s.p.f	20
Sausage casings, n.s.p.f	237
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Sewing machines and parts thereof including furniture specially	130
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Shellfish	21
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Sodium carbonate	107
Sodium chloride	
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Sodium hydrosulfite-	
Sodium sulfate	
Soft drinks and certain other nonalcoholic beverages	30
Softwood lumber	48
Softwood veneer and plywood-	49
Sound recordings on disc of soft wax (master records), or metal	
matrices obtained therefrom, for use in the manufacture of	
sound records for export; and scrap and waste photographic	
film fit only for the recovery of its constituent materials-	232

Sound recordings other than phonograph records, and magnetic	
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50ups	
Soybean oil	
Soybeans	·
Special purpose motor vehicles	• ••••
Speedometers, tachometers, revolution counters and similar counting devices, and parts	,
Spices	
Sporting goods	• •••
Sprayers and dusters and parts thereof	
Spun yarn, including chenille yarns and handwork yarns	
Spun yarn of cotton, manmade fibers, or silk	
Spun yarn, of wool or hair	·
Starches	•
Steam engines, steam turbines, and other vapor power units, and parts thereof	
Steam generating boilers and auxiliary equipment and parts thereof-	
Storage batteries	
Structures of base metal	
Sugar, sirups, and molasses	
Sugar, sugar beets, and sugar cane	
Sulfur dioxide	
Sunflower seed-	
Surface-active agents	
Surgical and medical instruments and apparatus-	
Surveying, hydrographic, navigational, meteorological,	
hydrological, geophysical instruments, and parts-	
Sweaters	g odker - <del>m</del>
Swine	
Switchboards and switchgear assemblies	
Switches other than circuit breakers	_
Supportion duas total	
Synthetic dyes, total ————————————————————————————————————	
Synthetic gemstones	••••
Synthetic organic pesticides, total	
Synthetic tanning materials	
Synthetic toners (pigments) and lakes, total	
Table flatware-	
Table flatware, precious metals	
Table flatware, stainless steel-	
Table, kitchen, household, art, and ornamental pottery	
Tanks and other self-propelled armored vehicles, including parts	
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Wirewound resistors	- 197
Women's, girls', and infants' dresses	- 8
Women's, girls', and infants' shirts and blouses	- 8
Women's, girls', and infants' suits, skirts, coats, and jackets	- 8
Women's, girls', and infants' trousers, slacks and shorts	84
Wood manufactures, miscellaneous	- 4
Wood pulp	- 50
Wool and fine animal hair	- 79
Woven or knit fabrics, coated or filled, or laminated with sheet rubber or plastics, and other laminated fabrics, and fabrics,	
n, s, p, f,	- 8:
Wrapping and packaging machinery, machinery for cleaning or drying containers, machinery for aerating beverages, dishwashing machines, and parts thereof	- 180
X-ray equipment and electro-medical apparatus and parts	
Yachts or pleasure boats, including parts	- 20
Zinc	<u> </u>
Zinc compounds	- 10
Zinc metal and waste and scrap	14
Zinc ore and concentrate	- 14
Zinc sulfate	10
Zirconium compounds	- 10
Zirconium oxide	- 10

## APPENDIX E

U.S. PRODUCTION, EXPORTS OF DOMESTIC MERCHANDISE, IMPORTS FOR CONSUMPTION, APPARENT CONSUMPTION, AND EMPLOYMENT, 1981

U.S. production, exports of domestic merchandise, imports for consumption, apparent consumption, and employment, 1981 1/

Commodity area   Production   Exports 2/ Import	2,08 1,19 1,19 1,19 1,19 1,19 1,19 1,19 1,1	8	Imports to   Exp 	Exports to	employment  1,000 workers  5/ 2,300  5/ 1,623  5/ 1,623  5/ 1,623  10  10  11  17  17  17  17
33,367,000 229,803 34 23,473,000 65,467 19 6,574,700 9,126 19 7,152,000 1,055,683 2,08 32,597,041 247,816 1,19 11,811,000 11,055,683 1,34 11,115,000 11,396 11,39 11,115,000 11,396 11,39 11,115,000 11,396 11,39 11,115,000 120,240 8 1,000,000 12,031 11,391 11,33 11,192,035 12,031 12,031 11,392,035 11,050,000 12,031 12,031 11,050,000 12,031 11,050,000 11,050,000 11,050,000 11,050,000 11,52,19 11,833,000 11,52,19 11,52,19 11,52,19			6/ 1 6/ 1 6/ 1 1 1 1 8 1 8 8	900 30	1,000 workers  5/ 2,300  5/ 1.623  5/ 1.623  100  100  100  118  61  17  17  22  23  24  25  25
33,367,000 229,803 34 23,473,000 65,467 19 23,473,000 65,467 19 23,473,000 1,025,683 2,08 32,597,041 247,816 1,19 32,597,041 247,816 1,19 11,115,000 11,055,683 2,08  age and 11,115,000 11,396 11,396 11,115,000 11,396 11,396 11,000,000 120,240 8 1,000,000 120,240 8 1,000,000 120,031 11,396 1,192,035 12,031 12,031 11,33 1,192,035 12,031 12,031 11,33 1,180,000 148,028 18,000 11,050,000 17,773 1,187,700 17,773 1,187,700 175,219 1,33,486,100 175,219					
try meat					
1.0   1.0					
try meat				_	
try meat				_	100 1 200 35 35 18 18 61 17 17 168
1,000   47,497   1,000   1,055,683   2,08   1,095,683   2,08   1,095,683   2,08   1,095,683   2,08   1,191,000   11,396   1,					200 35 35 18 18 61 17 168
11,115,000   1,035,003   1,035,003   1,035,003   1,035,003   1,035,003   1,035   1,135   1,135   1,135   1,135   1,135   1,135   1,135   1,135   1,135   1,135   1,135   1,135   1,135   1,135   1,3		•		_	150 18 18 61 17 17 168 168
or preserved, except sausage and   11,115,000   11,396   11,115,000   11,396   11,115,000   11,396   11,115,000   11,396   11,115,000   11,396   1,346   1,340   1,000,000   1,340				_	18 61 17 17 168 2 2
or preserved, except sausage and   11,115,000   11,396   1   1   1   1   1   1   1   1   1				_	61 17 168 168 2 2
or preserved, except sausage and:   6,692,000   48,449   48,449   48,702   1,000,000   690,986   1,34   1,002,000   1,34   1,002   1,000,000   1,300   1,700   1,281,700   1,700   1,31   1,102,035   1,000					17 168 168 2 2
ted, pickled, smoked, or 136,000 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,800			## ### ###############################	69	17 168 2 2 2 2
ted, pickled, smoked, or 136,000 1,700			8 8 1 1 1 4 4 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1		168 2 2 25
ted, pickled, smoked, or  ted, pickled, smoked, or  ted, pickled, smoked, or  136,000 157,074 19 1901,700 1,700 1,700 1,700 1,281,700 1,281,700 1,381 1,192,035 1,192,035 1,192,035 1,192,035 1,193,000 1,880,005 1,880,005 1,881,000 1,883,000 1,883,000 1,883,000 1,883,000 1,883,000 1,883,000 1,75,219 1,686,000 1,75,219					2 2 2 2 2 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2
the containers				 	2 25
airtight containers, including 1,281,700 1				 on m	25
airtight containers, including 1,281,700 2/7 11  bonito, and herring 49,500 26,758 3  ream, including flavored milk 1,192,035 12,031 1,333  ream, including flavored milk 1,192,035 12,031 1,333  ind cream, including 3,054,800 148,028 1,830,800 1,830,800 1,773 1,050,000 1,773 1,050,000 1,187,700 1,050,000 1,773 1,050,000 1,187,700 1,050					7
airtight containers, including		1,3		•	
airtight containers, including : 49,500 : 26,758 : 3   1,192,035 : 240,181 : 1,33   1,192,035 : 240,181 : 1,33   1,192,035 : 240,181 : 1,33   1,192,035 : 12,031 : 1,192,035 : 12,031 : 1,192,035 : 1,193,000 : 1,		2,2		/9	20
bonito, and herring———————————————————————————————————		. 2,2			
ream, including flavored milk porated milk and cream, including:		••	 	•	<b>-</b>
ream, including flavored milk: 18,100,000 : 12,031 : porated milk and cream, including : 3,054,800 : 148,028 : 1,830,800 : 1,830,800 : 7,773 : 1,050,000 : 7,773 : 1,050,000 : 7,187,700 : 21,090 : 33 : xcept fluid and condensed or milk and cream, cheeses, butter, : 1,833,000 : 3,486,100 : - : 3,486,100 : - : 3,486,100 : - : 3,688,000 : 175,219 : - : : 1,833,000 : 175,219 : - : : : : : : : : : : : : : : : : :	•	•		: 22 :	81
1,833,000   1,050,100   1,050,000   1,050,005   1,050,005   1,050,000   1,05	991'9 : 169'71	: 001,440,81 : 8	۱۵		C S
d butter substitutes			,		-
d butter substitutes			) è		77
xcept fluid and condensed or : 7,187,700 : 21,090 : : : : : : : : : : : : : : : : : :	·	٠	· • • • • • • • • • • • • • • • • • • •	·	. 7
xcept fluid and condensed or milk and cream, cheeses, butter, ice cream————————————————————————————————————	21,090 : 332,062	2 : 7,498,700 :	· <b>→</b>	. /9	33
milk and cream, cheeses, butter, : 1,833,000 : 3,927 : ice cream			••		
ice cream	••	••		••	
3,486,100:	••	10: 1,829,100:	<b>%</b>	 /9	=======================================
3,688,000 : 175,219 :	••	••			17
	••	••	/i	 ;	= :
736,100 : 690,974 :		<b>-</b>	59		
11/70 : 007/600 :					71
Cattler	00,40J : 504,23J	. 000,803,3	₽ ≪		S #
25.500 . 00.552.2			8		7
1k 10c	•		. 40°		. 40
otstocks, clumps, corms, or					•
42,426 : 3,624 :	3,624 : 41,249	. 001,08	. 52	 	8/ 500
2,500,000 : 35,350 :		 M	gueral o •		140
. 450,000 : 167,476 :			. 16	. 78	5/ 23
	٠٠			••	

U.S. production, exports of domestic merchandise, imports for consumption, apparent consumption, and employment, 1981 1/--Continued

Commodity area	Production .	Exports 7/	. Tumborcs 3/	Constitution of	Tangante	ŀ	And and
	• ••			COLLS CIMP CTOL	: Imports to :consumption	: exports to : n : production :	amptoyment
		1,000 dollars	lars		<u>P</u> e	[일	1,000 workers
	37 977 600	17 900 459	A7 526 .	20 124 667	/9		5/ 1 300
Crains	20,502,500	8.007.074	15.989	12.511.415	) 		26,7
Calculation (allowed by a chief of the	1, 687, 300	545,698	849	1.142.500	i 3	32	,
Ehoat	10, 195, 900	7,843,960	235	2,352,200	· • • • • • • • • • • • • • • • • • • •		5/ 380
Milled grain products	6.816.900	1,355,800	10,400	5,471,500	, <b>'</b> 9	20	1
Billed rice	2,200,000	981,611	. 4,348	1,222,700	ور د.	. 45 :	
Milled wheat	2,770,000:	309,429	3,017	2,463,600	ر د :	: ::	
Malts and starches:	1,291,000:	45,850	: 37,134 :	1,282,300			
Malts	746,900	7,788	: 15,297	754,400		: : :	
Starches	544,100:	37,256	: 21,242 :	528,100	•	:	
Vegetables, fresh, chilled, or frozen:	6,805,600	446,063	: 541,752 :	6,901,300			<u>اي</u>
Cucumbers, fresh, chilled, or frozen:	91,400 :	6,052	: 54,875 :	140,200	39		\ <u>2</u>
Tomatoes, fresh, chilled, or frozen:	563,300	50,023	238,255	751,500	32	. 6	12
Vegetables, dried, desiccated or dehydrated:	1,033,981:	730,565	: 42,730 :	346,100	: 12	21:	
Vegetables, processed (except dried or frozen):	5,582,500:	127,955	: 156,482	5,611,000	m .		
Mushrooms and truffles:	184,400 :	3,044	: <b>68</b> ,030 :	279,400	. 35		
Mushrooms, other than fresh or dried:	167,200:	372	: 79,574	246,400	. 32	<b>)</b> 91	
Nuts, shelled or not shelled, blanched, or :	••		••				
otherwise prepared or preserved:	1,788,000 :	623,797	: 531,713	1,695,900	. 31	••	 اح
Almonds	291,100:	307,890	: 215 :	20,000		<b>-</b>	
F11berts	11,700:	946'9	5,214	10,000	: 52	53	8/ 1,300
Pistachio nuts:	17,640:	1,237	8,146	24,549	. 33		
Fruit, fresh:	2,800,000:	856,962	: 789,560	2,700,000	: 29		:: اح
Berries, fresh:	297,300:	27,597	: 14,573	284,300			100
Cherries, fresh:	67,700 :	16,605	: 195		<b>/</b> 9	. 52	:  5
Citrus fruit:	1,712,712 :	418,769	53,616	1,347,559		24	
Fruit, dried:	465,700:	224,282	20,183				
Fruit, prepared or preserved (except dried):	2,000,000	171,742	254,290	5,082,500	•••	••	
() ives	28,900 :	3,894	: 77,965	103,000	9	ET	<u>8</u> / 1,550
Candled, crystallized, or glace nuts, fruits,		•	278	67 800	•		
truit peel, and other Vegetable substances:	33,0	1,00	0/6'6	00° / 00°			
Sugar, sirups, and motasses:		200		C33 C63			
beets, and sugar cane	2,996,100	797,900	/07/161/7	000,700,4			
70 I as sessions and a session	210,000	*T*'07	/1/'/11	301,300		-	
COFF SWeeteners	1,9/6,000	1/0'07	061	676' /46' 1	اه 	<b>-</b>	
riavored or biended sugars, sirups, and	•						
Horizon and a second a second and a second a	9/ 2.472.200 :	38,263	47.612	2.481.500			
Cocoa and confectionery	9/ 5,189,000 :	87,244	126,966 :	6,101,700	16		
Coffee and coffee substitutes, tea, mate:	5,0	142,249	3,019,422	7,900,000	38	m	
Coffee:	3,300,000 :	130,372	260,000	3,400,000	æ <u>;</u>	••	
Spices	5/ 702,000 :	22,217	136,033	816,000		m	
						•	

U.S. production, exports of domestic merchandise, imports for consumption, apparent consumption, and employment, 1981 1/--Continued

				Apparent	Rati	Ratio of4/	Total	l
Commodity after	Production	Exports <u>2</u> /	Imports 3/	: consumption	: Imports to :consumption	: Exports to : production :	employment	
		1,000 dollars	ars		:Percent-	cent:	1,000 workers	1
Soft drinks and certain other nonalcoholic				•• ••	••••			
beverages	20,014,000	49,757	37,964	20,002,200	<b>/9</b>	·· /9	150	9 (
Wines and certain other fermented alcoholic	De '600'6	C16, oc	376,333		•		Ť	<b>Q</b>
beverages	1,500,000	42,209	761,594	2,200,000	32	· · ·	7	12
Uistilled spirits	٠,	55,807	1,179,957	3,770,000	: 31		=	w.
Charattee	9/ 12,800,000	2,722,785	556,144	10,600,000				62
רושמו פרנפסייייייייייייייייייייייייייייייייייי	007, 740, 01	. 640,11	409'/	10/ 8,/48,600 10/ 314 400	<u>د</u> اه	. 71		<b>4</b>
Ollseeds	13.424.200	6.732.656	86.772	6.778.300	61	n <u>G</u>	9 /5	635
Cottonseed:	575,700	10,599	26	565,127	, /9	2 :	5/5	54
Flaxseed	53,000	. 99	36,622	89,558	: 41	: /9	9 /5	9
Soybeans	12,281,500	6,199,626	1	6,081,900	)TI	 	5/ 5/	9
Onimal and venetable offe fate and ansaes.	א מ	510,656	9,573	10/90,320	= °		/SI	13
Corp of 1	000,384,000	Ę	/97'1/#	3,037,400		97	•	41
Cottonsand of 1	, v	196 086	S <b>≤</b>	00/'0CT .	کا افا 			= "
Sovbean oll		457.469	17.	2 101 002	کا اف			n 0
Other vegetable oils	₹ <b>▼</b>	226.807	453.879	705,172	<b>₽</b> 9			, ,
Animal and marine-animal oils	2.2	787,281	10,621	1.520,300		34		. =
Shortening and cooking oils:	9/ 5,884,000	82,958	6,552	5,807,594	<b>/9</b> :	-		13
Natural gums and resins, except pine gum:		33,385	137,577	: 114,200	120	334 :		-
Edible preparations	1				••			
Broad made with west as the length.	000'008'/ /6 :	39,074	95,228	7,860,000		·· ·	7	222
oreal made with year as the reavening	,	407		7 213 600				ç
Cereal breakfast foods	000,000,000	25,652	019./1	313,800	کا اف 	·· · · · · · · · · · · · · · · · · · ·		2 2
Chewing qum	;	19,735	100	700 300	) ) 			<u>.</u> «
Macaroni, noodles, vermicelli, and similar					·	• ••		
allmentary pastes:	و ا	3,905 :	43,929	. 987,000	•	 ⁄9i 		<b>~</b>
Sauces	2,0	43,694	34,126	1,990,400		. 7		23
Edible preparations not specially	000,000,1 /g	. c6/'c1	20, 103	1,504,300	<b>-</b>	 		97
provided for	9/ 7,400,000	413.055	102.803	7.089.700				71
Animal feeds, and ingredients therefor:	44,904	2,746,868	132,737	42,290,200	, ,		7	. 79
Naval stores	9	66,185	6,709	317,500		: 81		ر م
	A							
out Tiowers, Tresh, bouquets, wreaths, sprays, :				•••	•••	••••		
or other fresh plant parts	332,000	19,000	152,500	466.000	33	4		11
Hops, hop extract, and lupulin	120,154	98,667	35,767	57,254		. 82 :	8	190
Miscellaneous vedetable products		A BA .	31,374	19,000	165		/ZI	
		700		201'666 · ·	, .		<b>/3</b> 1	
See footnotes yat end of table.				3.				

otnotes At end o

U.S. production, exports of domestic merchandise, imports for consumption, apparent consumption, and employment, 1981 1/--Continued

Production	Communicity area   Production   Charles   Imports 2/					Apparent	Rat	Ratio of4/	Total
1,000 doi:16.55.000   1,400,479   1,535.000   2,4   11   11   11   11   11   11   11	17,800,000   1,400,479   275,940   15,950   15,950   1,400,479	Commodity area	Production	Exports 2/	Imports 3/	consumption	: Imports to	: Exports	employment
17,000,000   1,400,479   173,940   18,595,000   6/ 2   11   11   11   11   11   11   11	17, 800, 000   1, 400, 179   175, 910   15, 555, 000   1, 400, 179   1, 400, 179   1, 400, 179   1, 400, 170   1			[lob 000,1	ars		Pei	2	1,000 workers
17,800,000	17,600,000	FOREST PRODUCTS	••••				•••••		
9/ 744,000         104/71 is         11550         8,700         6/4         111           9/ 528,000         665,544         1,610         60         24         113           1/ 176,000         13,044         16,156         9         14         11           1/ 176,000         13,044         14,155         9         14         11           1/ 176,000         13,044         14,155         16,000         1         14           1/ 176,000         13,044         14,155         16,000         1         1           1/ 176,000         17,154         14,154         16,000         1         1           1/ 137,000         17,154         14,100         1         1         1           1/ 137,000         1,182         1,170         1	9 78 000         1,094 715         19,589         8,709,000         £4         111           7 011 000         655 544         1917,299         8,019,000         £4         112           9 1 1716 000         243 006         655 44         165,000         27         11           9 2 1 1716 000         243 006         656 000         10         5         11           9 2 1 1716 000         243 006         650 300         10         5         11           9 1 1716 000         243 006         650 4910         5,066 000         10         5           9 1 1716 000         24 000         11,199         11,100         2         11           1 1 1739 000         24 000         11,100         5         11         6           1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Rough wood products	17.800.000	1.480.479	275.940	16.595,000			11
9/ 7013,000         967 775         1,911,339         8,019,000         24         113         1           9/ 7013,000         243,045         1,679,068         1,650,000         243,045         1,616,000         27         12         1           9/ 1,716,000         243,045         1,679,068         1,650,000         27         12         1           10         2/ 3,150,000         229,316         504,910         5,066,000         10         5         1           11         2/ 4,700,000         229,316         504,910         5,066,000         1         6         6         1         <	9/7 (013,000         907 (743,000         907 (743,000         907 (743,000         243 (0145,008         8 (197,068         27         12         1           8-6         9/7 (216,000         243 (045         145,048         1,556 (290         3         14         1           9/7 (176,000         243 (045         143,048         14,049         1,665 (200         10         5         1         1           9/7 (176,000         243 (176,000         243 (176,000         243 (176,000         26,048         1		9.784,000	1,094,715	19,690	8, 709,000	/9 :	=	
99, 5246, 000         655,544         1,697,68         6,399,524         27         12         1           18, 756,000         243,000         243,043         1,616,000         29         14         1           18, 750,000         223,316         504,310         5,66,299         3         1         1           28, 300,000         72,316         504,310         5,66,299         3         1         1           1,379,400         72,32,000         72,334         681,787         1839,862         3         6           1,379,400         34,347         681,787         1839,862         3         6         7           1,379,400         34,347         681,787         18,000         4         7         7           1,379,400         34,347         681,787         11,000         6         6         7           1,379,400         18,372         17,280         1,000         6         7         1           1,220,000         1,225,000         17,280         1,100         6         6         1         1           1,230,000         1,225,000         17,281         1,100         6         6         1         1         1	9/ 5,268,000         665,544         1,687,008         67,349         171         12         11           8	Lumber	7,013,000	907,735	1,913,239	8,019,000	7	. 13 :	14
9/11/16,000         243,026         14;359         1,616,000         9         14;359         1,616,000         9         14;356         14;356         14;356         14;356         14;356         14;356         14;356         15;356         10         5;34         14;356         10         5;34         14;356         10         5;34         14;356         10         5;34         14;356         10         10         5;34         14;356         14;356         10         10         5;34         14;356         14;356         10         10         11         6;68         10         11         6;68         10         11         10         10         12         11         10         10         12         12         10         10         12         10         14         14         10         10         12	89         14,156,000         43,026         146,560         9         14           85         11,16,000         43,024         1566,000         10         5         1           85         13,000,000         229,316         504,910         5,666,000         10         5         1           1         1300,000         36,349         68,379         8,123,450         8         5         1           1         1,300,000         36,347         1,180,000         6         7         7         1           1         1,300,000         1,46,500         1,76,200         11         6         6         1         6         1         1         6         6         1 <t< td=""><td>Softwood lumber</td><td></td><td>655,544</td><td>1,697,068</td><td>6,309,524</td><td>: 27</td><td>: 12 :</td><td>12</td></t<>	Softwood lumber		655,544	1,697,068	6,309,524	: 27	: 12 :	12
9/ 3,500,000         43,043         95,342         3 55,399         3         1           180,000         229,310         506,000         10         5         1           9/ 3,000         36,343         68,930         84,000         2         8         1           1,379,400         36,347         68,936         11,199         84,000         2         9         1           1,379,400         11,379,400         11,379,400         11,270         11,100         6         1	18.5.000,000         43,043         99,342         3,566,209         3         1           18.5.000,000         22,93,16         99,342         3,566,209         1	Hardwood lumber		243,026 :	143,359	1,616,000		. 14 :	2
19/4,700         729,316         504,910         5,066,000         10         5           1379,000         72,536         194,000         10         5           1,300,000         72,536         194,000         10         5           1,313,000         1,322,000         186,347         10,294         4,150,000         6           1,320,000         1,46,500         10         5         11         6         6           1,320,000         1,46,500         1,46,500         1         11         6         6           1,300,000         1,46,500         1,46,500         1,47,040         1         15         6           1,300,000         1,22,002         1,27,000         1         1,300,000         1         1         15           1,300,000         1,300,000         1,300,000         13,300,000         13,300,000         1         1         1         1           1,300,000         1,300,000         13,300,000         13,300,000         13,300,000         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	9/ 4/300         229,316         504,910         5,066,000         10         5           1379,400         72,536         1347         68,377         181,000         6         5           1379,400         91,307         56,347         1139,600         6         7         7           1372,400         13,374         17,294         4,150,000         6         7         7           1372,000         13,743         60,000         17,64,289         3,500,000         50         7         7         7           14,200,000         17,46,289         1,600,000         6/         11         15         6         6         11         15         6         6         11         15         6         6         11         15         6         6         11         15         6         10         9         10	Millwork	<u>س</u>	43,043	99,342	3,556,299	m ;	 (	9;
9/9 500,000         365,347         681,199         841,000         6         5         6         6         7	9/ 900,000         77,589         61,797         841,700         6         7         6         7 </td <td>Miscellaneous wood manufactures</td> <td>4</td> <td>229,316</td> <td>504,910</td> <td>5,066,000</td> <td> 01</td> <td> </td> <td></td>	Miscellaneous wood manufactures	4	229,316	504,910	5,066,000	 01	 	
1,390,000   13,347   1,839   182   192   193   193   194   195   194   195	1,379,400	Prefabricated buildings	~ i	72,569	13,199				- C
9/350,000         19/327         17/244         4,190,000         6/100         4/327,000         13/44         60,099         571,000         11         6         6         50         5	1,20,000   19,727   17,244   4,190,000   6/10   6	Plywood and building boards	. 000,000,7	365,347	551 757	•	æ Ç.		,
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	1, 2, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,	Coffinod voncor and nimood	. 004,876,1	. 767 981	/9/,155	1,039,062	_		7 4
9/3,500,000         1,746,566         1,764,289         3,500,000         50         50           1,800,000         268,526         23,769         1,600,000         1         15           board)         1,300,000         1,225,002         27,587         11,100,000         6/         1         15           g, and specialty         9, 19,200,000         752,717         3,326,531         1,100,000         6/         13         4         4         4           g, and specialty         9/19,200,000         752,717         3,326,531         2,100,000         6/         13         4         <	9/ 3,500,000         1,746,289         3,500,000         50         50           1,800,000         2,81,526         1,756,289         3,500,000         1         15           1,800,000         1,22,789         1,600,000         6/         1         1         1           1,300,000         1,22,002         27,787         1,100,000         6/         1         2         1	Darticle board	546,000	34,601	60 09	571,000		r vc	
1,820,000   266,526   1,600,000   1   1   1   1   1   1   1   1   1	1,820,000   268,556   1,600,000   1   15	aling poom	m	1.746,506	1.764.289				
12,310,000	13,90,500   8,312   34,852   417,040   6   6   10     12,320,000   669,161   12,071   4,330,000   6   6   13     3, and specialty   2/19,200,000   752,717   3,326,531   21,800,000   15   6     2/2,402,000   13,702   2,834,777   5,100,000   55   6     3/2,110,000   13,735   96,180   257,850   37   8     3/2,110,000   875,433   332,313   38,800,000   6   7     3/2,100,000   130,445   6,600,000   6   7     3/2,1000,000   10,931   21,500,000   6   7     3/2,1000,000   10,931   50,517   19,500,000   6     3/2,1000,000   10,931   50,517   19,500,000   6     3/2,1000,000   17,088   6,500,000   6   7     3/2,1000,000   17,088   6,360   192,200   1     3/2,1000,000   17,088   6,360   193,201   6     3/2,1000,000   17,088   6,360   193,201   6     3/2,1000,000   17,088   6,360   192,200   1     3/2,1000,000   17,088   6,360   193,201   6     3/2,1000,000   17,088   6,360   193,201   6     3/2,1000,000   17,088   6,360   192,200   1     3/2,1000,000   17,088   11,664,887   1   1     3/2,1000,000   17,081   11,741   1,315,090   1     3/2,1000,000   17,091   12,741   1,315,090   1     3/2,1000   17,0	Waste paper	1,8	268,526	23,769	1,600,000	:	: 15 :	
Deard)         1225,002         27,587         11,100,000         6/5         10           B, and specialty         5,000,000         669,161         12,071         4,330,000         6/5         13           9, and specialty         9/19,200,000         752,717         3,326,531         21,800,000         55         6           9/19,200,000         135,200         139,702         2,827,777         5,100,000         37         8           9/10,200,000         13,532         2,827,800         19         7         8           and miscellaneous         9/10,000         875,433         382,313         38,800,000         1         2           and miscellaneous         9/21600,000         875,433         382,313         38,800,000         6/         1         1         2           and miscellaneous         9/210,000         875,433         382,313         38,800,000         6/         4         9         1         2           and miscellaneous         9/21,600,000         130,445         6,600,000         6/         4         9         1         1         2         1         4         9         1         1         2         1         4         1         1         4	12, 30, 000   1, 225, 002   27, 587   11, 100, 000   6/4   11   12, 071   4, 350, 000   6/4   11   12, 071   4, 350, 000   6/4   11   12, 071   4, 350, 000   6/4   11   12, 071   4, 350, 000   6/4   1/4	Building papers	390,500	8,312 :	34,852	417,040	<b>80</b>	: 7	
g, and specialty         9/ 19,200,000         752,717         3,326,531         21,800,000         15         4           g, and specialty         9/ 2,402,000         139,702         2,824,777         5,100,000         55         6           g/ 2,402,000         139,702         2,824,777         5,100,000         55         6           g/ 175,200         13,535         96,180         255,850         37         8           and miscellaneous         9/ 110,000         875,433         382,333         382,000         1         2           and miscellaneous         9/ 110,000         875,433         382,000         6/ 125,600         1         2           and miscellaneous         9/ 21,600,000         875,433         382,000         6/ 4         9           ainers; bags)	g, and specialty         9/ 19,200,000         752,717         3,326,531         21,800,000         15         4           g, and specialty         9/ 19,200,000         752,717         3,326,531         21,800,000         15         4           g, 19,200,000         139,702         2,84,777         5,100,000         55         6           g, 175,200         13,976         2,84,777         5,100,000         19         7           ainers; bags)         g/ 110,000         130,445         20,031         2,560,000         6/         1         2           ainers; bags)         g/ 10,000         130,445         20,031         2,560,000         6/         1         2           ainers; bags)         g/ 10,000         130,445         20,031         2,560,000         6/         1         2           ainers; bags)         g/ 10,000         130,445         20,031         2,560,000         6/         1         1           ainers; bags)         g/ 10,000         10,931         50,517         19,500,000         6/         1         4         9           ainers; bags)         g/ 10,000         10,931         50,517         19,500,000         6/         1         4         4	Industrial paperboard	12,320,000:	1,225,002	27,587	11,100,000	/9 :	. 01	9
g, and specialty     9/ 19,200,000     752,717     3,326,531     21,800,000     55     6       6     13,55     96,180     257,850     37     8       9/ 2,402,000     13,55     96,180     257,850     37     8       10     110,000     13,55     96,180     257,850     37     8       10     110,000     13,55     96,180     257,850     37     8       10     110,000     87,433     382,313     38,800,000     1     2       10     20,300,000     875,433     382,313     38,800,000     6/     1     1       10     20,000,000     522,332     286,456     6,600,000     6/     4     9       10     20,000,000     722,801     319,176     75,600,000     6/     4       10     20,000,000     10,931     50,517     19,500,000     6/     4       10     20,000,000     17,088     6,366     192,200     1     4       10     20,200,000     17,088     6,366     192,200     1     4       11     4,337,490     2,259,979     5,530     2,083,041     6/     2       11     12,510,400     764,875     19,500,000     3     <	g, 19, 200, 000         752,717         3,326,531         21,800,000         15         4           g, 2, 402,000         139,702         2,834,777         5,100,000         55         6           g, 175,200         13,535         96,180         257,850         37         8           g, 175,200         13,535         96,180         257,850         19         7           and miscellaneous         9/ 110,000         13,535         96,180         257,850         19         7           and miscellaneous         9/ 39,300,000         875,433         382,313         38,800,000         1         2           ainers; bags)	Containerboard (Kraft linerboard)	: 000'000'5	669,161	12,071	4,350,000	/9 	. 13 :	2
9/ 19,700,000       72,717       3,326,531       21,800,000       15       4         9/ 175,200       13,335       224,777       5,100,000       37       8         and miscellaneous       9/ 175,200       13,335       38,3784       125,600       19       7         and miscellaneous       9/ 39,300,000       875,433       382,313       38,800,000       1       2         ainers; bags)	9/ 13/200,000       725/71/7       5,136,531       21,800,000       15       4         9/ 2,402,000       135,55       96,180       257,850       37       6         9/ 110,000       8,171       23,784       125,600       19       7         and miscellaneous       9/ 110,000       875,433       382,313       38,800,000       1       2         athers; bags)       9/ 21,600,000       130,445       20,031       21,500,000       6/       1       1       1         1       9/ 6,000,000       722,801       3176       5,600,000       6/       1       4       9         1       9/ 76,000,000       722,801       3176       7,500,000       6/       1       4       9         1       9/ 76,000,000       10,931       50,517       19,500,000       6/       1       4       4         1       9/ 950,000       10,931       50,517       19,500,000       6/       6/       6/       1       4         1       9/ 950,000       10,931       51,948       9,650,000       6/       4       9       1       4         1       9/ 950,000       17,948       6,366       192,200       3	Fine papers (printing, writing, and specialty							•
9/2,402,000       139,722       2,824,777       5,100,000       55       6         and miscellaneous       9/2,105,200       13,535       96,180       257,850       19       7         and miscellaneous       9/2,110,000       875,433       382,313       38,800,000       1       2         ainers; bags)	9/1,200       13,535       9,180       55,100       6         9/1,200       13,535       96,180       155,860       19       7         and miscellaneous       9/10,000       11,535       10,180       10       10         and miscellaneous       9/2,116,000       11,475,500       11       2       2         anners; bags)       9/2,1600,000       130,445       20,031       21,500,000       6/7       1       1         9/2,1600,000       130,445       20,031       21,500,000       6/7       1       1       1       1         10,21,100,000       10,931       20,000       6/600,000       6/7       1       4       1	paper items)	: 9/ 19,200,000 :	752,717	3,326,531	21,800,000	. 15		84
and miscellaneous     27     119,242     15,240     15,740     17,741     17,741     1	and miscellaneous 9/ 110,000 875,433 382,313 38,800,000 1 2 2 3 7 7 7 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1	Newsprint		139,/02	2,824,///	5,100,000			
and miscellaneous	and miscellaneous	A Ding		12,030	23 784	125,600			
ainers; bags)       9/ 39,300,000       875,433       382,313       38,800,000       1       2       2       2       1       2       2       2       1       2       2       1       1       2       2       3       312,500,000       6/       1 <td>ainers; bags)       9/ 39,300,000       875,433       382,313       38,800,000       1       2       2       2       1       2       2       2       1       2       2       2       1       2       2       2       1       2       2       2       1       2       2       2       2       1       2       <t< td=""><td>Industrial papers, packaging and miscellaneous</td><td></td><td></td><td></td><td></td><td></td><td>· · ·</td><td></td></t<></td>	ainers; bags)       9/ 39,300,000       875,433       382,313       38,800,000       1       2       2       2       1       2       2       2       1       2       2       2       1       2       2       2       1       2       2       2       1       2       2       2       2       1       2 <t< td=""><td>Industrial papers, packaging and miscellaneous</td><td></td><td></td><td></td><td></td><td></td><td>· · ·</td><td></td></t<>	Industrial papers, packaging and miscellaneous						· · ·	
ainers; bags)     9/ 21,600,000     130,445     20,031     21,500,000     6/     1       ainers; bags)     9/ 6,900,000     592,352     286,456     6,600,000     6/     1       ainers; bags, 500,000     10,931     319,176     75,600,000     6/     1       ainers; bags, 500,000     10,931     50,517     19,500,000     6/     6/       ainers; bags, 500     17,088     6,366     192,200     3     8       ainers; bags, 500     17,088     6,366     192,200     3     8       ainers; bags, 500     17,088     6,366     192,200     6/     6/       ainers; bags, 501     11,034,900     2,259,979     5,530     2,083,041     6/     28       ainers; bass, 502     11,034,900     764,875     772     10,349,797     1     7       ainers; bass, 502     11,034,900     173,151     12,714     1,315,090     1     1	ainers; bags):     9/ 21,600,000     130,445     20,031     21,500,000     6/ 11       2/ 6,900,000     592,352     286,456     6,600,000     6/ 600,000     6/ 11     1       2/ 19,500,000     10,931     50,517     19,500,000     6/ 11     6/ 11       2/ 19,500,000     363,473     51,948     9,650,000     6/ 1     6/ 1       2/ 9,950,000     17,088     6,366     192,200     3     8       3/ 19,500,000     17,088     6,366     192,200     3     8       4,337,490     2,259,979     5,530     2,083,041     6/ 2     28	papers	39,3	875,433	382,313	38,800,000		: 7	33
9/ 6,900,000       592,352       286,456       6,600,000       4       9       1         9/ 76,000,000       722,801       319,176       75,600,000       6/       1	9/ 6,900,000       592,352       286,456       6,600,000       4       9         9/ 76,000,000       722,801       319,176       75,600,000       6/       1       1       1         9/ 19,500,000       363,473       51,948       9,650,000       1       4       4         9/ 9,950,000       363,473       51,948       9,650,000       3       8       8         9/ 9,950,000       17,088       6,366       192,200       3       8       8         9/ 202,900       17,088       6,366       192,200       3       8       8	Boxes (light and heavy containers; bags)	21,6	130,445	20,031	21,500,000	/ <u>9</u> ::		22
9/ 76,000,000       722,801       319,176       75,600,000       6/       1	9/ 76,000,000       722,801       319,176       75,600,000       6/       1	Miscellaneous books	6,9	592,352	286,456	000'009'9 :	₹	 	Ó
		Printed matter	0′9/	722,801	319,176	. 75,600,000	<b>/</b> 9		1,30
9/950,000       363,473       51,948       9,650,000       1       4         9/202,900       17,088       6,366       192,200       3       8         9/202,900       17,088       6,366       192,200       3       8         12,510,400       2,259,979       5,530       2,083,041       6/       52         12,510,400       938,026       92,513       11,664,887       1       8         11,034,900       764,875       79,772       10,349,797       1       7         11,034,900       173,151       12,741       1,315,090       1       12,741       1,315,090       1       12		Newspapers	19,5	10,931	50,517	19,500,000	/9 :	: /9 :	8E
4,337,490       2,259,979       5,530       2,083,041       6/       52         138,563       38,864       163,322       263,021       62       28         12,510,400       938,026       92,513       11,664,887       1       8         10,34,900       764,875       79,772       10,349,797       1       7         1,475,500       173,151       12,741       1,315,090       1       12,741       1,315,090	4,337,490       2,259,979       5,530       2,083,041       6/       52       2         138,563       38,864       163,322       263,021       62       28         12,510,400       938,026       92,513       11,664,887       1       8         bers	Periodicals	e, 9	363,473	51,948	000'049'6 :			Ď
			· me'707 /2	. 880, 11	995, 9	207,261	• • ••	•	
		TEXTILES APPRABEL AND ENOTINEAR							
fine animal hair————————————————————————————————————							:::		
		Raw filbers:			1				;
	Ders	Mool and fine animal hair	. 4,337,490 :	2,259,9/9 38 864	5,530	2,083,041		28.	23
flbers	bers	Man-made Fibers		938,026	92,522	11 664 887			œ
	6	Noncellulosic man-made fibers		764,875	79,772	10,349,797	· == ·		
	See footnotes at end of table	Cellulosic man-made fibers	1,475,500 :	173,151	12,741		<b></b>	. 12 .	<b>.</b>

U.S. production, exports of domestic merchandise, imports for consumption, apparent consumption, and employment, 1981 1/--Continued

				Apparent	Ratic	Ratio of4/	Total	
Commodity area	Production	Exports <u>2</u> /	Imports 3/	consumption	Imports to consumption	Exports to :	employment	
		1,000 dollars-	lars		:	ent:	1,000 workers	
Textile fibers processed, but not woven or knit :	-						•	
(except cordage)Spun yarn, including chenille yarns and	000'866'6	808,974	200,018	9,389,004	~	 æ	118	
handwork yarns	7,365,800	128,944	140,761	7,377,617	7		96	
Spun yarn of cotton, manmade fibers, or SIIK:: Spun yarn of Lool or hair	7,010,900	122,292	295,942	335,846	<b>→</b> 6	7 -	6 K	
Filament yarn of manmade fibers	2,632,200	648,950	51,112	2,034,362	7	25	19	
Sewing thread::	764,500	30,369	4,051	737,912	 -		<b>o</b> (	
Cordage and fish netting and nets	225,628	15,794	: 109,849 : . 6,252 :	319,683			9 -	
Condage	; <u> </u>	14,960	103,597	299,724	35		. 6	
Broadwoven fabrics:						. ,	•	
Broadwoven fabrics, of cotton	6,144,000	335,239	603,744	6,412,505		 o	122	
Broadwoven fabrics, of silk:	35,810	6,231	117,658	147,237			17	E-
of o	858,000	6,178	104,719	956,541		-	13	•6
Knit fabrics:	5,361,000	: 72,718	15,875	5,304,157	 /j	-	47	
Narrow fabrics, machine clothing, belting and						•••		
Narrou fahrics	913.081	998.29	29.731	874.946		/	22	
Webs, wadding, batting, norwoven fabrics, and					•	•••		
articles thereof, n.s.p.f		170,567	57,848	1,725,054	 m	 •	13	
Textile fabrics for use in pneumatic tires	767,500	107,215	516	660,801	<b>/</b> 9i		<b>&amp;</b>	
Woven or Knit fabrics, coated or filled, or						•		
other laminated fabrics, and fabrics,			•		• • •			
n.s.p.f.	1,464,530	259,814	91,047	1,295,763		18 :	13	
Textile furnishings:	8,274,130	572,663	525,799	8,227,266		~ 1	133	
Floor coverings	5,250,391	344,603	307,308	5,213,096			53	
Textile furnishings, except floor coverings,	25.77	777		130,166		• • •	3	
curtains, and draperies	2,087,999	214,608	: 208,952	2,082,343	: <b>01</b> :	: 01	51	
Wearing apparel and accessories, including	20.697.000	1,209,393	7.409.803	56.897.410	en		1.244	
Sweaters	877,300		787,654	1,658,481	84	•••	18	
Women's, girls', and infants' shirts and	200			.00				
Momen's girls and infants' suits skirts	3,462,100	140,14	1,163,432	4,603,691	07	• ••	671	
coats, and jackets	3,493,500	40,122	770,746	4,224,124	18	-	89	
Women's, girls', and infants' trousers, slacks;	2 113		730 667	3 806 535	4	-	09	
Women's, girls', and infants' dresses	3,367,900	79,456	201,417	3,489,861			148	
Men's and boys' shirts	3,550,700	179,827	1,089,544	4,460,417	24 :		26	
See footnotes at end of table.					. •	•		

U.S. production, exports of domestic merchandise, imports for consumption, apparent consumption, and employment, 1981 1/--Continued

Imports to : Exports to : employment consumption : production : prod					Annarent	Ratio	10 Of4/	Total	
Dept. suits, coats, and jackets   1,350,000   15,218   156,775   1,944,049   15,519   1,000 sortiers   1,0	Commodity area	Production			consumption	: Imports to	: Exports : producti	employment	
nd bysy' suits, coats, and lackets————————————————————————————————————			lob 000,1	lars		:Pe	5	1,000 worker	SI
Indicating sports, stacks, and shorts————————————————————————————————————		3,336,200	52,828	563,727	3,847,099	: : :			11
December   1,000,000   1,000	Men's and boys' trousers, slacks, and shorts:	4,650,800	135,228	468,476	4,984,048				173
profiting garaents	Men's and boys' neckwear	336,000	2,095	15,631	349,536	• ◀	· ··		4 80
The filting party hose	Body-supporting garments	896,200	88,806	: 167,761	975,155	: 17	01		17
Petroleum includar, Const.   Petroleum incl	Hosiery, including panty hose	2,743,400	36,864	13,725	2,700,261		 7		63
Apparel and articles, n.s.p.f., of fur subscriptions, n.s.p.f., of fur stine	Gloves	691,800	65,806	215,507	841,501	. 26			22
Continue   Continue	Wearing apparel and articles, n.s.p.f., of fur :		202 63	021 301	440 063				•
Perrocarbons (primary)	Leather wearing apparel, except gloves and		070'60	106,170	*****				ŧ
FetroLeuw, NATURAL GAS_AND RELATED  Fortrear——————————————————————————————————	headwear, not subject to textile import :		1						
Ferrocteur, MATURAL, GAS., AND RELATED  FFTROCLEUR, MATURAL, GAS., AND RELATED  Hydrocarbons (primary)————————————————————————————————————	restraints:	248,200	15,967	207,067	439,300	47	•		7
PETROLEUM, NATURAL, GAS, AND RELATED         4,834,146         120,236         2,493,786         7,207,656         35         2           PETROLEUM, NATURAL, GAS, AND RELATED         14,000,000         693,486         424,619         13,731,133         3         5         2           In hydrocarbons (primary)         14,000,000         693,486         424,619         13,731,133         3         5         2           organic chanticals         19,043,440         1,583,299         673,044         18,133,183         4         8         8           perticides, total———————————————————————————————————	460400	5,406,619 :	140,064	3,141,218 . 647 432	8,407,273	3,			165 23
PETROLEUM, MATURAL CAS, CAND RELATED         PETROLEUM, MATURAL CAS, CAND RELATED         PETROLEUM, MATURAL CAS, CAS, CAS, CAS, CAS, CAS, CAS, CAS,	Nonrubber footwear	4,834,146	120,236		7,207,696	35			143
PETROLEUM, NATURAL GAS, AND RELATED         14,000 000         683 486         424,619         13,731,133         3         5           I organic chemicals         19,043,440         1,583,299         673,044         18,133,183         4         8           I organic chemicals         21,000         36,130         11,137,183         4         8           2 pesticides, total         2,944,000         36,135         17,801         28,134         28         3         13/4           2 pesticides, total         2,944,000         36,135         13,187,08         10         10         10           2 permission         1,100,000         2,645,538         1,187,600         14         16         10           norganic chemical         1,100,000         2,655,538         2,183,138         16,157,600         14         16         11           num compounds         1,290,000         2,655,38         2,183,138         16,187,600         14         16         13           num compounds         1,500,000         2,655,38         2,183,138         14,143         4         16         11           num compounds         15,000         12,000         12,000         12,000         12,000         12,000         12,000				•••					
hydrocarbons (primary)         693,486         424,619         13,731,133         3         5           lorganic chemicals         19,043,440         1,583,299         673,044         18,137,83         4         8           lorganic chemicals         2,157,282         1,203,701         311,172         4,264,753         7         23           pesticides, total         2,157,282         1,203,701         311,172         4,264,753         7         23           pesticides, total         2,944,000         667         7,801         2,914,786         10         10           a cids         2,944,000         96,355         135,663         1,138,708         12         9           n compounds         1,100,000         2,655,538         2,183,138         16,157,600         14         16           n compounds         1,200,000         2,655,538         2,183,138         16,157,600         14         16           n compounds         1,200,000         2,055,17         836,108         1,920,591         44         16           n compounds         15,000         13,004         4,088         6,034         4,111         13/           n compounds         15,000         12,600         12,400 <t< td=""><td>CHEMICALS, PETROLEUM, NATURAL GAS, AND RELATED</td><td>• • •</td><td></td><td>• • •</td><td></td><td>• ••</td><td></td><td></td><td></td></t<>	CHEMICALS, PETROLEUM, NATURAL GAS, AND RELATED	• • •		• • •		• ••			
14,000,000     693,486     424,619     13,731,133     3     5       19,043,440     1,583,299     673,044     18,133,183     4     8       21,000     67     7,601     28,13,183     4     8       21,000     67     7,601     294,786     10     10       11,00,000     96,355     135,063     1,138,708     12     9       11,00,000     2,625,538     2,183,138     16,157,600     14     16       16,600,000     2,625,538     2,183,138     16,157,600     14     16       11,290,000     205,517     836,108     1,920,591     44     16       66,000     4,500     20,345     81,845     25     7     13/       76,000     13,004     4,088     67,084     6     17     13/       151,000     12,501     6,338     141,437     4     11     13/       155,000     12,400     14,437     4     11     13/       150,000     12,501     6,338     141,437     4     16       150,000     12,529     13,860     67,084     6     6       150,000     16,500     1,529     13,800     12/     6       150,000     16,500 </td <td>PRODUCIS</td> <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	PRODUCIS	•							
19,043,440         1,583,299         673,044         18,133,183         4         8           21,002         21,033,701         311,172         4,264,753         7         23         3           21,002         26,000         308,181         278,967         2,914,786         10         10         10           11,00,000         96,355         135,063         1,138,708         12         9         11           11,00,000         2,625,538         2,183,138         16,157,600         14         16         9           11,290,000         2,625,538         2,183,138         16,157,600         14         16         16           11,290,000         2,625,538         2,183,138         16,157,600         16         7         13           11,290,000         2,625,517         836,108         67,084         6         7         13           11,290,000         4,500         20,345         81,845         25         7         13           15,000         15,901         6,338         141,437         4         16         13           15,000         12,600         12,865         85,022         26         6         6           150,000 <t< td=""><td>Benzenoid hydrocarbons (primary)</td><td></td><td>693,486</td><td>424,619</td><td>13,731,133</td><td></td><td></td><td></td><td>16</td></t<>	Benzenoid hydrocarbons (primary)		693,486	424,619	13,731,133				16
2,19,202         1,20,202         1,20,203	Benzenoid organic chemicals		1,583,299	673,044	18,133,183	<b>→</b> r			32
acids————————————————————————————————————	Synthetic organic pesticides, total	7	3	7 801	28 134	. 80	 E7	13/	<b>C7</b>
acids————————————————————————————————————	elements	2,944,000	308,181	278,967	2,914,786	101	· · · · · · · · · · · · · · · · · · ·	î	23
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Inorganic acids:	1,100,000:	96,355	: 135,063	1,138,708	: 12			2
1,290,000       205,517       836,108       1,920,591       44       16         66,000       4,500       20,345       81,845       25       7       13/         76,000       13,004       4,088       67,084       6       17       13/         15,000       15,901       6,338       141,437       4       11       13/         15,000       12,263       21,885       85,022       26       16       16         15,000       12,263       16,601       12/       2       6       6         15,000       12,263       143,180       2       6       6       6         15,000       1,529       13,860       677,331       2       6/       6         15,000       1,529       13,860       677,331       2       6/       6         15,000       12,11,107       1,625       477,518       6/       2       6         18,704       49,157       618,453       8       3       3       3         11,991       213       35,022       1       12/       13/       6	Certain inorganic chemical compounds	_	2,625,538	2,183,138	16,157,600	14	.: 16 ::		100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Aluminum oxide	1,290,000	205,517	836.108	•	44	16		m
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Antimony compounds	000'99	4,500	20,345		25		13/	)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Calcium compounds		*   				•		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Calcium chloride:	26,000	13,004	4,088	67,084	•	: 17 :	13/	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		151,000 :	15,901	. 6,338	141,437	₹ (	= ;		-
15,000     12/0     10/0	Manganese compounds	: 004,5,	12,263	21,885	85,022	_	_		7
665,000     1,529     13,860     677,331     2     6/       61,000     6,288     680     55,392     1     10       61,000     121,107     1,625     477,518     6/     20       680     18,704     49,157     618,453     8     3       66,800     11,991     213     35,022     1     26     13/	Molybdenum compounds	: 000,61	٠	16,601					<b></b> -
e	Silver Compounds	. 000,061	1,539	0,440	677 331				
ate	Sodium compounds:		770 / 7						-
	Sodium bicarbonate	61,000 :	6,288	: 089	55,392	<b>-</b>	. 01		-
18,704:49,157:618,453:8:8:3:3:	Sodium carbonate:	: 000' 265	121,107	1,625	477,518	/9 :	: 20 :		10
	Sodium chloride:	288,000	18,704	: 49,157	618,453	æ ·	 m	•	လ
	Sodium hydrosulfite:	46,800	11,991	: 213	35,022		: 56 :	13/	

E-7

Troolection					: : Apparent	Rati	Ratio of4/	Total	
72,500 12,980 19,135 78,655 24 14,55,780 12,980 19,135 725,434 710,099 106 23,475 21,088 1153,393 14 14 155,780 2,34,75 21,088 1153,393 106 23,475 21,088 1153,393 106 23,470 2,012 3,344 36,732 9 106 25,000 2,254 1,412 50,158 3 1 11,225,933 3,045,400 1,047,166 9,227,719 111 10,000 1,000 1,047,166 9,227,719 111 10,000 1,047,166 9,227,719 111 10,000 1,047,166 9,227,719 111 10,000 1,047,166 9,227,719 111 11,000 1,047,166 9,227,719 111 11,000 1,047,166 9,227,719 111 11,000 1,047,166 9,227,719 111 11,000 1,047,000 1,047,166 1,148 614,664 3 11,000 1,047,166 1,148 614,660 1,149,660 1,149,600 1,154,620 5 1,000 1,0	Commodity area	Production	Exports 2/	Imports 3/	consumption	Imports to	1	employment	
155,780   12,980   19,135   78,655   11,155,780   23,475   21,088   153,393   11,155,780   23,475   21,088   153,393   11,155,780   2,012   3,344   36,732   11,150   25,000   2,254   1,412   50,158   23,000   2,254   1,412   50,158   23,204   2,000   2,254   1,412   50,158   23,204   2,000   2,254   1,412   50,158   23,204   2,000   2,265   2,000			lob 000,1	lars		:ber	. ဦ	1,000 workers	LS
155,780   12,480   19,135   78,655					•		••		
135,000   86,335   75,434   710,099   113,464   13,464   13,464   13,464   13,464   13,464   13,464   13,464   14,12   14,12   13,136   13,464   14,12   14,12   13,136   13,564   1,412   13,136   13,566   12,500   1,047,166   9,227,719   12,236,500   1,047,166   9,227,719   12,236,266   10,811   12,236,369   1,047,166   9,227,719   12,234,226   12,138   27,7711   13,138   27,7711   14,870   1,686,090   1,686,090   1,686,090   1,81,591   1,81,591   1,81,391   1,81,391   1,81,391   1,81,391   1,81,391   1,81,391   1,566,693   1,	sodium suitate	72,500	12,980	19,135	78,655	24	80 4	-	
35,400 2,012 3,344 36,732 1,186 13,464 14,000 1,722 1,186 13,464 15,000 2,254 1,412 50,158 28,204 25,000 7,449 2,265 83,956 1,004,166 9,227,719 1,225,933 3,045,400 1,047,166 9,227,719 1,225,933 3,045,400 1,047,166 9,227,719 1,225,933 3,045,400 1,047,166 9,227,719 1,042,022 245,221 1,111 687,289 11,4870 1,688,090 1,048,640 1,181,891 36,011 73,042 1,544,620 1,040,000 1,181,891 31,986 68,905 1,528,749 1,1150,032 24,239 1,1150,032 24,039 1,068,089 21,566,633 1,068,089 21,566,639 1,068,090 1,069,000 1,069,090 1,069,	and a compound of the compound	133,780	C/b'C7	755 434	133,393	106			<b>⊣</b> હ
35,400       2,012       3,344       36,732         14,000       1,722       1,186       13,464         25,000       2,254       1,412       50,158         25,000       2,654       4,030       28,204         25,000       7,149       2,605       83,956         pounds	nadium compounds:	-	656,050	+c+'cc/ .			<b>3</b>		7
14,000	Vanadium pentoxide:	35.400	2.012	3,344	36.732		•		7
1,000   1,722   1,186   13,464   1,412   25,000   2,254   1,412   26,0158   28,204   26,605   28,204   26,605   28,204   26,605   28,204   26,605   28,204   26,605   28,204   26,605   28,205   28,204   26,607   24,205   24,205   24,205   26,677   21,719   24,226   20,677   31,702   245,251   284,844   26,871   113,138   271,111   21,005   26,005   26,005   26,005   26,005   26,005   26,005   26,005   26,005   26,005   26,005   26,005   26,005   26,005   26,005   26,005   26,005   26,005   26,005   26,005   27,005   26,005   27,005   26,005   27,005   26,005   27	nc compounds:						•		•
51,000       2,254       1,412       56,158         25,000       7,149       2,605       81,956         ppounds       11,225,953       3,045,400       1,047,166       9,227,719         spounds       11,225,953       3,045,400       1,047,166       9,227,719         spounds       234,226       20,677       31,002       245,251         234,226       20,677       31,318       614,864         687,268       122,896       14,870       1,688,090         1,842,022       268,802       114,870       1,688,090         1,842,022       268,802       114,870       1,688,090         1,842,022       268,802       114,870       1,688,090         1,842,022       268,802       114,870       1,688,090         1,842,022       268,802       114,870       1,688,090         1,842,022       268,802       114,870       1,688,090         1,842,022       124,439       45,279       1544,620         1,842,022       124,439       45,279       1544,620         1,842,022       124,439       45,279       131,010         1,842,023       363,974       32,075       857,769         1,180,082       1	Zinc sulfate:	14,000	1,722	1,186	13,464	6	: 12		
51,000       2,254       1,412       50,158         25,000       22,605       1,956       18,956         11,225,953       3,045,400       1,047,166       9,227,719         37       11,225,953       3,045,400       1,047,166       9,227,719         37       11,225,953       3,045,400       1,047,166       9,227,719         37       122,896       78,089       640,881         284,844       26,871       13,138       271,111         284,844       26,871       13,138       271,111         687,268       88,552       16,148       614,864         687,268       88,552       16,148       614,864         687,268       88,552       16,148       614,864         687,268       88,552       16,148       614,864         697,769       360,011       73,042       1,544,620         100,000       124,439       45,279       317,010         396,170       124,439       45,279       317,010         396,170       12,484       32,045       35,374         396,000       11,50,082       26,416       36,374       37,402         397,000       22,228,396       1,068,089       12	rconium compounds:	•		•	•	•			
25,000         7,149         26,565         83,204           pounds         11,225,953         3,045,400         1,047,166         9,227,719           spounds         11,225,953         3,045,400         1,047,166         9,227,719           y1         685,688         122,896         78,089         640,881           1)         224,226         20,677         31,702         245,251           24,426         20,677         31,702         245,251           24,484         26,871         13,138         271,111           24,484         26,871         14,870         1,688,090           rives (non         1,81,591         360,011         73,042         1,544,620           c acids,         1,189,668         363,974         32,075         857,769           s of         1,181,839         351,566         68,905         1,544,620           s of         1,181,839         351,566         68,905         1,544,620           s of         1,181,839         351,566         68,905         1,544,620           s of         1,110,082         354,429         15,44,620           s of         1,110,082         351,64         32,075         857,769	Zirconium oxide:	51,000	2,254	1,412	50,158	m 	◀		-
pounds————————————————————————————————————	Ifur dioxide:	25,000	826	4.030	28.204	. 14	m	•	
y) 685,688 122,896 78,089 640,881 78,089 640,881 78,089 640,881 78,089 640,881 78,089 640,881 78,111 78,089 640,881 78,11	drogen peroxide	88,500	٠.	2,605	83,956	· m	•		
y1   685,688   122,896   78,089   640,881   12,896   12,896   12,895   13,138   17,702   245,251   13,138   13	ellaneous non benzenoid organic compounds:	'n	.045	.047		. 11	: 27		115
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	ganic acids, acid anhydrides and acvl					•	••		
1,	halides	685.688	122.896	78.089	640.881	: 12	82		15
284,844       26,871       13,138       271,111         4d       1,842,022       268,802       114,870       1,688,090         1,ves (non       1,842,022       268,802       114,870       1,688,090         1,ves (non       1,81591       360,011       73,042       1,544,620         1,colds       1,189,668       363,974       32,075       857,769         1,dolds       1,189,668       363,974       32,075       857,769         1,dolds       1,189,668       36,905       1,528,778         1,150,082       726,416       102,098       15,528,764         1,150,082       726,416       102,098       12,166,127         1,2000,000       188,302       334,429       12,166,127         1,2000,000       188,302       34,429       12,566,693         1,2000,000       2,228,396       1,068,089       21,506,693         1,2000,000       2,228,396       1,068,089       21,506,693         1,97,300       2,676,675       272,796       16,574,354         1,997,233       2,676,675       272,796       16,574,364         1,900,000       95,653       19,100       177,565         1,000,000       455,905       26,017 <td>Its of organic acids (non benzenoid):</td> <td>234.226</td> <td>20,677</td> <td>31.702</td> <td>245,251</td> <td>13</td> <td>6</td> <td>13/</td> <td>E-</td>	Its of organic acids (non benzenoid):	234.226	20,677	31.702	245,251	13	6	13/	E-
1,82,268   88,552   16,148   614,864   614,864   614,864   614,864   614,864   614,864   614,864   614,864   614,864   614,862   614,864   614,865   614,864   614,865   614,862   614,8	dehydes (non benzenoid):	284.844	26.871	13,138	271,111	· · ·		1	۰ 2
dd         1,842,022         268,802         114,870         1,688,090           ilves (non cacids, d)         1,831,591         360,011         73,042         1,544,620           c acids, d)         1,189,668         363,974         32,075         857,769           s of doll	tones (non benzenoid)	687, 268	88.552	16.148	614.864		13		4
1,842,022 268,802 114,870 1,688,090 1	nohydric alcohols, unsubstituted and								
1,831,591   360,011   73,042   1,544,620     c acids,	halohydrins (non benzenoid)	~	268.802	114.870	1,688,090		. 15		18
c acids,       1,831,591       360,011       73,042       1,544,620         c acids,       1,189,668       363,974       32,075       857,769         s of       396,170       124,439       45,279       317,010         s of       1,811,839       351,966       68,905       1,528,778         benzenoid)       1,150,082       726,416       102,098       525,764         benzenoid)       1,500,002       188,302       354,429       12,166,127         benzenoid)       12,000,000       2,228,396       1,068,089       21,566,693         22,667,000       2,228,396       1,068,089       21,566,693         22,667,000       2,228,396       1,068,089       21,566,693         22,667,000       2,228,396       1,068,089       21,566,693         22,667,000       2,228,396       1,068,089       21,566,693         24,029       12,706       165,74,354       177,402         9/ 2,965,398       701,229       994,600       3,756         9/ 350,000       99,655       87,721       441,803         9/ 3,000,000       455,905       267,017       9,511,112         9/ 5,94,000       2,265,631       145,391       69,269       2,189,509 <td>lyhydric alcohols and their derivatives (non :</td> <td>i i</td> <td></td> <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td>	lyhydric alcohols and their derivatives (non :	i i		•					
(c acids,     1,189,668     363,974     32,075     857,769       s of     396,170     124,439     45,279     317,010       1,150,082     726,416     102,095     1528,778       1,150,082     726,416     102,098     12,166,127       12,000,000     188,302     354,429     12,166,127       12,000,000     188,302     352,796     358,769       18,987,233     2,676,675     17,566,633       18,987,233     2,676,675     17,566,633       18,987,233     2,676,675     17,566,693       18,987,233     2,676,675     17,566,693       18,987,233     2,676,675     17,566,693       18,987,233     2,676,675     17,402       18,987,233     2,676,675     17,402       18,987,233     2,676,675     17,402       18,987,233     2,676,675     177,402       18,987,233     2,676,675     177,565       18,987,000     96,627     24,029     177,565       18,987,000     95,565     87,130     177,565       18,987,000     145,391     69,267     189,509       18,987,000     146,5391     164,591     188,245       18,987,000     146,5391     166,680     177,565       18,987,000     146,	benzenoid):	_	360,011	73,042	•	·.	. 20		6
1,189,668       363,974       32,075       857,769         s of       396,170       124,439       45,279       317,010         1,1811,839       351,966       68,905       1,528,778         1,150,082       726,416       102,098       12,528,778         12,000,000       188,302       354,429       12,166,127         12,000,000       188,302       354,429       12,166,127         22,667,000       2,228,396       1,068,089       21,506,693         18,987,233       2,676,675       1272,796       16,574,354         18,987,233       2,676,675       17,506       16,574,354         18,987,233       2,676,675       17,506       16,574,354         18,987,233       2,676,675       17,402       17,402         9/ 350,000       96,627       24,029       277,402         9/ 350,000       96,627       24,029       277,402         9/ 383,000       33,918       72,721       421,803         145,391       69,267       189,509       267,017       9,511,112         10,000       90,565       87,081       164,591       888,245         10,000       145,391       60,227       6,6803,924       6/	ters of monohydric alcohols, organic acids, :				• •				
s of  396,170	and inorganic acids (non benzenoid):	~	363,974	32,075	. 857,769	•	. 31	••	9
104)	oxides, halogenated expoxides ethers of		•						
benzenoid) 1,811,839 351,966 68,905 1,528,778 benzenoid) 1,150,082 726,416 102,098 525,764 12,000,000 188,302 354,429 12,166,127 22,667,000 2,228,396 1,068,089 21,506,693 18,987,233 2,676,675 272,796 16,574,354 18,987,233 2,676,675 272,796 16,574,354 18,987,233 2,676,675 277,796 16,574,354 18,987,233 2,976,000 3,258,769 177,565 19,700,000 455,905 267,017 9,511,112 17,706,000 455,905 267,017 9,511,112 17,706,000 455,905 267,017 9,511,112 17,706,000 455,905 267,017 9,511,112 17,706,000 455,905 267,017 9,511,112 17,706,000 455,905 267,017 9,511,112 17,706,000 455,905 267,017 9,511,112 17,706,000 455,905 267,017 9,511,112 17,706,000 455,905 267,017 9,511,112 17,706,000 455,905 267,017 9,511,112 17,706,000 455,905 20,257 6,803,924 6/10,001 17,001	monohydric alcohols and acetals:	396,170	124.439	45.279	317,010	. 14	33		6
benzenoid) 1,150,082 726,416 102,098 525,764 1 12,000,000 188,302 354,429 12,166,127 22,667,000 2,228,396 1,068,089 21,506,693 18,912 18,912 18,912 18,912 18,912 18,912 18,912 18,912 18,912 18,912 18,912 18,912 18,912 18,912 18,912 18,912 19,190,000 455,905 18,721 421,803 18,912 19,700,000 455,905 18,721 421,803 18,700,000 455,905 18,721 421,803 18,72,721 421,803 18,72,721 421,803 18,72,721 421,803 18,72,721 421,803 18,72,721 421,803 18,72,721 421,803 18,72,721 421,803 18,72,721 421,803 18,72,721 421,803 18,72,721 421,803 18,72,721 18,72,721 421,803 18,72,721 18,72,721 18,72,721 421,803 18,72,721 18,72,72,721 18,72,721 18,72,721 18,72,721 18,72,721 18,72,721 18,72,721	logenated hydrocarbons (non benzenoid):	1,811,839	351,966	: 68,905	-		. 19	••	53
12,000,000 188,302 354,429 12,166,127 22,667,000 2,228,396 1,068,089 21,506,693 22,667,000 2,228,396 1,068,089 21,506,693 22,667,000 2,228,396 16,574,354 272,796 16,574,354 2736,000 3,258,769 277,402 27,721 421,803 27,2721 421,803 27,2721 421,803 27,265 37,667 448,457 28,804 10,152 80,362 37,667 448,457 28,804 11,20 25,000 3,107 320 22,213	scellaneous organic chemicals (non benzenoid):	1,150,082	726,416	102,098	525,764	: 19	: 63		∢
22,667,000       2,228,396       1,068,089       21,506,693         18,987,233       2,676,675       272,796       16,574,354         27,965,398       701,229       994,600       3,258,769         9/ 350,000       96,627       24,029       277,402         9/ 380,000       33,918       72,721       421,803         9/ 383,000       33,918       72,721       421,803         9/ 383,000       455,905       267,017       9,511,112         9/ 2,265,631       145,391       66,269       2,189,509         10,735       87,001       20,257       6,803,924       6/         10,735       87,001       37,667       448,457         10,152       80,362       37,667       448,457         10,152       80,362       37,667       448,457         10,101       2,000       5,100       32,904       22,213         10,102       3,107       320       22,213	ocarbons (aliphatic):	12,000,000	188,302	354,429	: 12,166,127	er 	~		66
18,987,233       2,676,675       272,796       16,574,354         27,2965,398       701,229       994,600       3,258,769         9/ 350,000       96,627       24,029       277,402         9/ 190,000       99,565       87,130       177,565         9/ 383,000       33,918       72,721       421,803         9/ 383,000       455,905       267,017       9,511,112         9/ 2,265,631       145,391       69,269       2,189,509         10,000       200,333       20,257       6,803,924       6/         10,001       495,905       2,025       6,803,924       6/         10,002       200,333       20,257       6,803,924       6/         10,003       87,081       164,591       888,245         10,152       80,362       37,667       448,457         10,000       5,100       32,904       22,213         25,000       3,107       320       22,213	s and related products:	22,667,000	2,228,396	1,068,089	: 21,506,693	. 5	2 :		164
9/ 2,965,398     701,229     994,600     3,258,769       9/ 350,000     96,627     24,029     277,402       9/ 190,000     99,565     87,130     177,565       9/ 330,000     455,905     267,017     9,511,112       9/ 9,700,000     465,905     267,017     9,511,112       9/ 9,700,000     465,905     267,017     9,511,112       9/ 9,700,000     405,391     69,269     2,189,509       10/ 9,700,000     200,333     20,257     6,803,924     6/       10/ 9,91,152     80,362     37,667     448,457       10/ 9,91,152     80,362     37,667     448,457       10/ 9,000     5,100     32,904     28,804       10/ 9,000     3,107     320     22,213	tics and resin materials:		2,676,675	272,796	: 16,574,354	: 2	. 14		8
9/350,000     96,627     24,029     277,402       9/190,000     99,565     87,130     177,565       9/383,000     33,918     72,721     421,803       9/9,700,000     455,905     267,017     9,511,112       9/9,700,000     455,905     267,017     9,511,112       9/9,700,000     455,905     20,269     2,189,509       10,735     810,735     87,081     164,591     888,245       10,735     80,362     37,667     448,457       10,735     80,362     37,667     448,457       10,735     80,362     37,667     28,804       10,735     80,362     32,904     28,804       10,735     80,362     32,904     22,213	tomers, total:	965,	701,229	994,600	3,258,769	31	. 24		6
9/ 190,000       99,565       87,130       177,565         9/ 383,000       33,918       72,721       421,803         9/ 383,000       455,905       267,017       9,511,112         9/ 2,265,631       145,391       69,269       2,189,509         9/ 2,265,631       145,391       69,269       2,189,509         10,735       810,735       87,081       164,591       888,245         10,1152       80,362       37,667       448,457         10,1152       80,362       37,667       448,457         10,1161       2,000       5,100       32,904       28,804       1         10,1162       3,107       320       22,213       1	oring extracts:	35	96,627	: 24,029	: 277,402		: 28		14
9/ 383,000       33,918       72,721       421,803         9/ 9,700,000       455,905       267,017       9,511,112         9/ 2,265,631       145,391       69,269       2,189,509         10,735       87,081       164,591       888,245         10,735       80,362       37,667       448,457         10,700       5,100       32,904       28,804         10,700       3,107       320       22,213	ntial oils:	19	99,565	87,130	: 177,565	49	: 52		4
	, gelatin and related products:	38	33,918	: 72,721	: 421,803	: 17		•••	က
	atic or odoriferous substances:	9,70	455,905	267,017	: 9,511,112	۳ 	<u>د</u>	••	26
	ace-active agents:	2,26	145,391	: 69,269	2,189,509	ee	9	•	7
total	s and synthetic detergents:	6,98	200, 333	20,257	6,803,924	/ <del>9</del> :	<b>m</b>		33
total: 491,152: 80,362: 37,667: 448,457: origin, : 2,000: 5,100: 32,904: 28,804:	hetic dyes, total:	810	180,081	: 164,591	: 888,245	: 19			€
origin, : 2,000 : 5,100 : 32,904 : 28,804 : 25,000 : 3,107 : 320 : 22,213 : :	hetic toners (pigments) and lakes, total:	_	80,362	37,667	. 448,457	æ	. 16	••	9
	and tanning products of vegetable origin,						••	•	•
	total	2,000	5,100	32,904	28,804	114	255	•••	<b></b>
		. 200 '67				•	:		•
See foothotes at end of table.	See footnotes at end of table.	10 m d			nais	: *^ •	· (4)		

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U.S. production, exports of domestic merchandise, imports for consumption, apparent consumption, and employment, 1981 1/--Continued

			•	Apparent	Rat	Ratio of4/	Total
Commodity area	Production	Exports 2/	Imports 3/	consumption	: Imports to	Exports to production	employment
		1,000 dollars-	lars		<u>Pe</u>	၂ဦ	1,000 workers
Inorganic pigments and pigment-like materials,						   	
Inks and ink powders, total	1,374,500	201,392	20,290	1,336,656	: : 2		10
Paints and related items, total	8,401,960 99,281,250		27,0/3 : 61,457,915	: 8,180,410 :160,162,370	.: .		63 274
Petroleum products	30,200,000	2,230,580	: 13,190,129 : 5,689,065	: 228,688,349 : 35,503,385	9 91		154 260
Fertilizers and fertilizer materials	9/ 8,900,000	2,736,837	1,393,909	7,557,072	188	31 :	52
Cleaning and polishing compounds, 10 pounds each :	22,000	7001			<b>,</b> 	• • •	•
Or less	1,120,000	52,618	5,501 385,775	: 1,072,883 : 3,143,447	: 12	5	48
Starches	185,000	2,730	6,212 72,337	188,482 29,734,534		. 1	<b>6</b> 230
Rubber and plastics waste and scrap; film, strips, sheets, other profile shapes, total: Hose, pipe, and tubing, n.s.p.f. suitable for conducting gases or liquids, including	9/ 10,900,000	778,137	397,016	10,518,879	·········		20
gaskets and pipe fittings, or rubber or plastics———————————————————————————————————	9/ 3,300,000	250,075	178,842	3,228,767			47
plastics and not containing textile fibers: Pneumatic tires	9/ 10,400 9/ 11,186,000	12/ 533,110	7,157 1,254,279	11,907,169	12/	12/	13/ 100
Tubes for treample of the second of the seco	000'06E /6	35,374	62,098	415,724	. 15		7 7
Fabricated rubber and plastics products	9/ 180,000 9/ 19,600,000	8,973 1,034,952	3,741 769,860	174,768 19,334,908			50
MINERALS AND METALS							
Nonmetallic minerals and products, except ceramic: products and glass and glass products (con.): Hydraulic cement and cement clinker	9/ 3,723,095 9/ 15,000,000	• •		3,842,771 14,948,707			29 173
Gypsum coment and articles thereof	છા છાં	3,996	21,563 : 42,132	871,567			59
Crushed stone	$\frac{9}{2}$ , 2,300,000 $\frac{9}{2}$ , 3,100,000 $\frac{9}{2}$ , 147,000	36,737 23,527 20,853	1,466 7,222 133,691	2,264,729 3,083,695 259,838	.:	2	35 36 13
See footnotes at end of table.			·••		••	••	

U.S. production, exports of domestic merchandise, imports for consumption, apparent consumption, and employment, 1981 1/--Continued

	vic.		: : Imports	Apparent	Rati	Ratio of4/	Total	
Colmically after	r oduction :	Exports 2/		consumption	: Imports to :consumption	Exports to :	employment	
要ない。		1,000 dollars	-SI		:ber	-Percent	1,000 workers	
Mica and mica products	9/ 32,000	10,438	7,548	29,110	. 26	33		-
Graphite, carbons, and calcined petroleum and :	: 000 002 1 /6	715 006	157 355	1 142 349				=
Asbestos and asbestos products	9, 5	103,038	139,162	536,124	79	21.		19
Abrasives	9/ 180,000 :	33,626	: 117,119	263,493	44	. 61		က်
Abrasive articles:	5	77,730	: 71,176 :	893,446	80	6		30
Industrial diamonds:	<u> </u>	69,497	: 111,770 :	137,273	. 81	73 :		_
Natural gemstones:	6	16,109	-	411,682	102	230 :	13/	
Cut gemstones and articles thereof	9/ 325,000 :	488,671	: 2,193,713	2,030,042	108	150 :		m ·
Synthetic gemstones	: 000,cc1 /g	13,351	. 23,608	162,25/	<b>4</b>	 m		-
,	9/ 573,100 :	162,575	1,687	412,212	/9	28 :		9
	>.	10,460	34 :	75,774	· /9i	12 :		-
Clays, bentonite:	9/ 131,300 :	64,537	 ⊗	66,811	<b>3</b>	49 :		7
other claus activated and certain	9/ 135 600	80 375	. A 650 .	50 98A	œ	9		·
Nonmetallic minerals and products, n.e.c	9/ 375,000 :	378.289	362,400	359,111	• • • • • • • • • • • • • • • • • • •	6 0		۷ 4
Fluorspar:	\	1,194	95,854	113,060	85	/	13/	-
Ceramic products:		•		•		••	i	
Refractory and heat-insulating products:	9/ 1,756,404 :	271,948	: 70,196 :	1,554,652	 	16 :		20
Ceramic construction articles:			•••			••		
Ceramic floor and wall tiles:	m '	13,339	: 187,757 :	515,461	36 :	♥		æ
Ceramic bricks and structural clay tiles:	9/ 623,000 :	6,802	: 14,121 :	630,319				17
Table kitchen bousehold art and ornamental	. WE, EUI 15	7/6'11		760,101	4	= -		n
potterv:	e e					•		
Pottery products, n.e.c	9/ 350.000	10 612	336 200	675 588				=
Fine eartherware food utensils	9/ 170,000 :	4.615	201,739	367,124	2 5	: •		. 4
Vitreous china food utensils:	-	13,325	167,542	331,217	51:	 		· ∞
Industrial ceramics and ceramic articles,	••		••	,	••	••		
D.S.D.T.:				1	••			
Coromic canitary Ware	9/ 564,000	92,326	48,106	519,780		16:		Ξ:
Certain industrial ceramics and ceramic	ř	31,002	14,390	400,230	'n	``		2
articles, n.s.p.f.	9/ 61,200 :	30,034	12.280	43.446	28 :	49		2
Glass and glass products:								;
Flat glass and products thereof	9/ 4,023,000 :	345,721	: 194,156 :	3,871,435	<b>6</b>	 6	. 9	22
Unprocessed flat glass (float, plate, and ::		021 331		6				
Tempered alass	9/ 932,300 :	100,172	50,135	828,863	<b>Ω</b> (4	 •		و د
Laminated glass	9/ 885,000 :	44,541	26,525	866.984			•	
Mirrors of glass:	. <u>9</u> / 475,000 :	25, 395	53,400 :	503,005	: ==	2		<b>~</b>
Glassware and other glass products	9/8,782,641	551,570	468,528	8,699,599	 ග	. 9	10	103
See footnotes at end of table.	.•		••	••				

U.S. production, exports of domestic merchandise, imports for consumption, apparent consumption, and employment, 1981 1/--Continued

Production   Exports 2/ 3/   Consumption	Fiber Glass———————————————————————————————————	70du 14, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Exports <u>2</u> / 89,944 46,050 276,905 3,759,957 722,668 268,971 2,501,337 181,380 1,960 10,361 13,691 12,110 2,274,143		Consumption 1,409,428 5,020,043 2,764,684 4,561,598 830,091 1,228,679 1,212,577 2,097,025 14,787,507 391,550 451,196 463,414 66,992,209	Imports to   Exp 	Exports to production ent	employment 1,000 workers
res. and other metal-bearing weepings, and other than foil—	Fiber Glass	11, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	89,944 46,050 276,905 3,759,957 722,668 268,971 2,501,337 181,380 1,960 10,361 12,110 12,110	11 60 45 66 88		1 12 88 86 57 60 160	ent	1,000 workers
res, and other metal-bearing usepings, and uaste and scrao- 1,771,394 1,079,978 1,079,978 1,079,978 1,079,978 1,079,978 1,079,978 1,079,978 1,079,978 1,079,978 1,079,978 1,079,978 1,079,978 1,079,978 1,079,978 1,071,314 1,071,314 1,071,314 1,071,314 1,071,314 1,071,314 1,071,314 1,071,314 1,071,314 1,071,315 1,196 1,	Fiber Glass———————————————————————————————————	5,5,4,1,1,1,4,19,19,19,19,19,19,19,19,19,19,19,19,19,	av ranim a			1 1 12 18 88 88 57 60	· · · · ·	
rs. and other metal-bearing 1,079,878 755,955 4,012,129 74,309,426 3,759,957 4,012,129 745,309,426 3,759,957 4,012,129 742,400 755,750 2,688 742,881 742,400 755,750 2,688 742,881 742,400 755,750 2,688 742,740 742,400 1,441,231 181,380 837,174 1,441,231 1,942,560 1,341 1,942,560 1,441,231 1,942,560 1,341 1,942,560 1,441,231 1,942,560 1,341 1,942,560 1,341 1,942,560 1,341 1,942,560 1,441,231 1,441,231 1,942,660 1,341 1,940 1,131 1,942,660 1,131 1,942,660 1,131 1,942,660 1,131 1,942,660 1,131 1,942,660 1,000,443 1,444,94 1,444,94 1	Class containers  Pressed and blown glassware n.e.c.—  Precious metals—  Precious metals—  Precious metals—  Platinum group metals—  Gold bullion—  Silver bullion—  on and steel mill products, waste and scrap, pig iron, and ferroalloys:  Ferroalloys:  Ferromanganese—  Ferromanganese—  Ferromanganese—  Copper ore, waste and scrap, and unwrought  Copper ore, waste and scrap—  Copper, urwrought—  Copper, urwrought—  Copper, urwrought and waste and scrap—  Aluminum, urwrought other than foil—————  Aluminum, wrought other than foil————————————————————————————————————	58,000 14 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ar ranim a			1 12 12 88 88 88 86 60	•	
own glassware n.e.c	Pressed and blown glassware n.e.c.— ectious metals— Precious metals— materials, sweepings, and waste and scrap— Platinum group metals— Gold bullion———————————————————————————————————	588	ar ranim a			12 : 88 : 86 :		
res, and other metal-bearing 1,079,878 1,079,878 1,079,878 1,079,878 1,071,394 1,071,394 1,071,394 1,071,394 1,071,394 1,071,394 1,071,394 1,071,394 1,071,394 1,071,394 1,071,394 1,071,394 1,071,394 1,071,394 1,071,315 1,060 1,071,394 1,071,315 1,060 1,071,394 1,071,315 1,060 1,071,394 1,071,315 1,096 1,070 1,096 1,097 1,0	Precious metals  Precious metals  materials, sweepings, and waste and scrap  Platinum group metals  Gold bullion  Silver bullion  pig iron, and ferroalloys:  Ferroalloys:  Ferroanganese  Ferroanganese  Ferrosilicon  Copper ore and metal:  Copper ore, waste and scrap, and unwrought  Copper, urwrought  Copper, urwrought  Copper, urwrought  Copper, urwrought and waste and scrap  Wxite and aluminum metals:  Aluminum, urwrought and waste and scrap  Aluminum, urwrought other than foil	58, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	i rani i	0 45 66 88 9		57 2 160	10 :	
p         1,079,878         722,668         472,881           1,771,354         2,501,337         1,942,560           1,771,354         2,501,337         1,942,560           1,441,231         181,380         837,174           1,441,231         1,960         68,152           9/ 182,710         10,361         219,201           9/ 182,710         10,361         276,422           9/ 394,406         12,110         81,118           12,445,570         2,274,143         10,285,871           20/ 12,445,570         322,802         507,471           20/ 10,494,660         407,440         115,670           21,645,570         322,802         507,471           20/ 10,494,660         697,740         314,899           21,105,400         322,802         507,471           21,00,494,660         697,740         314,899           21,00,494,660         697,740         314,899           22,274,143         32,203         565,880           23,61,165         32,240         34,899           24,560         60,990         648,487           25,208         32,324         34,889           25,274,143         32,200         565,8	Precious metal ores, and other metal-bearing materials, sweepings, and waste and scrappolation more bullion———————————————————————————————————	28, 28, 28, 28, 28, 28, 28, 28, 28, 28,	Luni ú			57 : 60 : 160 :		
	Platinum group metals————————————————————————————————————	28.	. u rú	NO ON .	• • • • • • • •	: 091	: 29	
1,771,354       2,501,337       1,942,560         1,441,231       1,960       68,152       1         9/14,721,315       1,960       68,152       1         9/182,710       13,691       276,422       1         9/394,406       12,110       81,118       81,118         10,394,406       12,274,143       10,285,871       6         12,445,570       3,22,802       507,471       1         12,445,570       322,802       507,471       1         12,445,570       322,802       507,471       1         12,445,570       322,802       507,471       1         10,494,660       697,740       314,899       1         100,494,660       697,740       314,899       1         100,000       36,91,65       697,740       314,899       1         100,000       36,813       307,158       1,53,024       1         100,000       36,813       307,158       1,53,024       1         100,000       36,813       32,720       565,880       1         100,000       36,813       36,895       36,915       36,915         10,874,96       36,949       36,818       36,915 <t< td=""><td>Gold bullion———————————————————————————————————</td><td>1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1</td><td>170,00</td><td></td><td></td><td>: 160 :</td><td>36 :</td><td>13/</td></t<>	Gold bullion———————————————————————————————————	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	170,00			: 160 :	36 :	13/
1,441,231	Silver bullion—  on and steel mill products, waste and scrap, pig iron, and ferroalloys:  Ferroalloys:  Ferroalloys:  Ferromanganese———————————————————————————————————	28,		. 88		•	141 :	
9/ 14,721,315       1,960       68,152       1         9/ 182,710       10,361       219,201         9/ 182,710       13,691       276,422         9/ 394,406       12,110       81,118          9/ 58,980,481       2,274,143       10,285,871          2,666,900       72,949       644,093          3,666,900       72,949       644,093          12,445,570       322,802       507,471          12,445,570       322,802       507,471          26,489       762,850       1,070,433          2,520,841       762,850       1,070,433          2/ 10,494,660       697,740       314,899          3/ 550,841       762,850       1,070,433          3/ 551,165       307,138       1,53,024          3/ 561,165       30,917       30,917          3/ 56,879       30,915       30,915          3/ 6,879       45,048       114,405          3/ 6,879       54,496       99,152          3/ 6,879       54,496       99,152	on and steel mill products, waste and scrap, pig iron, and ferroalloys: Ferroalloys: Ferroalloys: Ferroalloys: Ferroalloys: Ferrochromium	58,	,	~ ~ ~		. 04	13 :	
9/ 14,721,315       1,960       68,152       1         9/ 182,710       10,361       219,201         9/ 394,406       13,691       276,422         9/ 394,406       12,110       81,118         12,886,440       2,274,143       10,285,871         2,886,440       407,440       115,670         12,445,570       322,802       507,471         12,445,570       322,802       507,471         12,445,570       322,802       507,471         10,494,660       697,740       314,899         100,994,660       60,990       648,487         100,000       30,819       20,917         386,068       32,720       565,880         386,068       32,720       565,880         386,068       32,249       44,405         386,068       30,819       20,917         386,068       32,244       32,224         386,068       32,249       45,048         386,068       32,249       44,405         386,068       32,224       32,224         386,068       32,249       44,405         386,068       32,249       44,405         386,068       32,496       44,4	pig iron, and ferroalloys: Ferroalloys: Ferrochromium	28,	ζ,	~ ~ ~		••		
9/ 14,721,315	Ferroalloys: Ferroalloys: Ferroalloys: Ferroalloys: Ferroandanese———————————————————————————————————	58,	, i	~ ~ .			••	
9/ 182,710	Ferroalloys: Ferrochromium———————————————————————————————————	28,	,	~ ~ .			/9	
9/ 182,710	Ferrochromium———————————————————————————————————	<u>આ આ આ જુ</u>	,	~ ~		••	••	
ts, all grades	Ferromanganese———————————————————————————————————	! આ છા છુ	,	~ .	•	: 26 :	 9	13/
ts, all grades————————————————————————————————————	Ferrosilicon————————————————————————————————————	. 58 . 28 	ú	•		: 61 :	7 :	13/
ts, all grades	Iron and steel mill products, all grades————————————————————————————————————		ú	•		. 18	 m	
p, and unwrought  12,886,440  3,666,900  12,949  12,445,570  12,445,570  12,445,570  12,445,570  12,445,570  12,445,570  12,445,570  12,445,570  12,445,570  12,445,570  12,445,570  12,445,570  12,445,570  12,445,570  12,445,570  12,445,570  13,441  10,000  10,00	pper ore and metal: Copper ore, waste and scrap, and unwrought copper: Copper ore, copper bearing materials, and waste and scrap————————————————————————————————————	•		•	۰	: 15 :		391
p, and unwrought  ng materials, and 2,886,440 3,666,900 72,949 644,093 12,445,570 322,802 324,802 507,471 12,445,570 322,802 34,41 392,558 ste and scrap	Copper ore, waste and scrap, and unwrought copper:  Copper ore, copper bearing materials, and waste and scrap————————————————————————————————————		••	•			••	
ng materials, and  2,886,440  3,666,900  72,949  644,093  12,445,570  322,802  507,471  12,445,570  26,489  3,441  392,558  3,441  392,558  3,441  392,558  34,160,494,660  697,740  314,899  10,000  60,990  648,487  10,000	Copper: Copper ore, copper bearing materials, and waste and scrap————————————————————————————————————			••			••	
ng materials, and  2,886,440: 407,440: 115,670: 3,666,900: 72,949: 644,093: 12,445,570: 322,802: 507,471: 115,670: 12,445,570: 322,802: 507,471: 115,670: 12,445,570: 322,802: 507,471: 115,670:	Copper ore, copper bearing materials, and waste and scrap————————————————————————————————————	•	••	••			••	
2,886,440 : 407,440 : 115,670 : 3,666,900 : 72,949 : 644,093 : 12,445,570 : 322,802 : 507,471 : 11,445,570 : 322,802 : 507,471 : 11,445,570 : 322,802 : 507,471 : 11,445,570 : 314,899 : 11,444,05 : 11,414,016 : 2,095,402 : 78,724 : 114,405 : 116,000 : 1,414,016 : 2,095,402 : 78,724 : 114,405 : 126,000 : 1,414,016 : 2,095,402 : 78,724 : 14,44,016 : 2,095,402 : 78,724 : 14,44,016 : 2,095,402 : 78,724 : 14,44,016 : 2,095,402 : 72,000 : 1,414,016 : 2,095,402 : 72	Copper, unarought		••	••		••	••	
3,666,900	Copper, unwrought	•	407,440	115,670 :	2,594,670	 S	14 ::	
ste and scrap————————————————————————————————————	Copper, wrought————————————————————————————————————	•	72,949 :	644,093	4,238,044	: 15 :	2 :	
ste and scrap————————————————————————————————————	uxite and aluminum metals: Bauxite		322,802 :	507,471:	12,630,239		 m	
ste and scrap————————————————————————————————————	Bauxite		••	••			••	
minum, unwrought and waste and scrap	Aluminum, unwrought and waste and scrap Aluminum, wrought other than foil	.: 26,489 :	3,441 :	392,558	415,606	. 95 .	13:	/EI
minum, wrought other than foil	Aluminum, wrought other than foil		762,850	1,070,433:	7,828,424	: 14 :	.: 01	••
1 ore and metal		/ 10,	: 047,740	314,899 :	10,111,819	 m	. 7	
1 ore and metal       336,755       307,158       11,153,024       10/10/100         100,000       60,990       648,487       10/10/10         100,000       30,819       20,917         100,000       30,819       20,917         100,000       30,819       20,917         100,000       30,819       20,917         100,000       30,819       20,917         100,000       30,819       20,917         100,000       30,819       30,819         100,917       30,819       30,819         100,000       30,879       45,048         114,405       30,152         11aneous base metals and ores       1,414,016       2,095,402       79,79		6	47,324 :	34,562	548,403	9	 œ	
re and metal	ckel ore and metalckel	.: 336,755 :	307,158	1,153,024:	-	: 119 :	91 :	13/
ore and concentrate	n ore and metal	100,000 :	: 066'09	648,487		: 95 :	61:	13/
metal and waste and scrap	ad ore and concentrate	358,821 :	30,819	20,917				
ore and concentrate		386,068	32,720 :	565,880	919,228	: 62	. 6	
metal and waste and scrap	ore and concentrate-	306,879	45,048	114,405 :	376,236	30 :	15 :	
res 78,744,000 : 1,414,016 :2,095,402 : 79,	ad metal and waste and scrap	.: 915,221 :	54,496	99,152:	959,877	: 01	9	
	scellaneous base metals and ores	•	4	2,095,402:	٠,	 m	2 :	269
146 : 3,158 :	Ores bef cerium and thorium	35,000 :	146 :	3,158:	38,012	 œ	 /9	
	Chrome ore and metal:		••	••		••	••	
Chrôme ore	Chrome ore	0	5,893:	49,948		. 91		
ght, ex. alloys and waste and :	ght, ex. alloys and waste							197
scrap	scrap		607'C	24,626	11,91/		7*	/51
Cobalt ore and metal:	Cobalt ore and metal: Cobalt unwicolobt unalloyed and waste and	••••	• ••	• • •			• ••	
scrap	SCFAD	22,325 :	16,462 :	238,820 :	244,683	: 86 :	74 :	13/
		•	••	••			••	

U.S. production, exports of domestic merchandise, imports for consumption, apparent consumption, and employment, 1981 1/--Continued

				Annarent	Ratio of	of 4/	Total	
Commodity area	Production	Exports <u>2</u> /	Imports 3/	consumption	Imports to	Exports to production	employment	
		1,000 dollars-	llars		Per	Percent:	1,000 workers	ŀ
Columbium ore and metal:		••••••••••••••••••••••••••••••••••••••	49,889	49,889	100			0
Columbium, wrought and unwrought and waste : and scrap	2/ 3,900 2,915,239	244.685	60	3,960	2 2 25	O 80	13/	18
Magnesium metal: Magnesium, unwrought, and waste and scrap Magnesium, wrought	. O	81,805	12,833	431,028 1 <u>0</u> / 172,952	e /9	16		77
Manganese of a did metal:  Manganese ore	9/ 2,900 9/ 33,911	6,578 4,975	43,162	39,484 37,355	109	227 15	13/ 13/	
Mercury ore and metal.  Mercury, unwrought and waste and scrap	9/ 17,000	•	990'5	22,066	23	0	13/	
Molybdenum ore and molybdenum-bearing materials	945,541 15,176 71,192 4,062	406,817 12,584 13,799	19,485 5,577 2,557 663	558,209 8,169 59,950 4,725	48944	4 88 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	) <u>s</u> i	9
Silicon metal: Silicon unwrought, and waste and scrap Silicon metal containing over 99.7% silicon: Tantaline ore and metal	<u>9</u> / 145,000 <u>9</u> / 15,000	57,001	30,507	118,506			13/	-
Tantalum ore	0 9/ 150,000 9/ 9,000	32,657	90,602 10,159	90,602 127,502 10/ 2,563	000 80 4	0 25 0		0 1 1
Titanium ore and slagTitanium spongeTitanium, unwrought other than sponge; and	9/ 26,000 9/ 350,000	2,099	95,748	119,649	21	8 /9		7
Waste and scrap	9/ 350,000 9/ 200,000	53,807	24,713	260,012	13	33 : 27 :		7
Tungsten, unwrought, and waste and scrap Tungsten, unwrought	93,117 120,416 14,157,504	36,748 : 36,748 : 25,691 : 296,878	4,531 4,531 4,089 81,240	60,900 60,900 98,814 13,941,866		212	ess t	72 - 8 - 1
Ware clothage; wire screen, netting, and rencing; bale ties————————————————————————————————————	9/ 847,308 9/ 458,047 9/ 95,000 9/ 125,000 9/ 25,000	141,261 81,986 81,986 3,825 26,351 9,552	396,445 322,635 7,997 46,981 9,243	1,102,492 698,696 99,172 142,630 24,691	6 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	117 18 22 4 8 38		10 2 3 10

U.S. production, exports of domestic merchandise, imports for consumption, apparent consumption, and employment, 1981 1/--Continued

	:			Apparent	Ratio of	of 4/	Total
Commodity area	Production	Exports 2/	Imports 3/	consumption	: Imports to	Exports to production	employment
		1,000 do	dollars		:Per	[5]	1,000 workers
Nails, screws, bolts, and other fasteners; locks;; builders, hardware; furniture, luggage and	10 463 201	92.	707 400	00 AA			
Fasteners:	166,101,01 /2		7	10,612,613			
Bolts, nuts, and screws	9/ 2,969,461	178,778	486,468 948,552	3,277,151	15		54
	2.9	958,133	562,564	2,543,279			37
Table flatware: Table flatware, precious metals	9/ 93.000	900	9.036	99,030		· · ·	7
Table flatware, stainless steel	9/ 45,600	/7	82,141	127,141		: //	
Scissors and shears	9/ 32,000 9/ 25,000,000	2,052 : 2,529,155 :	26,590 3,099,197	56,538 25,570,042		 9 01 	1 265
Chain of base metals:	1	•			••		•
Anchor chain of iron or arms steel:	20, 205, 000 14,	. 41,111 : 5,872 :	/4,257 8 107	238,146		· · · · · · · · · · · · · · · · · · ·	<b>∞</b> 4
Round link chain and chain n.s.p.f. of iron	Î			Ì	• ••	• • •	•
or steel; chain of base metals other than:	000 000				••	•	•
Structures of base metalstructures	000,000,00	. 669°086	181 544	18 200 000	• <del>-</del>		27.0
							i
MACHINERY AND EQUIPMENT					<b></b> .	·• ·• ·	
Boilers, nonelectric motors and engines, and					••••		
other general-purpose machinery:							
and parts thereof:	9/ 2,357,000	661,443	45,292	1,740,849		28 :	30
Gas generators, with or without purifiers, and :	000				•		•
Steam engines, steam turbines, and other vapor :	OC '951 /6	36,669	7.344	102,555	n 		**
Totornal computation parts thereof	9/ 1,602,400	308,184	81,438	1,375,654	•	: 19 :	22
parts thereof	9/ 20.200.000	4.108.099	2.150.168	18.242.069	12	20	198
-uou							
Non-piston type aircraft engines	9/ 9,800,000	817.241	1,550,305	8,360,804 4,415,979	19	31	121
Water wheels, water turbines, and other water							
therefor	9/ 36,575	16,530	22.545	42.590		 •	
Nonelectric engines and motors and parts	000 100					• ••	
Pumps for liquids and parts thereof	000'860'9 /6	1,182,134	55,998 663,032	466,233 5,573,898	.:	13 19	11 66
See footnotes at end of table.		••				••	

U.S. production, exports of domestic merchandise, imports for consumption, apparent consumption, and employment, 1981 1/--Continued

kers 1	Production   Exports 2/ Imports 3/ Consumption   Imports to   Import						Ratio of	of 4/	Total
parts   2 1, 248,000   107,333   437,608   1578,245   7 20 20   1,000 uorters   2 5,507,000   1,025,220   27,133   437,608   1578,245   7 20 20   1,000,000   1,005,172   1,000,003   3   13   13   13   13   14,114   1,000,003   3   13   13   14,114   1,000,003   3   1,000,003   3   1,000,000   14,811   1,000,003   14,811   1,000,003   1,000,	parts   1,000 dollar;   1,000	Commodity area	Production	Exports 2/		consumption	Imports to		employment
Parts parts   Parts	parts    1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,				lars		:Per	cent :	1,000 workers
parts         9/1,248,000         107,383         437,608         1,578,245         28         9           theracef         9/2,501,000         107,383         437,608         1,578,245         22         20           theracef         9/2,601,000         1,555,277         76,532         219,530         2         20           ser_ral         9/2,642,000         1,255,177         83,962         5,470,784         2         19           ser_ral         9/2,642,000         1,255,177         83,962         4,926,119         2         11           ser_ral         9/2,500,000         663,816         69,929         4,926,119         3         28           search         9/2,500,000         14,811         20,431         56,650         1         2           search         9/2,500,000         441,590         256,538         1,354,948         19         29           search         9/2,258,100         802,498         181,048         1,636,650         11         20           finery         9/2,258,100         802,498         181,048         1,636,650         11         22           finery         9/2,100,000         440,560         74,635         744,075         10	parts         9/1,248,000         107,343         437,608         1,578,245         28         9           threnof—         9/2,501,000         107,343         437,608         1,578,245         28         9           threnof—         9/2,501,000         1,035,277         27,435         43,230         3         13           strial         9/2,501,000         1,255,177         83,961         5,470,784         2         19           strial         9/2,500,000         663,810         89,929         4,926,119         2         12           ling and said         9/2,500,000         663,810         89,929         4,926,119         2         12           ling and said         9/2,500,000         663,810         89,929         4,926,119         2         12           ling and said         9/2,500,000         431,000         34,848         14,208         139,360         5         10           march and						i 		
Exercit         9/1,248 000         107,363         437,668         1,578,245         26         20           thread	thereoff g, 5,077,000 1,025,220 277,435 4,569,215 7 20 20 4,507,100 1,025,220 277,435 4,569,215 7 20 33 32 32 32 32 32 32 32 32 32 32 32 32	Air pumps, vacuum pumps, air or gas		- 4 - 4		19 			
Homograph         9/1,249,000         10/383         437,485         1.5745         28         9           Horeoff         9/5,017,000         10,25,200         76,552         77,485         1.585,177         83,961         5,707,884         2         19           Intral         9/5,007,000         1,255,177         83,961         5,470,784         2         19           off-mand         9/5,007,000         166,114         29,077         1,040,063         3         13           nest and         9/5,500,000         663,810         69,929         4,926,119         2         12           nest and         9/3,400         34,648         14,208         319,360         5         10           nameling         9/1,550,000         451,590         256,538         1,354,948         19         29           ingraph         9/1,550,000         451,590         256,538         1,354,948         19         29           ingraph         9/1,550,000         451,590         256,538         1,354,948         19         29           ingraph         9/1,500,000         451,590         256,538         1,354,948         19         29           ingraph         9/2,500,000         460,268	thereoff— 9/ 1, 1249, 1000 107, 343 437, 435 41, 435 7 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8	thereof:					• ••		
thereof         9/ 500,000         1,255,177         75,552         4,765,125         7/ 553         3         20           sterior         9/ 6,642,000         1,255,177         18,961         5,470,784         2         2           sterial         9/ 1,157,100         146,114         29,077         1,040,063         3         13           instand         9/ 5,500,000         663,810         89,929         4,926,119         2         12           instand         9/ 340,000         14,881         20,491         58,610         35         28           instand         9/ 340,000         34,848         14,208         319,360         5         10           instand         9/ 1,550,000         45,590         256,538         1,354,948         19         29           instand         9/ 1,550,000         45,590         26,538         1,354,948         19         29           instand         9/ 2,258,100         802,498         181,048         1,636,650         11         36           instand         9/ 2,069,900          460,268         198,171         1,807,803         11         22           f	thereof———————————————————————————————————	Fans and blowers and parts thereof:	9/ 1,248,000	107,363	437,608	1,578,245	. 28	 6 (	37
### 1, 125, 176, 1755, 174, 175, 175, 175, 175, 175, 175, 175, 175	### 10	Compressors and parts thereof	5,017,000	1,025,220	277,435	212,892,215	 35		Ϋ́ .
### 1	strial anti anti anti anti anti anti anti anti	Air conditioning machine and parts thereof	000'007'/ <del>-</del>	1 255 177	83 961	5 A70 78A	G 6	19	7 9
of	operation         g/ 1,157,100         146,114         29,077         1,040,063         3 13         13           ment and such and	Furnace burners and non-electric industrial :	27. 24. 24.						
mest and modes         9/5,500,000         663,810         89,929         4,926,119         2         12           nes         11 and 11 and 11 and 11 and 12 and 14,208         13,936         5         10         28           11 and 12 and 13 and 14,208         13,936         5         10         29         10         20           12 and 13 and 13 and 14,208         14,208         13,54,948         19         29         29           13 and 14,208         181,048         1,636,650         11         36         29           14 and 16 and 16 and 17 and 18,048         1,636,650         11         22         22           14 and 16 and 16 and 17 and 17 and 18,040         1,636,742         9         22           15 and 16 and 17 and 18,040         16,635         17,635         14,075         9         22           16 and 17 and 18,050         430,560         14,635         14,075         10         39           16 and 18 and	### ### ### ### ### ### ### ### ### ##	furnaces and ovens, and parts thereof:	<b>–</b>	146,114	729,077	1,040,063	m 	: 13 :	21
10	1, 5, 50, 0, 000   661, 810   89, 929   4, 926, 119   2   12     1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Refrigerators and refrigeration equipment and :							
thereof—— 9/ 53,000 14,881 20,491 58,610 35 28  thereof—— 9/ 340,000 34,848 14,208 319,360 5 10  langing  9/ 1,550,000 451,590 256,538 1,354,948 19 29  101  102  9/ 2,258,100 802,498 181,048 1,636,650 11 36  linery  103  104,000 400,568 198,171 1,807,803 11 22  104,10,000 400,560 74,635 744,075 10 39  104,10,000 400,560 11,722,565 10 42  104,10,000 17,243,401 1,065,966 11,222,565 10 42  104,10,000 17,243,401 1,065,966 11,222,565 10 42  104,10,10,10,10,10,10,10,10,10,10,10,10,10,	thereof—  y 53,000  14,881  20,491  58,610  35  28  thereof—  y 340,000  34,848  14,208  11,354,948  19  27,258,100  460,268  181,048  1,636,650  11  22  11  22  11  22  11  22  24,100,000  430,566  11,222,565  11  24,100,000  7,243,401  1,065,966  11,222,565  11  27,1400,000  7,243,401  1,065,966  11,222,565  11  1,002,000  11,282,000  11,	parts thereof:	S,	663,810	89,929	4,926,119	:	: 12 :	9
thereof———————————————————————————————————	thereof g/ 33,000 14,881 20,491 58,610 35 28 and s and g/ 340,000 34,848 14,208 119,360 5 10 10 10 10 10 10 10 10 10 10 10 10 10	Calendering and similar rolling machines		,			,	••••	
14,208   14,208   14,208   19,364   19   29   10   10   10   10   10   10   10   1	s and set of set	(except metal-working and metal-rolling and ::	•	1 8 8 A 1	20 491	58 610			-
14,208   14,208   19,360   5   10	machinery         g/ 340,000         34,848         14,208         319,360         5         10           name from the rest.         g/ 1,550,000         451,590         256,538         1,354,948         19         29           ninery formula from the rest.         g/ 2,258,100         802,498         181,048         1,636,650         11         36           tinery         g/ 410,000         90,536         132,78         350,742         9         22           fraction of the rest.         g/ 1,100,000         430,560         74,635         744,075         10         39           fraction of the rest.         g/ 1,100,000         430,560         74,635         744,075         10         39           fraction of the rest.         g/ 1,100,000         7,243,401         1,065,966         11,222,565         10         42         11           fraction of the rest.         g/ 1,240,000         7,243,401         1,065,966         11,222,565         11         42         11           fragiling of the rest.         g/ 1,220,000         908,245         546,500         4,138,255         13         20           g/ 4,500,000         965,056         440,849         4,860,793         9         18	Thetantaneous or storage water heaters and		190'11	161,02			· ··	•
Painging   9   1,550,000   451,590   256,538   1,354,948   19   29   29	hanging g/1,550,000 451,590 256,538 1,354,948 19 29 29 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	parts thereof	_	34,848	14,208	319,360		. 01	2
mg     9/ 2,258,100     451,590     256,538     1,354,948     19     29       minery     9/ 2,258,100     802,498     181,048     1,636,650     11     36       inery     9/ 2,069,900     460,268     198,171     1,807,803     11     22       ts     2/ 410,000     90,536     31,278     350,742     9     22       f	machinery:         g/ 1,550,000         451,590         256,538         1,354,948         19         29           machinery for:         g/ 2,258,100         802,498         181,048         1,636,650         11         36           tinery         g/ 2,069,900         460,268         198,171         1,807,803         11         22           ts         g/ 410,000         90,536         31,278         350,742         9         22           fr         g/ 1,100,000         430,560         74,635         744,075         10         39           machinery:         machinery:         machinery:         100,000         430,560         74,635         744,075         10         42           machinery:         machinery:         100,000         385,493         1,065,966         11,222,565         10         42         10           fr         g/ 1,277,000         874,407         111,785         544,378         22         68           g/ 4,500,000         290,083         30,300         1,022,217         3         23           g/ 4,500,000         968,245         546,500         4,138,255         13         2           g/ 4,500,000         965,056         440,849         4,86	Equipment for treating materials by changing :		•	,		••		
hinery for first occurrence of the following services of the following	hinery for firety    1, 2, 2, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	temperature and parts thereof:	<del>-</del>	451,590	256,538	1,354,948	. 19	: 29 :	56
hinery for hinery for 60, 258, 100 802, 498 181,048 1, 536, 550 111 35	hinery for hiner for hiner for hinery for hinery for hinery for hinery for hiner for hi	Centrifuges and filtering and purifying :	-26.1						
Thery Tor.  1	thery 10c.  1 2 2 0.69,900 460,268 198,171 1,807,803 111 22  1 2 2,069,900 460,268 198,171 1,807,803 111 22  1 3 2 4,10,000 90,536 31,278 350,742 9 22  1 1,100,000 430,560 74,635 744,075 10 39  machinery: mach	machinery and parts thereof	'n	802,498	181,048	1,636,650	:: :	. 98	32
LS	tinery 1 (1) (2) (2) (3) (4) (2) (6) (6) (6) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	Wrapping and packaging machinery, machinery for:							
ts =	ts	Cleaning of drying containers, machinery	· *0.4		3			• •	
ts =	ts =	machines and parts thereof:	2	460.268	198.171	1.807.803	=		4
fr	f	Weighing machinery and scales and parts	i						
f 9/1,100,000 430,560 74,635 744,075 10 39 machinery: ma	f 9/1,100,000 430,560 74,635 744,075 10 39 39 39 41 41 41 41 41 41 41 41 41 41 41 41 41	thereof	9/ 410,000	90,536	31,278	350,742	<b>.</b>	: 22 :	•
machinery:  avators,  ing,  machinery:  ing,  machinery:  anes, and  anes, anes, anes  anes, anes, anes  anes, anes, anes, anes  anes, anes, anes  anes, anes, anes, anes, anes  anes,	machinery:  avators,  avators,  ling,  machinery:  anes, and  of  g/ 17,400,000  7,243,401  1,065,966  11,222,565  10  42  10  42  11,222,565  10  42  11,785  9/ 1,277,000  874,407  111,785  514,378  22  68  draglines  g/ 4,500,000  908,245  546,500  4,138,255  13  20  ink:  ery  g/ 5,385,000  965,056  440,849  4,860,793  9 18	Sprayers and dusters and parts thereof:	9/ 1,100,000	430,560	74,635	744,075	. 10	39 :	15
machinery:  g/ 17,400,000 7,243,401 1,065,966 11,222,565 10 42 10 10 10 10 10 10 10 10 10 10 10 10 10	machinery:  machinery:  machinery  machinery  machinery  machinery  anes, and  of	Elevators, winches, cranes, and related :						•••	
achinery:  achinery:  achinery:  achinery:  bs. and  bs. 42  11,065,966  11,222,565  10  42  11,065,966  11,222,565  10  42  10  42  11,065,966  11,222,565  10  10  42  10  10  10  10  10  10  10  10  10  1	achinery:	machinery; earth-moving and mining machinery::						•••	
achinery:  achinery:  as, and	achinery:  achinery:  achinery:  as, and  as, an	Mechanical shovels, coal-cutters, excavators, :						••	
achinery:  8s, and  8s, and  8s, and  7,243,401  1,065,966  11,222,565  10  42  10  29/ 17,400,000  385,493  258,726  3,673,233  7  10  88,4407  111,785  111,785  110,222,17  3 23  23  30,300  1,022,217  3 23  24,500,000  908,245  546,500  4,138,255  13  20  8,***  ***  ***  10  10  10  10  10  10  1	achinery:  as, and  a	scrapers, bulldozers, and excavating,						••	
es, and es, an	85, and 10 42 10 42 11 1,065,966 11,222,565 10 42 11 10 10 10 10 10 10 10 10 10 10 10 10	levelling, boring, and extracting machinery:					••	••	
		other than elevators, winches, cranes, and :			4			••	
	9/ 3,800,000 385,493 258,726 5,6/3,233 7 10 10 10 11,785 514,378 22 68 68 10 10 11,785 514,378 22 68 10 10 10 10 10 10 10 10 10 10 10 10 10	related machinery and parts thereof:	9/ 17,400,000	7,243,401	1,065,966	11,222,565	2 '		961
aglines-: 9/1,282,000 : 290,083 : 30,300 : 1,022,217 : 3 : 23 : 23 : 30,300 : 290,083 : 30,300 : 1,022,217 : 3 : 23 : 23 : 30,300 : 30,4,500,000 : 908,245 : 546,500 : 4,138,255 : 13 : 20 : 30,500 : 965,056 : 440,849 : 4,860,793 : 9 : 18 : 30,500	aglines-: 9/1,282,000 : 290,083 : 30,300 : 1,022,217 : 3 : 23 : 23 : 30,300 : 290,083 : 30,300 : 1,022,217 : 3 : 23 : 23 : 30,300 : 29/4,500,000 : 908,245 : 546,500 : 4,138,255 : 13 : 20 : 30,500 : 965,056 : 440,849 : 4,860,793 : 9 : 18 : 30,500	Drilling and boring machinery:	9/ 3,800,000	385,493	727,862	5,6/3,233	) CC		7
agilnes-: 9/ 1,782,000	agilnes-: 9/ 1,782,000	LLOUIT-BUD 1080BUS	000, 1/2, 1 /2	704,400	20,111	0/6,410	77		
H38,255 13 20 10 10 10 10 10 10 10 10 10 10 10 10 10	H38,255 13 20 10 10 10 10 10 10 10 10 10 10 10 10 10	Backhoes, shovels, clamshells, and gragilhes-:	000,282,1 /2	290,083	30,300	1,022,21/		. <b>57</b>	7.7
k: y 9/ 5,385,000 : 965,056 : 440,849 : 4,860,793 : 9 : 18 :	k: y: 9/ 5,385,000 : 965,056 : 440,849 : 4,860,793 : 9 : 18 :	machinery and parts thereof	9/ 4.500.000	908.245	546,500	4,138,255	. 13		38
k: y: 9/ 5,385,000 : 965,056 : 440,849 : 4,860,793 : 9 : 18 :	k: y: 9/ 5,385,000 : 965,056 : 440,849 : 4,860,793 : 9 : 18 : : :	Agricultural and horticultural machinery;							
		machipery for preparing food and drink:	9/ 5 385 000	965 056	840 849	A 860 793			
	See footnotes at end of table.							· ••	

U.S. production, exports of domestic merchandise, imports for consumption, apparent consumption, and employment, 1981 1/--Continued

				Apparent	Ratio of	of 4/	Total	l
Commodity area	Production	Exports 2/	Imports 3/	consumption	: Imports to consumption	Exports to production	employment	
		1,000 de	dollars		:Per	Percent	1,000 workers	
ultural and hort								
Lawnmowers and parts thereof	2/ 1,346,300 2/ 1,346,800	133,006	185,253	1,221,792	c1 ::	6		11
and drink and parts thereof: Machinery for use in the manufacture of sugar:						,		
And parts thereof	9/ 81,200	48.889	5,956	38,267	. 16			-
equipment and parts thereof.	2/ 197,400	76,709	11,727	132,418	თ; 	. 6E		4
thereof	9/ 61,300 9/ 152,900	39,609	7,390	29,081	25 25 14	65 :		e
Machinery for preparing and processing fruit: and vegetables and parts thereof	9/ 161.426	65,698	7,040	102,768		***************************************		m
miscellaneous machinery for preparing and manufacturing food or drink, and parts thereof	9/ 385,300	150,270	60,273	295,303		6E		15
Pulp and paper machinery; bookbinding machinery; printing machinery; Machines for making cellulosic pulp, paper, or paperboard; machines for processing or finishing pulp, paper, or paperboard, or making them into articles; and parts					·			
thereof	9/ 1,325,000	, 341,300	253,737	1,237,437	21	. 26 :		70
textiles, and parts thereof	9/ 3.868,000	728,668	383,981	3,523,313		. 19 :		63
Textile printing machinery and parts thereof: Textile machines; laundry and dry-cleaning machines:	•	16,425	9,503	17,780	<b>₹</b>		13/	
Machines for extruding or drawing man-made : textile filaments		6,759	1,890	15,537	12		13/	
Textile yarn-producing machinery	9/ 177,210 <u>9</u> / 133,281 9/ 48,900	32,451	37,480	138,310	.: 43 .: 27	24 ::		m m r
Monthly machines  Textile machines for making lace, net, braid, embhoder, trimmings fabrics or other		20,521	50,201	61,540	83 8	6.49		n
textile articles	9/ 20,709	12,921	15,876	23,664	29	62		-
machines and hat-making blocks; and parts : thereof:	9/ 18,054	9,071	5,855	14,838	04			
See footnotes at end of table.					•	•		

U.S. production, exports of domestic merchandise, imports for consumption, apparent consumption, and employment, 1981 1/--Continued

			-	Anoneout	. Ratio of	of 4/	Total
Commodity area	Production	Exports 2/	Imports 3/	consumption	Imports to	Exports to	employment
		000 do	dollars		. consumption	-Percent:	1.000 workers
						·· 	
Household and commercial laundry equipment and :	9/ 2 270 000	207 972	37,558	2,099,586		·· ··	25
Textile bleaching, dyeing, washing, cleaning,							<b>;</b>
machines and parts thereof	9/ 134.874	31,709	40.524	143.689		24:	6
Fabric folding, reeling, or cutting machines:	`	24,828	2,971	16,375	18	: 69	1
Parts of textile machinery	₹,	153,613	184,188	505,289	37	32 :	E1 .
Seuing machines and parts thereof including	710'/7 /6	. 987.8	100.8	786'77	<b>T</b>	·	<b></b>
furniture specially designed for such				9	e.	• ••	
machines	895,386,568	: 139,431 :	267,415	514,552	: 52	: 98 :	7
Machines for working metal, stone, and other :							
Converters, ingot molds, and casting machines. :					• • •		
and parts thereof:	9/ 765,300	109,861	34,288	689,727		41	3
Metal rolling mills and parts thereof:	000'082 /6	185,295 :	60,024	654,729	6	: 24 :	80
Metalworking machine tools and parts thereof:	9/ 7,630,000	1,453,067	1,726,144	7,903,077	: 22	: 19 :	111
Non-metalworking machine tools and parts :	•		676 131	634,030			
Tool holders and accessories	9/ 1 949 200	165 685	796,161	1 839 309	7	 g &	98
Nonelectrically powered hand tools and parts							
thereof	9/ 1,002,500	387,796	231,167	845,871	. 27	. 39 :	15
Gas-operated welding, brazing, cutting and : surface tempering appliances and parts		••••	*				
thereof	9/ 290,000	84,540	10.073	215.533	 م	. 52	*
Office machines	9/ 34,631,000	9,722,108	3,492,998	28,401,890	12	. 28 :	430
Typewriters not incorporating a calculating	0/ 1 145 650		4 4 6	F 60 000 F			c
Typewriters, nonautomatic, with hand-operated:	000'041'1 /2		340,040	1,280,02/	7		cc
keyboard	2/ 389,607	39,582	326,215	676,240	84	. 01	32
Typewriters without a hand-operated keyboard :	•	171 603	700	301 603			•
Calculating, accounting, and similar machines	740'00'/2	700'1/1	19,320	903.7.800	n		-
employing a calculating mechanism:						• ••	
Automatic data processing machines	9/ 28,943,000	2,016,135	692,400	27,619,265	m 	: <b>7</b> :	318
Calculating machines specially constructed :			210	66.7			
Calculators hand-hold or nocket tune	0/ 145,35/	17,410	310,002	670'67/	# C	•	
Calculating machines, except hand-held or :		. 770' /			7	<b>7</b>	•
pocket type calculators, employing					A.	••	
solid-state circuitry in the calculating mechanism	9/ 296.010	17 083	177 758	456 685	٠. 		
Office machines and parts:							
older to be the solicities of		••	••			••	
odd Tockinsea ar dim of takta.							

U.S. production, exports of domestic merchandise, imports for consumption, apparent consumption, and employment, 1981 1/--Continued

	,			Apparent	Ratio	of 4/	Total
Commodity area	roguetion	. cxports <u>4</u> /	/E SILDOLES 3/	: consumption	: Imports to	Exports to :	employment
		1,000 dollars-	lars		Per	191	1,000 workers
Copying machines	9/ 5,500,000	138,385	588,646	5,950,261			<b>55</b>
Ascellaneous machines: Shoe machinery and parts thereof	9/ 56,119	24,593	14,474	46,000	32	4	-
washing, crushing, grinding, or mixing mineral substances in solid form, and parts thereof	9/ 810 000		93 705				9
Glass-working and related machinery and parts		96 729	20, 20	135 614			
Molding and forming machines for plastics or	i -						
Automatic verding machines and parts thereof	9/ 490,700	48,110	10,891	453,481	18		8 T
lobacco leaf stripping or cutting machines; industrial cigar- or cigarette-making							
machines and parts thereof	9/ 10,500,000	39,222 : 1,593,255 :	40,335	46,113	87	88	1 165
Parts of machines	•	•••				· ·	
Molders' patterns for manufacture of castings-	9/ 1,763,400 9/ 585,000	189, 841 14,641	138,561	582,228	₽ >9i 		37
laps, cocks, valves, and similar devices and parts thereof used to control the flow of	••••	•••••		••••	·· ··		
liquids, gases or solids	000'005'9 /6 :	936,027	590,306	6,154,279	9	14:	95
roller bearings and parts	•	353,775	476,823	3,695,312			22
Forged steel grinding balls	: <u>9</u> / 178,200 :	20,241	4,153	: 162,112	m 	: <b>11</b>	m
multiple, or variable ratios; pulleys and							
converters; chain sprockets; clutches; and	• ••	•		•	··	••••	
universal joints; and parts thereof	m (	326,408	264,033	3,107,625	··	: 01	52
miscellaneous machinery parts	2/ 2,000,000 :	. 189,1//	78,623	: 1,889,446 :	<b>∢</b> 	 g	30
Motors, generators, transformers, and related		••		•	• ••	•••	
Transformers	o a	1,774,312	1,005,042	8,248,380	. 12	50 .	312
Motors and generators	9/ 6/250,000	1 016 921	123,725	3,331,510	4 1	 	92
Generator sets	; ```	554,367	39,523	345.156	. 12	49	25
Magnets and electromagnetic devices	191	32,091	70,723	273,632	. 26	14:	2
Storage hatteries	m c	336,510	195,128	3,458,618	9 1	 o	42
Portable electric hand tools	9/ 1,182.700	133.431	87.430	1,136,699			28
Vacuum cleaners, floor polishers, and parts							
Electromechanical household appliances and	: <u>9</u> / 1,332,600 :	119,494	19,880	1,232,986	7		16
parts thereof	9/ 1,507,400	97,682	87,941	1,497,659	•		21
See footnotes at end of table.				•	••	••	

U.S. production, exports of domestic merchandise, imports for consumption, apparent consumption, and employment, 1981 1/--Continued

				: Apparent	Ratio of4/	4/	Total	
Commodity area	Product 10n	Exports 2/	. Imports 3/	: consumption		Exports to :	employment	
		1,000 dollars-	lars		:Percent-	t:	1,000 workers	
Florbule chauses had a closure			<b> </b>			 I		
and parts thereof	9/ 60,000	13,139	51,639	98,500	52 :	22 :	-	
Ignition equipment	<u>9</u> / 2,600,000	297,270	217,851	2,520,581	 6	 =	62	
vehicles	9/ 350.000	25.413	52.400	376.987			10	
Portable electric lamps	9/ 145,000	19,078	13,534	139,456	01	13 :	7	
Electric furnaces and ovens, welding, brazing, :		1					Č	
Induction and dielectric heating equipment: Flortrothormic bousebold annihances other than	7, 2,650,000	397.705	123,668	2,3/5,963	 Ω	 CI	32	
cooking stoves and ranges, furnaces,			•	•		• ••		
heaters, and ovens; and parts thereof	9/ 1,729,600	186,060	284,073	1,827,613	.: 16 :	: 11	24	
thereof	000 000 6 76	128 083	329 043	. 2 240 960	<u>د</u>	·· ·	2.4	
Electric furnaces, heaters, and ovens and parts:	20012017							
thereof:	9 /6	27,942	43,078	695,836	9		80	E-
Telephone and telegraph apparatus	9/ 12,754,994	653,215	: 494,571	12,596,350	<		146	-T8
lelephone switching and switchboard	9/ 4 895 779	261 254	151 024	A 785 A99		·· ·	Α,	
Telephone instruments	EAP 189 19	26 813	450, 1C1	1 088 864			<b>5</b> 2	
Microphones, loudspeakers, and related	200000				•	•	2	
equipment:	9/ 1,234,694	264,029	520,682	: 1,491,347	35 :	21 :	6	
Radiotelegraphic and radiotelephonic apparatus :			•••					
and related equipment:	9/ 11,505,098	2,232,765	7,650,835	: 16,923,168	. 45 :	19 :	209	
Television cameras	9/ 214,974	999" (9	: 243,134	394,442	: 62 :	30:	3	
Television apparatus:								
Television receivers	9/ 3,387,893	389,811	825,116	3,823,198		12:	47	
Automobile radio receivers	9/ 2,392,14/	72 618	179,8/0,1	568 946		31.	65	
Broadcast band radio receivers other than	( ) ( ) ( ) ( ) ( ) ( ) ( )						*	
automobile type:	9/ 227,596	19,764	550,249	758,081	73 :	6	m	
Transcelvers	9/ 887,461	276,219	: 171,024	. 782,266	. 22 :	31 :	16	
Record players, phonographs, record changers;	9/ 525 000	5.00 A.00	. 977 381	730 258		-		
Tape recorders, tape players, and dictation :	,		105/1/2		·	• • •	7	
machines	9/ 495,000	297,865	2,496,532	2,693,667	. 66	: 09	1	
Radio navigational, radar, and radio remote :		*				••	1	
control apparatus and parts thereof:	9/ 7,332,980	614,867	173,677	6,891,790	m	 	122	
Electric sound and visual standaling	674'007'6 /2	404,334	<b>.</b>	2,911,142	·• •			
apparatus:	9/ 1,129,956	271,215	217,339	1,076,080	20:	24 :	27	,
Electrical capacitors	7.17	203,961	: 287,713	1,133,752	25 :	19:	31	
Aluminum electrolytic fixed capacitors: Tantalum electrolytic fixed capacitors	9/ 1/5,000	10,258	59,849	244,591	27 :	 9 %	∢ ∝	
	· · · · · · · · · · · · · · · · · · ·							
See footnotes at end of table.								

U.S. production, exports of domestic merchandise, imports for consumption, apparent consumption, and employment, 1981 1/--Continued

				Apparent	Ratio	0 of4/	Total
Commodity area	Production	Exports 4/	Imports 3/	consumption	: Imports to	Exports to :	employment
		1,000 dollars-	lars		Per	Percent	1,000 workers
Ceramic fixed capacitors	9/ 325,000 :	60,404	101,689	366,285	28		11
Articles for making and breaking electrical	9/ 17,450,000	1,890,267	1,108,528	16,668,261		: <b>::</b>	258
Electrical switches and relays:	,				••		
Circuit breakers	9.	171,226	45,033	1,533,807			24
Fires other than circuit breakers	9/ 375.450	37.701	12.605	350.354	Ω <b>√</b>		7
Connectors	2	273,195	156,563	2,223,368		. 12 .	04
Switchboards and switchgear assemblies	9/ 1,640,000	87,690	11,431	•		 	28
AC motor starters and contactors	7	23,533	: 9,318 :	1,185,785	-	: 7	15
Electrical resistors	-	134,811	: 179,185 :	769,374	. 23	: 61 :	20
Fixed resistors	•	82,148	: 101,982	509,834		: 11 :	13
Carbon composition resistors	. 000,09 /g	9,951	12,176	62,225	: 50	: 17 :	7
Film resistors	000,081 /2	13,613		220,750			Δ.
Altewould resistors	. •	35,381	17,622	417,241	•		7 66
Electric lamps	5	164,771	175.625	2.000.854	·		e e
Electronic tubes (except X-ray)	1.7	290,404	251,027	1,740,623	14	: 91	38
Television picture tubes-+	9	64,022	: 68,275 :	654,253	01 :	: 01	18
Semi conductors	. 9/ 8,671,000	3,606,979	3,617,584	8,681,605	: 42	: 42 :	195
Transistors	6	87,339		907,771	. 29	: 12 :	13
Integrated circuits	: 9/ 6,292,917	768,411	2,952,690	8,477,196	. 35	: 12 :	118
Electrical conductors	20 h	594,397	532,077	9,387,680	•	 •	71
miscellaneous electrical articles	7,300,000, 7,4 5,76 35,7	240,444 404 544	318,902	6,739,005			91
Mail locemoraves and rolling score		979' /01	. /cc'077	100'+07'+	n :		84
Automobile trucks and truck tractors	9/ 13,128,000	2,073,687	3.789.125	14,843,438			09
Notor buses	1.0	99,751	310,572	1,230,821	25	01	4
Passenger automobiles	: 9/ 43,771,000	3,996,144	: 17,993,510 :	57,768,366	. 31	 o	200
Snowmobiles	91	13,878	. 41,466	209,088	200		~
Special purpose motor vehicles	_	1,193,707	289,944	646,237	45	: 77 :	18
Bodies and chassis for motor vehicles	000'058'1 /6	553,698	493,647	1,789,949		 OE	30
rotor venttle parts, except toules and	9/ 23 120 000	956 956 9	3 202 805	19 38K 2KK			37.6
Tractors, including parts	5	3,582,805		3.108.697	32	23	71
Fork-lift trucks and similar industrial							
vehicles, including parts	: 9/ 1,920,000	452,995	: 192,907 :	1,659,912	: 12	: 24 :	23
Tanks and other self-propelled armored	•						
vehicles, including parts	3.	743,156		1,274,569		37	21
Motorcycles, including parts	ma'/et /2	*10'\	1,342,242	1,/52,828		 10 	<b>.</b>
self-propelled, including parts	6	241,979		526,428	<u>د</u>	. : : : : : : : : : : : : : : : : : : :	07
Aircraft and spacecraft, including parts	: 9/ 32,175,861	14,621,380	: 2,585,931 : :	20,140,412	13	45 :	493
See footnotes at end of table.	•		•			•	

U.S. production, exports of domestic merchandise, imports for consumption, apparent consumption, and employment, 1981 1/--Continued

Imports to   Exports to   employment					Apparent	Ratio	Ratio of4/	Total
Section   Sect	Commodity area	Production	Exports 2/	Imports 3/	consumption	Imports to	Exports to :	employment
Section   Sect			lob 000,1	ars		:Per	cent:	1,000 workers
9/45,000         20,015         421,049         683,034         49         4           ponents and lenses,         9/45,000         48,350         234,377         1,111,027         26           ponents and lenses,         9/43,000         122,722         299,761         1,223,439         25           populatistic lenses) and accomponents other than         9/202,000         50,347         303,661         455,514         67         25           promote and apparatus and surgicial appliances         9/3,42,700         127,332         181,660         88,228         21         115           promote surgicial apparatus and surgicial apparatus and surgicial apparatus and parts————————————————————————————————————	Airplanes (military and nonmilitary)	9/ 21,525,000 9/ 3,404,300 9/ 3,518,200	702,765	251,773	12,689,697 2,953,308	<b></b>	2 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	908 69
9/45,000         43,350         21,049         63,034         49         4           ponents and lenses,         9/45,000         41,350         29,761         1,223,439         26         6           ponents and lenses,         9/1046,400         112,722         29,761         1,223,439         25         12           cophthalaic lenses) and domithalaic lenses and surgical lengthaces         9/202,000         50,347         303,861         67         25           runeatt softer than and surgical apparatus and surgical appliances         9/342,700         130,758         74,932         3,270,54         8         17           sart cincluding threshold and surgical appliances         9/350,400         310,758         74,932         3,270,54         9         40           tro-medical apparatus and surgical appliances         9/350,400         310,758         114,432         41,158         180,426         23         9         40           use statutes and clear apparatus and surgical appratus and parts         9/100,000         727,882         109,707         1,134,497         22         9         40           use stational appliances         9/100,000         336,181         269,678         1,134,497         22         28           use stational appratus and parts	MISCELLANEOUS MANUFACTURES						* · · · · · · · · · · · · · · · · · · ·	
9/ 1,046,400 122,772 299,761 1,722,439 17 2 12 12 12 12 12 12 12 12 12 12 12 12 1	Handbags	9/ 452,000	20,015	421,049	853,034	49	₹ 9	20
9/ 202,000 50,347 303,861 455,514 67 25  9/ 3,342,700 127,332 181,666 2,979,758 8 17  9/ 3,342,700 310,758 74,932 3,270,574 2 9  9/ 3,506,400 310,758 74,932 3,270,574 2 9  9/ 1,801,000 727,882 109,707 1,182,825 9 40  9/ 1,201,000 336,181 269,678 1,134,497 24 28  9/ 3,500,000 911,890 246,081 2,834,191 9 26  9/ 21,000 107,293 343,827 876,534 39 17  9/ 235,000 136,231 9,183 107,952 9 58	Plat goods	91,0	9,087	87,474	517,387	17	12 .	10
9/ 202,000 50,347 303,861 455,514 67 25 25 29/ 830,000 127,332 181,660 884,328 21 15 15 17 195,809 2,979,758 8 17 17 19 19 19 19 19 19 19 19 19 19 19 19 19	Optical instruments, components and lenses, except ophthalmic: Optical lenses (except ophthalmic lenses) and :				*			
9/ 3,342,700 127,332 181,660 2,979,758 21 15 17 196,809 2,979,758 8 17 17 196,809 2,979,758 8 17 17 17 196,809 2,979,758 8 17 17 196,809 2,979,758 8 17 1 14,432 16,432 17,4932 3,270,574 2 9 9 1 1,14,432 41,158 180,426 23 49 1 1,14,432 16,1000 114,432 109,707 1,182,825 9 40 107,203 336,181 269,678 1,134,497 24 28 11,204,000 911,890 246,081 2,834,191 9 26 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	elements	Ñ	50,347	303,861	455,514	.:	25	<b>60</b>
9/ 3,506,400       310,758       74,932       3,270,574       2       9	optical lenses	9/8 8,8	127,332 : 559,751	196,809	884,328 2,979,758	21.8	15 :	13
9/ 1,801,000       727,882       109,707       1,182,825       9       40         9/ 1,201,000       336,181       269,678       1,134,497       24       28         9/ 3,500,000       911,890       246,081       2,834,191       9       26         9/ 640,000       107,293       343,827       876,534       39       17         9/ 21,000       13,186       19,558       27,372       71       63       6/         9/ 235,000       136,231       9,183       107,952       9       58	and supplies Dental instruments and parts (including artificial teeth and dentures)		310,758	74,932	3,270,574	2 m	6 0	. 61
9/ 1,201,000       336,181       269,678       1,134,497       24       28          9/ 3,500,000       911,890       246,081       2,834,191       9       26         *       9/ 640,000       107,293       343,827       876,534       39       17          9/ 21,000       13,186       19,558       27,372       71       63       6/          2/ 235,000       136,231       9,183       107,952       9       58	X-ray equipment and electro-medical apparatus and: parts: Flectro-medical apparatus and parts.	97 1 801 000	727 882	702 901	888			
8,       9/3,500,000       911,890       246,081       2,834,191       9       26         8,       9/640,000       107,293       343,827       876,534       39       17         9/21,000       13,186       19,558       27,372       71       63       6/          9/235,000       136,231       9,183       107,952       9       58	Apparatus based on the use of X-rays or of radiations, whether for medical, industrial or other uses and parts.	00 102 1 76	100 T		1 134 A07			, Y
2/ 3,500,000 911,890 246,081 2,834,191 9 26 36 36 3 4 4 5 5 5 3 4 3 9 17 8 7 1 6 3 6 6 7 1 6 3 6 6 7 1 6 3 6 6 7 1 6 3 6 6 7 1 6 3 6 6 7 1 6 3 6 6 7 1 6 3 6 6 7 1 6 3 6 6 7 1 6 3 6 6 7 1 6 3 6 6 7 1 6 3 6 6 7 1 6 3 6 6 7 1 6 3 6 6 7 1 6 3 6 6 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Surveying, hydrographic, navigational, meteorological, hydrological, geophysical	2/ 1/20th	9 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	0 /0 /0	764.457	**************************************	87	3
9/ 640,000       107,293       343,827       876,534       39       17         9/ 21,000       13,186       19,558       27,372       71       63       6/          9/ 235,000       136,231       9,183       107,952       9       58	Drawing, marking-out, and mathematical calculating instruments; micrometers, calculating and gauges; balancing machines; non-optical measuring and checking machines	000,000,5	911,890	246,081	2,834,191	on		On a
9/ 21,000 : 13,186 : 19,558 : 27,372 : 71 : 63 :	n.s.p.f., and parts		107,293	343,827	876,534	30		14
9/ 235,000 : 136,231 : 9,183 : 107,952 : 9 :	Machines and appliances for determining the strength of articles or materials under compression tension torsion or sharing	_ :	13,186	19,558	27,372	<b>Z</b>	**************************************	
	stress. Pard parts	9/ 235,000	136,231	9,183	107,952	6 6 6 33 33 31 31	 	

U.S. production, exports of domestic merchandise, imports for consumption, apparent consumption, and employment, 1981 1/--Continued

Section of the sectio				: Apparent	Rati	Ratio of4/	Total
COMMODITY area	Production	exports 2/	imports 3/	consumption	: Imports to	Exports to	employment
		1,000 dollars-	lars		:Per	Percent	1,000 workers
Hydrometers, thermometers, barometers, and							
Apparatus for measuring, checking or controlling:	m'net /k	78,860	78,632	169,772	<b>&gt;</b> 		un.
tequius, or gases, or controlling temperature, and parts	000'000'5 /6	1,178,680	252,368	4,073,688		24	84
and parts————————————————————————————————————	9/ 2,270,000	904,499	101,417	1,466,918		04	40
and similar counting devices, and parts: Instruments and apparatus for measuring or	9/ 410,000	60,392	45,769	395,377		. 15 :	<b>'9</b>
detecting alpha, beta, gamma, X-ray, cosmic or similar radiations, and parts	9/ 475,000	126,072	10,769	359,697		27 :	12
instruments and apparatus to measure or check : electrical quantitles, and parts	9/ 4,300,000	1,352,211	109,877	3,057,666	<b>∢</b> 	31 :	89
Matches, clocks, and clockwork operated devices : (including time clocks and time stamps) and :	9/ 910,000	98,026	14,182	826,156		<b>1</b>	14
parts: Watches and watch movements	9/ 61,715 :	4,646	830,757	887,826	94	89	7
Motion-picture cameras and parts thereof: Photographic cameras, other than motion-picture :		22,935	21,883	26,948		. 82 :	7
cameras, photographic enlargers, and camera-enlargers, and parts thereof	: 000'009 /6	243,430	613,647	970,217		4	20
recording and reproducing systems, and parts; and projection screens———————————————————————————————————	9/ 280,000	117,169	25,764	188,595		42 ::	6
editors, combinations thereof, and parts: Photographic lens caps, lens hoods, adapter rings:	67,000	18,349	3,263	51,914	. 16	27	2
and filters; film reels and reel cans; and frames and mounts for photographic slides: Photographic flash-lighting apparatus, including : electronic stroboscopic flash apparatus.	9/ 67,000	21,628	18,977	64,349	53	32	<b>-</b>
photographic light meters, and half-tone screens designed for use in engraving or photographic processes; and range-finders designed to be used with photographic cameras and range.					• •• ••	•	
Equipment specially designed for photofinishing : (still pictures)	: 000'75 / <del>6</del> : <b>37'400'000</b>	9,807	: 102,566 : 47,750	: 124,759 : 248,594	: 82 : 19	31 30	<b></b> €
See footnotes at end of table.		•					

U.S. production, exports of domestic merchandise, imports for consumption, apparent consumption, and employment, 1981 1/--Continued

					Rati	Ratio of4/		ı
Commodity area	Production	Exports 2/	Imports 3/	Apparent	Tanonto to	- Function to	lotal	
		j	l	consumption		: production :	emptoyment	
		1,000 dollars	lars		ber	-Percent	1,000 workers	,
Equipment specially designed for processing and printing motion-picture film	9/ 40,000	23,967	2,410	18,443			-	
exposed	9/ 4,400,000	1,040,517	381,334	3,740,817		24	ر د	
brown print papers, sensitized but not exposed; and heat sensitive papers————————————————————————————————————	9/ 1,500,000	305,596	185,810	1,380,214		 20	m	
recorded, whether or not developed, news sound recordings relating to current events abroad; and sound recordings produced on photographic or magnetic film, tape, or wire,	e de la companya de							
and sultable for use in connection with socion-picture exhibits	9/ 280,000	73,982	21,102	227,120		. 56	271	_
Magnetic video tape on which pictures or pictures: and sound have been recorded	<u>9</u> / 285,000 <u>9</u> / 1,208,000	28,925 87,820	7,646 :	263,721	m <b>∢</b>	10:	16 15	
Sound recordings other than phonograph records, and magnetic recordings	9/ 470,000	86,170	13,576	397,406				
Sound recordings on disc of soft wax (master records), or metal matrices obtained	9/ 692,000	550,037	293,668	435,631	67	62		
cherefrom, for use in the maintacture of sound records for export; and scrap and waste : photographic film fit only for the recovery :								
of its constituent materials	12/ 9/ 979,654 9/ 920,875	201,744 146,410	262,852 : 190,671 :	1,040,762 965,136	: <u>12</u> / : 25 : 20	<u>12</u> / 21 : 16 :	12/ 25 24	
Pianos (including electric planos, harpsichords, etc.): Organs (including pipe, reed and	9/ 240,331	22,219	49,061	262,084	.: 19			_
Furniture, mattresses, and pillows, cushions, and: similar furnishings	<u>9</u> / 179,090 <u>9</u> / 16,000,000	42,806	1,250,073	157,978	<b>4</b> N	4 6 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	450	
convertible sofas, sofa beds, and similar deal-purpose sleep furniture, and boxsprings	9/ 1,200,000	13,553	2,624	1,189,079	<b>/9</b> i	· · · · · · · · · · · · · · · · · · ·	19	
See footnotes at end of table.						. •		

U.S. production, exports of domestic merchandise, imports for consumption, apparent consumption, and employment, 1981 1/--Continued

Traduction   Commonity area   Traduction   Traduction		taomio amo
16 or   1,000 dollars   12,475,645   8   12,475,645   9   12,475,000   9   13,425   9   12,475,000   9   13,425   9   12,475,000   9   12,625   9   12,475,000   9   12,625   9   12,475,000   9   12,625   9   12,475,000   9   12,625   9   12,475,000   9   12,4	• •	employment
10 or   2/ 12,000,000   510,542   986,187   12,475,645   8   12/ 1,067,000   121,884   36,059   706,479   15   15   12/ 12/ 12/ 12/ 12/ 12/ 12/ 12/ 12/ 12/	5	1,000 workers
9/ 12,000,000         510,542         986,187         12,475,645         8           16/ 33,75,000         121,884         36,059         974,175         4           16/ 33,75,000         168,676         121,755         12/ 130         15/ 131           16/ 33,75,000         186,039         187,188         2,484,330         1           9/ 3,750,000         360,023         681,345         3,561,322         1           9/ 3,750,000         360,023         681,345         3,602,790         17           9/ 406,000         360,023         681,345         3,602,790         17           9/ 406,000         113,792         45,058         378,266         12           9/ 406,000         113,792         45,058         378,266         12           9/ 406,000         113,792         45,058         378,266         36           15,500         113,792         45,058         378,333         4           15,500         12,626         243,811         380,685         64           15,000         12,626         243,811         380,685         64           16/ 15,000         12,626         243,811         380,685         35           16/ 15,000		
9/ 12,000,000         510,542         986,187         12,475,645         8           9/ 12,000,000         111,844         36,059         974,175         4           16/ 83,340         118,84         36,059         12/ 12/ 12/ 12/ 12/ 12/ 12/ 12/ 12/ 12/		
29/1067,000         121,934         36,059         177,175         4           16/ 843,400         186,66         121,755         12/         15           16/ 843,400         186,66         121,755         12/         15           16/ 33,55,800         890,623         681,345         3,561,322         19           2/ 3,75,000         360,023         681,345         3,561,322         19           2/ 3,75,000         360,023         681,345         3,561,322         19           2/ 447,000         13,372         45,038         3,62,790         17           2/ 447,000         13,372         45,038         316,26         12           2/ 126,000         13,372         45,038         316,26         12           3/ 126,000         13,322         44,632         738,588         25           4/ 15,000         13,923         142,092         243,169         25           5/ 126,000         13,923         142,092         243,169         25           5/ 115,000         13,923         142,092         243,169         25           5/ 149,500         12,626         23,311         316,44         33,315,48           5/ 150,000         140,286		
16/81,400     168,676     121/755     796,479       16/92,200     176,425     121/755     796,479       16/93,400     176,425     121/755     796,479       16/93,400     360,023     681,345     3,61,322       9/375,800     360,023     681,345     3,61,322       9/406,000     31,312     136,999     511,687       9/406,000     113,792     45,058     378,266       9/406,000     113,792     45,058     378,68       9/76,000     18,664     32,477     89,813       9/76,000     18,664     32,477     89,813       aby     9/350,000     13,923     142,092     243,169       aby     9/350,000     12,626     243,811     380,685       rty     9/350,000     12,626     243,811     380,685	٠.	016
16/ 3,355,800     176,425     12/     12/     12/       16/ 3,355,800     889,658     18,188     2,484,330     12/       9/ 3,240,000     360,023     681,345     3,561,322     360,039       9/ 3,75,000     31,312     136,999     511,687       9/ 447,000     113,792     45,058     378,266       126,000     113,792     45,058     378,266       126,000     18,664     32,477     89,813       126,000     18,664     32,477     89,813       126,000     13,923     142,092     243,169       127,500     13,923     142,092     243,169       127,500     13,923     142,092     243,169       127,50,000     12,626     243,811     380,685       127,50,000     12,626     243,811     380,685       127,50,000     12,626     243,811     380,685       127,50,000     140,846     706,344     3,315,498       127,50,000     140,846     706,344     3,315,498       127,50,000     140,846     706,344     3,315,498       127,50,000     140,846     706,344     3,315,498       127,50,000     140,046     103,950     112,900       127,50,000     140,046     103,950	• • •	7.1
		26
9/ 3,240,000     360,023     681,345     3,561,322       9/ 3,375,000     368,268     596,058     3,602,790       9/ 406,000     113,192     45,058     37,806       9/ 447,000     113,792     45,058     378,266       12, 447,000     113,792     45,058     122,958       12, 126,000     18,664     32,477     89,813       12, 15,000     13,923     142,092     243,169       12, 15,000     12,626     243,811     380,685       12, 15,000     12,626     243,811     380,685       12, 15,000     12,626     243,811     380,685       12, 15,000     12,626     243,811     380,685       12, 15,000     12,626     243,811     380,685       12, 15,000     12,626     243,811     380,685       12, 15,000     12,626     243,811     380,685       12, 15,000     140,846     706,344     3,315,498       14,000     140,846     706,344     3,315,498       14,000     140,846     706,344     3,315,498       14,000     112,900     112,900     112,900       14,000     11,290     112,900     112,900       100,032     112,600     11,948     70,032     120,632 <t< td=""><td></td><td>17/ 127</td></t<>		17/ 127
	•••	
9/ 406,000       31,312       136,999       511,687         9/ 447,000       113,792       45,058       378,266         s, and       9/ 126,000       18,664       32,477       89,813         9/ 560,000       13,923       142,092       243,169         aby       9/ 15,000       13,923       142,092       243,169         aby       9/ 350,000       12,626       243,811       380,685         rty       9/ 15,000       12,626       243,811       380,685         rty       9/ 3740,000       278,023       618,491       1,860,468	17: 11:	20
9/ 447,000     113,792     45,058     378,266       s, and     126,000     40,351     37,309     122,958       12, 126,000     18,664     32,477     89,813       2/ 560,000     13,923     142,092     243,169       2/ 560,000     13,923     142,092     243,169       3/ 115,000     13,923     142,092     243,169       15,000     12,626     243,811     380,685       15,000     12,626     243,811     380,685       15,000     12,626     243,811     380,685       15,000     12,626     243,811     380,685       15,000     12,626     243,811     380,685       15,1520,000     232,729     1,039,948     4,547,219       16,039,948     761,793     107,950     115,498       14,     14,846     706,344     3,315,498       16,000     11,948     20,032     120,584       10n     2/ 112,500     11,948     20,032     120,584       10n     2/ 112,500     47,062     92,869     761,307       10n     2/ 180,600     115,803     115,805     81,722     785,885       10n     2/ 180,600     115,803     115,805     81,722     785,885	27 : 8 :	10
8, and     9/ 126,000     40,351     37,309     122,958       9/ 76,000     18,664     32,477     89,813       9/ 560,000     5,934     184,632     738,698       aby     9/ 350,000     8,476     13,809     355,333        9/ 149,500     12,626     243,811     380,685       rty     9/ 3,740,000     232,729     1,039,948     4,547,219        9/ 3,740,000     232,729     1,039,948     4,547,219        9/ 550,000     140,846     706,344     3,315,498        9/ 650,000     81,929     112,900     881,891        9/ 112,500     11,948     20,032     120,584        9/ 715,500     47,062     92,869     761,307        9/ 715,500     13,603     77,806     836,203        9/ 715,500     135,837     81,722     785,885	••	
s, and:     9/76,000     18,664     32,477     89,813       9/560,000     5,934     184,632     738,698       9/115,000     13,923     142,092     243,169       aby     9/350,000     8,476     13,809     355,333       rty     9/3740,000     278,023     618,491     1,860,468	30 : 32 :	
9/ 76,000     18,664     32,477     89,813       9/ 560,000     5,934     184,632     738,698       9/ 560,000     13,923     142,092     243,169       aby     9/ 350,000     8,476     13,809     355,333       rty     9/ 350,000     12,626     243,811     380,685       rty     9/ 3,740,000     232,729     1,039,948     4,547,219		
29		
aby     9/ 560,000     5,934     184,632     738,698       aby     9/ 115,000     13,923     142,092     243,169       rty     9/ 350,000     12,626     243,811     380,685        9/ 149,500     12,626     243,811     380,685        9/ 3,740,000     2278,023     618,491     1,860,468        9/ 2,750,000     140,846     706,344     3,15,498        9/ 550,000     81,929     193,722     761,793        9/ 828,000     59,009     112,900     881,891        9/ 112,500     11,948     20,032     120,584        9/ 715,500     47,062     92,869     761,307        9/ 790,000     31,603     77,806     836,203        9/ 790,000     135,837     81,722     785,885		
aby     9/ 115,000     13,923     142,092     243,169       2/ 350,000     8,476     13,809     355,333        9/ 149,500     12,626     243,811     380,685        9/ 1,520,000     278,023     618,491     1,860,468        9/ 3,740,000     232,729     1,039,948     4,547,219        9/ 2,750,000     140,846     706,344     3,315,498        9/ 650,000     81,929     193,722     761,793        9/ 650,000     81,929     112,900     881,891        9/ 818,000     59,009     112,900     881,891        9/ 715,500     47,062     92,869     761,307        9/ 715,500     31,603     77,806     836,203        9/ 790,000     31,603     77,806     836,203        9/ 790,000     31,603     77,806     836,203        9/ 840,000     135,837     81,722     785,885	••	
anby     9/ 350,000     8,476     13,809     355,333       "     9/ 149,500     12,626     243,811     380,685       "     9/ 1,520,000     278,023     618,491     1,860,468       "     9/ 3,740,000     232,729     1,039,948     4,547,219       "     9/ 650,000     140,846     706,344     3,315,498       "     9/ 650,000     81,929     193,722     761,793       "     9/ 828,000     59,009     112,900     881,891       "     9/ 112,500     47,062     92,869     761,307       "     9/ 715,500     47,062     92,869     761,307       "     9/ 790,000     31,603     77,806     836,203       "     9/ 840,000     135,837     81,722     785,885	58: 12:	
	••	
9/ 149,500     12,626     243,811     380,685       rty     9/ 1,520,000     278,023     618,491     1,860,468        9/ 3,740,000     232,729     1,039,948     4,547,219        9/ 2,750,000     140,846     706,344     3,315,498        9/ 650,000     81,929     193,722     761,793        9/ 828,000     59,009     112,900     881,891        9/ 112,500     47,062     92,869     761,307        9/ 715,500     47,062     92,869     761,307        9/ 790,000     31,603     77,806     836,203        9/ 840,000     135,837     81,722     785,885	4 ::	
rty     27 125,000     278,023     618,491     1,860,468       9/3,740,000     232,729     1,039,948     4,547,219       9/3,740,000     140,846     706,344     3,315,498       9/2,750,000     140,846     706,344     3,315,498       14/3     -     107,950     761,793       14/3     -     107,950     12,900       12,900     11,948     20,032     120,584       100     9/715,500     47,062     92,869     761,307       100     9/790,000     31,603     77,806     836,203       100     9/790,000     135,837     81,722     785,885		
9/ 1,520,000     278,023     618,491     1,860,468       9/ 3,740,000     232,729     1,039,948     4,547,219       9/ 2,750,000     140,846     706,344     3,315,498       9/ 650,000     81,929     193,722     761,793       14/     -     107,950     -       9/ 828,000     59,009     112,900     881,891       9/ 715,500     47,062     92,869     761,307       10n     9/ 715,500     31,603     77,806     836,203       9/ 840,000     135,837     81,722     785,885		
9/3,740,000     232,729     1,039,948     4,547,219       9/2,750,000     140,846     706,344     3,315,438       9/2,750,000     140,846     193,722     761,793       14/     -     107,950     761,793       14/     -     107,950     12,900       9/828,000     11,948     20,032     120,584       100     9/715,500     47,062     92,869     761,307       100     9/790,000     31,603     77,806     836,203       9/840,000     135,837     81,722     785,885		
9/ 2.750,000     140,846     706,344     3,315,498       14/     193,722     761,793       14/     107,950     112,900     881,891       9/ 828,000     59,009     112,900     881,891       9/ 715,500     47,062     92,869     761,307       10n     9/ 790,000     31,603     77,806     836,203       9/ 840,000     135,837     81,722     785,885		<b>47</b>
9/ 650,000     81,929     193,722     761,793       14/     107,950     -       9/ 828,000     59,009     112,900     881,891       9/ 715,500     47,062     92,869     761,307       100     9/ 790,000     31,603     77,806     836,203       9/ 840,000     135,837     81,722     785,885		9 ^
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9/ 828,000 59,009 112,900 881,891   9/ 112,500 11,948 20,032 120,584   10,564   10,715,500 47,062 92,869 761,307   10n 9/ 790,000 31,603 77,806 836,203   19/ 840,000 135,837 81,722 785,885	•	•
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1on : 9/ 715,500 : 47,062 : 92,869 : 761,307 : 1on : 9/ 790,000 : 31,603 : 77,806 : 836,203 : 9/ 840,000 : 135,837 : 81,722 : 785,885 :	17: 11:	m
1on : 9/ 715,500 : 47,062 : 92,869 : 761,307 : 1on : 2/ 790,000 : 31,603 : 77,806 : 836,203 : : 9/ 840,000 : 135,837 : 81,722 : 785,885 :	••	
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: 9/ 790,000 : 31,603 : 77,806 : 836,203 : : 9/ 840,000 : 135,837 : 81,722 : 785,885 :	••	
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See footnotes at end of table.

U.S. production, exports of domestic merchandise, imports for consumption, apparent consumption, and employment, 1981 1/--Continued

	••	••			. /* 30 0jt-d		
	Droduction	Evaluate 3/	· Tenomts 2/	: Apparent	. Katto of4/	Total	
		/F en jodyn	Tubol ts 3/	: consumption	consumption : Imports to : Exports to :	employment	
		1,000 dollars	lars		Percent:	1,000 workers	
Miscellaneous products:							
Casters	9/ 285,000	7,833	10,794	287,961	 •	4	
Clothespins:	. 9/ 17,500	: 166	••	20,136	. 14 : 14 :	-	
Sausage casings, n.s.p.f.	. 9/ 270,000	69,206	28,892	229,686	. 13 : 6 :	<b>a</b>	
The second secon							

These data are subject to change as later information becomes available either from secondary sources or from the the Commission's commodity industry analysts based on primary and secondary data sources including discussions with detailed surveys the Commission often conducts in the course of its statutory investigations or other work. Government and industry contacts. various

Value f.a.s. U.S. port of export.

U.S. Customs value

It should be noted that these ratios are based on values for production, imports and/or exports which may reflect different stages of marketing. Thousands of farms.

Less than 0.5 percent.

Number of farms. Negligible.

Reported consumption. Producers' shipments. 21mlを10mml

Not meaningful. Not available.

Withheld to avoid disclosing figures for individual companies Less than 500

Since domestically produced clocks often contain foreign made movements, apparent consumption and various ratios cannot be calculated without double counting.

16/ Producers' shipments; does not include products manufactured in Government establishments. 17/ Includes employment in manufacturing and research and development on spacecraft and guided missiles. Producers' shipments; does not include products manufactured in Government establishments.