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Intelligence

Handbook of Economic Statistics, 1988

A Reference Aid

*CPAS 88-10001
September 1988*

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*Research for this report was completed
on 1 August 1988.*

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Handbook of Economic Statistics, 1988

Purpose and Scope

The *Handbook of Economic Statistics*, 1988, provides statistics for selected non-Communist countries and all of the Communist countries.

In general, the data in the *Handbook* are for 1960, 1970, 1975, 1980, and 1983-87. Data for the Communist and non-Communist countries have been adjusted, when necessary, to achieve comparability and therefore may differ from data presented in the original sources. Footnotes have been used liberally to give definitions, exceptions, and methodology. The base year for average annual rates of growth is the year prior to the stated period.

Rounding of Totals

Totals are computer generated and should be rounded to three significant digits for analytical use. Totals are not presented if missing data are believed to represent a significant part of the total. In general, zeros appearing after the last nonzero number following the decimal point are not significant but are used merely for consistency in presentation.

Abbreviations

The abbreviation NA (not available) is used when information about the existence of the data or the magnitude of the data is not available. The abbreviation NEGL (negligible) is used when the magnitude of the data is less than one-half of the final unit employed for each table.

Sources

The data given for the most recent years are frequently preliminary and subject to revision. The data for Communist countries are official data from the country cited, CIA estimates, or estimates made by other organizations. The data for non-Communist countries are from publications of:

- The United Nations
- The Organization for Economic Cooperation and Development (OECD)
- Other international organizations
- US Government agencies
- Individual country reports
- Estimates of this Office.

Definitions

The following definitions are used unless otherwise indicated in the text:

Communist Countries—USSR, Eastern Europe, Albania, Cambodia, China, Cuba, Laos, North Korea, Vietnam, and Yugoslavia.

Eastern Europe—Bulgaria, Czechoslovakia, East Germany, Hungary, Poland, and Romania.

European Community—Belgium, Denmark, France, Greece, Ireland, Italy, Luxembourg, Netherlands, Portugal, Spain, United Kingdom, and West Germany.

Developed Countries—the European Community, Australia, Austria, Canada, Finland, Iceland, Israel, Japan, Liechtenstein, Malta, New Zealand, Norway, Republic of South Africa, Sweden, Switzerland, Turkey, and the United States.

Organization for Economic Cooperation and Development (OECD)—all the developed countries, except Israel, Liechtenstein, Malta, and the Republic of South Africa.

Big Six—Canada, France, Italy, Japan, United Kingdom, and West Germany.

Big Seven—the United States and the Big Six.

Newly Industrializing Countries (NICs)—Argentina, Brazil, China (Taiwan), Hong Kong, Mexico, Singapore, and South Korea.

Except for economic aid, the definition *Less Developed Countries (LDCs)* include:

- All independent countries of Africa, except the Republic of South Africa.
- All independent countries of East Asia, except Japan.
- All independent countries in Latin America, except Cuba.
- All independent countries in the Middle East and South Asia, except Israel and Turkey.

In the LDC grouping no East or West European country, except for Cyprus, and no territory that is a possession, trust, or protectorate, except for Hong Kong, is included.

The definition of *less developed countries* for economic aid conforms to that used by the Development Assistance Committee (DAC) of the OECD and other aid agencies and includes the following non-Communist countries:

- All independent countries of Africa except the Republic of South Africa.
- All countries of East Asia except Hong Kong and Japan.
- Malta, Portugal, and Spain in Europe.
- All independent countries in Latin America, except Cuba.
- All countries in the Middle East and South Asia.

Note: Totals for the country groupings may or may not include all of the countries listed above, depending on the commodity or services listed.

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Graphic Summary

Figure 1
Gross National Product Per Capita, 1987 (in 1987 US \$)

More than \$10,000			
Australia	East Germany	Liechtenstein	Sweden
Austria	Falkland Islands	Luxembourg	Switzerland
Belgium	Faroe Islands	Nauru	United Arab Emirates
Bermuda	Finland	Netherlands	United Kingdom
Brunei	France	New Zealand	United States
Canada	Iceland	Norway	West Germany
Cayman Islands	Italy	Qatar	
Denmark	Japan		
\$5,001 to \$10,000			
Aruba	Greece	Libya	Romania
Bahamas, The	Greenland	Monaco	Saudi Arabia
British Virgin Islands	Guam	Netherlands Antilles	Singapore
Bahrain	Hong Kong	New Caledonia	Spain
Bulgaria	Hungary	Northern Mariana Islands	USSR
Cyprus	Ireland	Oman	Virgin Islands (US)
Czechoslovakia	Israel	Poland	Yugoslavia
French Polynesia	Kuwait	Portugal	
\$1,001 to \$5,000			
Algeria	Djibouti	Man. Isle of	St. Lucia
American Somoa	Dominica	Marshall Islands	San Marino
Andorra	Fiji	Martinique	Seychelles
Antigua and Barbuda	French Guiana	Mauritius	South Africa
Argentina	Gabon	Mexico	South Korea
Barbados	Gibraltar	Micronesia, Federated	Suriname
Belize	Grenada	States of	Syria
Botswana	Guadeloupe	Montserrat	Trinidad and Tobago
Brazil	Guatemala	Niue	Tunisia
Cameroon	Iran	Pacific Islands,	Turkey
Chile	Iraq	Trust Territory of the	Turks and
China (Taiwan)	Jordan	Panama	Caicos Islands
Colombia	Kenya	Peru	Uruguay
Cook Islands	Macau	Puerto Rico	Venezuela
Costa Rica	Malaysia	Reunion	
Cuba	Malta	St. Kitts and Nevis	
\$401 to \$1,000			
Albania	Ghana	Namibia	Tonga
Angola	Guyana	Nicaragua	Tuvalu
Anguilla	Honduras	North Korea	Vanuatu
Bolivia	Ivory Coast	Papua New Guinea	Wallis and Futuna
Cape Verde	Jamaica	Paraguay	Western Samoa
Congo	Lebanon	Philippines	Yemen Arab Republic
Dominican Republic	Liberia	St. Vincent and	Yemen, People's Demo-
Ecuador	Maldives	the Grenadines	cratic Republic of
Egypt	Mauritania	Swaziland	Zimbabwe
El Salvador	Mongolia	Thailand	
Equatorial Guinea	Morocco	Tokelau	
Less than \$401			
Afghanistan	Ethiopia	Malawi	Solomon Islands
Bangladesh	Gambia, The	Mali	Somalia
Benin	Guinea	Mozambique	Sri Lanka
Bhutan	Guinea-Bissau	Nepal	Sudan
Burkina Faso	Haiti	Niger	Tanzania
Burma	India	Nigeria	Togo
Burundi	Indonesia	Pakistan	Uganda
Cambodia	Kiribati	Rwanda	Vietnam
Central African Republic	Laos	Sao Tome and Principe	Western Sahara
Chad	Lesotho	Senegal	Zambia
China	Madagascar	Sierra Leone	Zaire
Comoros			



The United States Government has not recognized the incorporation of Estonia, Latvia, and Lithuania into the Soviet Union. Other boundary representation is not necessarily authoritative.



Figure 2
World Gross National Product and Population, 1987

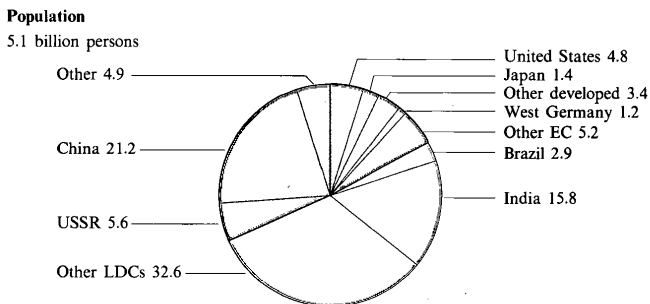
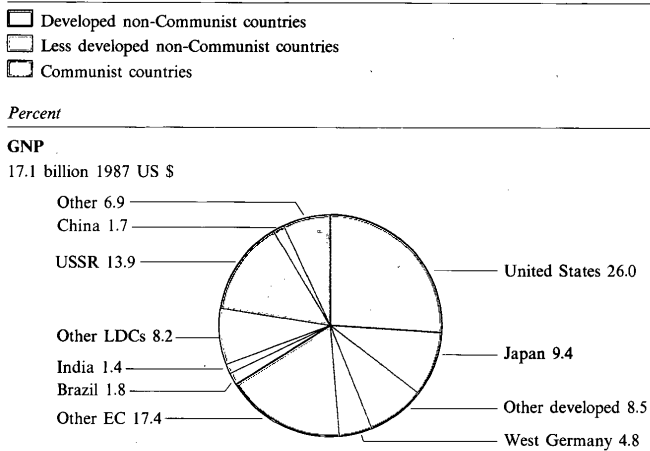


Figure 3
Real Gross National Product Trends, 1961-87

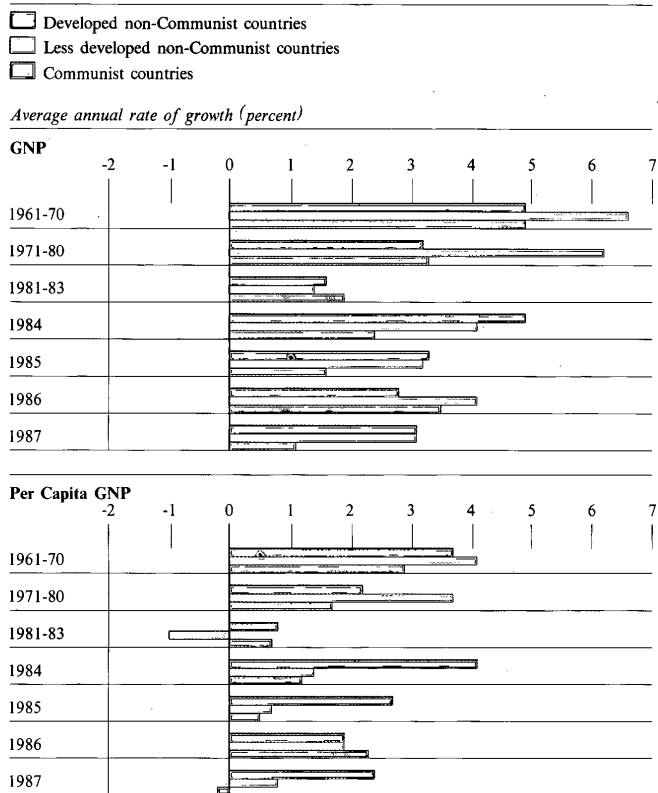


Figure 4
Real Gross Domestic Product Comparisons,
1971-87

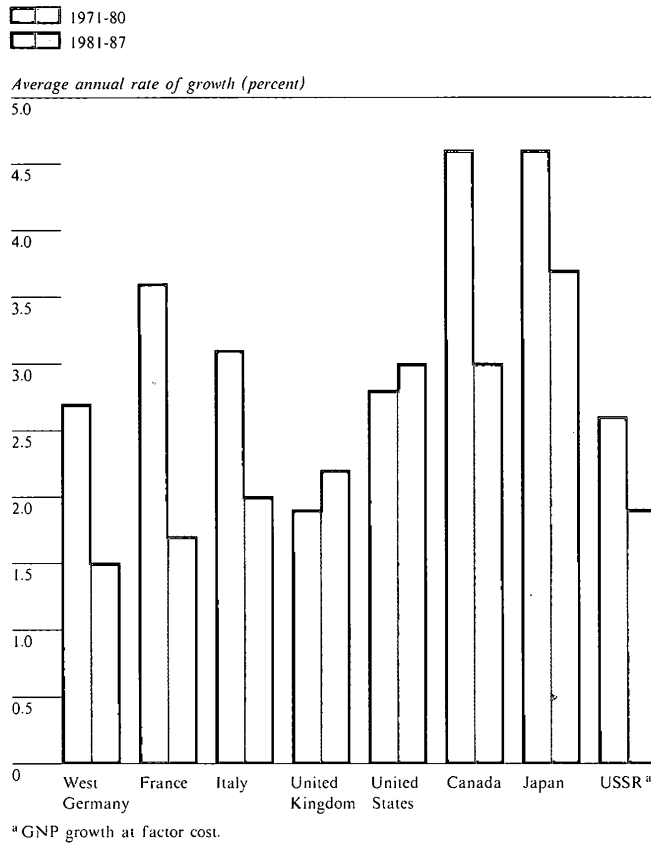


Figure 5
Developed Countries:
Aggregate Inflation Rate Trends, 1961-87

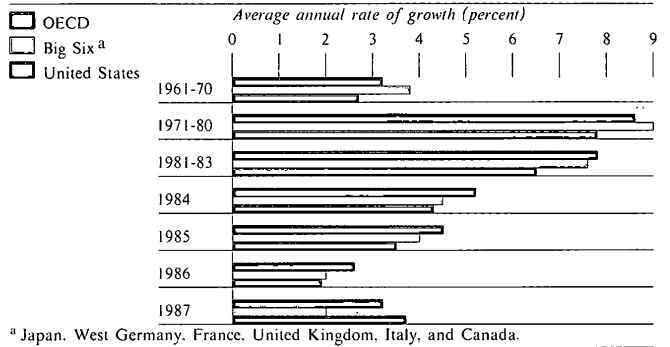


Figure 6
Less Developed Countries:
Aggregate Inflation Rate Trends, 1961-87

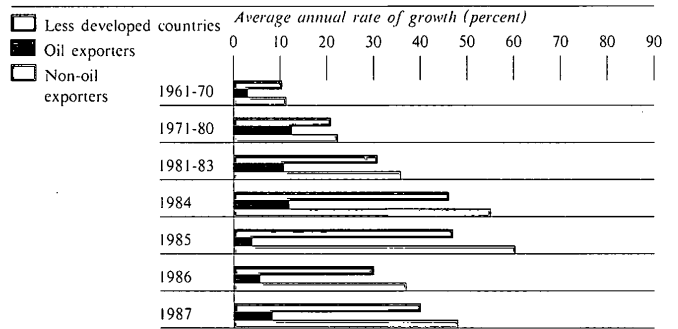
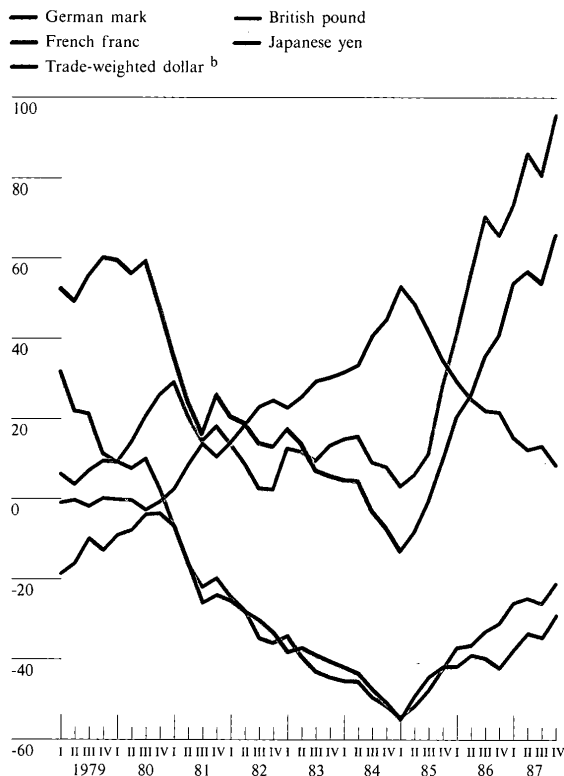


Figure 7
Percent Change in the Value of Selected Foreign Currencies Relative to the US Dollar^a, 1979-87



^a Change relative to selected foreign currencies, compared with March 1973.
^b Relative to 16 major currencies, weighted by 1979-80 trade in manufactures.

Figure 8
Government Receipts, Outlays, and Balances as a Share of GDP, 1960-85

Note scale change

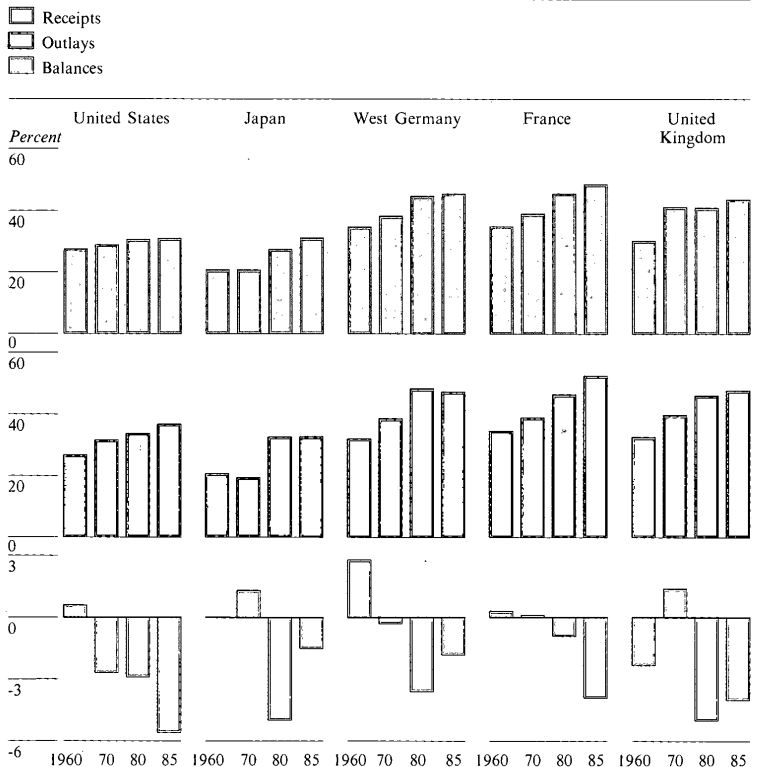


Figure 9
Selected Industrial Countries:
Comparative Tax Burden, 1985

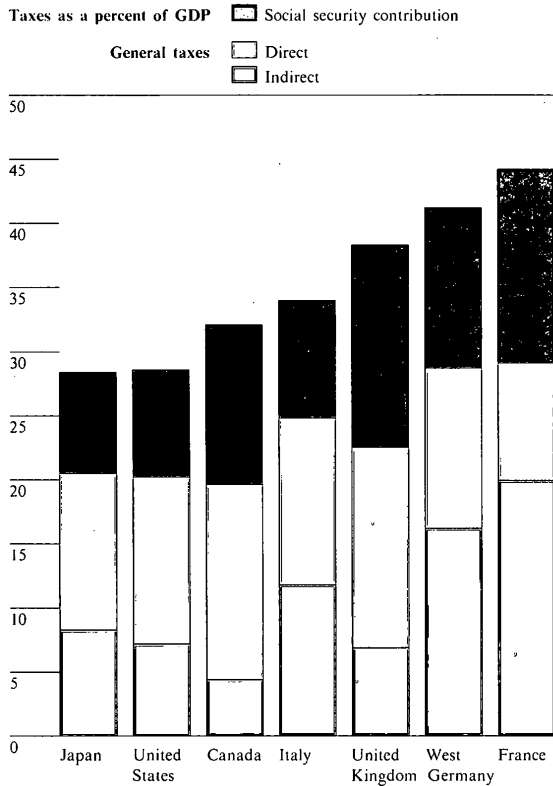
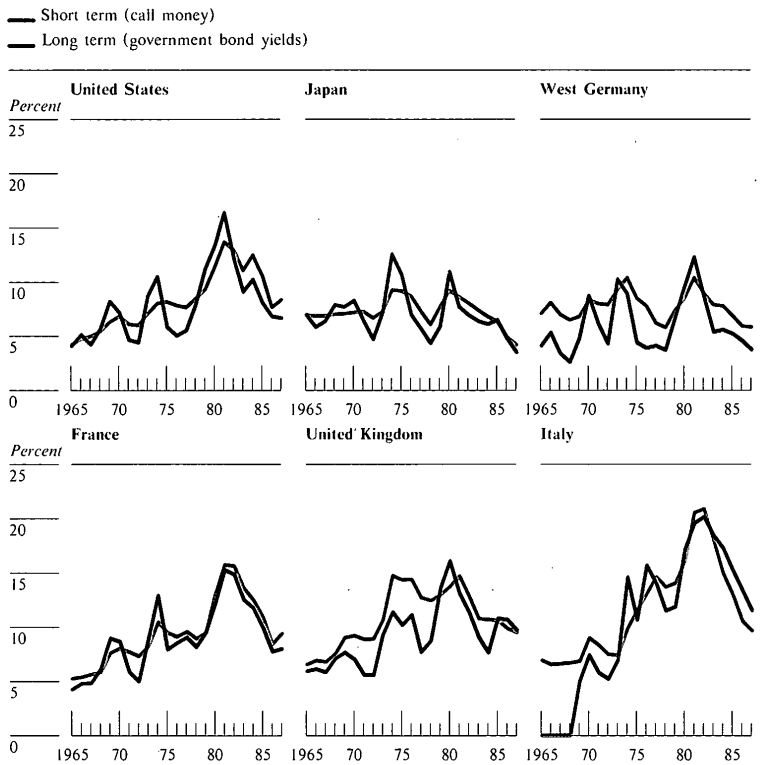
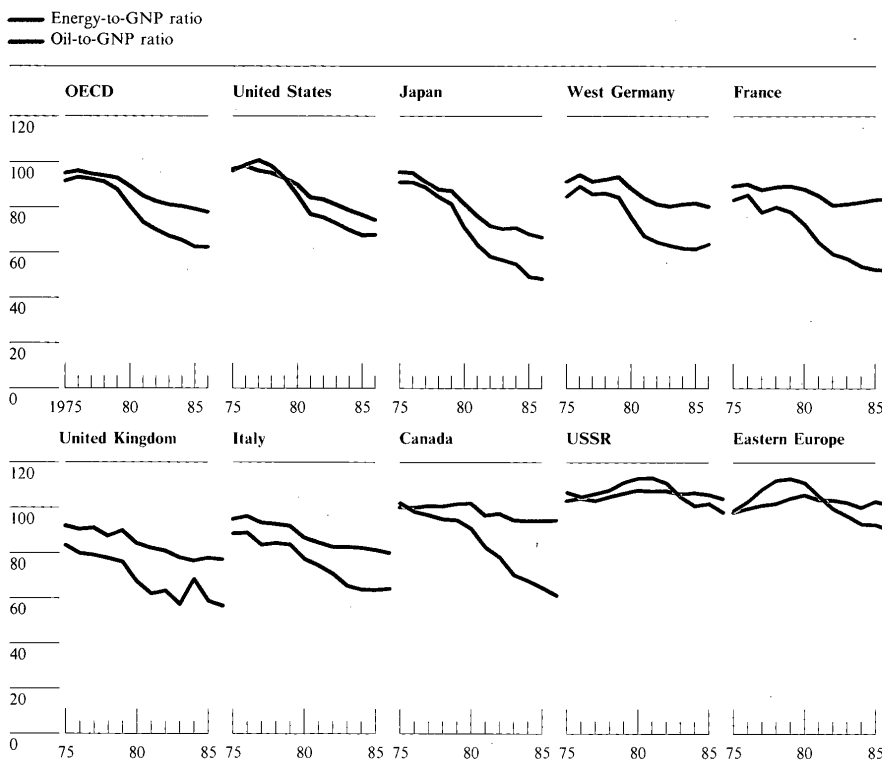


Figure 10
Selected Developed Countries:
Trends in Interest Rates, 1965-87



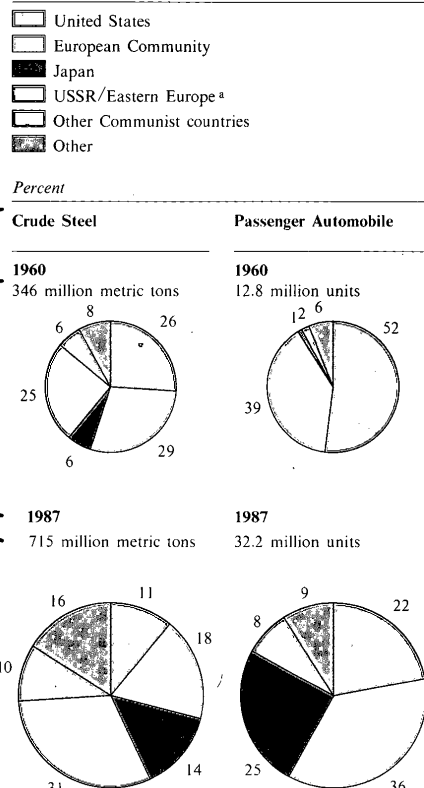
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Figure 11
Measures of Energy Efficiency, ^a
1975-86



^a Care should be taken in comparing the Soviet oil-to-GNP ratio directly with the ratio of Western countries. The Soviet series is based on apparent oil consumption because the Soviets do not publish data on consumption. The apparent consumption series does not take into consideration possible changes in year-to-year oil stock levels and is based on reported oil production and estimates of oil exports and imports.

Figure 12
World Crude Steel and Passenger
Automobile Production, 1960 and 1987



^a Data include production in Yugoslavia.

Figure 13
Worldwide Production of Integrated Circuits, Computers and Telecommunications Equipment by US, Japanese, and West European Firms, 1981 and 1985

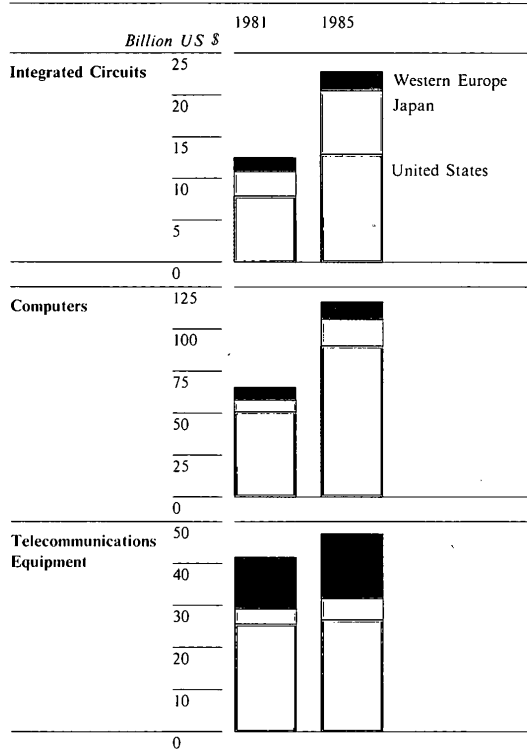


Figure 14
Selected Commodities: Net Imports as a Share of Consumption, 1987^a

	United States Percent	Japan	European Community	USSR
Primary Energy	15	80	40	0
Petroleum ^b	35	100	70	0
Bauxite	93	100	100	35
Copper	32	92	100	0
Cobalt	92	100	98	15
Iron Ore	37	98	82	0
Manganese	100	100	100	0
Chromium	100	100	100	0
Platinum Group Metals	98	98	98	0

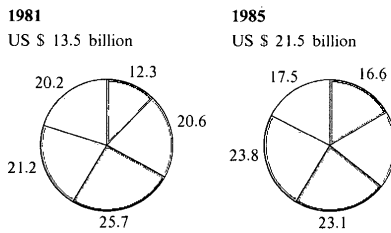
^a Most data rounded to nearest 5 percent. ^b Data are for 1986 and include products.

Figure 15
Share of World Exports of Selected High Technology Products,
1981 and 1985

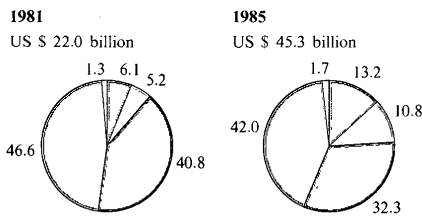
Japan
 Other developed countries
 NICs^a
 Other developing countries
 United States

Percent

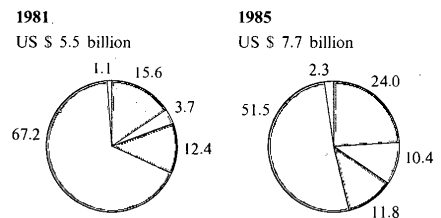
Microelectronics^b



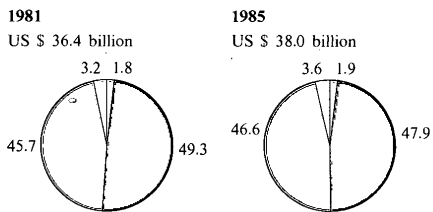
Computers^b



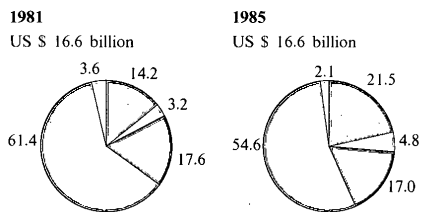
Telecommunications



Aerospace



Machine Tools



^aNewly industrialized countries (NICs) include South Korea, Taiwan, Hong Kong, and Singapore.

^bCommunist Bloc countries accounted for 0.1 percent of total in 1981 and 1985.

Figure 16
Growth of World Trade in Five Critical High-Technology Industries, 1981-85

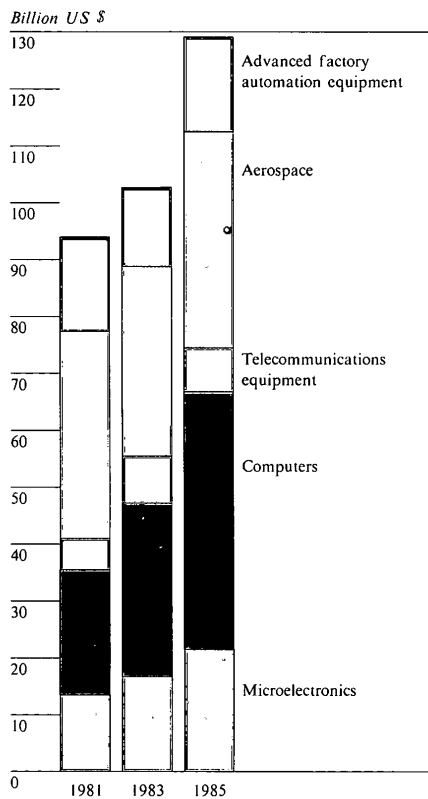
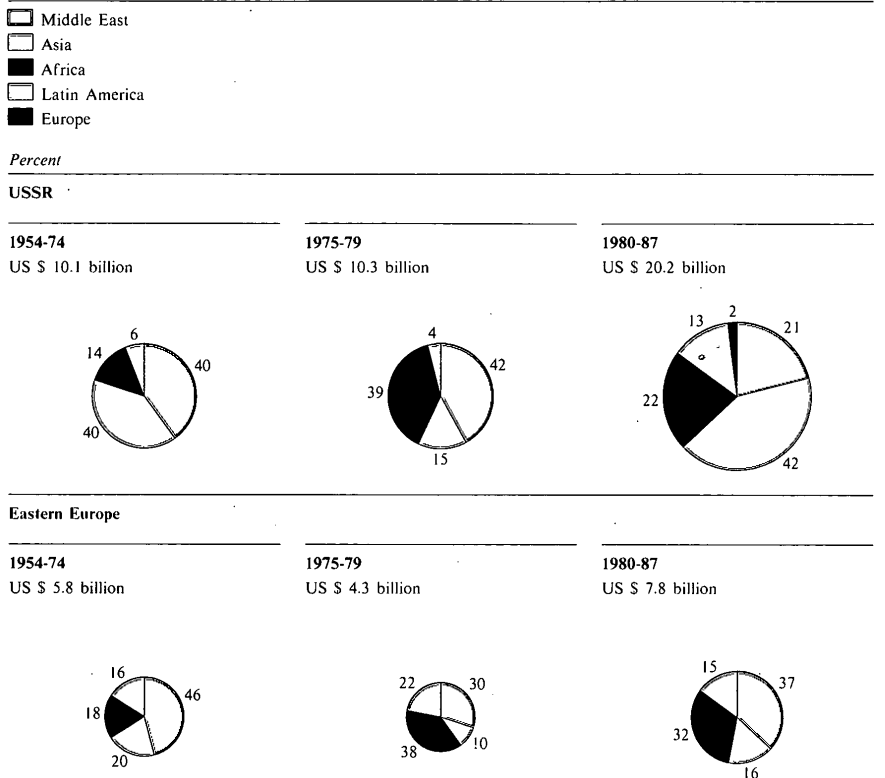


Figure 17
Soviet and East European Economic Aid Extended to Less Developed Countries, 1954-87



2

Declassified and Approved For Release 2012/09/07 : CIA-RDP89T01437R000100140006-0
Economic Profile

Table 1
Selected World Statistics ^a

	1960	1970	1975	1980	1983	1984	1985	1986	1987
Gross national product (billion 1987 US \$)	6,200.0	10,100.0	12,100.0	14,300.0	15,000.0	15,700.0	16,100.0	16,600.0	17,100.0
Population (million persons, midyear)	3,050.0	3,721.0	4,104.0	4,476.0	4,717.0	4,799.0	4,882.0	4,967.0	5,055.0
Agricultural production index (1980=100)	59.0	79.0	90.0	100.0	107.0	112.0	115.0	116.0	117.0
Exports (billion US \$)	129.8	313.1	873.8	1,997.8	1,823.6	1,901.9	1,906.9	2,111.4	2,458.1
Crude oil, excluding natural gas liquids (million b/d)	21.0	45.7	53.0	59.5	52.6	53.7	52.9	55.7	55.1
Natural gas (trillion cubic feet)	15.8	37.0	45.0	54.0	55.0	59.9	62.1	63.4	68.2
Hard coal (million metric tons)	1,985.0 ^b	2,141.0	2,361.0	2,728.0	2,831.0	2,967.0	3,097.0	3,195.0	3,215.0
Brown coal and lignite (million metric tons)	640.0	794.0	869.0	1,005.0	1,130.0	1,186.0	1,240.0	1,261.0	1,230.0
Electricity (billion kilowatt-hours)	2,348.0	4,953.0	6,519.0	8,247.0	8,824.0	9,310.0	9,712.0	9,962.0	10,060.0
Iron ore (million metric tons)	522.0	769.0	892.0	896.0	800.0	864.0	881.0	890.0	917.0
Bauxite (thousand metric tons)	27.6	57.8	75.1	88.8	77.4	94.6	89.9	90.4	91.0
Pig iron (million metric tons)	259.0	431.0	468.0	510.0	466.0	482.0	490.0	481.0	500.0
Crude steel (million metric tons)	346.0	594.0	651.0	714.0	644.0	688.0	698.0	688.0	715.0
Refined copper (thousand metric tons)	NA	7,543.0	8,344.0	8,916.0	9,340.0	9,899.0	9,860.0	9,390.0	9,652.0
Primary aluminum (thousand metric tons)	4.5	9.7	12.0	15.4	14.8	16.5	16.1	16.1	16.6
Smelter lead (thousand metric tons)	2,313.0	3,292.0	3,369.0	3,205.0	3,910.0	3,709.0	3,985.0	3,696.0	3,384.0
Refined zinc (thousand metric tons)	3,025.0	4,827.0	5,460.0	6,057.0	6,175.0	6,362.0	6,360.0	6,083.0	6,401.0
Primary tin (metric tons)	192.0	227.0	226.0	248.0	210.0	219.0	217.0	194.0	200.0
Mineral fertilizer ^c (thousand metric tons)	NA	66.3	93.3	119.0	119.1	130.7	139.2	135.3	141.0
Nitrogen fertilizer ^c (thousand metric tons of N)	NA	30.2	42.5	59.7	63.4	69.0	74.7	73.3	75.6
Phosphate fertilizer ^c (thousand metric tons of P ₂ O ₅)	NA	19.2	27.1	33.4	31.3	33.8	35.5	33.5	37.3
Potassium fertilizer ^c (thousand metric tons of K ₂ O)	NA	16.9	23.7	25.9	24.4	27.8	28.9	28.4	28.1
Synthetic fibers (thousand metric tons)	700.0	4,870.0	7,483.0	10,175.0	10,719.0	11,489.0	12,056.0	11,423.0	10,880.0
Automobiles (thousand units)	12,800.0	22,500.0	25,220.0	28,997.0	29,686.0	30,413.0	32,310.0	32,520.0	32,159.0
Cement (million metric tons)	NA	585.0	720.0	867.0	892.0	891.0	912.0	900.0	906.0
Grain (million metric tons)	929.0	1,220.0	1,390.0	1,580.0	1,600.0	1,763.0	1,800.0	1,816.0	1,743.0
Wheat (million metric tons)	240.0	319.0	360.0	446.0	495.0	516.0	506.0	536.0	515.0
Coarse grain (million metric tons)	414.0	540.0	621.0	693.0	657.0	783.0	824.0	810.0	775.0
Rice (thousand metric tons)	162.0	312.0	356.0	396.0	449.0	467.0	473.0	474.0	458.0
Potatoes (million metric tons)	285.0	312.0	285.0	264.0	315.0	312.0	282.0	292.0	285.0
Sugar (million metric tons)	61.4	76.7	81.7	87.7	10.1	10.5	9.9	10.3	10.4
Coffee (thousand metric tons)	NA	3,566.0	4,393.0	4,810.0	5,574.0	5,113.0	5,875.0	5,101.0	6,200.0

Table 1 (continued)
Selected World Statistics^a

	1960	1970	1975	1980	1983	1984	1985	1986	1987
Fish catch (<i>thousand metric tons</i>)	40.2	65.6	66.0	72.0	76.8	82.8	NA	NA	NA
Cattle (<i>million head</i>)	901.0	1,096.0	1,202.0	1,205.0	1,260.0	1,257.0	1,268.0	1,268.0	1,280.0
Hogs (<i>million head</i>)	519.0	594.0	655.0	793.0	772.0	793.0	795.0	821.0	833.0
Meat (<i>million metric tons</i>)	65.4	10.2	11.7	13.8	13.7	14.1	14.7	15.1	15.6
Milk (<i>million metric tons</i>)	315.0	362.0	392.0	428.0	452.0	455.0	462.0	469.0	467.0
Wool (<i>thousand metric tons</i>)	2,450.0	2,840.0	2,722.0	2,773.0	2,874.0	2,874.0	2,989.0	2,990.0	NA
Ginned cotton (<i>thousand metric tons</i>)	10.4	11.8	11.7	14.0	14.7	19.0	17.4	15.5	17.5
Tobacco (<i>thousand metric tons</i>)	NA	4,675.0	5,445.0	5,312.0	5,947.0	6,463.0	7,018.0	5,916.0	NA
Railroad freight (<i>billion ton-kilometers</i>)	3,338.0	5,020.0	5,958.0	6,766.0	6,855.0	7,138.0	7,285.0	NA	NA
Fishing fleet inventory (<i>number</i>)	2,635.0	9,404.0	14,289.0	18,667.0	20,214.0	20,694.0	22,103.0	21,839.0	NA
(<i>thousand GRT</i>)	774.0	3,901.0	6,168.0	8,079.0	8,956.0	9,228.0	12,985.0	13,375.0	NA
Merchant fleet inventory (<i>number</i>)	2,243.0	9,322.0	15,645.0	22,699.0	26,413.0	27,712.0	28,905.0	29,782.0	30,398.0
(<i>million DWT</i>)	16.8	108.3	306.3	473.8	551.9	579.5	605.6	630.3	646.7
Tanker fleet inventory (<i>number</i>)	396.0	1,653.0	2,994.0	4,239.0	4,901.0	5,081.0	5,265.0	5,427.0	5,559.0
(<i>million DWT</i>)	5.3	32.0	136.3	213.7	234.7	238.9	243.9	251.0	256.5

^a For more detailed descriptions and definitions, refer to the respective table.

^b Data are for 1986.

^c Fertilizer year ending 30 June of the stated year.

Table 2
Economic Profile: Developed Countries, 1987

	United States	Canada	Japan	European Community					
				Total	France	Italy	Netherlands	United Kingdom	West Germany
Aggregative data									
Population									
Million persons at midyear	243.8	25.9	122.0	323.6	55.6	57.4	14.6	56.8	61.0
Percent change	.9	.9	.5	.2	.4	.2	.5	.2	NEGL
Gross domestic product									
Billion 1987 US ^a	4,436.1	442.5	1,607.7	3,782.0	710.2	693.2	179.4	696.4	814.7
Percent real growth	2.9	3.9	4.2	2.9	1.9	3.1	1.3	3.6	1.7
Per capita (1987 US \$)	18,200.0	17,080.0	13,180.0	11,690.0	12,780.0	12,080.0	12,290.0	12,260.0	13,360.0
Industrial production (percent growth)	3.8	2.6	3.4	NA	2.1	3.9	.9	3.1	.1
Industry									
Primary energy (million b/d oil equivalent)	32.5	6.3	1.6	13.2	2.0	.6	1.4	5.0	2.7
Electricity (billion kilowatt-hours)	2,747.0	474.0	694.0	1,500.0 ^b	352.6	201.0	67.8	302.0	410.0
Crude Steel (million metric tons)	81.0	14.7	98.5	127.0	17.7	22.8	5.1	17.2	36.3
Cement (million metric tons)	71.0	11.9	71.6	155.2	25.3	35.8	2.9	14.1	25.3
Trade									
Exports, f.o.b. (billion US \$)	250.4	98.1	231.2	953.5	148.5	112.0	93.1	131.2	294.2
Imports, c.i.f. (billion US \$)	424.1	92.7	150.8	955.1	158.5	125.3	91.4	154.5	228.3
Trade balance (billion US \$)	-173.7	5.4	80.4	-1.6	-9.9	-13.3	1.7	-23.2	65.8
Living standard indicators									
Grain production (kilograms per capita)	1,150.0	1,980.0	130.0	480.0	930.0	310.0	50.0	360.0	380.0
Automobile registrations (units per thousand persons)	570.0	443.0 ^b	235.0 ^b	347.0 ^b	388.0 ^b	383.0 ^b	339.0 ^b	338.0 ^b	446.0 ^b
Energy consumption (barrels oil equivalent per capita) ^b	55.0	67.0	23.0	24.0	27.0	19.0	37.0	27.0	33.0
Consumer prices (percent growth in 1987)	3.7	4.4	.1	NA	3.3	4.6	-.5	4.1	.3
Life expectancy (years)	75.0	77.0	78.0	NA	76.0	77.0	77.0	75.0	76.0

^a Data were converted at US purchasing power equivalents.

^b Data are for 1986.

Table 3
Economic Profile: Communist Countries, 1987

	USSR	Eastern Europe						China	Yugo- slavia	
		Total	Bulgaria	Czecho- slovakia	East Germany	Hungary	Poland	Romania		
Aggregative data										
Population										
Million persons at midyear	284.0	112.4	9.0	15.6	16.6	10.6	37.7	22.9	1,074.0	23.4
Percent change	.9	.3	.1	.3	-.1	-.2	.7	.4	1.4	.7
Gross domestic product										
Billion 1987 US ^a	2,375.0	906.4	64.8	151.4	197.1	87.6	259.5	146.0	293.5	147.6
Percent real growth	.5	.6	.7	1.3	2.2	1.2	-2.5	3.1	9.4	-.7
Industrial production (<i>percent growth</i>)	1.5	1.9	1.2	1.3	3.2	2.9	2.1	3.6	14.6	NEGL
Industry										
Primary energy (<i>million b/d oil equivalent</i>)	32.6	6.7	.2	1.0	1.5	.3	2.5	1.2	12.2	.7
Electricity (<i>billion kilowatt-hours</i>)	1,665.0	493.1	43.5	85.8	114.2	29.7	145.8	74.1	496.0	80.8
Crude Steel (<i>million metric tons</i>)	162.0	62.2	2.9	15.4	8.2	3.6	17.1	15.0	56.0	4.3
Cement (<i>million metric tons</i>)	137.0	48.2	5.6	10.4	12.0	4.1	16.1	NA	176.4	9.0
Trade										
Exports, f.o.b. (<i>billion US \$</i>)	107.7	127.5 ^b	16.9	23.5	30.8	17.9	26.0	12.5 ^b	44.9	10.2
Imports, c.i.f. (<i>billion US \$</i>)	96.0	124.8 ^b	17.1	23.9	31.0	18.0	24.3	10.6 ^b	40.2	11.9
Trade balance (<i>billion US \$</i>)	11.7	2.7 ^b	-.1	-.4	-.3	-.1	1.6	1.9 ^b	4.7	-1.6
Living standard indicators										
Meat production (<i>kilograms per capita</i>)	65.0	40.0	97.0	120.0	NA	168.0	NA	NA	18.0	60.0
Automobile registrations (<i>units per thousand persons</i>)	42.0 ^b	142.0 ^b	120.0 ^b	173.0 ^b	209.0 ^b	145.0 ^b	105.0 ^b	11.0 ^c	NEGL	125.0 ^b
Energy consumption (<i>barrels oil equivalent per capita</i>) ^b	34.0 ^b	29.0 ^b	29.0 ^b	36.0 ^b	44.0 ^b	22.0 ^b	24.0 ^b	23.0 ^b	4.0 ^b	15.0 ^d
Life expectancy (<i>years</i>)	69.0	NA	71.0	71.0	73.0	69.0	70.0	70.0	68.0	71.0

^a Data were converted at US purchasing power equivalents.

^b Data are for 1986.

^c Latest available data.

^d Data are for 1985.

Table 4
Economic Profile: Selected Newly Industrializing Countries, 1987

	Argentina ^a	Brazil	China(Taiwan)	Hong Kong	Mexico	Singapore	South Korea
Aggregative data							
Population							
Million persons at midyear	31.1	147.1	19.8	5.6	81.9	2.6	42.2
Percent change	1.3	2.4	1.2	1.1	2.0	1.1	1.4
Gross domestic product							
Billion 1987 US \$	80.0	313.0	85.5	46.2	131.2	17.7	118.6
Percent real growth	1.6	2.9	11.1	13.6	1.4	8.8	12.0
Per capita (1987 US \$)	2,570.0	2,130.0	4,320.0	8,250.0	1,600.0	6,810.0	2,810.0
Industry							
Per capita manufacturing (value added in US \$)	610.0 ^b	650.0	990.0 ^c	1,070.0 ^c	380.0 ^b	2,180.0	660.0
Electricity production (billion kilowatt-hours)	48.1	183.0	59.0 ^b	21.0	94.3	11.8	79.7
Agriculture							
Per capita agriculture (value added in US \$)	370.0	180.0	160.0 ^c	40.0 ^c	160.0 ^d	40.0	270.0
Grain production (million metric tons)	23.0	43.1	2.1 ^d	NEGL	25.0	NEGL	6.2
Trade							
Exports, f.o.b. (million US \$)	6,196.0	26,213.0	53,538.0	48,466.0	20,887.0	28,616.0	47,281.0
Imports, c.i.f. (million US \$)	5,704.0	15,052.0	34,506.0	48,455.0	12,731.0	32,486.0	41,020.0
Living standard indicators							
Educational expenditures as a share of GNP (percent) ^e	2.7	2.8	4.1	2.7	5.2	2.5	3.3
Literacy rate (percent) ^e	93.0	79.0	90.0	90.0	83.0	84.0	93.0
Life expectancy at birth (years) ^e	70.0	67.0	73.0	78.0	69.0	73.0	69.0
Population per square kilometer ^e	11.0	17.0	535.0	5,380.0	42.0	4,480.0	430.0

^a Argentina is included because its economy closely resembles the NIC economies.

^b Data are for 1986.

^c Data are for 1980.

^d Data are for 1985.

^e Latest available data.

Table 5
Economic Profile: Selected Less Developed Countries, 1987

	Africa		Asia			Latin America			Middle East and South Asia					
	Ivory Coast	Zaire	Zimbabwe	Malaysia	Philippines	Thailand	Chile	Colombia	Peru	Bangladesh	Egypt	India	Pakistan	Syria
Aggregative data														
Population														
Million persons at midyear	10.8	32.3	9.4	16.1	61.5	53.6	12.5	30.7	20.7	107.1	51.9	800.3	104.6	11.1
Percent increase	3.8	2.9	3.6	2.1	2.7	1.8	1.5	2.1	2.5	2.7	2.7	2.1	2.7	3.7
Gross domestic product														
Billion 1987 US \$	7.8	4.7	5.3	30.1	33.6	47.0	18.4	34.4	22.2	16.5	25.6	230.8	33.0	17.3
Percent real growth	-2.3	1.8	2.0	4.7	5.1	6.3	5.7	5.5	7.0	4.5	.5	1.2	5.2	.0
Per capita (1987 US \$)	720.0	150.0	560.0	1,870.0	550.0	880.0	1,480.0	1,120.0	1,070.0	150.0	490.0	290.0	320.0	1,560.0
Industry														
Per capita manufacturing (value added in US \$) ^a	80.0	20.0	170.0	400.0	150.0	240.0	NA	220.0	310.0	10.0	70.0	40.0	60.0	180.0
Electricity production (billion kilowatt-hours)	2.2 ^b	5.3	6.1	13.6	21.2	27.6	15.6	29.6 ^b	13.7 ^b	6.0	40.6 ^b	197.0	29.2	8.0 ^b
Agriculture														
Per capita agriculture (value added in US \$) ^a	160.0	40.0	65.0	380.0	150.0	150.0	130.0	220.0	80.0	50.0	90.0	80.0	80.0	310.0
Grain production (million metric tons)	1.0 ^b	1.1 ^b	1.1	1.6	9.8	20.6	2.5 ^b	3.5	2.3	22.4	9.4	140.7	18.2	2.2
International trade														
Exports, f.o.b. (million US \$)	3,379.0	1,824.0	1,325.0	17,919.0	5,649.0	11,667.0	5,091.0	5,276.0	2,547.0	880.0 ^b	2,934.0 ^b	11,343.0	4,172.0	1,325.0 ^b
Imports, c.i.f. (million US \$)	1,980.0	1,411.0	1,010.0	12,700.0	6,952.0	12,964.0	3,793.0	4,232.0	3,297.0	2,488.0 ^b	11,502.0 ^b	16,596.0	5,822.0	2,703.0 ^b
International trade														
Exports, f.o.b. (million US \$)	3,379.0	1,824.0	1,325.0	17,919.0	5,649.0	11,667.0	5,091.0	5,276.0	2,547.0	880.0 ^b	2,934.0 ^b	11,343.0	4,172.0	1,325.0 ^b
Imports, c.i.f. (million US \$)	1,980.0	1,411.0	1,010.0	12,700.0	6,952.0	12,964.0	3,793.0	4,232.0	3,297.0	2,488.0 ^b	11,502.0 ^b	16,596.0	5,822.0	2,703.0 ^b
Living standard indicators														
Literacy rate (percent) ^a	25.0	46.0	74.0	72.0	76.0	82.0	90.0	88.0	80.0	29.0	40.0	36.0	31.0	47.0
Life expectancy years)	52.0	52.0	60.0	67.0	65.0	64.0	71.0	65.0	61.0	51.0	59.0	56.0	54.0	67.0

^a Latest available data.

^b Data are for 1986.

Table 6
Economic Profile: Organization of Petroleum
Exporting Countries, 1987

	Algeria	Ecuador	Gabon	Indonesia	Iran	Iraq	Kuwait	Libya	Nigeria	Qatar	Saudi Arabia	United Arab Emirates	Venezuela
Aggregative data													
Population													
Million persons at midyear	23.5	10.0	1.0	180.4	50.3	17.0	1.9	3.8	108.6	0.3	14.8	1.8	18.3
Percent change	3.1	2.8	1.2	2.0	3.3	3.3	4.1	3.1	3.0	4.0	4.6	7.5	2.7
Gross domestic product													
Billion 1987 US \$	57.6 ^a	9.4 ^a	3.4 ^a	69.0 ^a	91.6	31.0	16.0	20.0	26.2 ^a	7.0 ^a	80.0	23.0	45.4 ^a
Percent real growth	1.0	-3.1	14.0	3.7	2.0	11.0	2.0	.0	-2.5	.0	-2.0	-2.0	3.2
Per capita (1987 US \$)	2,510.0 ^a	1,120.0 ^a	3,300.0 ^a	430.0 ^a	1,660.0	2,320.0	12,780.0 ^a	5,260.0	590.0 ^a	23,330.0 ^a	6,030.0	14,700.0	3,030.0 ^a
Industry													
Crude oil production (thousand b/d)	635.0	167.0	156.0	1,191.0	2,451.0	2,076.0	1,230.0	972.0	1,286.0	308.0	4,262.0	1,454.0	1,572.0
Share of oil in GNP (percent)	25.0 ^b	10.0	50.0 ^b	9.0	10.0	44.0	49.0 ^a	45.0 ^c	25.0 ^b	48.0 ^a	35.0 ^a	45.0 ^a	16.0
Trade													
Exports f.o.b. (million US \$)	9,382.0	2,021.0	1,951.0 ^b	14,824.0 ^a	13,435.0 ^b	9,785.0 ^c	7,943.0	6,831.0	12,548.0 ^b	2,326.0 ^a	20,900.0	14,036.0 ^b	10,487.0
Government oil revenues (billion US \$)	6.0	1.0	1.0	6.0	11.0	11.0	5.0	5.0	6.0	2.0	12.0	5.0	4.0
Oil exports (thousand b/d)	710.0	.0	.0	860.0	1,780.0	1,820.0	1,530.0	1,030.0	1,130.0	.0	3,510.0	1,490.0	1,390.0
Imports c.i.f. (million US \$)	6,233.0	2,052.0	951.0 ^a	12,480.0	10,359.0 ^a	9,302.0 ^a	6,600.0	3,650.0	8,877.0 ^b	1,010.0 ^a	17,600.0	7,000.0	8,430.0
United States (million US \$)	427.0	615.0	91.0 ^b	1,154.0 ^a	34.0 ^a	527.0 ^a	504.0	.0	676.0 ^b	69.0 ^a	3,374.0	619.0	3,600.0
European Community (million US \$)	2,445.0 ^b	464.0 ^d	576.0 ^b	2,285.0	3,644.0 ^a	2,730.0 ^a	1,493.0	3,087.0 ^b	3,293.0 ^b	472.0 ^a	8,183.0	1,924.0	1,186.0 ^c
Japan (million US \$)	NEGL	118.0 ^d	45.0 ^b	3,647.0	1,154.0 ^a	1,223.0 ^a	865.0	255.0 ^b	344.0 ^b	169.0 ^a	3,270.0	1,128.0	350.0 ^c
Living standard indicators													
Literacy rate (percent) ^e	52.0	86.0	12.0	72.0	48.0	50.0	64.0	55.0	38.0	34.0	35.0	68.0	84.0
Life expectancy (years) ^e	63.0	65.0	51.0	58.0	57.0	62.0	72.0	65.0	47.0	69.0	63.0	69.0	69.0

^a Data are for 1986.

^b Data are for 1985.

^c Data are for 1983.

^d Data are for 1984.

^e Latest available data.

Declassified and Approved For Release 2012/09/07 : CIA-RDP89T01437R000100140006-0
Aggregative Trends

Table 7
Estimated Real Gross National Product*Billion 1987 US \$*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
World	6,200.0	10,100.0	12,100.0	14,300.0	15,000.0	15,700.0	16,100.0	16,600.0	17,100.0
Developed countries ^a	4,230.0	6,840.0	7,940.0	9,360.0	9,820.0	10,300.0	10,600.0	10,900.0	11,300.0
United States	1,881.6	2,739.5	3,063.9	3,604.6	3,792.0	4,058.7	4,184.9	4,311.1	4,436.1
Australia	72.2	120.6	146.8	167.2	173.6	186.3	196.0	198.8	202.2
Canada	139.1	230.0	296.5	359.4	372.3	395.7	412.6	425.9	442.5
Japan	291.4	792.0	977.5	1,245.3	1,372.3	1,440.8	1,505.5	1,542.9	1,607.7
Sweden	53.5	84.2	95.6	102.2	105.2	109.3	111.7	113.0	116.5
Switzerland	51.9	82.3	85.8	93.2	94.2	95.9	99.8	102.4	104.9
European Community	1,549.9	2,483.1	2,875.3	3,329.9	3,411.2	3,491.7	3,583.0	3,676.2	3,782.0
Belgium	48.5	78.4	92.8	107.8	108.2	110.4	111.9	114.5	116.5
France	257.9	442.9	539.2	633.6	662.1	671.0	682.4	696.9	710.2
Italy	254.9	444.0	500.1	604.0	615.5	637.2	654.8	672.3	693.2
Netherlands	75.6	124.0	145.1	165.1	163.9	169.1	173.0	177.1	179.4
Spain	98.8	200.5	262.1	288.9	297.0	302.5	308.9	320.1	344.5
United Kingdom	373.7	494.9	549.9	597.0	617.3	629.9	653.7	672.2	696.4
West Germany	362.0	562.5	622.7	734.3	741.6	762.2	782.0	801.1	814.7
Less developed countries ^b	469.0	884.0	1,240.0	1,620.0	1,690.0	1,760.0	1,820.0	1,890.0	1,950.0
Argentina	51.2	68.1	76.5	82.8	76.0	78.2	74.5	78.7	80.0
Brazil	55.8	113.9	186.1	258.4	248.5	259.6	281.2	304.2	313.0
China (Taiwan)	9.2	21.8	31.9	52.7	61.1	65.2	67.9	77.0	85.5
Egypt	6.4	9.2	12.0	17.4	23.0	23.3	24.1	25.5	25.6
India	85.6	124.9	144.4	171.6	202.3	209.6	217.2	228.0	230.8
Mexico	33.4	65.7	90.2	124.4	126.4	130.8	134.4	129.4	131.2
Pakistan	9.9	13.6	16.1	21.5	25.9	27.0	29.3	31.4	33.0
Philippines	10.6	17.8	23.8	32.1	34.7	33.1	31.9	32.0	33.6
South Korea	12.4	30.5	46.8	67.1	82.8	89.3	94.2	105.9	118.6
Thailand	7.9	16.8	22.9	32.9	38.6	40.9	42.6	44.2	47.0
OPEC									
Indonesia	17.2	24.8	36.6	53.5	61.6	65.3	66.5	66.5	69.0 ^c
Nigeria	12.0	21.1	28.4	33.3	29.5	27.9	28.6	26.9	26.2 ^c
Saudi Arabia	16.9	34.6	63.0	98.0	96.0	95.3	90.7	81.6	80.0
Venezuela	17.3	31.2	39.5	46.5	44.0	43.4	43.5	44.5	45.4 ^c

Table 7 (continued)
Estimated Real Gross National Product

Billion 1987 US \$

	1960	1970	1975	1980	1983	1984	1985	1986	1987
Communist countries	1,490.0	2,410.0	2,930.0	3,330.0	3,520.0	3,610.0	3,670.0	3,800.0	3,840.0
USSR and Eastern Europe	1,357.5	2,166.9	2,613.7	2,935.1	3,077.7	3,133.4	3,162.0	3,262.0	3,281.4
USSR ^d	951.0	1,574.0	1,862.0	2,110.0	2,239.0	2,265.0	2,287.0	2,361.0	2,375.0
Eastern Europe ^e	406.5	592.9	751.7	825.1	838.7	868.4	875.0	901.0	906.4
Bulgaria	25.6	44.8	56.3	59.1	61.6	63.3	61.3	64.4	64.8
Czechoslovakia	78.7	104.8	123.6	137.7	141.8	145.2	146.3	149.4	151.4
East Germany	96.5	130.4	154.5	173.3	178.6	184.7	190.0	192.9	197.1
Hungary	44.9	63.2	74.3	82.1	84.8	87.0	84.8	86.6	87.6
Poland	116.9	177.1	242.5	251.0	247.2	256.1	258.8	266.1	259.5
Romania	43.9	72.6	100.5	121.9	124.7	132.1	133.8	141.6	146.0
Other									
China ^f	NA	92.7	121.0	162.2	201.1	225.2	252.2	271.9	293.5
Yugoslavia ^e	NA	82.6	103.3	135.0	139.6	142.5	143.2	148.6	147.6

^a Data were converted to US dollars by the use of purchasing power parities used by the OECD.

^b Data were converted from national currencies by using the 1987 Par Rate/Market Rate factors.

^c Data are for 1986.

^d Data for the USSR were constructed as follows:

- Soviet GNP was estimated in 1982 rubles using the methodology described in Table 32.
- The ruble estimates were multiplied by the geometric mean of two dollar-ruble ratios—one weighted with US price weights, the other with Soviet weights. For a discussion of this procedure, see "US and USSR: Comparisons

of GNP," published in *Soviet Economy in a Time of Change*, Joint Economic Committee, Congress of the United States, 10 October 1979, pp. 369-401.

- The resulting GNP estimates in 1982 US dollars were converted to a 1987 price base using the US GNP implicit price deflator.

^e GNP estimates for Hungary, Poland, Romania, and Yugoslavia are based on benchmark figures for 1975, in 1975 dollars in Kravis, Heston, and Summers, *World Product and Income: International Comparisons of Real Gross Product*, Baltimore: Johns Hopkins University Press, 1982. GNP

indexes in constant domestic currencies derived from official data were combined with the 1975 benchmarks to yield time series in 1975 dollars. The US GNP deflator was then applied to the series to convert 1975 dollars to 1987 dollars. For Bulgaria, Czechoslovakia, and East Germany, 1970 benchmarks were shifted to 1975 in proportion to the geometric mean of the benchmark shifts for Hungary, Poland, Romania, and Yugoslavia. The 1970 benchmarks were taken from *UN Economic Bulletin for Europe*, vol 31, no. 2, 1980.

^f Official Chinese statistics.

Table 8
Gross National Product, by End Use,
in the US and the USSR, 1987^a

	Billion 1982 Rubles			Billion 1982 US \$			Geometric Mean of the Comparisons in Dollars and Rubles USSR as a Percent of US
	USSR ^b	US	USSR as a Percent of US	USSR	US	USSR as a Percent of US	
GNP	766	1,857	41	2,608	3,797	69	53
Of which:							
Consumption	408	1,536	27	1,253	2,637	48	36
New fixed investment	217	233	93	928	776	120	106

^a The preferred procedure for making international economic comparisons is to convert each country's GNP to the currency of the other. Two comparisons can then be made, one in rubles and one in dollars. The two comparisons will yield different answers. This phenomenon is commonly known as the "index number problem," and it results from differences in the relative price and quantity structures found in each country. Goods produced in relatively large quantities in either country tend to sell at relatively low prices in the country, and vice versa. Soviet GNP is, therefore, a large share of US GNP when comparisons are made in dollars since dollars place a greater weight than ruble prices do on investment and defense goods, which account for larger shares of output in the Soviet Union than in the United States.

The important point about index numbers is that valuations in either rubles or dollars are equally correct. When a single comparison of US and Soviet GNP is required, economists by convention often use the geometric mean of the ruble and dollar comparisons as a reasonable compromise that falls between the two.

The geometric mean comparison is presented here, although the reader is cautioned that it is used for its

presentational convenience and does not, strictly speaking represent a more valid result than that presented in either currency.

The estimate of Soviet GNP in dollars presented here is different from that given in Table 7, which uses the geometric mean of the comparisons for consistency with the other data in that table. The approach used in this table, however, is theoretically preferable.

^b The above Soviet GNP data in established prices should not be used in conjunction with Soviet foreign trade data appearing in Tables 138-140. These latter tables use official foreign exchange rates to derive dollar values for trade; we have yet to estimate the value of Soviet foreign trade in terms of actual purchasing power, which would allow for an estimate of the share of foreign trade in Soviet national income.

The magnitudes for the Soviet end-use components were calculated to measure value of output compared with the United States but not the cost in resources. The share of total economic resources devoted to particular end use (such

as defense) or the share of total output originating in an individual sector (for example, agriculture or industry) in the USSR should be measured in internal ruble prices and costs.

The identified end uses of GNP are defined as follows:

- (1) Consumption includes personal expenditures for goods and services for all purposes and noninvestment outlays by government for goods and services for health and education.
- (2) New fixed investment is defined as the sum of expenditures for gross private domestic investment net of inventories; for public construction other than that for military facilities; and for equipment purchased by the government except that for defense. Since part of Soviet capital repair is considered new investment in the Western sense, a portion of Soviet expenditures on capital repair is included in Soviet new fixed investment.

Other uses of GNP include defense, space, research and development, inventory change, administration, net exports, and a statistical discrepancy. The total value for these expenditures cannot be derived for the USSR by subtraction, however.

Table 9
Real Gross National Product Growth

Percent

	Average Annual Rate of Growth								
	1961-65	1966-70	1971-75	1976-80	1981-85	1984	1985	1986	1987
OECD^a	5.3	4.5	3.0	3.4	2.6	4.9	3.3	2.8	3.1
United States	4.8	2.8	2.3	3.3	3.0	7.0	3.1	3.0	2.9
Australia	4.9	5.6	4.0	2.6	3.2	7.3	5.2	1.5	1.7
Canada	5.7	4.6	5.2	3.9	2.8	6.3	4.3	3.2	3.9
Japan	10.1	11.0	4.3	5.0	3.9	5.0	4.5	2.5	4.2
Sweden	5.2	4.1	2.6	1.3	1.8	4.0	2.1	1.2	3.1
Switzerland	5.2	4.2	.8	1.7	1.4	1.8	4.1	2.6	2.5
European Community	5.0	4.6	3.0	3.0	1.5	2.4	2.6	2.6	2.9
Belgium	5.0	4.8	3.4	3.0	.7	2.1	1.4	2.3	1.7
France	5.7	5.4	4.0	3.3	1.5	1.3	1.7	2.1	1.9
Italy	5.2	6.2	2.4	3.8	1.6	3.5	2.7	2.7	3.1
Netherlands	4.8	5.3	3.2	2.6	.9	3.1	2.3	2.4	1.3
Spain	8.4	6.2	5.5	2.0	1.3	1.8	2.1	3.6	7.6
United Kingdom	3.2	2.5	2.1	1.7	1.8	2.0	3.8	2.8	3.6
West Germany	4.9	4.2	2.1	3.4	1.3	2.8	2.6	2.4	1.7
Less developed countries	6.3	6.7	7.0	5.5	2.5	4.1	3.1	4.1	3.1
Communist countries									
USSR and Eastern Europe									
USSR ^b	4.9	5.1	3.1	2.2	1.8	1.4	.7	3.9	.5
Eastern Europe	3.9	3.8	4.9	1.9	1.2	3.6	.7	3.0	.6
Bulgaria	6.4	5.1	4.7	1.0	.7	3.2	-3.5	5.0	.7
Czechoslovakia	2.4	3.4	3.4	2.2	1.2	2.4	.8	2.1	1.3
East Germany	3.0	3.1	3.5	2.0	1.9	3.5	2.8	1.5	2.2
Hungary	3.9	3.0	3.3	2.0	.6	2.6	-2.6	2.1	1.2
Poland	4.5	4.0	6.5	.7	.6	3.6	1.0	2.8	-2.5
Romania	5.4	4.9	6.7	3.9	1.9	6.0	1.3	5.8	3.1
Other									
China	NA	NA	5.5	6.1	9.2	12.0	12.0	7.8	9.4
North Korea	9.8	5.5	10.4	4.1	3.7	2.7	NA	NA	NA
Yugoslavia	NA	NA	4.6	5.5	1.2	2.1	.5	3.7	-.7

^a GDP growth for the OECD countries.^b At factor cost.

Table 10
Real Gross National Product Per Capita Growth

Percent

	Average Annual Rate of Growth					1984	1985	1986	1987
	1961-65	1966-70	1971-75	1976-80	1981-85				
OECD^a									
United States	3.3	1.7	1.2	2.2	2.0	6.0	2.1	2.0	1.9
Australia	2.8	3.6	2.4	1.5	1.8	6.1	3.9	.0	.3
Canada	3.7	2.9	3.9	2.7	1.7	5.3	3.3	2.0	2.7
Japan	9.0	9.7	2.8	4.0	3.2	4.3	3.9	1.9	3.6
Sweden	4.5	3.3	2.2	1.0	1.7	3.9	2.0	1.0	2.9
Switzerland	3.1	3.1	.4	1.7	.9	1.4	3.6	2.2	2.1
European Community	4.0	4.0	2.4	2.6	1.2	2.2	2.4	2.3	2.6
Belgium	4.3	4.4	3.1	2.9	.7	2.1	1.3	2.3	1.7
France	4.4	4.5	3.2	2.8	1.0	.9	1.3	1.8	1.5
Italy	4.5	5.5	1.7	3.5	1.7	3.2	2.5	2.5	2.9
Netherlands	3.4	4.1	2.2	1.9	.5	2.7	1.9	1.9	.8
United Kingdom	2.4	2.0	1.9	1.6	1.7	1.8	3.6	2.6	3.3
West Germany	3.8	3.4	1.7	3.4	1.4	3.2	2.9	2.4	1.7
Communist countries									
USSR and Eastern Europe									
USSR	3.4	4.0	2.1	1.4	.9	.5	-.2	2.9	-.5
Eastern Europe	3.4	3.3	3.9	1.5	1.0	3.2	.0	2.7	.9
Bulgaria	5.5	4.4	4.1	.7	.5	3.0	-3.6	4.8	.6
Czechoslovakia	1.6	3.2	2.7	1.5	.9	2.1	.5	1.8	1.1
East Germany	3.2	3.1	3.7	2.5	2.0	3.6	3.0	1.6	2.3
Hungary	3.6	2.6	2.9	1.7	.8	2.8	-2.4	2.3	1.4
Poland	3.3	3.2	5.6	9.9	-.3	2.7	.3	2.1	-3.1
Romania	4.7	3.6	5.7	3.0	1.4	5.6	.8	5.3	2.7
Other									
China	NA	5.5	3.3	4.7	9.1	10.8	10.8	6.3	7.9
North Korea	6.6	2.7	7.3	3.7	1.7	NEGL	NA	NA	NA
Yugoslavia	NA	NA	3.6	4.6	.5	1.4	-.2	3.1	-1.3

^a GDP growth for the OECD countries.

Table 11
Agriculture Production Index

1980=100

	1965	1970	1975	1980	1983	1984	1985	1986	1987
Developed countries	75	82	92	100	100	106	108	109	108
United States	79	81	91	100	92	108	113	107	104
Canada	83	78	89	100	109	108	112	121	117
European Community									
France	77	81	89	100	101	110	110	108	110
Italy	74	83	93	100	108	100	102	101	105
United Kingdom	75	81	87	100	105	115	109	112	107
West Germany	77	90	93	100	106	114	108	115	109
Less developed countries	64	76	87	100	112	117	120	122	124
Africa	77	88	95	100	103	104	114	119	119
Far East	61	75	86	100	113	117	121	122	119
Latin America	67	76	85	100	105	109	113	110	116
Middle East	62	72	88	100	108	106	112	117	118
Communist countries									
USSR and Eastern Europe									
USSR ^a	83	99	96	100	113	113	110	120	117
Eastern Europe ^b	72	79	94	100	100	107	106	110	109
Bulgaria	78	85	94	100	104	109	100	106	102
Czechoslovakia	66	80	91	100	106	109	108	111	113
East Germany	75	79	94	100	99	105	109	110	110
Hungary	63	69	86	100	106	110	102	105	103
Poland	81	88	104	100	93	102	104	108	102
Romania	58	64	85	100	101	113	109	121	123
Other									
China ^c	53	64	78	100	129	148	NA	NA	NA
North Korea ^d	69	76	118	100	140	144	149	137	NA
Yugoslavia	65	75	87	100	107	107	101	110	106

^a Estimates based on the value of crop production plus the value of livestock output and changes in livestock numbers, but minus feed, seed, and waste. Values have been changed from 1970 average realized prices to 1982 average realized prices.

^b Estimates based on the value of crop production plus the value of livestock products, with allowance for changes in livestock numbers, but minus feed (including grain imported for feed), seed, and waste.

^c Index of gross value of agricultural output.

^d Based on official grain claims.

Table 12

1980=100

Index of Industrial Production for Communist Countries

	1960	1970	1975	1980	1983	1984	1985	1986	1987 ^a
USSR and Eastern Europe ^b									
USSR									
Official	25	56	80	100	111	116	120	126	NA
Adjusted	36	67	88	100	105	107	109	112	114
Eastern Europe									
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA
Adjusted	37	68	88	100	101	104	105	107	110
Bulgaria									
Official	16	49	75	100	121	133	140	148	157
Adjusted	22	64	85	100	107	110	108	110	112
Czechoslovakia									
Official	32	57	79	100	100	105	109	111	114
Adjusted	46	72	87	100	105	106	109	111	112
East Germany									
Official	32	57	79	100	115	121	128	134	140
Adjusted	47	73	86	100	104	108	111	114	118
Hungary									
Official	32	62	85	100	115	117	116	117	120
Adjusted	44	79	90	100	104	106	107	108	111
Poland									
Official	22	48	79	100	86	91	95	99	102
Adjusted	34	68	97	100	91	93	95	96	98
Romania									
Official	10	35	64	100	112	120	130	140	147
Adjusted	18	52	80	100	104	109	111	116	120
Other									
China									
Official	27	40	63	100	125	146	177	198	NA
Adjusted	24	42	66	100	124	141	167	182	209
North Korea ^c									
Official	7	23	53	100	NA	NA	NA	NA	NA
Adjusted	NA	NA	NA	NA	NA	NA	NA	NA	NA
Yugoslavia									
Official	23	49	72	100	106	111	114	119	119
Adjusted	NA	61	77	100	111	113	116	118	118

^a Preliminary.

^b The official indexes purportedly measure changes in the gross value of industrial production. In general, the gross value of production equals the sum of the value of output of all industrial enterprises. As a result, since both intermediate and final goods are included in the value of output of each enterprise, industrial products are double counted. For example, steel used in producing automobiles is counted in the value of both steel output and automobile output. To the extent

that such double counting increases over time, an upward bias is imparted to the official measure. In addition to possible overstatement in the official indicator from this source, disguised inflation also enters the index through new-product pricing, where minor product improvements result in a new-product price that is substantially higher than can be justified by either improved quality or increased production costs. Because output of these "new" products grows from a small base, their rates of growth will proceed at a higher rate than those of "old" products.

Adjusted indexes of industrial production—parallel to those used by the Federal Reserve Board for measuring US industrial output—are constructed in order to circumvent most of these distortions, that is, price-weighted samples of products form output indexes for various industrial components and these component indexes are combined into an aggregate index for industry by use of 1982 value-added weights.

^c An adjusted index is not available.

Table 13
Index of Industrial Production for Selected Countries ^a

1980=100

	1960	1970	1975	1980	1983	1984	1985	1986	1987 ^b
OECD									
United States	45	72	78	100	101	112	114	115	120
Canada	39	70	85	100	95	104	106	107	110
Japan	19	67	72	100	105	117	121	121	124
European Community									
France	47	75	86	100	97	99	99	101	102
Italy	39	78	84	100	92	95	97	99	103
United Kingdom	72	95	95	100	102	103	109	110	113
West Germany	50	83	84	100	94	98	102	103	103
Communist countries									
USSR and Eastern Europe									
USSR ^c	36	67	88	100	105	107	109	112	114
Eastern Europe	37	68	88	100	101	104	105	107	110
Bulgaria	22	64	85	100	107	110	108	110	112
Czechoslovakia	46	72	87	100	105	106	109	111	112
East Germany	47	73	86	100	104	108	111	114	118
Hungary	44	79	90	100	104	106	107	108	111
Poland	34	68	97	100	91	93	95	96	98
Romania	18	52	80	100	104	109	111	116	120
Other									
China ^d	24	42	66	100	124	141	167	182	209
Yugoslavia	NA	61	77	100	111	113	115	118	118

^a Indexes for the non-Communist countries are value-added weighted indexes of intermediate and final products of industry. Industry includes manufacturing, mining, and, in most countries, public utilities. The indexes for the Communist countries are estimates of CIA (see Table 12 for detailed explanation)—constructed as nearly as possible on the same basis as the indexes for Western countries—or other calculations accepted by CIA. The indexes for the Communist countries include manufacturing, mining, and public utilities.

^b Preliminary.

^c Index of gross values of output for individual commodities and branches are aggregated by 1982 value-added weights. The three sectors covered— materials, machinery, and non-durable consumer goods—constitute 50 percent, 33 percent, and 17 percent, respectively, of the value-added weights for industrial production. This index is as comparable as data will permit with the index of US industrial production of the US Federal Reserve Board.

^d CIA estimates for 1960-75 were computed by applying value-added weights to data for commodity production. The data are fragmentary and uncertain; therefore, the index should be regarded as providing only a tentative indication of the general level and trend in production. The index for 1980-87 follows the trend for reported gross value of industrial output.

Table 14
Defense Expenditures as a Share of Gross National Product

Percent

	1965	1970	1975	1979	1980	1981	1982	1983	1984	1985
OECD ^a										
Australia	4.4	3.3	2.6	2.5	2.5	2.6	2.7	2.9	2.8	2.9
Austria	1.2	1.1	1.1	1.2	1.1	1.1	1.3	1.3	1.3	NA
Belgium	3.1	2.9	3.0	3.3	3.3	3.5	3.4	3.3	3.1	3.0
Canada	3.0	2.4	1.9	1.9	1.9	1.9	2.2	2.1	2.2	2.3
Denmark	2.8	2.3	2.5	2.4	2.5	2.6	2.6	2.5	2.4	2.3
Finland	1.7	1.5	1.4	1.4	1.6	1.5	1.6	1.7	1.5	NA
France	5.2	4.2	3.8	3.9	4.0	4.1	4.1	4.2	4.1	4.1
Greece	3.5	4.7	6.6	6.1	5.5	6.8	6.8	6.3	7.2	7.2
Ireland	1.4	1.1	1.8	1.6	1.7	1.6	1.9	1.9	1.8	1.9
Italy	3.3	2.5	2.5	2.4	2.4	2.5	2.6	2.7	2.7	2.7
Japan	1.0	.8	.9	1.0	.9	.9	1.0	1.0	1.0	1.0
Luxembourg	1.4	.8	.8	.8	.9	1.0	.9	.9	.9	.8
Netherlands	4.0	3.4	3.2	3.2	3.1	3.2	3.2	3.2	3.2	3.1
New Zealand	2.1	2.0	1.7	1.8	2.0	2.2	2.3	2.1	2.0	2.0
Norway	3.8	3.5	3.3	3.2	3.0	3.0	3.1	3.2	2.9	3.2
Portugal	6.0	6.5	5.3	3.5	3.6	3.7	3.6	3.5	3.5	3.3
Spain	2.7	3.1	2.7	1.8	1.9	2.0	2.1	2.2	2.3	NA
Sweden	3.9	3.6	3.3	3.1	3.1	3.2	3.3	3.2	3.0	3.0
Switzerland	2.6	2.1	1.9	2.2	2.1	2.1	2.2	2.2	2.2	2.2
Turkey	5.0	4.2	5.8	4.4	4.4	5.0	5.3	5.0	4.5	4.6
United Kingdom	5.9	4.7	4.9	4.6	5.0	4.8	5.0	5.3	5.3	5.3
United States	7.2	7.6	5.7	4.9	5.3	5.6	6.2	6.4	6.3	6.6
West Germany	4.3	3.3	3.6	3.2	3.3	3.4	3.4	3.4	3.3	3.2
Less developed countries	NA	5.8	6.9	6.1	5.9	6.1	6.5	6.5	6.2	6.0
OPEC	NA	5.6	10.2	8.0	8.0	8.8	9.4	10.0	9.9	9.9
Iran	NA	7.8	17.6	8.2	6.6	6.8	6.7	5.2	7.2	NA
Nigeria	NA	5.9	5.5	2.8	2.7	2.8	2.2	2.1	1.6	1.4
Saudi Arabia	NA	11.9	17.4	18.1	14.4	12.9	15.7	23.4	21.3	24.4

^a Except for the United States, data are from the United States Arms Control and Disarmament Agency, *World Military Expenditures and Arms Transfers*, based on the ratio of military expenditures to GNP at current market prices. Military expenditures are for current and capital expenditures to meet the needs of the armed forces, including expenditures of national defense agencies for military

programs; expenditures for the military components of such mixed activities as atomic energy, space, and research and development; military assistance to foreign countries; and expenditures on paramilitary forces where they contribute substantially to a country's military capabilities.

Table 15
Consumer Price Index

1980=100

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD									
United States	36	47	66	100	121	126	131	133	138
Canada	35	46	65	100	132	137	143	149	155
Japan	24	42	73	100	110	112	114	115	115
European Community									
Belgium	36	49	74	100	125	133	140	142	144
France	27	40	61	100	139	150	158	162	168
Italy	19	27	47	100	159	176	191	203	212
Netherlands	33	50	75	100	116	120	123	123	123
United Kingdom	19	28	51	100	127	134	142	147	152
West Germany	47	61	82	100	115	118	121	121	121
Communist countries									
USSR ^a	80	85	92	100	109	109	112	115	114
Eastern Europe ^b									
Bulgaria	45	62	72	100	109	111	114	117	119
Czechoslovakia	58	79	88	100	105	106	109	109	110
East Germany	79	89	91	100	104	106	109	111	112
Hungary	49	60	73	100	123	133	144	152	167
Poland	39	50	64	100	285	330	386	467	600
Romania	NA	72	83	100	134	135	129	135	135
Other									
China ^c	81	87	88	100	107	110	123	131	143
Yugoslavia ^d	6	18	43	100	261	400	694	1,558	3,373

^a Implicit price index obtained from a comparison of indexes of goods sold in the retail trade network in constant and in current prices. The current price index is based on the values of total retail and collective farm market sales in current prices regularly published in Soviet statistical abstracts. The index in constant 1982 prices is derived from the goods components of the CIA index of total consumption. A more complete explanation of the methodology and a discussion of the relative merits of an "official" or "alternative" price index are contained in "Soviet Economy in a New Perspective," US Congress, Joint Economic Committee, 14 October 1976, p. 631.

^b Calculated differently from that for the USSR; the official index of personal consumption in current prices was deflated by a calculated index of personal consumption in constant

prices. An explanation of the methodology is presented in Thad P. Alton, Gregor Lazarcik, Elizabeth M. Bass, and Wassyl Znayenko, "Official and Alternative Consumer Price Indexes in Eastern Europe: Selected Years, 1960-81," *Occasional Paper No. 73 of the Research Project on National Income in East Central Europe* (NY: L.W. International Financial Research, Inc., 1982).

^c Cost-of-living index for workers and staff members.- Chinese official statistics.

^d Cost-of-living index from official Yugoslav statistics.

Table 16
Agricultural Prices*US \$ per metric ton*

	1960	1965	1970	1975	1980	1983	1984	1985	1986	1987
Beef ^a	NA	882	1,304	1,327	2,760	2,449	2,227	2,130	2,099	2,399
Cocoa ^b	NA	355	655	1,239	2,502	2,030	2,341	2,176	1,969	1,918
Coffee ^c	915	1,005	1,147	1,442	3,399	2,910	3,175	3,153	3,770	2,447
Corn ^d	57	64	66	130	150	148	150	125	101	91
Cotton ^e	NA	NA	NA	1,434	2,055	1,890	1,654	1,206	1,048	1,652
Palm oil ^f	228	273	260	429	583	502	730	501	257	343
Rice ^g	NA	NA	188	417	598	514	514	484	348	286
Rubber, natural ^h	842	567	465	659	1,620	1,239	1,093	926	944	1,116
Soybeans ⁱ	92	117	117	220	296	282	283	225	208	216
Soybean meal ^j	78	94	103	155	257	238	197	157	185	204
Soybean oil ^k	224	270	291	563	598	527	727	571	342	335
Sugar ^l	NA	47	83	452	640	187	114	89	133	148
Tea ^m	1,422	1,280	1,092	1,375	2,235	2,319	3,452	1,984	1,929	1,709
Wheat ⁿ	NA	NA	64	156	209	183	182	169	148	138

^a Boneless Australian, f.o.b., New York.^b New York cocoa bean futures prices. Average of nearest three active futures trading months.^c Other milds, New York.^d US No. 3 yellow, c.i.f., Rotterdam.^e World Cotton Prices, "A" index, c.i.f., OSAKA.^f Malaysian, Europe.^g US No. 2, milled, 4 percent, c.i.f., Rotterdam.^h Smoked sheets, New York.ⁱ US No. 2, yellow, c.i.f., Rotterdam.^j US, c.i.f., Rotterdam.^k Netherlands, f.o.b., ex-mill.^l World raw cane, f.o.b., Caribbean ports, spot prices.^m London, average price all teas.ⁿ US No. 2, DNS, c.i.f., Rotterdam.

Table 17
Metal Prices

	1960	1965	1970	1975	1980	1983	1984	1985	1986	1987
Aluminum ^a (US cents per pound)	27.23	24.50	28.72	39.79	71.64	77.70	81.00	81.00	81.00	71.90
Copper ^b (US cents per pound)	30.74	58.51	64.17	55.85	98.68	72.00	62.40	64.50	62.30	80.40
Lead ^c (US cents per pound)	9.02	14.39	13.78	18.66	41.10	19.30	20.00	17.70	18.40	26.70
Nickel ^d (US cents per pound)	74.00	78.70	129.00	205.83	347.25	320.00	320.00	320.00	320.00	320.00
Tin ^e (US cents per pound)	99.60	179.40	166.70	310.20	761.30	590.90	556.60	543.20	280.80	303.90
Zinc ^e (US cents per pound)	11.09	14.11	13.40	33.68	34.40	34.70	41.50	35.40	34.50	36.20
Silver ^f (US \$ per troy ounce)	.91	1.29	1.77	4.42	20.70	11.40	8.10	6.10	5.50	7.00
Gold ^g (US \$ per troy ounce)	35.28	35.13	35.98	160.47	612.10	424.40	360.00	317.20	366.10	445.40
Platinum ^g (US \$ per troy ounce)	83.21	98.04	132.50	164.50	439.50	475.00	475.00	475.00	517.00	600.00
Iron ore ^h (US \$ per metric ton)	17.00	16.00	15.00	23.00	27.00	24.00	24.00	23.00	22.00	NA
Manganese ore (US \$ per long ton)	45.00	39.00	28.00	70.60	78.50	73.30	69.80	68.40	65.50	62.70
Steel scrap ⁱ (US \$ per long ton)	33.20	34.27	44.95	71.86	91.20	73.20	86.40	74.40	73.40	86.20
Chrome ore ^j (US \$ per metric ton)	18.93	19.31	23.12	39.78	55.00	50.00	50.00	43.90	40.00	40.00
Finished steel composite ^k (US \$ per long ton)	139.00	142.60	171.30	293.40	486.20	590.20	611.60	617.80	555.40	595.70

^a Virgin unalloyed ingot at New York.

^b London Metal Exchange electrolytic wirebars.

^c London Metal Exchange refined pig lead, minimum 99.97 percent.

^d US major producer of cathodes, spot, f.o.b. refinery.

^e London Metal Exchange.

^f US price (New York).

^g Major producers, New York.

^h Brazil (North Sea ports).

ⁱ Number 1, heavy melting average.

^j South African ports.

^k Weighted index of steel shapes.

Table 18
World Crude Oil Prices*US \$ per barrel*

	1973	1974	1975	1979	1980	1984	1985	1986	1987
OPEC official average sales price ^a	3.39 ^b	11.28	11.02	18.67	30.87	28.70	28.14	23.49	17.90
Algeria (42° API, 0.10% sulfur)	4.79	13.33	12.06	19.65	37.59	30.50	29.66	NA	NA
Ecuador (28° API, 0.93% sulfur)	3.67	10.58	11.05	22.41	34.42	27.50	26.41	NA	NA
Gabon (29° API, 1.26% sulfur)	3.32	9.56	10.47	18.20	31.09	29.00	28.09	NA	NA
Indonesia (35° API, 0.09% sulfur)	4.00	11.93	12.65	18.35	30.55	29.53	28.62	NA	NA
Iran (34° API, 1.35% sulfur)	3.24	11.10	10.91	19.45	34.54	28.00	28.13	NA	NA
Iraq (35° API, 1.95% sulfur)	3.03	10.77	10.74	18.56	30.30	29.43	28.27	NA	NA
Kuwait (31° API 2.50% sulfur)	2.93	10.79	10.60	18.48	29.84	27.30	27.30	NA	NA
Libya (40° API 0.22% sulfur)	4.82	13.90	11.71	21.16	36.07	30.40	30.40	NA	NA
Nigeria (34° API, 0.16% sulfur)	4.50	13.00	11.90	20.86	35.50	29.12	28.34	NA	NA
Qatar (40° API, 1.17% sulfur)	3.29	11.61	11.34	19.72	37.12	28.48	28.10	NA	NA
Saudi Arabia, Arab light (34° API, 1.70% sulfur)	3.06	10.89	10.72	17.26	28.67	29.00	28.08	NA	NA
United Arab Emirates (39° API, 0.75% sulfur)	3.30	11.57	11.13	19.81	31.57	29.56	28.24	NA	NA
Venezuela (26° API, 1.52% sulfur)	2.91	9.54	10.63	17.22	28.44	27.88	27.37	NA	NA
World average price	NA	NA	NA	NA	NA	NA	27.16	15.35	17.70

^a F.o.b. prices set by the government for direct sales and, in most cases for the producing company buy-back oil. Weighted by the volume of production.

^b Posted prices.

Table 19
East European Debt, by Source*Billion US \$*

	1971	1975	1980	1982	1983	1984	1985	1986	1987 ^a
Eastern Europe ^b	6.1	23.2	66.1	62.3	62.9	60.9	69.1	81.0	94.3
Commercial	3.3	18.8	48.8	41.0	36.6	32.3	39.3	48.2	55.4
Official	2.8	4.2	16.1	18.1	22.6	24.9	26.1	29.1	34.9
IMF/World Bank/Other	.0	.2	1.2	3.2	3.7	3.7	3.8	3.7	4.0
Bulgaria	.7	2.6	3.5	2.8	2.4	2.2	3.6	4.9	6.1
Commercial	.4	2.5	3.2	2.3	1.9	1.8	3.1	4.2	5.3
Official	.3	.2	.3	.5	.5	.5	.5	.7	.9
Czechoslovakia	.5	1.1	4.9	4.0	4.0	3.6	3.8	4.5	5.9
Commercial	.3	.9	4.1	3.1	2.9	2.5	2.8	3.4	4.5
Official	.2	.2	.9	.9	1.1	1.0	1.0	1.1	1.4
East Germany	1.4	5.4	14.1	13.1	13.1	12.4	14.0	17.0	20.4
Commercial	.7	4.4	11.3	9.6	9.1	8.2	10.1	13.1	16.5
Official	.7	1.0	2.8	3.5	3.9	4.2	3.9	3.9	3.9
Hungary	1.1	3.1	9.1	7.7	8.2	8.8	11.8	15.1	17.7
Commercial	1.0	3.1	8.8	7.0	6.9	7.0	9.8	12.7	15.2
Official	.1	.1	.3	.5	.7	.8	.8	.9	1.0
BIS/IMF	.0	.0	.0	.2	.6	1.1	1.2	1.5	1.6
Poland	1.1	8.0	25.0	24.8	26.4	26.8	29.3	33.5	39.2
Commercial	.3	5.9	14.9	13.6	10.9	9.4	10.6	12.1	12.2
Official	.8	2.1	10.1	11.2	15.5	17.4	18.7	21.4	27.0
Romania	1.2	2.9	9.4	9.8	8.8	7.1	6.6	6.0	4.9
Commercial	.6	2.0	6.5	5.4	4.8	3.4	2.9	2.7	1.7
Official	.6	.7	1.7	1.4	.9	1.1	1.1	1.1	.8
IMF/World Bank CEMA Banks	.0	.2	1.2	2.9	3.1	2.6	2.6	2.2	2.4
Yugoslavia	3.2	6.6	17.4	18.5	19.0	18.8	19.2	19.4	20.5
Commercial	2.0	4.3	12.8	11.9	10.3	9.0	7.8	7.4	9.1
Official	.8	1.6	2.6	3.0	4.6	5.8	7.1	7.7	6.5
IMF/World Bank	.3	.7	2.1	3.5	4.1	4.1	4.3	4.2	4.9

^a Preliminary.^b Excluding data for Yugoslavia.

Table 20
Medium- and Long-Term Debt of Selected Less Developed Countries

Billion US \$

	1975	1979	1980	1982	1983	1984	1985	1986	1987 ^a
Algeria	5.9	17.1	17.4	16.4	15.1	16.5	20.2	22.8	24.2
Argentina	4.9	12.7	16.8	27.1	35.8	37.1	40.2	43.0	43.5
Brazil	23.4	51.5	56.7	73.5	81.3	89.6	91.1	97.2	103.5
Chile	4.4	7.5	9.4	14.0	15.0	17.3	17.7	17.9	17.4
Columbia	2.9	3.9	5.0	7.2	8.1	9.4	10.9	13.0	15.0
Ecuador	.6	3.3	4.4	5.7	6.2	6.9	7.2	8.0	8.9
Egypt	5.1	12.2	14.1	18.9	20.7	21.9	25.3	28.2	31.0
India	12.7	17.5	17.9	21.0	23.2	26.1	31.0	34.5	37.0
Indonesia	8.7	16.1	18.1	21.7	25.1	26.6	30.5	35.7	41.0
Iran	4.3	10.1	10.0	4.1	3.9	3.0	2.5	1.4	1.0
Iraq	.4	2.3	2.5	2.9	4.3	5.2	7.2	8.2	9.4
Ivory Coast	.9	3.9	4.9	6.5	6.3	7.1	8.4	9.5	11.3
Malaysia	1.8	3.8	5.6	11.3	14.6	16.1	18.1	19.6	20.4
Mexico	16.6	37.7	41.3	59.7	81.6	87.6	88.7	91.1	95.2
Morocco	1.8	6.7	7.5	9.1	10.3	10.6	12.8	14.6	16.2
Nigeria	1.4	4.2	5.3	10.4	13.5	13.1	14.4	21.5	26.5
Pakistan	5.4	8.4	9.2	9.8	10.1	11.7	13.4	15.2	17.2
Peru	4.4	7.1	7.4	8.6	10.1	11.1	11.8	12.4	13.0
Philippines	2.8	7.3	9.0	12.2	13.7	14.3	16.6	21.6	22.5
Saudi Arabia	1.5	4.7	5.9	3.4	2.6	3.2	3.9	3.2	3.1
South Korea	6.0	15.5	18.5	24.1	27.4	30.2	35.3	34.3	26.5
Sudan	1.5	3.4	4.0	5.1	5.7	6.2	6.7	7.1	7.6
Taiwan	1.9	3.9	4.9	7.2	7.6	6.4	5.7	4.3	2.9
Thailand	1.4	4.1	5.8	8.5	9.7	10.9	13.2	14.1	13.7
Venezuela	2.3	12.3	14.1	17.2	22.8	26.8	25.8	32.4	34.0

^a Preliminary.

Table 21
Economic Indicators: Selected Non-OPEC
Less Developed Countries

Percent change

	1973	1975	1980	1982	1983	1984	1985	1986	1987
Industrial production									
Brazil	16.3	5.9	9.2	-0.2	-5.2	7.4	8.5	10.9	0.9
China(Taiwan)	20.5	5.4	6.8	-6	14.1	12.2	1.4	14.9	12.4
India	1.6	4.7	.7	4.7	4.4	8.6	8.7	9.1	7.5
Mexico	10.1	4.7	9.8	-3.3	-8.0	4.3	5.1	-5.1	3.3
South Korea	33.5	18.9	-1.8	5.0	15.8	15.0	4.0	32.3	16.8
Consumer price inflation									
Brazil	12.7	28.9	82.8	97.9	142.0	196.7	235.1	65.0	366.0
China(Taiwan)	8.2	5.2	19.0	3.0	1.4	NEGL	-.2	.7	.5
India	17.8	5.6	11.4	7.9	11.9	5.0	8.9	7.5	11.0
Mexico	12.0	15.2	26.3	58.9	101.9	65.5	57.8	86.2	131.8
South Korea	3.2	25.3	28.7	7.3	3.4	2.3	2.5	2.8	3.0
Wholesale price inflation									
Brazil	15.3	27.8	106.5	92.0	168.2	236.2	225.7	59.9	400.7
China(Taiwan)	22.9	-5.1	21.5	-2	-1.2	-.5	-2.6	-3.3	-3.3
India	16.4	4.0	20.3	2.5	7.8	7.7	3.8	5.1	11.0
Mexico	16.0	10.4	24.4	56.1	107.3	70.3	53.6	88.1	135.6
South Korea	6.9	26.1	38.9	4.7	.2	.7	.9	-2.8	.5
Money Supply									
Brazil	41.8	33.6	70.0	69.7	92.0	203.5	305.5	303.8	129.6
China(Taiwan)	49.3	26.9	22.7	14.6	18.4	9.3	12.2	51.4	37.8
India	16.5	8.1	12.3	17.4	12.6	19.9	10.0	17.4	11.0
Mexico	24.2	21.3	33.1	62.1	41.2	63.0	50.8	67.9	140.0
South Korea	51.4	26.1	16.3	45.6	17.0	.6	15.6	18.6	16.4

4

Table 22
Population*Million persons at midyear*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD	641.7	715.8	751.4	780.8	798.0	803.2	809.0	814.4	819.6
United States	180.7	205.1	216.0	227.8	234.8	237.0	239.3	241.6	243.8
Australia	10.4	12.7	13.8	14.6	15.3	15.5	15.7	15.9	16.1
Austria	7.0	7.5	7.6	7.5	7.6	7.6	7.6	7.6	7.6
Canada	17.9	21.3	22.7	24.1	24.9	25.1	25.4	25.6	25.9
Finland	4.4	4.6	4.7	4.8	4.9	4.9	4.9	4.9	4.9
Iceland	.2	.2	.2	.2	.2	.2	.2	.2	.2
Japan	94.1	104.3	111.6	116.8	119.3	120.0	120.8	121.4	122.0
New Zealand	2.4	2.8	3.1	3.1	3.2	3.2	3.3	3.3	3.3
Norway	3.6	3.9	4.0	4.1	4.1	4.1	4.2	4.2	4.2
Sweden	7.5	8.0	8.2	8.3	8.3	8.3	8.4	8.4	8.4
Switzerland	5.4	6.3	6.4	6.4	6.5	6.5	6.5	6.6	6.6
Turkey	28.2	35.8	40.5	45.1	48.4	49.5	50.7	51.8	53.0
European Community	280.0	303.4	312.5	318.0	320.5	321.2	322.0	322.8	323.6
Belgium	9.1	9.6	9.8	9.8	9.9	9.9	9.9	9.9	9.9
Denmark	4.6	4.9	5.1	5.1	5.1	5.1	5.1	5.1	5.1
France	45.7	50.8	52.8	53.9	54.6	54.9	55.2	55.4	55.6
Greece	8.3	8.8	9.0	9.6	9.8	9.9	9.9	10.0	10.0
Ireland	2.8	3.0	3.2	3.4	3.5	3.5	3.5	3.5	3.5
Italy	50.2	53.7	55.6	56.5	56.8	57.0	57.1	57.2	57.4
Luxembourg	.3	.3	.4	.4	.4	.4	.4	.4	.4
Netherlands	11.5	13.0	13.7	14.1	14.4	14.4	14.5	14.6	14.6
Portugal	9.0	9.0	9.4	9.8	10.0	10.1	10.2	10.2	10.3
Spain	30.6	33.9	35.6	37.5	38.2	38.4	38.6	38.8	39.0
United Kingdom	52.4	55.6	56.2	56.3	56.4	56.5	56.6	56.8	56.8
West Germany	55.4	60.7	61.8	61.6	61.4	61.2	61.0	61.0	61.0
Less developed countries									
Bangladesh	54.6	67.4	76.3	88.1	95.9	98.7	101.4	104.2	107.1
Brazil	71.7	95.7	108.7	123.2	133.1	136.5	140.0	143.5	147.1
Burma	22.8	27.4	30.2	33.5	35.7	36.5	37.2	38.0	38.8
Egypt	26.8	33.6	37.0	42.2	46.4	47.8	49.1	50.5	51.9
India	445.9	555.0	621.0	689.0	735.6	751.6	767.7	783.9	800.3
Indonesia	100.7	122.7	137.5	154.9	165.8	169.4	173.1	176.7	180.4

Table 22 (continued)
Population*Million persons at midyear*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
Less developed countries (continued)									
Iran	21.6	28.9	33.4	39.2	43.8	45.4	47.0	48.6	50.3
Mexico	38.6	52.8	61.5	70.1	75.3	76.9	78.6	80.2	81.9
Nigeria	51.1	66.8	77.1	90.0	97.7	99.9	102.8	105.5	108.6
Pakistan	50.4	65.7	74.7	85.2	93.7	96.2	99.0	101.8	104.6
Philippines	28.6	38.7	44.4	50.9	55.2	56.7	58.3	59.9	61.5
South Korea	24.8	32.2	35.3	38.1	39.9	40.5	41.1	41.6	42.2
Thailand	27.5	37.1	42.3	46.9	49.8	50.8	51.8	52.7	53.6
Communist countries	1,039.4	1,264.6	1,386.8	1,476.0	1,529.6	1,548.0	1,565.4	1,584.4	1,604.5
USSR and Eastern Europe	311.0	345.8	360.8	375.7	384.5	387.6	390.4	393.5	396.4
USSR	214.3	242.8	254.8	266.4	273.6	276.3	278.9	281.5	284.0
Eastern Europe	96.7	103.0	106.0	109.3	110.9	111.3	111.5	112.0	112.4
Bulgaria	7.9	8.5	8.7	8.8	8.9	8.9	8.9	9.0	9.0
Czechoslovakia	13.7	14.3	14.8	15.3	15.4	15.5	15.5	15.5	15.6
East Germany	17.1	17.1	16.8	16.7	16.7	16.7	16.6	16.6	16.6
Hungary	10.0	10.3	10.5	10.7	10.7	10.7	10.6	10.6	10.6
Poland	29.6	32.5	34.0	35.6	36.6	36.9	37.2	37.5	37.7
Romania	18.4	20.3	21.2	22.2	22.6	22.6	22.7	22.8	22.9
Other									
Albania	1.6	2.1	2.4	2.7	2.8	2.9	3.0	3.0	3.1
Cambodia	5.4	7.1	6.7	5.7	6.0	6.1	6.2	6.4	6.5
China	650.7	820.4	917.9	983.4	1,021.5	1,034.4	1,046.2	1,059.4	1,074.0
Cuba	7.0	8.5	9.3	9.7	9.9	10.0	10.1	10.2	10.3
Laos	2.3	2.8	3.2	3.3	3.5	3.5	3.6	3.7	3.8
Mongolia	1.0	1.2	1.4	1.7	1.8	1.9	1.9	2.0	2.0
North Korea	10.5	13.9	15.9	17.9	19.2	19.6	20.4	20.9	21.4
Vietnam	31.5	42.4	47.9	53.6	57.6	59.0	60.5	62.0	63.6
Yugoslavia	18.4	20.4	21.3	22.3	22.8	23.0	23.1	23.3	23.4

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Table 23
Labor Force ^a*Million persons*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD									
United States	71.49	84.89	95.45	108.54	113.23	115.24	117.17	119.54	121.60
Canada	6.58	8.49	10.05	11.65	12.26	12.47	12.72	12.95	13.20
Japan	44.33	50.97	52.77	55.98	58.35	58.72	59.06	59.65	60.29
European Community									
France	20.04	21.36	22.35	23.37	23.70	23.86	23.90	24.04	24.17
Italy	21.19	20.10	20.43	21.53	21.94	22.07	22.20	22.69	22.75
United Kingdom	24.65	25.48	26.07	26.84	26.95	27.34	27.53	27.70	27.92
West Germany	26.28	26.74	26.65	27.05	27.19	27.28	27.49	27.63	27.79
Communist countries									
USSR and Eastern Europe	156.67	176.92	190.08	201.80	206.22	207.39	208.49	209.55	210.46
USSR ^b	110.13	125.57	136.65	147.34	151.41	152.42	153.31	154.09	154.84
Eastern Europe ^c	46.54	51.35	53.43	54.46	54.81	54.97	55.18	55.46	55.62
Bulgaria ^d	3.96	4.15	4.30	4.36	4.33	4.32	4.31	4.31	4.30
Czechoslovakia	6.25	7.25	7.65	7.94	7.99	8.02	8.06	8.14	8.20
East Germany	7.99	8.22	8.40	8.72	8.87	8.92	8.94	8.94	8.94
Hungary	4.68	5.00	5.09	5.04	4.96	4.93	4.90	4.88	4.86
Poland	14.13	16.85	17.88	18.06	18.22	18.30	18.43	18.56	18.63
Romania	9.53	9.88	10.11	10.34	10.44	10.48	10.54	10.63	10.69
Other									
China ^e	258.80	344.32	381.68	418.96	460.04	475.97	498.73	512.83	NA
Cuba ^e	NA	2.40	NA	3.00	3.20	3.40	3.40	3.50	NA
Vietnam ^f	8.50	10.95	12.50	26.50	29.00	30.10	31.20	31.90	32.90
Yugoslavia ^g	8.42	8.05	8.33	9.00	9.34	9.40	9.53	9.61	9.70

^a Unless otherwise indicated, data include the armed forces and the unemployed. Annual averages of monthly data.
^b Data are from *Revised Estimates and Projections of Labor Force and Employment in the USSR: 1986* by Timothy E. Heleniak and Stephen Rapawy US Bureau of the Census, unpublished research note, November 1987.

^c Excluding the armed forces.

^d Annual average of monthly data.

^e Data are as of the end of the year.

^f Excluding the armed forces and prior to 1980, South Vietnam.

^g Excludes workers temporarily employed abroad.

Table 24
Agricultural Labor Force ^a*Million persons*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD									
United States	5.57	3.57	3.50	3.53	3.54	3.47	3.34	3.35	3.40
Canada	.80	.60	.56	.58	.59	.59	.59	.59	.58
Japan	12.80	8.49	6.38	5.51	5.06	4.86	4.82	4.70	4.64
European Community									
France	4.30	2.75	2.16	1.85	1.68	1.63	1.58	1.54	NA
Italy	6.51	3.84	3.24	2.90	2.52	2.39	2.26	2.21	2.14
United Kingdom	1.12	.78	.68	.66	.64	.63	.62	.60	.59
West Germany	3.62	2.26	1.77	1.44	1.39	1.38	1.36	1.34	1.33
Communist countries									
USSR and Eastern Europe	65.30	53.18	49.90	47.04	47.25	47.23	46.81	46.27	45.99
USSR ^b	45.44	36.97	36.08	34.72	34.75	34.82	34.52	34.08	33.91
Eastern Europe	19.86	16.21	13.82	12.32	12.50	12.41	12.29	12.19	12.08
Bulgaria	2.16	1.46	1.19	1.04	.96	.93	.91	.89	.86
Czechoslovakia	1.49	1.20	1.06	.99	.98	.99	.99	.99	.99
East Germany	1.28	.98	.88	.87	.89	.91	.91	.91	.91
Hungary	1.67	1.18	1.02	.99	1.02	1.00	.96	.92	.89
Poland	7.01	6.45	5.74	5.32	5.65	5.55	5.49	5.46	5.42
Romania	6.25	4.94	3.93	3.11	3.00	3.03	3.03	3.02	3.01
Other									
China ^c	170.19	278.14	294.60	302.11	325.10	325.33	311.88	313.11	NA
Cuba ^d	NA	.92 ^e	.92	.77	.79	.75	.75	.75	NA
Vietnam ^f	6.50	7.65	8.70	15.65	19.70	20.20	20.60	20.70	21.40
Yugoslavia ^d	4.81	4.31	3.60	2.71	2.27	2.20	2.16	2.14	2.13

^a Annual average of monthly data.^b Data are from *Revised Estimates and Projections of Labor Force and Employment in the USSR: 1986* by Timothy E. Heleniak and Stephen Rapawy US Bureau of the Census, unpublished research note, November 1987.^c Yearend data, series revised in 1985.^d Employment data.^e Data are for 1971.^f Including South Vietnam beginning in 1980.

Table 25
Nonagricultural Labor Force ^a

Million persons

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD									
United States	65.92	81.32	91.95	105.02	109.68	111.77	113.83	116.19	118.20
Canada	5.79	7.88	9.49	11.06	11.67	11.89	12.13	12.36	12.62
Japan	31.53	42.48	46.39	50.47	53.29	53.86	54.24	54.95	55.65
European Community									
France	15.74	18.61	20.19	21.52	22.02	22.23	22.32	22.50	NA
Italy	14.68	16.26	17.19	18.63	19.42	19.68	19.94	20.48	20.61
United Kingdom	23.53	24.70	25.39	26.18	26.31	26.71	26.91	27.10	27.33
West Germany	22.66	24.48	24.88	25.61	25.80	25.90	26.13	26.29	26.46
Communist countries									
USSR and Eastern Europe	91.37	123.73	140.17	154.79	158.97	160.16	161.69	163.27	164.45
USSR ^b	64.70	88.60	100.56	112.62	116.66	117.60	118.78	120.01	120.93
Eastern Europe	26.67	35.13	39.61	42.17	42.31	42.56	42.91	43.26	43.52
Bulgaria	1.79	2.69	3.12	3.33	3.37	3.39	3.40	3.42	3.44
Czechoslovakia	4.75	6.05	6.58	6.95	7.01	7.03	7.07	7.15	7.21
East Germany	6.72	7.24	7.52	7.85	7.99	8.01	8.03	8.02	8.02
Hungary	3.01	3.81	4.06	4.06	3.93	3.93	3.95	3.96	3.96
Poland	7.12	10.40	12.14	12.75	12.57	12.75	12.94	13.10	13.21
Romania ^c	3.28	4.94	6.19	7.23	7.44	7.45	7.52	7.61	7.68
Other									
China ^d	88.61	66.18	87.08	116.85	134.94	150.59	186.85	199.72	NA
Vietnam ^e	2.00	3.30	3.80	10.85	9.30	9.90	10.60	11.20	11.50
Yugoslavia ^f	3.62	3.74	4.74	6.29	7.07	7.20	7.37	7.48	7.57

^a Unless otherwise indicated, data include the armed forces. Annual average of monthly data.^b Data are from *Revised Estimates and Projections of Labor Force and Employment in the USSR: 1986* by Timothy E. Heleniak and Stephen Rapawy US Bureau of the Census, unpublished research note, November 1987.^c Excluding the armed forces.^d Yearend data, series revised in 1985.^e Excluding the armed forces and prior to 1980, South Vietnam.^f Excluding those employed abroad and the armed forces.

Table 26
Industrial Employment ^a*Million persons, annual average*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD									
United States	22.00	26.08	25.30	29.14	27.02	28.62	28.80	29.13	29.21
Canada	1.91	2.36	2.61	2.93	2.62	2.72	2.76	2.83	2.91
Japan	12.38	17.88	18.37	19.18	19.47	19.63	19.82	19.76	19.56
European Community									
France	6.98	7.81	7.88	7.48	6.94	6.69	6.48	6.36	NA
Italy	6.86	7.59	7.66	7.77	7.40	7.04	6.89	6.82	6.71
United Kingdom	10.90	10.53	9.65	9.07	7.51	7.50	7.34	7.16	7.10
West Germany	11.91	12.46	11.24	11.14	10.11	10.03	10.03	10.11	10.05
Communist countries									
USSR and Eastern Europe	34.65	47.03	51.27	54.84	55.77	56.01	56.27	56.35	NA
USSR	22.62	31.59	34.05	36.89	37.83	37.96	38.10	38.23	NA
Eastern Europe	12.03	15.44	17.22	17.95	17.94	18.05	18.17	18.12	18.06
Bulgaria	.77	1.16	1.30	1.37	1.41	1.41	1.41	1.40	1.42
Czechoslovakia	2.27	2.71	2.88	2.95	2.97	2.98	2.99	3.02	3.02
East Germany ^b	3.18	3.26	3.30	3.39	3.46	3.48	3.50	3.49	3.49
Hungary ^b	1.39	1.79	1.79	1.66	1.60	1.66	1.69	1.68	1.63
Poland	3.16	4.45	5.15	5.25	4.97	5.00	5.00	4.91	4.88
Romania ^b	1.26	2.07	2.80	3.33	3.53	3.52	3.58	3.62	3.62
Other									
China ^b	29.79	28.09	42.84	56.00	60.23	63.38	83.49	89.80	NA
Cuba ^c	NA	.57 ^d	.68	.85	.91	.99	1.02	1.05	NA
Vietnam ^e	.75	1.10	1.25	2.15	2.25	2.35	2.35	2.40	2.48
Yugoslavia	1.05	1.44	1.82	2.16	2.37	2.45	2.53	2.63	2.71

^a Including employment in manufacturing, mining, and construction.^b Yearend data.^c State sector only.^d Data are for 1971.^e Including South Vietnam beginning in 1980.

Declassified and Approved For Release 2012/09/07 : CIA-RDP89T01437R000100140006-0
Developed Country Trends

Table 27
Gross Domestic Product in Purchasing Power
and Exchange Rate Equivalents, 1987

	Purchasing Power Equivalents ^a (Kravis)	Purchasing Power Equivalents ^b (Gilbert)	Average 1987 Par Rate/ Market Rate	Average 1985 Exchange Rate	Average 1973 Exchange Rate	February 1973 Exchange Rate	May 1972 Exchange Rate	April 1971 Exchange Rate
Gross Domestic Product, 1987 (Billion US \$)								
OECD								
Belgium	132.6	135.8	138.4	115.7	132.6	128.1	115.3	103.3
Denmark	76.5	65.4	101.5	85.8	114.8	110.6	99.5	92.6
France	803.4	767.8	874.1	758.6	1,179.9	1,142.2	1,027.0	946.0
Italy	666.2	574.9	751.0	652.9	1,669.6	1,717.9	1,673.9	1,557.4
Japan	1,745.9	1,390.9	2,372.3	2,036.1	1,260.6	1,270.8	1,114.1	953.1
Netherlands	192.3	160.9	220.2	182.1	159.6	152.8	137.5	123.2
United Kingdom	644.5	603.1	667.3	597.3	998.5	1,013.9	1,061.0	977.3
West Germany	925.1	752.1	1,118.9	926.1	752.7	693.5	624.1	549.5

Gross Domestic Product Per Capita, 1987 (United States = 100)

OECD								
Belgium	73.0	75.0	77.0	64.0	73.0	71.0	64.0	57.0
Denmark	82.0	70.0	108.0	92.0	122.0	118.0	106.0	99.0
France	79.0	76.0	86.0	75.0	116.0	112.0	101.0	93.0
Italy	63.0	55.0	72.0	62.0	159.0	164.0	160.0	148.0
Japan	78.0	62.0	106.0	91.0	56.0	57.0	50.0	43.0
Netherlands	72.0	60.0	82.0	68.0	60.0	57.0	51.0	46.0
United Kingdom	62.0	58.0	64.0	57.0	96.0	97.0	102.0	94.0
West Germany	83.0	67.0	100.0	83.0	68.0	62.0	56.0	49.0

^a For the individual countries, the ratios for converting GDP in national currencies at 1987 prices into 1987 US dollars on the basis of purchasing power equivalents are derived from the 1975 ratios in *World Product and Income: International Comparisons of Real GDP*, published for the World Bank by the Johns Hopkins University Press, Baltimore and London, 1981, using the geometric mean of foreign and US weighted ratios. These 1975 GDP parities were moved to 1987 by applying the following factor: the derived price index for each OECD country for 1976-87 divided by a

derived price index for the United States for 1976-87. These price indexes were derived for each country by dividing the growth of GDP in current prices by the growth of GDP in constant prices. The ratios thus obtained were applied to the GDP values, given in the national currencies in 1987 prices.
^b For the individual European countries, the ratios for converting GDP in national currencies at 1987 prices into 1987 US dollars on the basis of US purchasing power equivalents are derived from the 1950 ratios in Milton

Gilbert and Associates, *Comparative National Products and Price Levels*, OEEC, Paris, 1958, using the geometric mean of European and US weighted ratios. These 1950 ratios were moved to 1987 by applying the following factor: the derived price index for each European country for 1951-87 divided by a derived price index for the United States for 1951-87. The ratios thus obtained were applied to the GDP values, given in the national currencies in 1987 prices.

Table 28*Index: 1980=100***Gross Domestic Product Price Deflators**

	1960	1970	1975	1980	1983	1984	1985	1986	1987
United States	36.6	49.4	69.3	100.0	118.5	123.0	126.8	130.2	134.1
Australia	26.5	35.3	61.6	100.0	132.5	141.7	150.5	162.1	175.4
Canada	32.5	44.9	67.0	100.0	126.2	130.5	134.7	138.6	145.1
Japan	28.2	48.0	78.7	100.0	105.9	107.2	108.9	110.8	110.6
Sweden	26.2	39.8	61.2	100.0	130.5	140.5	150.0	160.8	168.4
Switzerland	39.4	60.3	89.5	100.0	118.5	121.8	125.1	129.9	132.8
European Community	26.8	40.3	62.0	100.0	131.1	139.6	147.8	156.2	161.8
Belgium	35.9	50.3	76.4	100.0	119.0	125.0	131.9	136.7	138.6
France	26.4	40.5	61.8	100.0	136.6	146.7	155.2	162.4	166.8
Italy	16.2	25.3	44.7	100.0	158.8	175.0	190.5	205.8	217.3
Netherlands	28.8	47.9	74.3	100.0	114.0	116.1	118.1	118.9	117.4
Spain	13.2	24.4	43.6	100.0	142.2	157.7	171.4	190.5	201.5
United Kingdom	17.9	26.9	50.0	100.0	126.1	131.4	139.3	144.2	150.5
West Germany	41.5	59.6	81.8	100.0	112.1	114.4	116.3	120.0	122.5

Table 29
Economic Indicators: Selected Industrial Countries ^a

Percent

	Average annual rate of growth				1984	1985	1986	1987
	1961-70	1971-75	1976-80	1981-85				
Industrial production								
United States	5.0	1.8	5.1	2.9	11.2	1.9	1.1	3.8
Canada	6.2	4.0	3.4	1.5	8.8	2.8	.8	2.6
Japan	13.6	1.5	6.6	3.9	11.1	3.7	-.3	3.4
France	5.8	3.0	3.0	-.1	1.7	.6	.9	2.1
Italy	7.0	1.6	5.5	-.7	3.4	1.2	2.7	3.9
United Kingdom	2.8	.6	1.7	1.6	1.3	4.7	1.4	3.1
West Germany	5.8	.9	3.4	.4	3.3	3.8	2.2	.1
Consumer price inflation								
United States	2.7	6.7	8.9	5.5	4.3	3.5	1.9	3.7
Canada	2.7	7.3	8.7	7.5	4.3	4.0	4.2	4.4
Japan	5.7	11.5	6.5	2.8	2.3	2.0	.6	.1
France	4.1	8.8	10.5	9.6	7.7	5.8	2.5	3.3
Italy	3.9	11.3	16.3	13.8	10.6	8.6	6.1	4.6
United Kingdom	4.1	13.0	14.4	7.2	5.0	6.1	3.4	4.1
West Germany	2.6	6.1	4.0	3.9	2.4	2.2	-.2	.3
Export prices (unit values, US dollar basis)								
United States	2.0	12.0	8.3	2.5	1.4	-.7	.4	1.8
Canada	1.4	12.2	7.9	-.6	-.4	-4.7	-4.6	3.2
Japan	-.4	12.5	8.0	-.8	-.2	-.8	19.7	9.4
France	1.3	15.2	9.2	-2.6	-2.9	1.2	22.7	14.7
Italy	.5	14.3	10.9	-4.1	-5.1	-.3	21.9	16.0
United Kingdom	1.0	12.7	15.6	-3.0	-5.1	2.3	8.0	16.1
West Germany	2.6	16.0	10.5	-5.6	-7.1	.0	32.0	19.2
Import prices (unit values, US dollar basis)								
United States	1.5	16.7	12.5	-.2	1.7	-2.4	-3.3	6.9
Canada	1.4	10.6	8.2	1.2	1.0	3.2	-2.3	1.2
Japan	.6	20.4	12.5	-3.3	-2.8	-4.8	-10.7	8.0
France	.6	16.0	10.5	-5.4	-3.8	-1.1	8.4	14.6
Italy	1.1	19.6	12.5	-3.1	-3.7	-1.0	5.0	13.5
United Kingdom	NA	17.0	12.2	-3.2	-4.5	.5	5.5	14.7
West Germany	1.5	16.1	12.8	-5.0	-4.8	-1.5	9.3	13.0

Table 29 (continued)

Percent

Economic Indicators: Selected Industrial Countries ^a

	Average annual rate of growth							
	1961-70	1971-75	1976-80	1981-85	1984	1985	1986	1987
Labor productivity in manufacturing (output per hour)								
United States	2.7	2.8	1.8	4.1	5.4	5.2	3.7	2.8
Canada	4.1	3.2	2.1	4.0	10.8	2.5	-8	1.8
Japan	10.8	6.2	6.9	5.6	7.2	5.6	1.7	4.1
France	6.7	4.9	4.4	3.8	3.4	3.1	2.2	3.7
Italy	7.5	4.6	5.1	5.4	6.6	2.8	.8	3.8
United Kingdom	3.7	3.4	1.4	5.7	5.5	3.6	2.8	6.9
West Germany	5.9	4.8	3.8	3.4	3.8	3.9	1.7	1.3
Unit labor costs in manufacturing (in US dollars)								
United States	1.9	5.2	7.3	1.7	-1.9	.1	-.4	-1.5
Canada	1.7	7.6	5.5	.8	-10.1	-2.9	2.4	7.6
Japan	3.2	17.3	6.1	-2.0	-3.9	-1.5	46.0	13.5
France	1.2	16.3	9.5	-6.9	-7.3	2.0	32.9	14.9
Italy	4.1	15.6	6.3	-5.6	-9.3	-1.4	31.2	18.0
United Kingdom	2.1	13.8	16.6	-8.4	-10.6	-.1	18.6	13.0
West Germany	5.2	15.6	10.8	-7.3	-9.3	-1.5	39.3	23.9
Export volume								
United States	5.9	7.4	6.6	-3.2	7.2	3.7	5.9	15.3
Canada	9.8	2.8	6.2	6.5	22.6	6.5	4.3	6.4
Japan	17.5	9.9	9.5	7.2	15.4	4.8	-.5	.4
France	8.5	7.6	6.7	2.2	6.5	2.7	-.5	2.9
Italy	12.8	6.2	5.9	4.7	5.1	6.1	4.0	3.0
United Kingdom	4.8	4.5	5.1	3.6	8.7	5.8	3.6	5.9
West Germany	9.5	4.6	6.2	4.9	9.6	6.4	1.2	2.3
Import volume								
United States	8.7	2.5	6.6	7.7	24.1	5.8	13.5	5.6
Canada	7.9	9.2	3.2	3.4	20.6	9.8	8.0	9.0
Japan	14.7	3.9	6.2	1.7	10.8	-.1	9.7	9.1
France	10.9	6.2	8.8	.9	1.6	4.7	7.4	8.1
Italy	11.0	.7	7.5	1.0	7.4	8.2	7.7	10.9
United Kingdom	4.4	3.9	3.4	4.4	9.5	3.6	6.6	7.8
West Germany	10.3	3.5	6.4	1.9	5.5	4.6	6.0	5.0

^a Growth rates were derived from unrounded data.

Table 30
Big Seven: Unemployment Rates ^a

Percent

	1960	1970	1975	1980	1983	1984	1985	1986	1987
United States	5.5	4.9	8.5	7.1	9.4	7.4	7.1	6.9	6.1
Canada	7.0	5.7	6.9	7.5	11.9	11.3	10.5	9.6	8.9
France	1.8	2.6	4.3	6.2	8.6	9.8	10.2	1.0	10.7
Italy ^b	3.8	3.1	3.2	3.8	5.0	5.0	5.2	5.6	6.0
Japan	1.7	1.2	1.9	2.0	2.7	2.7	2.6	2.8	2.8
United Kingdom ^c	2.2	3.1	4.1	6.5	10.7	11.1	11.3	11.5	10.3
West Germany	1.1	.6	4.1	4.0	9.2	9.1	9.3	8.9	8.9

^a Unemployment as a share of total civilian labor force.

^b Data adjusted to US concepts.

^c Excluding Northern Ireland.

Table 31
Big Seven: Personal Savings Rates ^a

Percent

	1960	1970	1975	1980	1983	1984	1985	1986	1987
United States	6.2	8.3	9.4	7.3	5.5	6.3	4.6	4.5	3.9
Canada	3.9	5.6	12.7	13.6	14.8	15.0	14.1	11.7	9.4
France	15.2	18.2	20.2	17.6	15.9	14.6	13.8	14.0	13.0
Italy ^b	22.1	30.6	30.6	28.0	24.7	24.6	24.2	24.4	23.5
Japan	17.4	18.2	22.8	17.9	16.3	16.0	16.0	16.4	16.5
United Kingdom	6.6	9.4	12.3	14.2	10.6	10.7	9.3	7.4	5.6
West Germany	8.6	5.6	15.1	12.8	10.9	11.4	11.5	12.2	12.2

^a Savings as a share of disposable personal income.

^b Data adjusted to US concepts.

Declassified and Approved For Release 2012/09/07 : CIA-RDP89T01437R000100140006-0
Soviet Economic Performance

To circumvent problems with official Soviet measures of economic growth, CIA constructs synthetic estimates of gross national product (GNP) and its major components. Total GNP covers value added by primary inputs of labor and capital in sectors of origin, such as industry and agriculture. Unlike Soviet statistics, CIA estimates of GNP:

- Avoid much of the hidden inflation problem by using quantity data—mostly from Soviet sources—on output of individual products, valued at prices of a fixed base year.
- Include depreciation and services that do not contribute directly to output of material goods.
- Provide improved measures of resource allocation and of growth in the economy's production potential by adjusting valuation from official prices to factor cost.

CIA estimates for industry, like those of GNP, are corrected for hidden inflation in Soviet measures. Moreover, value-added weights for these estimates eliminate much of the double counting—present in official statistics on gross value of output—of inputs sold from one producer to another.

CIA estimates for agriculture, net output, exclude agriculture's use of its own products as inputs but includes inputs from industry and other sectors. For estimating value added, inputs from industry and other sectors are also subtracted. Soviet statistics on gross values of output reflect a good deal of double counting within agriculture, but hidden inflation is not a significant problem.

All GNP estimates in this edition of the *Handbook* are based on values at 1982 factor cost.

Table 32
USSR: Growth of Gross National Product, ^a by Sector of Origin

Percent

	Average annual rate of growth									
	1961-65	1966-70	1971-75	1976-80	1981-85	1983	1984	1985	1986	1987 ^b
GNP	4.8	5.0	3.1	2.2	1.8	3.3	1.4	0.7	3.9	0.5
Agriculture ^c	3.6	3.7	-6	.8	2.1	6.5	-.5	-1.6	8.2	-3.1
Industry	6.5	6.3	5.4	2.6	1.8	2.5	2.5	1.8	2.6	1.5
Construction	4.7	5.4	5.6	2.5	2.2	3.0	2.0	2.1	3.8	2.0
Transportation	10.2	7.2	6.6	3.6	2.3	2.8	1.5	2.1	3.0	2.0
Communications	7.3	8.6	6.4	4.7	3.8	3.5	4.7	4.6	5.6	6.0
Trade	4.8	7.1	4.7	2.8	1.7	2.7	2.6	1.1	.3	1.5
Services	4.4	4.3	3.4	2.7	2.2	2.2	2.4	2.3	2.3	2.9
Other ^d	2.6	4.0	4.1	1.7	.7	1.0	.5	.1	1.4	.1

^a Calculated at factor costs in 1982 prices.

^b Preliminary.

^c Excluding intra-agricultural use of farm products but does not make an adjustment for purchases by agriculture from other sectors.

^d Including salaries for military personnel.

Table 33**USSR: Share of Gross National Product, ^a by Sector of Origin**

Percent

	1960	1965	1970	1975	1980	1983	1984	1985	1986	1987 ^b
GNP	100	100	100	100	100	100	100	100	100	100
Agriculture	34	31	29	22	20	21	20	19	20	19
Industry	26	28	30	33	34	33	34	34	34	34
Construction	7	7	7	8	8	8	8	8	8	8
Transportation	5	7	8	9	10	10	10	10	10	10
Communications	1	1	1	1	1	1	1	1	1	0
Trade	5	5	6	6	7	7	7	7	6	6
Services	19	18	18	18	18	18	19	19	19	19
Other ^c	3	3	3	3	3	2	2	2	2	2

^a Calculated at factor costs in 1982 prices.^b Preliminary.^c Including salaries for military personnel.**Table 34****USSR: Growth of Gross National Product at Factor Cost, by End Use ^a**

Percent

	Average annual rate of growth					1983	1984	1985	1986	1987 ^b
	1961-65	1966-70	1971-75	1976-80	1981-85					
Total	4.8	5.0	3.1	2.2	1.8	3.3	1.4	0.7	3.9	0.5
Consumption ^c	3.7	5.3	3.5	2.5	2.0	2.4	3.0	2.1	1.7	2.6
Investment ^d	7.5	5.5	5.0	4.0	3.2	4.6	1.1	3.0	5.7	2.1
New Fixed ^e	7.1	6.0	4.5	3.6	3.5	4.9	1.3	2.9	6.5	1.3
Administration, R&D, elements of defense, inventory change, net exports, and outlays n.e.c.	4.8	4.0	-3	-1.4	-1.6	3.6	-3.2	-8.8	8.3	-10.7

^a Because of the well-known difficulties in using Soviet established prices as a measure of resource burden, the shares of GNP in this table are based on GNP at factor cost. In calculating GNP at factor cost, 1982 end-use weights have been revised from an established price basis to a factor cost basis by subtracting turnover taxes and profits and adding subsidies and implicit capital charges. These revised

weights are then moved over time by indexes of the various end uses in constant prices.

^b Preliminary.

^c Including consumption of food, soft goods, durables, personal services, and personal and government outlays for education and health.

^d Including machinery and equipment, capital repair, construction and other capital outlays, and net additions to livestock.

^e Total investment less capital repair.

Table 35
USSR: Percent Distribution of Gross National Product at Factor Cost, ^a by End Use

Percent

	1960	1970	1975	1980	1983	1984	1985	1986	1987 ^b
Total	100	100	100	100	100	100	100	100	100
Consumption ^c	54	51	53	53	52	53	54	53	54
Investment ^d	22	25	28	30	32	32	32	33	33
New Fixed ^e	17	20	22	23	25	25	25	26	26
Administration, R&D, elements of defense, inventory change, net exports, and outlays n.e.c.	24	24	19	17	16	15	14	14	13

^a Because of the well-known difficulties in using Soviet established prices as a measure of resource burden, the shares of GNP in this table are based on GNP at factor cost. In calculating GNP at factor cost, 1982 end-use weights have been revised from an established price basis to a factor cost basis by subtracting turnover taxes and profits and adding subsidies and implicit capital charges. These revised

weights are then moved over time by indexes of the various end uses in constant prices.
^b Preliminary.
^c Including consumption of food, soft goods, durables, personal services, and personal and government outlays for education and health.

^d Including machinery and equipment, capital repair, construction and other capital outlays, and net additions to livestock.

^e Total investment less capital repair.

A useful starting point for analyzing the 1986-90 plan for the USSR is to compare it with earlier five-year plans and results. If official Soviet measures of actual growth are used in such comparisons, however, the extent of plan fulfillment is exaggerated. These measures are subject to upward bias because of hidden inflation and double counting—problems that appear not to affect plan figures.¹ CIA estimates of Soviet economic growth correct for this upward bias and, therefore, are

better suited than official statistics for comparisons with planned growth.

¹ For discussion of these problems, see Joint Economic Committee, Congress of the United States, *USSR: Measures of Economic Growth and Development, 1950-80* (Washington, US Government Printing Office, 1982), pp.v-vi, 12-13, 212-215, 278-281; and CIA, *Comparing Planned and Actual Growth of Industrial Output in Centrally Planned Economies*, ER 80-10461, August 1980.

Table 36
USSR: Planned and Actual Economic Growth ^a

Percent

	Average annual rate of growth				
	1966-70	1971-75	1976-80	1981-85	1986-90
GNP					
Plan ^a	6.5 to 7.0	5.8	5.0	4.0	4.0
Actual ^b	5.0	3.1	2.2	1.8	NA
Industry					
Plan ^c	8.2	8.0	6.5	4.9	4.6
Actual ^b	6.3	5.4	2.6	1.8	1.0
Agriculture					
Plan ^c	5.5	3.7	5.0	5.0	3.3
Actual ^d	3.7	-6	.8	2.1	1.0

^a Weighted average of growth rates of gross value of output from official Soviet plans for industry, agriculture, and other

major sectors of origin. Weights are CIA estimates of value added at 1982 factor cost in these sectors.

^b CIA estimate based on value added at 1982 factor cost.

^c Official Soviet plan for growth of gross value of output.

^d CIA estimate of output net of feed, seed, and waste (1982 value).

Table 37
USSR: Aggregate Factor Productivity

Percent

	Average annual rate of growth									
	1961-65	1966-70	1971-75	1976-80	1981-85	1983	1984	1985	1986	1987 ^a
Gross national product ^b	4.8	5.0	3.1	2.2	1.8	3.3	1.4	0.7	3.9	0.5
Factor productivity	.3	.8	-1.2	-1.3	-1.1	.2	-1.4	-1.9	1.4	-1.9
Manhours	3.2	3.0	1.3	1.0	1.1	2.5	.9	.4	3.5	.1
Capital	-3.7	-2.2	-4.6	-4.4	-4.1	-2.9	-4.6	-4.8	-1.4	-4.6
Land	4.6	5.0	3.0	2.4	2.0	3.2	1.6	1.4	4.0	.5
Combined inputs ^c	4.5	4.2	4.3	3.6	3.0	3.0	2.9	2.6	2.5	2.5
Manhours	1.5	2.0	1.7	1.2	.7	.7	.5	.4	.4	.5
Capital	8.8	7.4	8.0	6.9	6.2	6.3	6.3	5.8	5.4	5.3
Land	.2	NEGL	.1	-.1	-.2	.1	-.1	-.7	-.1	NEGL

^a Preliminary.^b Based on indexes of GNP (1982 rubles), by sector of origin, at factor cost.^c Inputs of workhours, capital, and land are combined using weights of 56.5 percent, 40.5 percent, 3.0 percent, respectively, in a Cobb-Douglas (linear homogeneous) production

function. These weights represent the distribution of labor costs (wages, social insurance deductions and other income), capital costs (depreciation and a calculated capital charge), and land rent in 1982, the base year for all indexes underlying the growth rate calculations.

Table 38
USSR: Industrial Factor Productivity

Percent

	Average annual rate of growth									
	1961-65	1966-70	1971-75	1976-80	1981-85	1983	1984	1985	1986	1987 ^a
Industrial production	6.5	6.3	5.4	2.6	1.8	2.5	2.5	1.8	2.6	1.5
Factor productivity	-1.0	.1	-.1	-2.1	-2.3	-1.4	-1.4	-1.9	-.8	-1.4
Manhours	3.5	3.1	3.9	1.3	1.2	2.1	2.0	1.4	2.3	1.7
Capital	-4.4	-2.3	-3.1	-4.7	-4.9	-4.1	-4.0	-4.5	-3.1	-3.7
Combined inputs ^b	7.6	6.2	5.5	4.9	4.1	4.0	4.0	3.9	3.4	2.9
Manhours	2.9	3.1	1.5	1.4	.6	.4	.5	.4	.3	-.2
Capital	11.4	8.8	8.7	7.7	7.0	6.9	6.8	6.6	6.0	5.5

^a Preliminary.^b Inputs of workhours and capital are combined using weights of 42.6 percent and 57.4 percent, respectively, in a Cobb-Douglas (linear homogeneous) production function. These weights represent the distribution of labor costs

(wages, social insurance deductions and other income) and capital costs (depreciation and a calculated capital charge) in 1982, the base year for all indexes underlying the growth rate calculations.

Table 39
USSR: Industrial Production,
by Branch of Industry ^a

Percent

	Average annual rate of growth									
	1961-65	1966-70	1971-75	1976-80	1981-85	1983	1984	1985	1986	1987 ^b
Industrial materials	7.0	5.9	5.4	2.2	2.2	3.2	2.4	2.0	3.8	2.8
Electricity	11.5	7.9	7.0	4.5	3.6	3.7	5.2	3.5	3.5	4.1
Fuels	6.7	5.3	5.2	3.1	.9	1.1	.6	NEGL	3.5	2.5
Ferrous metals	7.4	5.3	4.0	1.0	.8	2.9	1.0	.7	3.4	2.2
Nonferrous metals	8.0	7.8	5.7	1.5	2.0	3.0	3.0	3.0	3.0	1.9
Wood, pulp, and paper products	2.5	2.8	2.5	-6	2.1	3.0	2.8	2.1	4.6	2.0
Construction materials	5.6	6.1	5.1	1.4	1.4	3.5	1.7	1.4	3.9	3.1
Chemicals	11.7	8.3	8.3	3.0	3.8	5.8	3.2	4.1	4.6	3.2
Total machinery	7.0	7.1	6.6	3.7	1.3	1.6	2.7	2.3	2.8	NEGL
Producer durables	8.5	7.6	8.7	4.6	3.7	3.7	3.5	3.3	3.4	.3
Consumer durables	9.6	8.9	13.0	3.9	3.2	2.8	3.7	3.8	3.4	-2.1
Nondurable consumer goods	4.8	6.0	3.4	1.9	1.7	2.4	2.5	.2	-1.9	.9
Soft goods	2.7	6.4	2.6	2.4	1.6	1.2	2.8	2.4	1.5	1.8
Processed foods	7.0	5.9	4.1	1.4	1.9	3.4	2.1	-1.7	-4.9	NEGL
Total industrial production	6.5	6.3	5.4	2.6	1.8	2.5	2.5	1.8	2.6	1.5

^a Based on CIA estimates rather than Soviet official series. The latter are believed to contain an upward bias in rates of growth because of double-counting and disguised inflation. The branch indexes shown above are formed by combining price-weighted samples of products into sector indexes, which in turn are combined into branch indexes using 1982

value-added weights. The indexes for industrial materials, consumer nondurables, and total industrial production are formed by combining the component branch indexes using 1982 value-added weights.

^b Preliminary.

Table 40
USSR: Growth of Per Capita Consumption ^a

Percent

	Average Annual Rate of Growth					1983	1984	1985	1986	1987 ^b
	1961-65	1966-70	1971-75	1976-80						
Total	2.5	5.0	3.0	2.0	1.3	2.1	0.1	-1.6	0.7	
Food	1.8	4.2	2.1	1.1	1.4	1.5	-3.2	-8.0	-9	
Soft goods	2.2	7.2	2.7	2.8	.6	2.4	3.2	2.3	.6	
Durables	3.9	9.5	9.7	5.4	1.7	4.6	5.2	10.6	2.8	
Services	4.6	4.1	3.0	2.0	1.4	1.9	1.8	1.6	2.7	
Housing	2.4	2.0	1.6	1.2	1.9	1.6	1.6	1.7	1.9	
Utilities	7.8	5.4	5.3	3.8	3.2	4.1	3.3	3.0	3.1	
Transportation	9.0	8.2	6.4	2.2	1.4	1.6	1.4	2.2	1.1	
Communications	5.7	7.8	5.4	3.8	2.5	3.7	3.7	4.6	4.9	
Repair and Personal Care	5.0	6.4	4.4	4.1	3.5	3.1	3.5	3.1	8.2	
Recreation	3.6	2.6	4.1	1.2	.5	1.0	1.1	.2	2.0	
Health	2.2	3.2	1.6	.9	1.0	1.3	.8	-.5	.2	
Education	5.2	3.0	1.5	1.4	-.1	1.0	1.2	1.1	1.5	

^a Based on 1982 established prices.

^b Preliminary.

Table 41
USSR: Per Capita Statistics on Selected Consumer Items

	1965	1970	1975	1980	1982	1983	1984	1985	1986	1987
<i>Food (kilograms)</i>										
Meat ^a	37.0	44.0	52.0	53.0	53.0	54.0	56.0	57.0	58.0	58.0
Milk and milk products	251.0	307.0	316.0	314.0	295.0	309.0	317.0	325.0	333.0	343.0
Vegetables	72.0	82.0	89.0	97.0	101.0	101.0	103.0	102.0	102.0	100.0
Fruit and berries	28.0	35.0	39.0	38.0	42.0	44.0	45.0	48.0	56.0	52.0
Eggs (<i>units</i>)	124.0	159.0	216.0	239.0	249.0	253.0	256.0	260.0	268.0	270.0
Vegetable oil	7.1	6.8	7.6	8.8	9.3	9.6	9.6	9.7	9.8	10.0
<i>Housing ^b (square meters)</i>										
Urban	10.0	11.0	12.0	13.1	13.5	13.7	13.9	14.1	14.3	14.2
Rural	NA	NA	NA	13.9	14.7	15.0	15.3	15.6	16.1	16.5

^a Meat is on a carcass-weight basis and includes edible offals. Soviet official meat consumption numbers are adjusted to exclude slaughter fat.

^b Housing supply is defined as useful housing space which excludes common and storage areas in residential structures.

Table 42
Commodity Comparisons: US and USSR

	1960	1970	1975	1980	1983	1984	1985	1986	1987
<i>Primary energy (million b/d oil equivalent)</i>									
US	21.1	30.8	30.2	32.6	30.8	33.0	32.7	32.4	32.5
USSR	9.3	17.1	21.9	26.7	29.2	30.2	30.2	31.5	32.6
<i>Crude oil (million b/d)</i>									
US	7.1	9.6	8.4	8.6	8.7	8.7	8.9	8.7	8.3
USSR	2.9	7.0	9.6	11.7	11.9	11.7	11.3	11.8	11.9
<i>Natural gas (trillion cubic feet)</i>									
US	12.8	21.9	20.1	20.2	16.8	18.2	17.2	16.8	17.1
USSR	1.6	7.0	10.2	15.4	18.9	20.7	22.7	24.2	25.7
<i>Hard coal (million metric tons)</i>									
US	391.5	550.4	576.2	710.4	656.6	750.3	735.9	738.9	760.1
USSR	355.9	432.7	485.0	493.0	487.0	484.0	592.5	513.0	517.0
<i>Electricity (billion kilowatt-hours)</i>									
US	893.7	1,742.7	2,131.1	2,437.8	2,459.2	2,574.1	2,634.6	2,652.7	2,747.0
USSR	292.3	740.9	1,038.6	1,293.9	1,418.1	1,492.1	1,544.2	1,598.9	1,665.0
<i>Grain (million metric tons) ^a</i>									
US	181.3	186.7	249.2	269.7	207.5	314.6	347.0	316.0	281.1
USSR	125.5	186.8	140.1	189.1	192.2	172.6	191.7	210.1	211.4
<i>Wheat (million metric tons) ^a</i>									
US	36.9	36.8	57.9	64.6	65.9	70.6	66.0	56.9	57.3
USSR	64.3	99.7	66.2	98.2	77.5	68.6	78.1	92.3	83.3
<i>Coarse grain (million metric tons) ^a</i>									
US	141.9	146.1	185.5	198.4	137.1	237.7	274.9	252.9	218.0
USSR	61.0	85.8	71.9	88.1	112.1	101.3	111.0	115.1	125.7
<i>Rice (million metric tons)</i>									
US	2.5	3.8	5.8	6.6	4.5	6.3	6.1	6.1	5.9
USSR	.2	1.3	2.0	2.8	2.6	2.7	2.6	2.6	2.7
<i>Potatoes (million metric tons)</i>									
US	11.7	14.8	14.6	13.7	15.1	16.4	18.5	16.0	16.2
USSR	84.4	96.8	88.7	67.0	82.9	85.5	73.0	87.2	75.9
<i>Sugar (million metric tons)</i>									
US	3.6	5.3	6.0	5.3	5.2	5.3	5.5	6.1	6.6
USSR	6.9	11.1	11.3	11.0	13.5	13.5	12.8	13.8	14.9

Table 42 (continued)
Commodity Comparisons: US and USSR

	1960	1970	1975	1980	1983	1984	1985	1986	1987
<i>Fish catch (million metric tons)</i>									
US	2.8	2.8	2.8	3.6	4.3	4.8	4.8	4.6	NA
USSR	3.5	7.8	10.4	9.5	9.9	10.6	10.7	11.4	11.2
<i>Cattle (million head)</i>									
US	96.2	112.4	132.0	111.2	115.0	113.7	109.8	105.5	102.0
USSR	74.2	95.2	109.1	115.1	117.2	119.6	121.1	120.9	122.1
<i>Hogs (million head)</i>									
US	59.0	57.0	54.7	67.3	54.5	56.7	54.1	52.3	51.0
USSR	53.4	56.1	72.3	73.9	76.7	78.7	77.9	77.8	79.5
<i>Meat (million metric tons)</i>									
US	12.8	22.5	23.0	24.2	25.0	25.3	25.8	26.1	26.5
USSR	8.7	12.3	15.0	15.1	16.4	17.0	17.1	18.1	18.6
<i>Milk (million metric tons)</i>									
US	53.7	53.3	52.3	58.3	63.4	61.4	64.9	65.4	64.6
USSR	61.7	83.0	90.8	90.9	96.5	97.9	98.6	102.2	103.4
<i>Soybean (million metric tons)</i>									
US	15.1	30.7	42.1	48.9	44.5	50.6	57.1	52.8	51.8
USSR	.2	.6	.8	.5	.6	.5	.5	.6	.6
<i>Wool (thousand metric tons)</i>									
US	146.2	85.0	54.2	47.8	45.0	43.0	40.0	38.0	39.0
USSR	356.8	418.9	449.6	443.0	462.4	465.3	446.6	469.0	455.0
<i>Ginned cotton (million metric tons)</i>									
US	3.1	2.2	1.8	2.4	1.7	2.8	2.9	2.1	2.8
USSR	1.5	2.3	2.5	3.0	2.6	2.6	2.8	2.6	2.6
<i>Chemical fertilizer consumption (kg/ha of arable land)</i>									
US	38.9	80.9	90.0	112.7	104.5	103.8	94.1	92.1	NA
USSR	11.2	44.3	74.3	80.9	98.7	99.1	108.9	113.7	NA
<i>Nitrogen fertilizer consumption (million metric tons of N)</i>									
US	2.7	7.4	9.4	10.8	10.1	10.4	9.5	9.4	NA
USSR	.8	4.6	7.3	8.3	10.3	10.3	10.9	11.5	11.8
<i>Phosphate fertilizer consumption (million metric tons of P₂O₅)</i>									
US	2.5	4.4	4.7	4.9	4.4	4.2	3.8	3.6	NA
USSR	1.1	3.1	4.7	5.6	6.5	6.6	7.6	8.4	8.6

Table 42 (continued)
Commodity Comparisons: US and USSR

	1960	1970	1975	1980	1983	1984	1985	1986	1987
<i>Potassium fertilizer consumption (million metric tons of K₂O)</i>									
US	2.0	3.8	4.7	5.7	5.3	5.0	4.6	4.4	NA
USSR	.8	2.6	5.2	4.9	6.2	6.2	6.8	6.7	7.0
<i>Grain yields (thousand kilograms per hectare)</i>									
US	2.5	3.2	3.5	3.8	3.5	4.4	4.8	4.7	4.8
USSR	1.1	1.6	1.1	1.5	1.6	1.4	1.6	1.8	1.8
<i>Iron ore (million metric tons)</i>									
US	90.2	91.2	80.1	70.7	38.2	52.1	49.5	39.4	45.0
USSR	105.9	197.1	234.7	244.7	245.2	247.1	248.0	250.0	251.0
<i>Tungsten ore (thousand metric tons)</i>									
US	3.2	4.2	2.5	2.7	1.0	1.2	1.0	.8	NEGL
USSR	5.4	6.9	8.1	9.2	9.1	9.1	9.2	9.2	9.2
<i>Bauxite (million metric tons)</i>									
US	2.0	2.1	1.8	1.6	.7	.7	.7	.5	.5
USSR	3.1	6.7	8.0	9.1	7.7	7.7	7.7	7.7	7.7
<i>Pig iron (million metric tons)</i>									
US	62.2	82.8	72.3	62.3	44.2	47.1	45.3	39.8	43.6
USSR	46.8	85.9	103.0	107.3	110.5	110.9	110.0	113.8	114.3
<i>Crude steel (million metric tons)</i>									
US	90.1	119.3	105.8	101.5	76.8	83.9	80.1	74.0	81.0
USSR	65.3	115.9	141.3	147.9	152.5	154.2	155.0	161.0	162.0
<i>Rolled steel (million metric tons)</i>									
US	69.3	82.4	72.5	76.1	61.3	66.9	66.3	63.5	65.0
USSR	43.7	80.6	98.7	102.9	106.4	107.3	108.3	114.0	114.0
<i>Refined nickel (thousand metric tons)</i>									
US	12.9	14.0	20.1	40.1	30.3	40.8	33.0	1.5	.0
USSR	72.0	137.0	210.0	229.0	260.0	268.0	198.0	215.0	217.0
<i>Refined copper (million metric tons)</i>									
US	1.6	2.1	1.6	1.7	1.6	1.5	1.4	1.5	1.6
USSR	.3	.6	.8	.9	.9	.9	1.0	1.0	1.0
<i>Primary aluminum (million metric tons)</i>									
US	1.8	3.6	3.5	4.7	3.4	4.1	3.5	3.0	3.3
USSR	.6	1.6	2.3	2.7	2.8	2.9	2.9	3.0	3.0

Table 42 (continued)
Commodity Comparisons: US and USSR

	1960	1970	1975	1980	1983	1984	1985	1986	1987
<i>Smelter lead (thousand metric tons)</i>									
US	347.0	605.0	577.0	550.0	515.0	397.0	487.0	366.0	366.0
USSR	300.0	470.0	540.0	560.0	490.0	495.0	500.0	500.0	500.0
<i>Refined zinc (thousand metric tons)</i>									
US	788.0	866.0	450.0	370.0	305.0	331.0	334.0	316.0	353.0
USSR	360.0	690.0	820.0	820.0	870.0	900.0	900.0	900.0	910.0
<i>Titanium sponge metal (thousand metric tons)</i>									
US	4.8	14.0	14.4	20.4	12.7	22.1	21.1	15.8	17.8
USSR	6.0	40.0	57.0	68.0	71.0	71.0	71.0	72.0	72.0
<i>Primary tin (thousand metric tons)</i>									
US	13.7	4.5	6.5	3.0	2.5	4.0	3.0	3.2	3.9
USSR	10.6	21.0	25.0	32.5	24.0	25.0	25.0	26.0	27.0
<i>Primary magnesium (thousand metric tons)</i>									
US	36.0	102.0	109.0	154.0	105.0	144.0	136.0	126.0	124.0
USSR	25.0	80.0	98.0	104.0	83.0	85.0	87.0	89.0	90.0
<i>Gold (million troy ounces)</i>									
US	1.7	1.7	1.0	1.0	2.0	2.1	2.4	3.7	5.0
USSR	3.6	6.8	8.1	9.4	9.9	10.1	10.3	10.5	10.6
<i>Platinum-group metals (thousand troy ounces)</i>									
US	24.0	17.0	19.0	3.0	6.0	15.0	NA	NA	NA
USSR	1,000.0	2,500.0	3,300.0	3,700.0	3,600.0	3,700.0	3,800.0	3,850.0	3,900.0
<i>Molybdenum (thousand metric tons)</i>									
US	31.0	50.5	48.1	68.4	15.4	47.0	49.2	40.7	31.7
USSR	4.8	9.5	10.5	12.0	11.1	11.2	11.3	11.4	11.4
<i>Caustic soda (million metric tons)</i>									
US	4.5	9.2	8.7	10.5	9.1	9.9	9.9	9.7	10.4
USSR	.7	1.8	2.4	2.8	2.9	3.0	3.1	3.2	3.3
<i>Synthetic ammonia (million metric tons of N)</i>									
US	3.6 ^b	10.3	12.2	14.7	10.5	12.5	12.9	10.8	12.1
USSR	1.1	6.3	9.9	13.8	16.9	17.7	18.2	19.6	20.5
<i>Sulfuric acid (million metric tons)</i>									
US	16.2	26.8	29.4	40.1	34.0	38.0	36.0	32.4	35.2
USSR	5.4	12.1	18.6	23.0	24.7	25.3	26.0	27.8	28.5

Table 42 (continued)
Commodity Comparisons: US and USSR

	1960	1970	1975	1980	1983	1984	1985	1986	1987
<i>Plastic (million metric tons)</i>									
US	2.8	9.7	10.2	12.8	14.7	16.0	16.6	17.4	19.0
USSR	.3	1.7	2.8	3.6	4.4	4.8	5.0	5.3	5.5
<i>Synthetic rubber (million metric tons)</i>									
US	1.5	2.2	2.0	2.2	2.0	2.2	2.0	2.0	2.1
USSR	.4	1.0	1.7	2.0	2.0	2.1	2.1	2.3	2.4
<i>Synthetic fibers (million metric tons)</i>									
US	.3	1.6	2.7	3.6	3.4	3.4	3.4	3.6	3.8
USSR	NEGL	.2	.4	.6	.7	.7	.8	.9	.9
<i>Electric generators (million kilowatts)</i>									
US	12.9	27.6	30.5	21.1	12.2	11.0	7.3	2.3	NA
USSR	7.9	10.6	17.1	16.1	12.6	13.7	12.3	14.9	12.8
<i>Turbines (million kilowatts)</i>									
US	12.9	27.6	30.5	21.1	12.2	11.0	7.3	2.3	NA
USSR	9.2	16.2	18.9	19.6	15.5	21.3	21.6	20.9	22.5
<i>Housing (million square meters)</i>									
US	145.4	152.3	159.0	182.3	171.6	201.0	207.9	219.1	223.9
USSR	109.6	106.0	109.9	105.0	112.4	112.5	113.0	119.8	129.3
<i>Metalcutting machine tool (thousand units)</i>									
US	42.9	49.3	64.3	61.4	35.4	34.4	33.8	35.0	25.9
USSR	155.9	202.2	231.3	216.0	190.0	188.0	182.0	164.0	155.0
<i>Metalforming machine tool (thousand units)</i>									
US	19.3	24.2	26.8	30.3	31.5	34.1	17.8	38.3	16.5
USSR	29.9	41.3	50.5	57.2	57.4	55.3	52.7	51.6	46.1
<i>Grain combines (thousand units)</i>									
US	30.2	21.0	31.3	28.5	13.7	11.3	7.0	8.3	NA
USSR	59.0	99.2	97.5	117.0	118.0	118.0	112.0	112.0	96.2
<i>Tractors (thousand units)</i>									
US	178.5	191.7	232.0	155.4	51.9	57.4	38.4	NA	NA
USSR	238.5	458.5	550.4	555.0	564.0	571.0	585.0	595.0	568.8
<i>Passenger automobiles (million units)</i>									
US	6.7	6.5	6.7	6.4	6.7	7.6	8.0	7.5	7.1
USSR	.1	.3	1.2	1.3	1.3	1.3	1.3	1.3	1.3

Table 42 (continued)
Commodity Comparisons: US and USSR

	1960	1970	1975	1980	1983	1984	1985	1986	1987
Trucks and buses (million units)									
US	1.2	1.7	2.3	1.7	2.4	3.1	3.4	3.4	3.8
USSR	.4	.6	.8	.9	.9	.9	.9	.9	NA
Railroad freight cars (thousand units)									
US	57.3	66.2	72.4	85.9	5.8	12.4	12.1	11.5	13.2
USSR	36.4	58.3	69.9	63.0	58.4	58.6	58.7	NA	NA
Rubber tires (million units)									
US	123.1	194.0	192.0	159.3	186.9	209.4	196.9	190.3	203.7
USSR	17.2	34.6	51.5	60.1	62.0	63.7	65.2	66.0	67.8
Cement (million metric tons)									
US	56.1	67.4	61.8	68.2	63.9	70.5	70.7	71.5	71.0
USSR	45.5	95.3	122.1	125.0	128.2	130.0	131.0	135.0	137.0
Newsprint (million metric tons)									
US	1.8	3.0	3.2	4.2	4.7	5.0	4.9	5.1	5.3
USSR	.4	1.1	1.4	1.5	1.5	1.5	1.6	1.6	1.7
Plywood (million cubic meters)									
US	7.9	14.1	14.6	14.9	17.1	18.0	18.9	17.6	18.7
USSR	1.4	2.0	2.2	2.0	2.1	2.1	2.2	2.3	2.3

^a Gross output measured in bunker weight. See Tables 102-104 for a definition of the data series.

^b Data are for 1961.

Table 43
USSR: Hard Currency Balance of Payments ^a

Million US \$

	1960	1970	1975	1980	1983	1984	1985	1986	1987 ^b
Trade Balance	-250	-306	-4,804	1,814	4,712	4,727	519	2,013	5,999
Exports, f.o.b. ^c	768	2,405	9,453	27,874	32,429	32,173	26,400	25,111	28,908
Imports, f.o.b.	1,018	2,711	14,257	26,060	27,717	27,446	25,881	23,098	22,909
Net interest	-5	-80	-521	-1,219	-1,040	-1,163	-1,482	-1,740	-2,235
Other invisibles ^d	-65	500	760	890	1,100	1,100	1,100	1,100	1,100
Current account balance	-320	114	-4,565	1,485	4,772	4,664	137	1,373	4,864
Change in gross debt ^e	90	290	6,786	-1,072	116	224	6,803	7,175	5,000
Change in assets ^f	0	25	-163	-35	277	-664	1,787	1,635	0
Estimated exchange rate effect on debts and assets	NA	NA	-22	-411	-1,070	-688	3,248	3,322	3,500
Net Credits to LDCs	NA	NA	715	950	3,200	2,700	1,700	4,100	4,800
Gold sales	200	0	725	1,580	750	1,000	1,800	4,000	3,500
Capital account balance	290	265	6,981	4	-1,541	-124	1,868	2,118	200
Errors and omissions ^g	30	-379	-2,416	-1,489	-3,231	-4,540	-2,005	-3,491	-5,064

^a Estimated.^b Preliminary.^c Including military exports to the LDCs.^d Including estimated net receipts from tourism, transportation, and official transfers.^e Including additions to short-term debt.^f Net change in Soviet assets held with Western commercial banks. A minus sign indicates an decrease in assets.^g Including Soviet hard currency aid to and trade with other Communist countries, trade credits extended to finance Soviet exports to developed countries, and other nonspecified hard currency expenditures, as well as errors and omissions in other line items of the accounts.

Table 44
USSR: Hard Currency Trade, by Commodity ^a

	<i>Million US \$</i>					<i>Share of Total to the World ^b</i>				
	1970	1975	1980	1985	1986	1970	1975	1980	1985	1986
Exports	2,405	9,453	27,874	26,400	25,111	19	28	31	30	30
Petroleum and petroleum products	387	3,170	12,123	11,471	7,001	26	39	44	34	22
Natural gas	1	220	2,710	3,813	3,638	2	34	48	41	35
Coal and coke	92	390	366	278	355	23	28	22	15	16
Machinery and equipment	140	560	1,468	1,475	1,662	5	9	12	12	11
Ferrous metals	128	155	246	288	408	9	6	7	8	9
Wood and wood products	365	714	1,510	711	1,037	44	37	49	27	32
Chemicals	61	242	758	1,024	791	18	26	37	36	29
Agricultural products	167	522	458	182	274	12	22	17	8	11
Diamonds	175	478	1,304	NA	NA	NA	NA	NA	NA	NA
Other	889	3,002	6,931	7,158	9,945	21	33	44	11	12
Imports	2,711	14,257	26,060	25,881	23,098	23	38	38	31	26
Grain	101	2,323	4,503	5,253	2,178	75	87	88	88	76
Other agricultural products	512	1,591	4,301	2,872	2,305	24	25	35	25	19
Machinery and equipment	927	4,593	6,039	4,824	6,509	2	37	26	16	18
Rolled ferrous metals ^c	279	2,565	3,481	3,524	3,508	49	80	80	77	70
Chemicals	248	800	1,953	2,265	2,249	50	55	60	60	56
Consumer goods	272	464	767	1,359	1,098	11	9	8	13	9
Other	372	1,921	5,016	5,784	5,251	22	67	82	9	7

^a Including all countries trading with the Soviet Union on a hard currency basis as of 1 January 1987.

^b The importance of hard currency trade is overstated for exports and understated for imports in Soviet statistics

because of the artificial prices the USSR uses in its CEMA country trade.

^c Including imports of pipes.

Table 45
USSR: Hard Currency Trade With Non-Communist
Countries, 1986-87 ^a

Million US \$

	1986			1987		
	Exports ^b	Imports	Balance	Exports ^b	Imports	Balance
Total	25,111	23,098	2,013	28,908	22,909	5,999
Developed countries	16,560	19,275	-2,715	20,032	18,877	1,155
Of which:						
Australia	12	723	-711	20	550	-530
Austria	767	1,210	-443	681	948	-267
Canada	14	886	-872	75	710	-635
France	2,188	1,604	584	2,398	1,723	675
Italy	2,236	2,093	143	2,851	2,665	186
Japan	1,392	3,132	-1,740	1,537	2,573	-1,036
Netherlands	788	348	440	1,235	366	869
Sweden	423	348	75	675	356	319
Switzerland	407	647	-240	544	853	-309
United Kingdom	1,809	731	1,078	2,506	828	1,678
United States	444	1,627	-1,183	441	1,453	-1,012
West Germany	3,863	4,058	-195	3,677	4,155	-478
Less developed countries	8,551	3,823	4,728	8,876	4,032	4,844
Of which:						
Argentina	76	273	-197	64	658	-594
Brazil	43	336	-293	72	398	-326
Iraq	416	491	-75	512	1,246	-734
Libya	50	988	-938	24	403	-379

^a Official Soviet trade data on f.o.b. basis.

^b Includes exports not specified by partner countries, which are believed to be deliveries of military goods.

Table 46*Billion US \$***USSR: Hard Currency Debt to the West ^a**

	1971	1975	1980	1982	1983	1984	1985	1986	1987 ^b
Commercial debt	0.4	8.2	11.0	12.8	12.6	13.2	19.5	25.6	28.7
Government-backed debt	1.4	4.3	9.5	9.1	9.4	9.1	9.5	10.6	12.5
Gross debt	1.8	12.5	20.5	21.9	22.0	22.3	29.0	36.2	41.2
Assets with Western banks	1.2	3.8	10.0	11.9	12.2	11.5	13.3	15.0	15.0
Net debt	.6	8.7	10.5	10.0	9.8	10.7	15.7	21.2	26.2
Debt service	.3	1.7	6.0	5.3	5.6	5.6	7.2	7.9	8.8
Debt-service ratio (percent) ^c	10.0	15.0	19.0	15.0	16.0	15.0	23.0	25.0	26.0

^a Estimated.^b Preliminary.^c Debt service as a share of commodity export earnings plus sales of arms, gold, interest receipts, invisibles, and transfers.**Table 47***Million troy ounces***USSR: Gold Production and Reserves**

	Production	Reserves		Production	Reserves
1965	5.33	29.61	1978	9.32	48.68
1969	6.59	46.77	1979	9.58	48.68
1970	6.78	52.21	1980	9.45	54.01
1971	7.07	57.42	1981	9.58	56.14
1972	7.78	58.84	1982	9.77	61.38
1973	7.91	55.65	1983	9.93	67.90
1974	8.26	58.35	1984	10.10	73.56
1975	8.07	60.32	1985	10.32	76.10
1976	8.65	56.97	1986	10.48	73.63
1977	8.94	53.76	1987	10.64	74.56

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Communist Countries: Commodity Data

Table 48
Potato Production*Million metric tons*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
Communist countries									
USSR and Eastern Europe	148.67	169.16	150.67	110.69	135.05	147.21	134.43	150.50	NA
USSR	84.37	96.78	88.70	67.02	82.91	85.52	73.01	87.19	75.91
Eastern Europe	64.30	72.38	61.97	43.67	52.14	61.69	61.42	63.31	NA
Bulgaria	.48	.37	.32	.30	.43	.42	.44	.47	.42
Czechoslovakia	5.09	4.79	3.56	2.70	3.18	3.98	3.45	3.51	3.10
East Germany	14.82	13.05	7.67	9.21	7.06	11.91	12.35	9.96	NA
Hungary	3.00	1.81	1.27	.94	.79	1.55	1.34	1.26	1.04
Poland	37.90	50.30	46.43	26.39	34.47	37.44	36.55	39.00	36.30
Romania	3.01	2.06	2.72	4.13	6.21	6.39	7.29	9.11	NA
Other									
China	NA	NA	NA	139.22	146.25	151.30	130.20	134.81	NA
Cuba ^a	.02	.08	.12	.21	.17	.22	NA	NA	NA
Yugoslavia	3.27	2.96	2.39	2.58	2.59	2.80	2.41	2.52	2.21

^a Data reflect government collections only; the total production is considerably higher.

Table 49
Cattle Numbers ^a*Million head*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
Communist countries									
USSR and Eastern Europe	99.42	123.62	141.52	148.00	149.02	152.11	153.56	153.09	154.01
USSR	74.23	95.16	109.12	115.10	117.20	119.60	121.06	120.90	122.10
Eastern Europe	25.19	28.46	32.40	32.90	31.82	32.51	32.50	32.19	31.91
Bulgaria	1.28	1.26	1.55	1.79	1.82	1.81	1.78	1.71	1.68
Czechoslovakia	4.30	4.22	4.57	4.92	5.13	5.19	5.15	5.07	5.10
East Germany	4.46	5.19	5.58	5.60	5.69	5.77	5.85	5.83	5.72
Hungary	2.00	1.91	1.90	1.92	1.91	1.90	1.77	1.73	1.66
Poland	8.70	10.84	12.82	12.16	11.02	11.09	10.91	10.77	10.52
Romania	4.45	5.04	5.98	6.51	6.25	6.75	7.04	7.08	7.23
Other									
China ^b	79.12	92.28	97.53	94.59	101.13	103.50	108.39	113.82	118.96
Yugoslavia	5.30	5.03	5.81	5.44	5.35	5.34	5.20	5.03	5.03

^a Data are as of the beginning of the year.

^b Cattle, buffalo, horses, donkeys, mules, and camels.

Table 50
Hog Numbers ^a*Million head*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
Communist countries									
USSR and Eastern Europe	92.67	99.53	131.16	137.65	139.79	142.05	141.84	143.49	144.96
USSR	53.44	56.06	72.27	73.90	76.70	78.70	77.91	77.80	79.50
Eastern Europe	39.23	43.47	58.89	63.75	63.09	63.35	63.93	65.69	65.46
Bulgaria	2.27	1.97	3.42	3.83	3.81	3.77	3.73	3.91	4.03
Czechoslovakia	5.69	5.53	6.72	7.59	7.13	7.07	6.74	6.65	6.53
East Germany ^b	8.28	9.24	11.52	12.13	12.11	13.06	13.19	12.95	12.37
Hungary	6.07	7.31	6.95	8.33	9.84	9.24	8.28	8.69	8.20
Poland	12.62	13.45	21.71	20.98	17.56	15.86	17.21	19.17	19.62
Romania	4.30	5.97	8.57	10.89	12.64	14.35	14.78	14.32	14.71
Other									
China	120.42	172.51	260.78	319.71	300.73	293.54	306.79	331.40	336.93
Cuba ^c	NA	.26	.60	.72	.91	1.01	1.04	1.10	1.16
Yugoslavia	6.21	5.54	7.68	7.50	8.37	9.34	8.67	7.82	8.46

^a Data are as of the beginning of the year.^c State sector only.^b As of 30 November of the previous year.**Table 51**
Meat Production ^a*Thousand metric tons*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
Communist countries									
USSR and Eastern Europe ^b	13,940	19,178	24,623	25,619	26,448	27,833	28,252	29,501	NA
USSR	8,682	12,278	14,968	15,073	16,449	16,985	17,131	18,057	18,600
Eastern Europe	5,258	6,900	9,655	10,546	9,999	10,848	11,121	11,444	NA
Bulgaria	307	476	657	781	837	848	843	886	870
Czechoslovakia	802	1,098	1,349	1,499	1,483	1,829	1,834	1,847	1,866
East Germany	1,021	1,348	1,837	1,899	1,873	1,988	2,077	2,145	NA
Hungary	816	1,040	1,422	1,566	1,769	1,846	1,760	1,705	1,782
Poland	1,751	2,081	3,062	3,032	2,407	2,435	2,696	3,015	NA
Romania	561	857	1,328	1,769	1,630	1,902	1,911	1,846	NA
Other									
China ^c	NA	5,965	7,970	12,054	14,021	15,406	17,607	19,183	19,210
Cuba ^d	NA	NA	NA	412	441	463	472	475	470
Yugoslavia ^b	824	1,059	1,329	1,519	1,565	1,708	1,572	1,450	1,403

^a Data are on a carcass weight, bone-in basis, and are for beef, veal, buffalo, pork, mutton, lamb, goat, and poultry where they are produced. Unless otherwise indicated, data exclude horsemeat, rabbit, game, edible offal, and lard.^b Data are on a slaughter weight, bone-in basis, and include horsemeat, rabbit, game, edible offal, and slaughter fats in addition to the meats listed in footnote a above. Slaughter weight is roughly 3 percent less than carcass weight because it excludes kidney and leaf fat. As a result of this broader

coverage, the meat production data for the USSR and Eastern Europe are above the level attained if the coverage was limited to that shown for other countries.

^c Data are for pork, beef, and mutton.^d State purchases only.

Table 52
Milk Production ^a

Thousand metric tons

	1960	1970	1975	1980	1983	1984	1985	1986	1987
Communist countries									
USSR and Eastern Europe	89,486	116,698	128,378	131,475	137,343	139,752	140,350	143,953	NA
USSR ^b	61,718	83,016	90,804	90,899	96,463	97,906	98,608	102,173	103,400
Eastern Europe	27,768	33,682	37,574	40,576	40,880	41,846	41,742	41,780	NA
Bulgaria	745	1,252	1,436	1,830	2,062	2,103	1,873	1,959	1,953
Czechoslovakia	3,830	4,795	5,463	5,909	6,557	7,140	6,900	7,017	6,933
East Germany ^c	5,730	7,091	8,095	8,321	8,203	8,729	8,995	9,130	8,993
Hungary	1,619	1,682	1,822	2,537	2,826	2,716	2,631	2,652	2,673
Poland	12,501	14,950	16,377	16,499	15,990	15,750	15,626	15,423	15,593
Romania ^d	3,343	3,912	4,381	5,480	5,242	5,408	5,717	5,599	NA
Other									
Cuba ^e	NA	380	591	889	948	945	929	927	943
Yugoslavia	2,283	2,567	3,654	4,342	4,550	4,570	4,684	4,665	4,600

^a Whole milk from cows, unless otherwise indicated.^d Including milk from buffaloes.^b Including milk from sheep, goats, camels, and mares.^e State production of pasteurized and unpasteurized milk.^c In terms of 3.5 percent butterfat content.**Table 53**
Wool Production ^a

Thousand metric tons

	1960	1970	1975	1980	1983	1984	1985	1986	1987
Communist countries									
USSR and Eastern Europe	427.33	507.04	546.28	556.44	580.72	590.10	571.20	595.06	NA
USSR ^b	356.80	418.90	449.60	443.00	462.40	465.30	446.60	469.00	455.00
Eastern Europe	70.53	88.14	96.68	113.44	118.32	124.80	124.60	126.06	NA
Bulgaria	21.04	28.81	34.01	35.09	35.94	36.16	33.80	33.20	33.50
Czechoslovakia ^c	2.50	3.99	3.60	4.20	5.00	5.00	5.00	6.00	5.50
East Germany	7.90	6.90	9.70	11.90	12.10	14.00	13.86	14.40	14.72
Hungary	8.20	9.78	8.39	12.14	12.72	12.00	11.12	10.76	NA
Poland	9.04	8.94	9.45	12.73	13.21	15.34	17.14	17.70	NA
Romania	21.85	29.72	31.53	37.38	39.35	42.30	43.68	44.00	NA
Other									
Yugoslavia	13.55	11.95	10.66	10.07	9.52	9.80	9.75	10.09	10.00

^a Raw wool (grease basis) from sheep, which includes both shorn and pulled wool together with the wool element of "wooled sheepskins."^b Physical weight.^c Purchases.

Table 54
Ginned Cotton Production

Thousand metric tons

	1960	1970	1975	1980	1983	1984	1985	1986	1987
Communist countries									
USSR and Eastern Europe	1,481	2,358	2,538	2,964	2,613	NA	NA	NA	NA
USSR	1,458	2,343	2,524	2,959	2,607	2,586	2,782	2,647	2,604
Eastern Europe ^a	23	15	14	5	6	NA	NA	NA	NA
Bulgaria	23	15	13	5	6	6	5	6	NA
Romania	NA	NA	1	NEGL	NEGL	NA	NA	NA	NA
Other									
China	1,063	2,277	2,381	2,707	4,637	6,258	4,147	3,541	4,190
Yugoslavia ^a	2	4	2	NEGL	1	1	1	NA	NA

^a Data are for the crop year beginning 1 August of the stated year.

Table 55
Chemical Fertilizer Consumption, Nutrient Content ^bKilograms Per hectare of arable land ^a

	1960	1970	1975	1980	1982	1983	1984	1985	1986
Communist countries									
USSR and Eastern Europe									
USSR ^{c,d}	11.2	44.3	74.3	80.9	86.7	98.7	99.1	108.9	113.7
Eastern Europe									
Bulgaria	33.8	141.1	156.5	198.4	250.1	243.7	226.3	208.7	195.2
Czechoslovakia ^c	91.4	240.4	314.7	334.7	336.9	343.5	338.3	334.2	326.7
East Germany	197.4	310.7	361.5	325.2	281.5	290.1	315.3	327.5	328.3
Hungary	29.5	149.7	276.3	262.4	288.5	299.8	288.1	252.9	261.4
Poland	49.0	167.8	242.4	234.8	213.4	231.4	221.7	212.4	220.9
Romania	8.1	56.5	114.0	116.5	159.1	157.7	148.2	157.9	NA
Other									
Albania	NA	78.8	100.6	122.3	155.0	144.6	132.0	NA	NA
China ^c	4.6	27.5	44.7	86.7	104.5	115.3	120.6	123.6	133.9
North Korea	NA	165.0	NA	326.0	338.0	345.0	355.0	360.0	NA
Yugoslavia	27.9	77.0	89.6	104.5	119.9	117.8	125.0	127.0	133.5

^a Including land under temporary crops, gardens, fallow or idle land, and permanent crops such as orchards and vineyards, unless otherwise indicated.

^b Data are for "fertilizer years"—in general, the year beginning 1 July of the stated year.

^c Including phosphate rock; excluding livestock phosphates. Data indicate the quantity supplied to agriculture.

^d Arable land is total area less pasture and hayland.

^e Sown area is used because of extensive multiple cropping.

Table 56
Nitrogen Fertilizer Consumption, Nutrient Content

Thousand metric tons of N

	1960	1970	1975	1980	1982	1983	1984	1985	1986
Communist countries									
USSR and Eastern Europe ^a	1,601	7,522	11,396	12,598	13,603	14,871	14,736	15,365	NA
USSR	769	4,605	7,339	8,262	9,038	10,292	10,279	10,950	11,475
Eastern Europe	832	2,917	4,057	4,336	4,565	4,579	4,457	4,415	NA
Bulgaria	101	379	380	450	536	550	479	474	440
Czechoslovakia	143	413	532	675	646	682	692	671	640
East Germany	235	511	678	752	607	694	697	770	709
Hungary	75	391	536	537	647	625	626	558	593
Poland	251	785	1,143	1,313	1,245	1,245	1,322	1,239	1,337
Romania	27	438	788	609	884	783	641	703	NA
Other									
Albania	5	27	36	68	71	73	75	NA	NA
China	614	3,923	6,116	12,112	12,211	13,679	14,800	12,049	13,126
North Korea	NA	270	414	550	564	583	590	NA	NA
Yugoslavia	109	294	360	417	463	443	469	477	506

^a Data indicate the quantity supplied to agriculture.**Table 57**
Phosphate Fertilizer Consumption, Nutrient Content ^aThousand metric tons of P₂O₅

	1960	1970	1975	1980	1982	1983	1984	1985	1986
Communist countries									
USSR and Eastern Europe	1,804	5,150	7,529	8,599	8,756	9,257	9,536	10,422	NA
USSR ^{b c}	1,088	3,133	4,728	5,590	6,115	6,454	6,625	7,615	8,354
Eastern Europe ^c	716	2,017	2,801	3,009	2,641	2,803	2,911	2,807	NA
Bulgaria	50	235	250	291	361	345	355	287	247
Czechoslovakia	150	325	456	495	479	529	524	537	516
East Germany	218	410	441	389	304	333	330	318	353
Hungary	66	217	429	390	392	410	431	336	355
Poland	180	595	887	968	817	826	900	885	908
Romania	52	235	338	476	288	360	371	444	NA
Other									
Albania	2	18	25	17	29	25	18	18	NA
China ^b	99	330	693	2,744	3,209	3,729	3,625	3,109	3,598
North Korea	NA	50	161	127	129	130	130	NA	NA
Yugoslavia	71	182	197	209	235	241	255	261	274

^a Data are for "fertilizer years"—in general, the year beginning 1 July of the stated year.^b Data are for soluble phosphate fertilizers and for ground phosphate rock used for direct application.^c Data indicate the quantity supplied to agriculture.

Table 58
Potassium Fertilizer Consumption, Nutrient Content ^a*Thousand metric tons of K₂O*

	1960	1970	1975	1980	1982	1983	1984	1985	1986
Communist countries									
USSR and Eastern Europe	1,829	4,995	8,658	7,976	8,287	9,195	9,300	9,830	NA
USSR ^b	766	2,574	5,176	4,904	4,991	6,200	6,167	6,822	6,677
Eastern Europe	1,063	2,421	3,482	3,072	3,296	2,995	3,133	3,008	NA
Bulgaria	6	25	50	89	141	114	103	103	121
Czechoslovakia	217	489	670	560	617	565	533	527	533
East Germany	497	614	707	496	496	424	550	550	580
Hungary	27	229	553	472	490	551	467	444	435
Poland	313	1,036	1,431	1,354	1,315	1,111	1,202	1,157	1,168
Romania	3	28	71	101	237	230	278	227	NA
Other									
Albania	1	2	2	4	8	5	1	1	NA
China	0	12	112	478	616	810	770	804	774
Yugoslavia	103	156	163	198	242	236	252	254	263

^a Data are for "fertilizer years"—in general, the year beginning 1 July of the stated year.

^b Data indicate the quantity supplied to agriculture.

Table 59
Grain Yields*Kilograms per hectare*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
Communist countries									
USSR and Eastern Europe									
USSR	1,117	1,569	1,103	1,499	1,629	1,446	1,636	1,842	1,807
Eastern Europe									
Hungary	1,997	2,544	3,896	4,808	4,734	5,401	5,159	4,931	4,933
Poland	1,613	1,946	2,487	2,337	2,726	2,990	2,894	3,032	3,120
Romania	1,389	1,802	2,445	3,123	3,240	3,761	3,667	3,881	3,643
Other									
China	2,698	1,769	2,074	2,947	3,726	3,961	3,836	3,863	3,988
Vietnam ^a	NA	2,095	2,213	2,085	2,535	2,639	2,691	2,762	2,641
Yugoslavia	1,962	2,374	3,184	3,633	3,938	4,218	3,746	4,416	3,653

^a Including North Vietnam and South Vietnam.

Table 60
Fish Catch ^a*Thousand metric tons*

	1960	1970	1975	1980	1982	1983	1984	1985	1986
Communist countries									
USSR and Eastern Europe	3,871	8,784	11,704	10,932	11,300	11,396	12,001	11,995	12,650
USSR ^b	3,541	7,828	10,357	9,526	10,000	9,930	10,592	10,654	11,359
Eastern Europe	330	956	1,347	1,406	1,300	1,466	1,409	1,341	1,291
Bulgaria	8	84	151	164	140	151	150	135	138
Czechoslovakia	9	13	17	16	20	15	15	16	17
East Germany	114	320	330	244	270	265	300	265	273
Hungary	15	26	31	34	43	44	39	37	36
Poland	168	451	679	759	583	691	652	628	588
Romania	16	62	139	189	244	300	253	260	239
Other									
Cuba	31	106	143	186	195	198	200	220	245
Yugoslavia	31	46	57	58	67	80	74	75	78

^a Unless otherwise indicated, data are in terms of live weight for all species of fish and seaweed, crustaceans, and mollusks, but exclude aquatic mammals.

^b Including aquatic mammals.

Table 61
Manganese Ore Production ^a*Thousand metric tons*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
Communist countries									
USSR and Eastern Europe	6,195	7,145	8,737	9,930	10,058	10,267	10,067	9,468	9,669
USSR	5,872	6,841	8,459	9,750	9,876	10,089	9,900	9,300	9,500
Eastern Europe	323	304	278	180	182	178	167	168	169
Bulgaria	25	33	35	49	45	45	38	40	40
Hungary	123	169	131	83	59	67	63	63	64
Romania	175	102	112	48	78	66	66	65	65
Other									
Yugoslavia	13	15	17	30	32	27	33	68	65

^a The metal content of the ore of various countries is as follows: the USSR, about 35 percent; Yugoslavia, about 35 percent; Romania, 30 percent; Bulgaria, about 27 percent; and Hungary, 26 percent.

Table 62
Tungsten Ore Production ^a*Metric tons*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
Communist countries									
USSR	5,400	6,900	8,100	9,200	9,100	9,100	9,200	9,200	9,200
China	13,990	5,470	6,710	15,000	12,500	13,500	15,000	15,000	18,000

^a Data are for the estimated tonnage of contained tungsten.**Table 63**
Chromite Production ^a*Thousand metric tons*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
Communist countries ^b									
USSR	1,200	3,000	3,500	3,400	3,300	3,326	3,360	3,454	3,530
Albania	289	466	779	1,020	685	720	825	850	830
Cuba	29	23	36	28	34	38	38	38	NA
Yugoslavia	101	41	2	NA	NA	NA	NA	NA	NA

^a Data are in gross weight.^b Production of chrome ore. In the Communist countries, the chromic oxide content is estimated as follows: USSR, 46 percent; Albania, 45 percent; Cuba, 35 percent; and Yugoslavia, 26 percent.

Table 64
Refined Nickel Production ^a*Thousand metric tons*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
Communist countries ^b									
USSR	72.0	137.0	210.0	229.0	260.0	268.0	198.0	215.0	217.0
Cuba ^c	12.8	36.6	37.3	38.2	37.6	31.8	32.4	33.0	35.0

^a Unless otherwise indicated, data are for refined metal and the nickel content of ferronickel and nickel oxide.

^b Czechoslovakia and East Germany each produce a small amount of refined nickel.

^c Nickel content of oxides and sulfides.

Table 65
Refined Copper Production ^a*Thousand metric tons*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
Communist countries									
USSR and Eastern Europe	379	810	1,183	1,416	1,484	1,522	1,580	1,593	1,603
USSR	278	606	755	855	915	939	953	965	970
Eastern Europe	101	204	428	561	569	583	627	628	633
Bulgaria	14	38	50	63	62	62	93	95	96
Czechoslovakia	10	17	23	33	26	26	26	26	26
East Germany	40	40	50	51	68	65	63	63	63
Hungary	8	12	13	16	13	13	13	13	13
Poland	22	72	249	357	360	372	387	388	390
Romania	7	25	43	41	40	45	45	43	45
Other									
Albania	1	6	7	12	10	11	12	12	12
China	90	290	300	320	310	310	400	400	400
Cuba ^b	NA	NEGL	3	3	3	3	3	3	3
Yugoslavia	35	89	138	131	124	128	135	140	139

^a Data are for primary and secondary refined copper produced from domestic and imported ores and scrap.

^b Copper concentrate.

Table 66
Smelter Production of Lead ^a*Thousand metric tons*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
Communist countries									
USSR and Eastern Europe	404	676	783	823	698	701	712	706	706
USSR	300	470	540	560	490	495	500	500	500
Eastern Europe	104	206	243	263	208	206	212	206	206
Bulgaria	40	99	110	120	112	112	112	110	110
Czechoslovakia	12	18	18	20	0	0	0	0	0
Poland	40	54	76	82	56	58	61	60	60
Romania	12	35	39	41	40	36	39	36	36
Other									
Yugoslavia	89	97	126	102	98	83	99	113	112

^a Data are for smelter production of lead produced from domestic and imported ores and concentrates, excluding all metal produced from scrap (secondary metals).

Table 67
Refined Zinc Production ^a*Thousand metric tons*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
Communist countries									
USSR and Eastern Europe	577	1,030	1,213	1,189	1,191	1,227	1,226	1,224	1,236
USSR ^b	360	690	820	820	870	900	900	900	910
Eastern Europe	217	340	393	369	321	327	326	324	326
Bulgaria	17	76	86	90	93	93	90	90	90
East Germany	4	15	15	18	16	17	16	16	16
Poland	176	209	243	215	170	176	180	179	180
Romania	20	40	49	46	42	41	40	39	40
Other									
Yugoslavia	36	65	98	85	88	93	83	89	118

^a Data are for electrolytic and distilled (including redistilled) zinc produced from domestic and imported ores and scrap and other secondary materials.

^b Primary metal only.

Table 68
Smelter Production of Primary Tin ^a*Metric tons*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
Communist countries									
USSR	10,600	21,000	25,000	32,500	24,000	25,000	25,000	26,000	27,000
East Germany	1,000	1,200	1,200	1,800	2,000	2,000	2,200	1,600	1,500
China	29,000	10,000	18,000	18,000	15,000	15,000	15,000	15,000	15,000

^a Excluding tin derived from scrap or detinning.**Table 69**
Caustic Soda Production ^a*Thousand metric tons*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
Communist countries									
USSR and Eastern Europe	1,420	3,141	4,225	5,196	5,346	5,536	5,627	5,815	NA
USSR	704	1,783	2,395	2,755	2,853	2,972	3,056	3,229	3,300
Eastern Europe	716	1,358	1,830	2,441	2,493	2,564	2,571	2,586	NA
Bulgaria	17	46	84	162	147	163	151	138	104
Czechoslovakia	115	189	257	325	330	329	331	335	338
East Germany	327	413	442	626	687	694	667	638	NA
Hungary ^b	16	67	89	189	192	194	194	202	197
Poland	167	313	392	416	392	379	414	427	425
Romania	74	330	566	723	745	805	814	846	NA
Other									
China	407	892	1,289	1,923	2,123	2,222	2,353	2,270	2,735
Cuba	NA	4	4	3	16	18	14	14	14
Yugoslavia	48	93	97	136	171	191	188	199	191

^a Pure caustic soda (100 percent NaOH), including tonnage not commercialized but used on site for processing.^b Including regenerated caustic soda.

Table 70
Synthetic Ammonia Production ^a*Thousand metric tons of N*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
Communist countries									
USSR and Eastern Europe	2,175	10,376	16,211	21,323	25,012	26,018	26,554	28,190	NA
USSR	1,138	6,282	9,868	13,762	16,904	17,677	18,232	19,590	20,470
Eastern Europe	1,037	4,094	6,343	7,561	8,108	8,341	8,322	8,600	NA
Bulgaria	111	788	935	1,009	1,124	1,138	1,138	1,091	1,070
Czechoslovakia	153	432	710	846	809	827	818	765	NA
East Germany	392	481	919	1,181	1,210	1,207	1,210	1,197	NA
Hungary	67	414	513	795	812	813	790	763	NA
Poland	285	1,187	1,707	1,483	1,430	1,499	1,490	1,747	NA
Romania	29	792	1,559	2,247	2,723	2,857	2,876	3,037	NA
Other									
Yugoslavia	12	285	391	405	411	501	630	670	NA

^a Unless otherwise indicated, nitrogen content of synthetic ammonia. To convert to actual production of synthetic ammonia, multiply by 1.2158.

Table 71
Sulfuric Acid Production ^a*Thousand metric tons*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
Communist countries									
USSR and Eastern Europe	7,893	18,122	27,237	31,493	33,078	33,610	34,245	36,308	NA
USSR	5,398	12,059	18,645	23,033	24,714	25,338	26,037	27,847	28,500
Eastern Europe	2,495	6,063	8,592	8,460	8,364	8,272	8,208	8,461	NA
Bulgaria	123	502	854	852	861	908	810	807	689
Czechoslovakia	553	1,110	1,245	1,285	1,244	1,246	1,297	1,292	1,264
East Germany	730	1,099	1,002	958	926	885	883	883	866
Hungary	178	457	630	590	606	549	520	543	573
Poland	685	1,901	3,413	3,019	2,786	2,769	2,863	2,965	3,147
Romania	226	994	1,448	1,756	1,941	1,915	1,835	1,971	NA
Other									
China	1,330	2,914	4,847	7,643	8,696	8,172	6,764	7,631	9,620
Cuba	NA	319	416	398	356	336	373	396	374
Yugoslavia	121	696	935	1,186	1,300	1,471	1,489	1,595	1,610

^a Pure (monohydrate) sulfuric acid (100 percent H₂SO₄).

Table 72
Nitrogen Fertilizer Production, Nutrient Content

Thousand metric tons of N

	1960	1970	1975	1980	1983	1984	1985	1986	1987
Communist countries									
USSR and Eastern Europe	1,909	8,743	13,487	16,088	19,430	19,863	20,720	22,249	NA
USSR ^a	1,003	5,423	8,535	10,241	13,014	13,328	14,223	15,221	15,906
Eastern Europe	906	3,320	4,952	5,847	6,416	6,535	6,497	7,028	NA
Bulgaria	86	602	672	730	831	836	838	818	801
Czechoslovakia	140	296	496	618	591	576	526	614	596
East Germany	334	395	538	943	968	959	1,078	1,252	NA
Hungary	57	350	421	559	594	583	604	584	600
Poland	270	1,030	1,533	1,290	1,341	1,369	1,254	1,445	1,543
Romania	19	647	1,292	1,707	2,091	2,212	2,197	2,315	NA
Other									
China	196	1,523	3,709	9,993	11,094	12,210	11,438	11,597	NA
Yugoslavia	4	238	279	296	302	357	375	435	508

^a Including some nitrogen for technical purposes.**Table 73**
Phosphate Fertilizer Production, Nutrient ContentThousand metric tons of P₂O₅

	1960	1970	1975	1980	1983	1984	1985	1986	1987
Communist countries									
USSR and Eastern Europe	1,850	5,495	8,121	9,081	10,034	10,352	11,184	11,987	NA
USSR ^a	1,192	3,585	5,511	6,455	7,417	7,695	8,596	9,279	9,697
Eastern Europe	658	1,910	2,610	2,626	2,617	2,657	2,588	2,708	NA
Bulgaria	41	148	246	217	204	211	172	132	131
Czechoslovakia ^a	147	322	398	361	326	344	310	307	277
East Germany ^a	166	430	427	370	315	308	299	309	NA
Hungary	45	167	206	149	167	160	130	163	177
Poland	207	599	929	842	872	869	889	948	942
Romania	52	244	404	687	733	765	788	849	NA
Other									
China ^a	193	907	1,531	2,308	2,666	2,360	1,760	2,345	NA
Yugoslavia	41	126	132	143	140	116	94	98	84

^a Including production of ground phosphate rock for direct application and phosphate animal feeds.

Table 74
Potassium Fertilizer Production, Nutrient Content*Thousand metric tons of K₂O*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
Communist countries									
USSR and Eastern Europe	2,750	6,573	11,346	11,990	13,271	13,810	14,327	14,198	NA
USSR ^{a b}	1,084	4,087	7,944	8,064	9,294	9,776	10,367	10,228	10,688
Eastern Europe	1,666	2,486	3,402	3,926	3,977	4,034	3,960	3,970	NA
Czechoslovakia ^b	0	62	168	203	206	216	126	120	NA
East Germany	1,666	2,420	3,019	3,422	3,431	3,465	3,465	3,485	NA
Hungary ^b	0	0	63	139	140	139	130	118	NA
Poland ^b	0	0	119	105	111	118	127	133	NA
Romania ^b	0	4	33	57	89	96	112	114	NA
Other									
China	0	7	14	20	31	40	24	24	NA

^a Including some potassium for technical purposes.^b Imported potash added to domestically produced nitrogen and phosphate to form multinutrient fertilizer.**Table 75**
Electric Generator Production ^a*Thousand kilowatts*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
Communist countries									
USSR	7,900	10,578	17,100	16,100	12,600	13,700	12,300	14,900	12,800
Bulgaria	29	37	32	71	85	90	145	NA	NA
Czechoslovakia ^b	1,391	1,487	1,474	879	892	864	349	750	NA
Hungary ^{b c}	357	473	752	487	NA	518	NA	NA	NA
Romania	83	747	1,479	1,111	606	1,011	788	683	NA
China	NA	2,918	4,965	4,193	2,740	4,674	5,610	7,120	9,600

^a Turbogenerators and hydrogenerators. Production of diesel generators is believed to be negligible in most instances.^b Generators for steam and gas turbines only.^c Thousand kilovolt amperes.

Table 76
Turbine Production ^a*Thousand kilowatts*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
Communist countries									
USSR ^b	9,200	16,191	18,886	19,600	15,500	21,300	21,600	20,900	22,500
Czechoslovakia	1,555	2,239	1,720	1,120	1,503	1,896	2,576	3,223	NA
Poland ^c	186	471	1,820	1,318	587	NA	NA	NA	NA
Romania ^d	98	121	712	497	597	257	335	221	NA

^a Unless otherwise indicated, data are for steam and hydraulic turbines. Most production of turbines is for use in matched sets with generators for production of electricity. In addition, turbines are produced in single units for many purposes, including direct industrial drives, marine propulsion, and pipeline transmission.

^b Including a number of gas turbines.
^c Steam turbines only.
^d Steam turbines of more than 500 kilowatts only.

Table 77
Metalcutting Machine Tool Production ^a*Thousand units*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
Communist countries									
USSR and Eastern Europe									
USSR	155.92	202.16	231.35	216.00	190.00	188.00	182.00	164.00	155.00
Eastern Europe									
Bulgaria	3.15	13.94	16.28	18.87	15.12	15.20	17.20	19.70	22.26
Czechoslovakia	30.23	35.19	29.66	36.90	35.40	37.00	37.20	38.90	40.46
East Germany	41.90	22.22	19.72	17.50	20.40	20.70	21.90	23.00	24.38
Hungary	9.78	14.48	12.83	10.20	13.10	13.10	12.80	12.90	13.00
Poland	22.47	29.73	33.19	28.20	39.30	47.10	48.70	43.10	37.50
Romania	4.44	14.14	28.27	29.40	59.00	80.20	89.40	90.80	91.70
Other									
China	153.50	138.90	174.90	133.60	121.00	133.50	167.20	159.00	146.00

^a Power-driven metalcutting machines that are not portable by hand and are used to remove metal in the form of chips; these machines include lathes and planers and milling, honing, lapping, grinding, electroerosion, and ultrasonic cutting machines.

Table 78
Grain Combine Production ^a*Units*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
Communist countries									
USSR	59,000	99,200	97,500	117,000	118,000	118,000	112,000	112,000	96,200
East Germany	1,972	900	1,500	NA	NA	NA	NA	NA	NA
Poland	564	2,155	3,591	4,593	4,550	4,800	5,132	5,707	NA
Romania	5,500	1,179	5,659	4,890	5,094	4,900	6,806	6,447	NA

^a Tractor-drawn and self-propelled.**Table 79**
Tractor Production ^a*Thousand units*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
Communist countries									
USSR and Eastern Europe	307.5	566.8	697.3	728.1	740.8	758.7	757.7	741.7	NA
USSR	238.5	458.5	550.4	555.0	564.0	571.0	585.0	595.0	568.8
Eastern Europe	69.0	108.3	146.9	173.1	176.8	187.7	172.7	146.7	NA
Bulgaria	.0	3.5	5.1	6.8	5.9	5.8	5.4	5.1	4.8
Czechoslovakia	32.5	18.5	29.6	33.4	34.2	34.2	35.2	37.0	38.7
East Germany	9.1	16.4	4.0	4.4	3.7	2.1	2.6	3.5	NA
Hungary	2.6	1.9	.6	.1	.4	.1	.3	.4	.3
Poland	7.7	38.7	57.6	57.5	55.5	58.8	59.0	61.5	59.5
Romania	17.1	29.3	50.0	70.9	77.1	86.7	70.2	39.2	NA
Other									
China	11.6	31.9	78.4	97.7	37.0	39.7	45.0	28.6	40.0
Yugoslavia	7.3	12.0	33.2	50.5	55.9	59.7	56.6	55.0	60.4

^a Excluding garden-type tractors.

Table 80
Railroad Freight Car Production ^a*Thousand units*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
Communist countries									
USSR and Eastern Europe	64.67	97.27	117.28	105.63	87.55	88.42	90.41	NA	NA
USSR	36.40	58.30	69.90	63.00	58.40	58.60	58.70	NA	NA
Eastern Europe	28.27	38.97	47.38	42.63	29.15	29.82	31.71	32.36	NA
Bulgaria	2.01	1.99	2.51	3.00	3.10	2.77	2.90	2.65	1.97
Czechoslovakia	5.15	4.35	5.03	7.27	5.57	5.53	5.89	6.40	NA
East Germany	2.14	5.51	5.03	3.87	3.11	3.13	3.31	3.16	NA
Hungary	.45	.50	.48	.03	.02	.03	.03	.03	NA
Poland	13.90	15.46	18.74	15.22	6.05	6.36	6.80	6.92	6.66
Romania	4.62	11.16	15.59	13.24	11.30	12.00	12.78	13.20	NA
Other									
China	23.00	8.00	14.50	10.57	15.78	18.10	19.30	20.60	NA
North Korea	.60	3.50	4.00	4.50	4.80	4.90	4.90	4.90	4.90
Yugoslavia	3.42	2.61	3.33	2.13	3.35	2.94	2.15	1.48	1.28

^a Units of two, four, or more axles. Most production now consists of four-axle units.

Table 81
Newsprint Production*Thousand metric tons*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
Communist countries									
USSR and Eastern Europe	678	1,420	1,661	1,916	1,876	1,896	1,922	NA	NA
USSR	434	1,101	1,361	1,535	1,528	1,532	1,565	1,610	1,671
Eastern Europe	244	319	300	381	348	364	357	NA	NA
Czechoslovakia	34	81	77	71	68	72	72	68	65
East Germany	89	97	96	116	106	106	113	NA	NA
Poland	77	88	83	91	83	86	82	59	70
Romania	44	53	44	103	91	100	90	100	NA
Other									
Cuba ^a	NA	19	32	35	34	44	59	66	74
Yugoslavia	28	75	85	45	28	29	28	37	37

^a Printing and writing paper.

Table 82
Plywood Production*Thousand cubic meters*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
Communist countries									
USSR and Eastern Europe	1,687	2,603	2,854	2,707	2,728	2,761	2,806	NA	NA
USSR	1,354	2,045	2,196	2,022	2,103	2,132	2,187	2,320	2,311
Eastern Europe	333	558	658	685	625	629	619	NA	NA
Bulgaria	64	71	65	57	55	53	51	48	50
Czechoslovakia	46	57	113	137	146	150	141	142	NA
East Germany	60	73	78	82	77	76	75	75	NA
Hungary	22	12	5	5	5	5	5	5	5
Poland	73	99	128	131	109	111	112	116	NA
Romania	68	246	269	273	233	234	235	NA	NA
Other									
Yugoslavia	61	103	126	186	135	141	145	143	136

Table 83
Cement Production ^a*Million metric tons*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
Communist countries									
USSR and Eastern Europe	68.41	137.38	180.20	191.09	189.52	192.66	189.08	196.85	NA
USSR	45.52	95.25	122.06	125.05	128.16	130.00	131.00	135.00	137.00
Eastern Europe	22.89	42.13	58.14	66.04	61.36	62.66	58.08	61.85	NA
Bulgaria	1.59	3.67	4.36	5.36	5.64	5.72	5.30	5.65	5.57
Czechoslovakia	5.05	7.40	9.30	10.55	10.50	10.53	10.27	10.30	10.37
East Germany	5.03	7.98	10.66	12.44	11.78	11.56	11.60	12.00	12.00
Hungary	1.57	2.77	3.76	4.66	4.25	4.14	3.68	3.85	4.15
Poland	6.60	12.18	18.54	18.43	16.16	16.65	14.99	15.83	16.09
Romania	3.05	8.13	11.52	14.60	13.03	14.06	12.24	14.22	NA
Other									
China	15.65	25.75	46.26	79.86	108.25	123.02	145.95	161.56	176.42
Cuba	.80	.74	2.08	2.83	3.23	3.35	3.18	3.31	3.51
North Korea	2.30	2.80	5.00	6.60	7.70	8.00	8.50	NA	NA
Yugoslavia	2.40	4.40	7.07	9.31	9.59	9.31	9.03	9.13	8.96

^a All types of hydraulic cements used in construction.

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Energy

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Table 84
Primary Energy Consumption ^a*Thousand barrels per day of oil equivalent*

	1960	1970	1975	1980	1982	1983	1984	1985	1986
OECD	37,792	63,014	68,934	76,249	71,721	71,955	74,632	76,178	76,839
United States	20,628	31,810	33,817	37,125	34,566	34,602	35,952	36,368	36,369
Canada	1,960	3,067	3,755	4,498	4,274	4,266	4,478	4,644	4,669
Japan	1,931	5,746	6,909	7,524	7,075	7,154	7,621	7,570	7,616
Norway	186	361	411	489	483	515	534	548	548
European Community	11,275	18,402	19,658	21,684	20,319	20,382	20,874	21,632	22,007
Belgium ^b	588	939	975	1,034	921	904	941	973	1,010
France	1,840	3,103	3,426	3,964	3,728	3,777	3,871	4,016	4,065
Italy	1,058	2,383	2,660	2,939	2,792	2,774	2,834	2,903	2,942
Netherlands	487	1,171	1,412	1,506	1,282	1,318	1,374	1,417	1,481
Spain	433	872	1,238	1,468	1,444	1,480	1,506	1,549	1,573
United Kingdom	3,506	4,259	4,107	4,075	3,916	3,900	3,894	4,100	4,160
West Germany	2,960	4,809	4,880	5,548	5,100	5,103	5,294	5,431	5,491
Communist countries									
USSR and Eastern Europe	12,290	20,736	25,957	30,902	31,976	32,665	33,968	34,372	35,026
USSR ^c	8,499	14,790	18,832	22,470	23,729	24,365	25,548	25,660	26,187
Eastern Europe	3,791	5,946	7,125	8,432	8,247	8,300	8,420	8,712	8,839
Bulgaria	131	391	527	656	677	686	702	711	703
Czechoslovakia	798	1,136	1,300	1,466	1,437	1,456	1,498	1,517	1,556
East Germany	1,166	1,491	1,586	1,856	1,820	1,824	1,885	1,977	1,995
Hungary	270	431	509	602	597	618	622	644	639
Poland	1,050	1,653	2,078	2,488	2,368	2,347	2,291	2,419	2,507
Romania	376	844	1,125	1,364	1,348	1,369	1,422	1,444	1,439
Other									
China	4,226	4,100	6,360	8,162	8,483	8,942	9,601	10,429	10,952
Yugoslavia	227	448	598	831	836	898	959	NA	NA

^a Data are for coal, crude oil, natural gas liquids, natural gas, and hydroelectric and nuclear electricity expressed in terms of oil equivalent. Data exclude minor fuels such as peat, shale, and fuelwood and include marine bunkers.

^b Including data for Luxembourg.

^c The Soviet statistical yearbook for 1986 issued a revised version of energy statistics covering the years 1960, 1970, 1980 and 1985-86.

Table 85
Primary Energy Production ^a*Thousand barrels per day of oil equivalent*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD									
United States	21,143	30,819	30,154	32,567	30,847	33,035	32,672	32,423	32,541
Canada	1,750	3,709	4,678	4,840	5,028	5,467	5,840	5,790	6,349
Japan	1,017	1,028	874	1,178	1,266	1,297	1,488	1,541	1,613
Norway	158	298	589	1,424	1,647	1,761	1,813	1,826	1,988
European Community	7,232	7,559	8,677	10,913	11,987	11,809	12,951	13,196	13,168
France	1,082	1,026	899	1,129	1,520	1,726	1,855	2,001	2,013
Netherlands	216	648	1,702	1,713	1,342	1,374	1,494	1,383	1,439
United Kingdom	2,693	2,348	2,571	4,242	4,991	4,350	4,944	5,195	4,989
West Germany	2,503	2,495	2,357	2,523	2,510	2,590	2,776	2,659	2,691
Other countries									
Indonesia	428	873	1,359	1,933	1,820	2,079	1,892	1,971	1,877
Iran	1,126	3,920	5,802	1,819	2,717	2,459	2,550	2,230	2,823
Kuwait	1,766	3,138	2,225	1,830	1,192	1,245	1,168	1,655	1,366
Mexico	445	825	1,226	2,914	3,628	3,681	3,614	3,349	3,635
Saudi Arabia	1,405	3,929	7,312	10,469	5,538	5,281	4,067	5,885	4,923
Venezuela	2,940	3,945	2,690	2,538	2,214	2,253	2,063	2,120	2,118
Communist countries									
USSR and Eastern Europe	13,119	22,350	27,742	32,940	35,575	36,786	36,848	38,167	39,262
USSR ^b	9,250	17,070	21,906	26,740	29,193	30,220	30,180	31,480	32,560
Eastern Europe	3,869	5,280	5,836	6,200	6,382	6,566	6,668	6,687	6,702
Bulgaria	109	151	143	172	204	208	201	207	211
Czechoslovakia	761	906	907	963	971	977	991	1,015	1,022
East Germany	1,027	1,172	1,126	1,239	1,321	1,406	1,473	1,456	1,451
Hungary	207	277	270	278	292	305	322	316	335
Poland	1,278	1,895	2,294	2,446	2,417	2,466	2,486	2,503	2,528
Romania	487	879	1,096	1,102	1,177	1,204	1,195	1,190	1,155
Other									
China	4,103	4,196	6,602	8,628	9,650	10,541	11,583	11,934	12,230
North Korea	120	365	455	725	800	820	830	860	NA
Yugoslavia	202	330	402	532	604	659	644	658	668

^a Data are for coal, crude oil, natural gas, natural gas liquids, hydroelectric and nuclear electric power expressed in terms of oil equivalent, and exclude minor fuels such as peat, shale, and fuelwood.

^b The Soviet statistical yearbook for 1986 issued a revised version of energy statistics covering the years 1960, 1970, 1980 and 1985-86.

Table 86
Primary Energy Production, by Type ^a*Thousand barrels per day of oil equivalent*

	1970				1980				1987			
	Coal	Crude Oil	Natural Gas	Hydro/ Nuclear	Coal	Crude Oil	Natural Gas	Hydro/ Nuclear	Coal	Crude Oil	Natural Gas	Hydro/ Nuclear
OECD												
United States	7,359	11,380	10,686	1,394	9,785	10,170	9,838	2,774	10,567	9,892	8,341	3,741
Canada	171	1,625	1,110	803	437	1,754	1,202	1,447	701	1,960	1,694	1,994
Japan	538	18	45	427	244	10	39	885	177	15	37	1,384
European Community												
France	523	68	118	317	284	51	129	665	191	90	66	1,666
Netherlands	59	43	544	2	0	35	1,657	21	0	90	1,331	18
United Kingdom	1,992	2	194	160	1,762	1,639	629	212	1,414	2,450	807	318
West Germany	1,999	152	224	120	1,789	93	327	314	1,543	75	322	751
Other countries												
Indonesia	2	855	10	6	5	1,596	319	13	20	1,240	602	15
Iran	7	3,870	35	8	10	1,672	122	15	10	2,471	327	15
Kuwait	0	3,050	88	0	0	1,759	71	0	0	1,290	76	0
Mexico	40	475	234	76	70	2,129	634	81	80	2,841	624	90
Saudi Arabia	0	3,890	39	0	0	10,272	197	0	0	4,562	361	0
Venezuela	1	3,753	170	21	0	2,225	239	74	0	1,712	331	75
Communist countries												
USSR	6,080	7,060	3,270	660	6,370	12,030	7,170	1,170	6,440	12,480	11,750	1,890
Eastern Europe												
Bulgaria	125	7	8	12	111	5	3	53	125	6	NEGL	80
Czechoslovakia	861	4	18	23	899	2	9	53	890	2	10	120
East Germany	1,150	1	10	12	1,104	1	50	84	1,320	1	50	80
Hungary	182	39	56	1	138	41	99	1	120	40	115	60
Poland	1,788	8	88	11	2,318	7	104	17	2,415	3	90	20
Romania	125	281	460	13	164	242	639	57	210	215	675	55
Other												
China	3,414	602	50	130	5,932	2,113	254	329	8,800	2,680	250	500
North Korea	275	0	0	90	580	0	0	145	690 ^b	0 ^b	0 ^b	170 ^b
Yugoslavia	164	56	18	93	254	85	31	162	385	78	50	155

^a Data are for coal, crude oil, (including natural gas liquids), natural gas, hydroelectric and nuclear electric power expressed in terms of oil equivalent, and exclude minor fuels such as peat, shale, and fuelwood.

^b Data are for 1986.

Table 87
Crude Oil Refining Capacity,
1 January 1988

Thousand barrels per day

OECD	36,555	Indonesia	714	Trinidad and Tobago	300
United States	15,288	Iran	530	Virgin Islands	545
Australia	637	Iraq	318	Communist countries	
Canada	1,869	Kuwait	628	USSR and Eastern Europe	13,469
Japan	4,567	Libya	329	USSR	11,000
European Community	12,183	Nigeria	270	Eastern Europe	2,469
Belgium	631	Qatar	62	Bulgaria	300
France	1,941	Saudi Arabia	1,375	Czechoslovakia	455
Italy	2,563	Venezuela	1,201	East Germany	470
Netherlands	1,381	Other		Hungary	242
Spain	1,305	Argentina	690	Poland	385
United Kingdom	1,803	Brazil	1,407	Romania	617
West Germany	1,648	Egypt	452	Other	
OPEC	6,217	India	1,059	China	2,200
Abu Dhabi	180	Mexico	1,354	Cuba	160
Algeria	465	Netherlands Antilles	320	North Korea	42
Ecuador	122	Singapore	858	Yugoslavia	483
Gabon	23				

Table 88
Oil Consumption

Thousand barrels per day

	1960	1970	1975	1980	1983	1984	1985	1986	1987
United States	9,795	14,695	16,320	17,055	15,230	15,725	15,725	16,280	16,555
Japan	590	4,000	4,965	5,000	4,330	4,490	4,195	4,255	4,320
Canada	835	1,485	1,660	1,815	1,425	1,445	1,350	1,435	1,510
Western Europe	4,010	12,400	13,230	13,235	11,480	11,400	11,335	11,700	11,890
Belgium, Luxembourg, Netherlands	420	1,290	1,390	1,195	1,030	1,005	1,015	1,140	1,130
France	580	1,950	2,195	2,255	1,800	1,755	1,730	1,745	1,745
Italy	475	1,760	1,915	1,950	1,715	1,640	1,665	1,700	1,750
Spain*	120	540	890	1,060	1,000	825	810	805	840
United Kingdom	975	2,030	1,875	1,635	1,480	1,810	1,615	1,570	1,530
West Germany	660	2,570	2,565	2,605	2,205	2,205	2,240	2,375	2,300
Other	780	2,260	2,400	2,535	2,250	2,160	2,260	2,365	2,595

* Including the Canary Islands.

Table 89
Crude Oil Production ^a*Thousand barrels per day*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD ^b	7,866	11,527	10,756	12,859	13,775	14,300	14,754	14,555	14,257
United States	7,055	9,648	8,375	8,597	8,680	8,735	8,933	8,668	8,297
Canada	526	1,305	1,439	1,424	1,356	1,411	1,457	1,466	1,560
Norway	0	0	189	528	614	700	785	841	943
European Community	223	267	232	1,837	2,617	2,873	2,928	2,952	2,793
United Kingdom	3	2	12	1,619	2,299	2,535	2,533	2,508	2,338
Other countries									
Algeria	183	976	945	1,020	699	638	645	671	635
Indonesia	411	855	1,307	1,576	1,385	1,466	1,235	1,264	1,191
Iran	1,068	3,831	5,350	1,662	2,492	2,187	2,258	1,929	2,451
Iraq	1,004	1,563	2,262	2,514	922	1,203	1,437	1,746	2,076
Kuwait ^c	1,696	2,983	2,085	1,661	1,076	1,117	1,040	1,510	1,230
Libya	0	3,321	1,480	1,830	1,076	1,073	1,069	1,137	972
Mexico	271	420	705	1,936	2,666	2,746	2,733	2,431	2,541
Nigeria	17	1,090	1,783	2,058	1,241	1,393	1,464	1,461	1,286
Saudi Arabia ^c	1,315	3,789	7,075	9,903	5,062	4,649	3,468	5,101	4,262
United Arab Emirates	0	691	1,663	1,702	1,119	1,097	1,146	1,331	1,454
Venezuela	2,846	3,708	2,346	2,165	1,781	1,813	1,621	1,576	1,572
Communist countries									
USSR and Eastern Europe	3,220	7,316	9,933	11,996	12,158	12,019	11,626	12,019	12,197
USSR	2,943	6,976	9,570	11,700	11,864	11,728	11,350	11,754	11,930
Eastern Europe	277	340	363	296	294	291	276	265	267
Bulgaria	4	7	2	3	4	4	4	6	6
Czechoslovakia	3	4	3	2	2	2	2	3	2
East Germany	1	1	1	1	1	1	1	1	1
Hungary	24	39	40	41	40	40	40	40	40
Poland	4	8	11	7	4	4	4	3	3
Romania	241	281	306	242	243	240	225	212	215
Other									
Albania	15	30	37	NA	NA	NA	NA	NA	NA
China	102	602	1,542	2,113	2,121	2,280	2,496	2,613	2,680
Cuba	1	3	5	5	15	15	17	17	18
Yugoslavia	18	57	74	85	83	83	83	83	78

^a Unless otherwise indicated, data are for crude oil and exclude natural gas liquids, shale oil, natural gasoline, and synthetic crude oil.

^b Including shale oil.

^c Including about one-half of Neutral Zone production.

Table 90
Major Exporters of Oil ^a*Thousand barrels per day*

	1970	1975	1980	1982	1983	1984	1985	1986	1987
Non-Communist countries ^b									
United Arab Emirates	777	1,661	1,697	1,104	1,001	973	1,010	1,200	1,490
Algeria	985	940	868	607	554	483	495	520	710
Indonesia	725	1,095	1,197	868	910	949	740	800	860
Iran	3,519	4,886	952	1,644	1,920	1,576	1,700	1,500	1,780
Iraq	1,499	2,096	2,494	743	676	943	1,220	1,425	1,820
Kuwait ^c	2,831	1,991	1,551	669	907	955	930	1,380	1,530
Libya	3,313	1,478	1,776	1,050	958	947	1,040	1,015	1,030
Mexico	0	95	828	1,492	1,537	1,600	1,573	1,290	1,440
Nigeria	1,055	1,719	2,034	1,088	1,024	1,162	1,290	1,230	1,130
Saudi Arabia ^c	3,564	6,789	9,309	5,642	4,218	3,760	2,550	4,180	3,510
Venezuela	3,470	2,086	1,837	1,553	1,357	1,362	1,160	1,535	1,390
Communist countries									
USSR ^d	1,920	2,600	3,210	3,390	3,670	3,670	3,330	3,740	3,880

^a Including refined products.^b Excluding bunkers.^c Including about one-half of Neutral Zone production.^d Gross basis.**Table 91**
Major Importers of Oil*Thousand barrels per day*

	1970	1975	1980	1982	1983	1984	1985	1986	1987
OECD									
United States	3,419	6,056	6,767	5,113	5,051	5,437	5,067	6,061	6,541
Japan	4,206	5,008	5,091	4,451	4,313	4,474	4,221	4,235	4,290
France	2,146	2,278	2,549	1,977	1,851	1,790	1,923	1,925	1,898
Italy	2,345	2,121	2,152	2,051	1,842	1,827	1,822	1,961	2,007
West Germany	2,676	2,509	2,692	2,224	2,186	2,162	2,200	2,349	2,312
Communist countries									
Bulgaria	172	254	315	313	308	311	308	290	NA
Czechoslovakia	218	338	403	363	357	360	353	369	NA
East Germany	209	343	445	437	457	471	459	446	NA
Hungary	107	188	206	208	209	209	183	187	NA
Poland	189	330	416	328	351	339	345	356	NA
Romania	46	102	320	218	248	271	293	265	NA

Table 92
Selected Countries: Oil Export Revenues

Billion US \$

	1975	1980	1981	1982	1983	1984	1985	1986	1987
Non-Communist countries									
Algeria	4	15	14	13	13	12	13	8	6
Ecuador	1	2	2	2	2	2	2	1	1
Gabon	1	1	2	2	2	2	2	1	1
Indonesia	4	13	14	15	14	15	12	8	6
Iran	19	13	11	19	19	17	15	7	11
Iraq	8	25	11	10	8	10	11	7	11
Kuwait	8	19	14	9	10	11	9	6	5
Libya	6	23	14	14	12	11	10	6	5
Mexico	NEGL	9	13	16	15	15	13	6	9
Nigeria	7	24	18	12	10	12	12	6	6
Qatar	2	6	6	4	3	3	3	2	2
Saudi Arabia	27	99	112	74	45	36	26	18	12
United Arab Emirates	7	19	19	16	13	13	12	7	5
Venezuela	8	18	19	16	14	15	13	7	4
Communist countries									
USSR ^a	8	28	30	35	38	38	34	32	36

^a Soviet prices to other CEMA countries, which in volume terms account for about one half of Soviet exports of crude oil and petroleum products, have been based on an average of the world market prices for the previous five years.

Table 93
Selected Countries Oil Import Bill ^a*Billion US \$*

	1970	1975	1979	1980	1983	1984	1985	1986	1987
Developed Countries									
United States	2.3	24.8	59.5	76.9	54.3	58.1	51.4	36.5	44.0
Israel	.1	.6	1.3	2.1	1.5	1.4	1.3	.7	.8
Japan	2.7	21.0	38.0	58.9	45.7	45.5	40.6	24.1	27.4
European Community									
France	1.6	10.5	19.4	30.7	20.7	20.0	18.8	11.1	13.1
Italy	1.2	9.2	16.6	24.6	21.1	18.8	19.3	11.9	13.4
Netherlands	.3	5.8	12.4	17.0	13.7	12.8	12.6	7.4	8.6
Spain	.4	3.7	7.1	11.9	10.5	9.9	9.8	6.2	7.2
United Kingdom	1.8	9.3	11.0	14.0	8.6	11.0	10.5	6.4	7.3
West Germany	2.0	11.7	26.6	35.1	25.2	24.4	24.1	15.5	17.0
Less developed countries									
Brazil	.2	3.3	6.9	10.3	8.7	6.9	5.8	3.0	4.7
India	.2	1.4	3.0	6.1	3.5	2.9	3.1	2.5	2.6
South Korea	.1	1.3	3.4	6.2	6.2	6.4	6.2	3.9	4.9
China (Taiwan)	.1	.7	2.5	4.2	4.1 ^b	3.8 ^b	3.3 ^b	2.8	2.7
Philippines	.1	.8	1.4	2.3	2.1	1.5	1.3	.8 ^b	1.0 ^c
Thailand	.1	.7	1.6	2.8	2.3	2.3	2.1	.8	1.7
Colombia	-.1	.1	.3	.6	.6	.4	.3	.1	.1
Pakistan	.1	.4	.7	1.4	1.5	1.4	1.4	.7	1.1
Hong Kong	.1	.4	1.0	1.2	1.4	1.3	1.1	.8	.9
Chile	.1	.3	.2	.9	.6	.6	.5	.4	.4

^a Total cost of imported crude oil and petroleum products.^b Crude petroleum only.^c Posted prices.

Table 94
Imports of Crude Oil and Refined Products
by the OECD Countries 1987

Thousand barrels per day

	OECD	United States	Canada	Japan	Western Europe	West Germany	France	United Kingdom	Italy	Netherlands	Spain	Other	Australia	New Zealand
Algeria	844	284	2	19	539	136	66	36	97	103	28	73	0	0
Bahrain	35	0	0	33	1	0	0	0	0	0	0	1	1	0
Egypt	365	54	0	15	296	22	55	36	127	3	9	44	0	0
Iraq	1,087	83	10	104	890	51	148	80	165	33	79	334	0	0
Kuwait	888	82	0	328	457	16	41	10	146	146	14	84	21	0
Libya	935	0	0	0	935	156	61	32	334	30	96	226	0	0
Qatar	175	0	0	129	38	1	2	5	29	0	1	0	8	0
Saudi Arabia	2,679	747	16	914	963	72	170	19	193	158	90	261	39	0
United Arab Emirates	990	59	5	708	201	23	0	7	106	21	17	27	17	0
OAPEC	7,998	1,309	33	2,250	4,320	477	543	225	1,197	494	334	1,050	86	0
Ecuador	29	29	0	0	0	0	0	0	0	0	0	0	0	0
Gabon	68	37	0	0	31	4	0	0	0	6	21	0	0	0
Indonesia	857	277	0	540	2	2	0	0	0	0	0	0	38	0
Iran	1,082	98	23	230	731	20	88	41	140	149	88	205	0	0
Nigeria	1,041	530	40	0	471	95	76	19	38	53	114	76	0	0
Venezuela	1,061	768	62	11	220	91	12	22	40	18	4	33	0	0
OPEC ^a	11,736	2,994	158	2,983	5,478	667	664	271	1,288	717	552	1,319	123	0
Other ^b	6,854 ^c	3,493	388	1,259	3,500 ^d	1,623	1,179	686	592	932	468	2,078	62	59
Total	18,990 ^c	6,541	546	4,290	9,275 ^d	2,312	1,898	993	2,007	1,652	1,029	3,442	186	59
Consumption	NA	16,555	1,510	4,320	11,890	2,300	1,745	1,530	1,750	NA	840	NA	NA	NA

^a OAPEC members, excluding Bahrain and Egypt, plus other countries shown.

^c Excluding intra-OECD trade.

^d Excluding intra-European trade.

^b Including unknown.

Table 95
Natural Gas Production ^a*Billion cubic feet*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD ^b	13,676	27,088	29,510	30,160	26,325	28,185	27,612	26,793	28,495
United States ^c	12,770	21,920	20,110	20,180	16,820	18,230	17,200	16,810	17,110
Canada	525	2,275	3,090	2,465	2,520	2,760	2,970	2,700	3,475
Norway	0	0	10	885	905	965	930	945	995
European Community	356	2,683	5,950	6,090	5,470	5,555	5,817	5,583	6,065
Netherlands	12	1,117	3,385	3,400	2,640	2,655	2,860	2,600	2,730
United Kingdom	NEGL	398	1,275	1,290	1,395	1,420	1,515	1,580	1,655
West Germany	16	460	515	670	625	655	610	545	660
Other countries									
Algeria	NEGL	160	335	410	1,280	1,240	1,320	1,275	1,470
Indonesia	NA	NA	80	655	770	1,155	1,230	1,265	1,235
Mexico ^d	222	481	585	1,300	1,100	1,035	955	920	1,280
Venezuela	163	349	450	490	550	610	610	670	680
Communist countries ^e									
USSR and Eastern Europe	2,035	8,247	12,018	17,320	20,945	22,695	24,460	25,921	27,318
USSR ^c	1,600	6,990	10,215	15,370	18,921	20,735	22,698	24,215	25,663
Eastern Europe	435	1,257	1,803	1,950	2,024	1,960	1,762	1,706	1,655
Bulgaria	0	17	4	7	5	5	5	5	5
Czechoslovakia	51	43	33	23	22	21	25	21	20
East Germany	1	44	257	300	300	300	300	300	300
Hungary	12	123	183	217	229	244	247	231	234
Poland	19	183	211	224	193	214	225	206	203
Romania	352	847	1,115	1,179	1,275	1,176	960	943	893
Other									
China	NA	136	325	504	411	438	454	466	484
Yugoslavia	2	35	55	64	74	71	85	86	100

^a Data include only gas from natural gas wells and associated gas from petroleum fields.

^b Data are for net production—that is, for gas actually collected and utilized as fuel or raw material. They exclude gas used for reinjection, as well as gas flared, vented, or wasted, whether or not it has been processed for the extraction of natural gasoline.

^c Data for the United States are in terms of net marketed production. Data for the USSR refer to gross production less losses and waste. US gross production (less losses and waste), which includes gas reinjected in order to maintain reservoir pressure, would be as follows (in billion cubic feet):

1960	1965	1970	1975	1980
14,510	17,660	23,790	21,105	21,870
1983	1984	1985	1986	1987
18,595	20,190	19,535	19,065	19,805

A much smaller share of total production in the USSR is believed to be used for reinjection.

^d Including gas used for repressuring and gas wasted.

^e Gross production.

Table 96
Hard Coal Production ^a*Million metric tons*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD	923.82	982.59	953.15	1,102.92	1,064.13	1,101.36	1,143.93	1,176.22	NA
United States	391.53	550.39	576.18	710.38	656.57	750.26	735.92	738.92	760.14
Australia	21.90	45.21 ^b	60.70	73.63	97.75	104.09	117.50	133.38	NA
Canada	8.02	11.60	21.71	30.58	37.15	47.48	51.01	48.23	49.00
Japan ^c	51.07	39.69	19.00	18.03	17.06	16.64	16.38	16.01	13.06
European Community	446.06	328.46	268.07	264.49	249.30	176.50	216.84	233.47	218.99
Belgium	22.47	11.36	7.89	6.32	6.10	6.30	6.22	5.63	4.36
France	55.96	37.84	23.64	20.20	18.65	18.28	17.10	16.32	13.49
Spain	13.78	10.75	10.82	13.15	15.42	15.62	16.09	15.95	14.00
United Kingdom ^d	196.71	147.11	128.68	130.09	119.26	51.18	88.64	108.10	104.44
West Germany ^e	143.26	116.34	96.76	94.49	89.62	84.86	88.49	87.20	82.40
Other countries									
India	52.59	73.69	95.89	109.10	134.78	144.86	149.71	166.07	175.00
South Africa	38.17	54.61	69.44	116.04	145.13	162.91	173.14	175.06	175.00
South Korea	5.35	12.39	17.58	18.54	19.86	21.37	22.55	24.25	25.40
Communist countries									
USSR and Eastern Europe	496.30	613.02	695.95	725.72	715.87	713.27	821.90	741.96	NA
USSR	355.92	432.72	485.00	493.00	487.00	484.00	592.50	513.00	517.00
Eastern Europe	140.38	180.30	210.95	232.72	228.87	229.27	229.40	228.96	NA
Bulgaria	.57	.40	.33	.27	.24	.22	.24	.20	.22
Czechoslovakia	26.40	28.20	28.12	28.20	26.92	26.42	26.22	25.66	25.74
East Germany	2.72	1.05	.54	NEGL	NEGL	NEGL	NEGL	NEGL	NEGL
Hungary	2.85	4.15	3.02	3.07	2.83	2.57	2.64	2.32	2.36
Poland	104.44	140.10	171.62	193.12	191.09	191.60	191.64	192.08	193.01
Romania	3.40	6.40	7.32	8.06	7.79	8.46	8.66	8.70	NA
Other									
China ^f	280.00	327.40	478.00	620.00	715.00	789.00	872.00	894.00	920.00
North Korea ^f	6.80	21.80	27.30	45.60	50.40	52.00	53.00	54.00	NA
Yugoslavia	1.28	.64	.60	.39	.39	.39	.40	.41	.38

^a Unless otherwise indicated, data are for net production of anthracite and bituminous coal.^b Twelve months ending 30 June of the stated year.^c Including brown coal.^d Excluding data for Northern Ireland.^e Including low-quality coal at its hard-coal equivalent.^f Raw production. Including a negligible amount of brown coal.

Table 97
Brown Coal and Lignite Production*Million metric tons*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD	137.58	166.34	209.72	272.32	302.73	318.57	336.72	335.26	345.35
United States	2.49	7.21	17.71	42.31	52.93	57.26	65.70	66.79	69.78
Australia	15.21	24.18 ^a	28.18	32.89	34.69	34.50	38.38	36.07	45.00
Austria	5.97	3.67	3.40	2.87	3.04	2.90	3.08	2.96	2.78
Canada	1.97	3.46	3.55	5.98	7.76	9.92	9.67	8.28	9.60
Turkey	1.91	4.44	7.11	15.05	20.27	26.05	35.48	42.20	41.70
European Community	106.37	122.99	149.57	173.01	183.81	187.71	184.12	178.79	176.29
Greece	2.49	8.08	18.41	23.20	30.60	32.51	35.89	38.10	42.10
Spain	1.76	2.83	3.38	15.46	24.54	24.32	23.75	22.63	21.70
West Germany	96.22	107.77	123.38	129.86	124.37	126.71	120.72	114.36	108.80
Other countries									
India	.05	3.54	2.79	4.55	7.34	7.66	7.78	8.06	8.50
Communist countries									
USSR and Eastern Europe ^b	469.36	586.95	602.01	630.39	670.26	695.69	717.12	733.68	NA
USSR	134.21	144.74	160.00	160.00	158.00	156.00	157.00	160.00	166.00
Eastern Europe	335.15	442.21	442.01	470.39	512.26	539.69	560.12	573.68	NA
Bulgaria	15.42	28.85	27.52	29.95	32.15	32.14	30.66	35.02	36.60
Czechoslovakia	57.89	81.30	86.27	95.73	100.47	102.86	100.39	100.78	100.70
East Germany	225.47	261.48	246.71	258.10	278.00	296.00	312.00	311.00	309.00
Hungary	23.68	23.68	21.87	22.64	22.39	22.47	21.40	20.80	20.48
Poland	9.33	32.77	39.87	36.87	42.52	50.40	57.75	67.26	73.20
Romania	3.36	14.13	19.77	27.10	36.73	35.82	37.92	38.82	NA
Other									
North Korea ^c	3.80	5.70	7.70	10.00	11.00	11.00	11.00	11.50	NA
Yugoslavia	21.43	27.78	34.94	46.61	59.00	64.68	69.10	69.46	71.81

^a Twelve months ending 30 June of the stated year.^b Net output.^c Including unknown amounts of hard coal.

Table 98
Proved Reserves of Crude Oil, Natural Gas,
and Coal, Yearend 1987^a

	Crude Oil ^b (Billion barrels)	Natural Gas ^b (Trillion cubic feet)	Coal ^c (Million metric tons)		Crude Oil ^b (Billion barrels)	Natural Gas ^b (Trillion cubic feet)	Coal ^c (Million metric tons)
OECD				Mexico	49	77	1,600
United States	32 ^d	188	205,000	Nigeria	16	84	120
Canada	7 ^d	98	5,000	Oman	4	10	0
Norway	15	106	NA	Qatar	3	157	0
European Community				Saudi Arabia	167	140	0
United Kingdom	5	22	4,700	South Africa	NEGL	NEGL	53,000
West Germany	NEGL	6	31,300	Syria	2	NEGL	0
Other countries				United Arab Emirates	98	192	0
Algeria	9	106	NA	Venezuela	56	95	340
Brazil	2	4	1,700	Communist countries			
Ecuador	2	4	0	USSR and Eastern Europe			
Egypt	4	10	NEGL	USSR	50-80	1,200	173,800
India	4	18	475	Eastern Europe			
Indonesia	8	73	NA	Poland	NEGL	5	30,000
Iran	93	489	175	Romania	1	9	NA
Iraq	100	26	0	Other			
Kuwait	92	36	0	North Korea	0	0	272
Libya	21	26	0	Yugoslavia	NEGL	1	7,900

^a The portion of total resources has been assessed as being exploitable under local economic conditions and available technology.

^b Sources for non-Communist countries: *Oil Energy Trends* and *Oil and Gas Journal*.

^c Yearend 1986. Data are expressed in terms of coal equivalent (7,000 kilocalories per kilogram) and include anthracite, bituminous and subbituminous coal, and brown coal/lignite.

^d For comparability, US and Canadian crude oil reserves have been adjusted upward to include estimated NGL reserves.

Table 99
Installed Electricity Generating Capacity ^a*Million kilowatts*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD									
United States ^b	186.53	360.33	527.35	630.94	658.18	672.46	698.10	707.68	NA
Canada	23.03	42.83	61.35	81.64	88.95	95.22	97.36	98.40	NA
Japan ^c	23.64 ^d	59.48	104.21	137.94	154.65	159.23	163.29	169.40	NA
Norway	6.61	12.91	16.93	20.01	22.95	23.21	23.66	24.01	NA
Sweden	8.96	15.31	23.14	27.42	30.64	30.86	33.17	33.10	NA
European Community									
France	21.17 ^e	36.22	46.29	63.66	78.00	84.68	86.56	92.48	NA
Italy	16.31 ^e	30.41	39.10	46.82	51.50	53.99	55.63	56.20	NA
Netherlands	5.18	10.11	15.45	17.29	17.23	16.59	17.05	17.38	NA
Spain	6.57	17.91	25.76	29.92	34.16	37.19	39.64	40.22	NA
United Kingdom ^b	36.60 ^e	62.06	73.92	73.64	66.43	66.90	67.42	66.54	NA
West Germany	28.38 ^e	47.54	70.11	82.55	86.92	89.86	92.70	95.32	NA
Communist countries									
USSR and Eastern Europe	90.78	217.62	291.04	358.82	395.81	409.02	423.81	NA	NA
USSR	66.72	166.15	217.48	266.71	293.56	303.69	315.00	322.00	330.00
Eastern Europe	24.06	51.47	73.56	92.11	102.25	105.33	108.81	NA	NA
Bulgaria	.92	4.12	7.06	8.20	9.63	9.65	9.70	NA	NA
Czechoslovakia	5.72	10.81	13.64	16.65	18.86	19.40	20.32	21.23	NA
East Germany	7.84	12.57	16.93	20.45	21.79	22.26	22.76	NA	NA
Hungary	1.48	2.73	4.29	5.41	6.10	6.34	6.35	6.81	7.25
Poland	6.32	13.89	20.06	25.29	27.88	28.86	30.10	30.92	NA
Romania	1.78	7.35	11.58	16.11	17.99	18.82	19.58	NA	NA
Other									
China	NA	23.77	43.41	65.87	76.64	79.86	86.36	92.32	101.90
Cuba ^f	.94	1.30	1.40	2.62	2.93	3.16	3.39	3.40	3.53
North Korea	1.79	2.80	4.60	5.04	6.00	6.10	6.50	6.70	NA
Yugoslavia	2.40	6.97	9.39	14.51	18.09	18.40	20.19	NA	NA

^a All plants for both public and industrial use. Unless otherwise indicated, data are as of the end of the year.
^b Beginning in 1982, data are for public utilities only.
^c Capacity as of 31 March of the stated year.

^d Capacity as of 31 March 1961.
^e Gross capacity.
^f Including 410,000-kW capacity in industrial plants not linked to the national grid system.

Table 100
Installed Nuclear Electricity Generating Capacity ^a*Thousand megawatts*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD	0.9	14.2	63.0	112.8	146.9	166.4	198.2	213.6	232.3
United States	.4	6.0	37.4	52.2	60.4	67.1	76.2	83.2	89.4
Canada	.0	.2	2.5	5.1	6.9	8.3	9.6	11.0	11.8
Japan	.0	.8	5.0	14.5	16.6	19.0	23.6	23.6	26.9
Finland	.0	.0	.0	1.2	2.3	2.3	2.3	2.3	2.3
Sweden	.0	NEGL	2.4	4.7	7.5	7.5	9.6	9.6	9.6
Switzerland	.0	.4	1.0	1.9	1.9	2.9	2.9	2.9	2.9
European Community	.5	6.8	14.7	33.2	51.3	59.3	74.0	81.0	89.4
Belgium	.0	NEGL	1.7	1.7	3.5	3.5	5.5	5.5	5.5
France	.1	1.7	2.9	12.9	25.3	28.0	33.8	38.9	45.8
Italy	.0	.4	.4	.4	1.3	1.3	1.3	1.3	1.3
Netherlands	.0	.1	.5	.5	.5	.5	.5	.5	.5
Spain	.0	.2	1.1	1.1	2.9	3.8	5.7	5.7	5.7
United Kingdom	.4	4.1	5.3	8.0	8.0	9.9	11.1	11.7	11.7
West Germany	NEGL	.3	2.8	8.6	9.8	12.3	16.1	17.4	18.9
Other countries									
Argentina	.0	.0	.3	.3	.3	.9	.9	.9	.9
Brazil	.0	.0	.0	.0	.0	.6	.6	.6	.6
China (Taiwan)	.0	.0	.0	1.2	3.1	4.0	4.9	4.9	4.9
India	.0	.4	.6	.6	.8	1.0	1.3	1.3	1.3
Pakistan	.0	.0	.1	.1	.1	.1	.1	.1	.1
South Africa	.0	.0	.0	.0	.0	.9	1.8	1.8	1.8
South Korea	.0	.0	.0	.6	1.8	1.8	2.7	4.5	5.4
Communist countries									
USSR and Eastern Europe	NEGL	1.0	6.8	16.1	25.1	30.1	34.6	37.3	44.2
USSR	NEGL	.9	4.8	12.5	20.2	24.3	28.3	29.3	34.8
Eastern Europe	.0	.1	2.0	3.6	4.9	5.8	6.3	8.0	9.4
Bulgaria	.0	.0	.9	.9	1.8	1.8	1.8	1.8	2.7
Czechoslovakia	.0	.0	.1	.9	.9	1.3	1.8	3.1	3.1
East Germany	.0	.1	1.0	1.8	1.8	1.8	1.8	1.8	1.8
Hungary	.0	.0	.0	.0	.4	.9	.9	1.3	1.8
Other									
Yugoslavia	.0	.0	.0	.0	.7	.7	.7	.7	.7

^a Data are as of the end of the year and presented on a net basis except for Communist countries which are gross capacities.

Table 101
Electricity Production ^a*Billion kilowatt-hours*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD ^b	1,713.76	3,521.68	4,399.41	5,227.33	5,405.90	5,671.41	5,877.78	5,958.59	6,126.80
United States ^c	893.72	1,742.73	2,131.06	2,437.82	2,459.24	2,574.07	2,634.65	2,652.70	2,747.00
Of which: Hydro	149.12	250.70	303.15	276.02	332.13	321.15	281.15	290.84	249.70
Australia	23.20	53.89	73.93	96.32	106.28	112.94	121.68	127.66	133.78
Canada	115.10	208.34	278.74	376.05	408.44	437.99	459.05	468.58	474.00
Japan	111.49	359.54	475.79	577.52	618.38	648.67	671.95	676.36	694.00
Sweden	34.72	60.64	80.57	93.43	108.86	123.28	136.54	138.02	129.62
European Community	449.84	929.55	1,138.92	1,386.58	1,409.05	1,473.74	1,541.38	1,581.10	1,608.76
France	75.01	146.97	185.31	243.29	281.29	307.15	325.73	343.03	352.60
Italy	56.24	117.42	147.33	185.74	180.11	179.54	182.28	188.99	200.98
Spain	18.61	56.49	82.38	110.32	114.67	118.12	125.59	127.72	127.00
United Kingdom	136.97	249.11	271.99	284.94	275.58	280.42	293.72	298.15	302.04
West Germany	116.42	242.61	301.80	368.77	371.96	392.80	406.72	406.39	410.00
Other countries									
Brazil	22.86	45.46	80.29	139.49	161.98	178.54	192.73	201.62	183.00
India	20.12	61.21	85.93	119.15	151.00	169.20	183.60	202.57	197.00
Communist countries									
USSR and Eastern Europe	406.22	987.41	1,378.99	1,713.48	1,863.70	1,957.75	2,016.53	2,084.63	2,158.15
USSR	292.27	740.93	1,038.61	1,293.88	1,418.10	1,492.07	1,544.20	1,598.90	1,665.00
Of which: Hydro	50.91	124.38	125.99	183.89	180.36	202.99	214.50	215.70	227.00
Eastern Europe	113.95	246.48	340.38	419.60	445.60	465.68	472.33	485.73	493.15
Bulgaria	4.66	19.52	25.24	34.83	42.64	44.67	41.63	41.82	43.46
Czechoslovakia	24.46	45.16	59.28	72.73	76.28	78.39	80.63	84.77	85.82
East Germany	40.30	67.65	84.51	98.81	104.93	110.00	113.80	115.30	114.20
Hungary	7.62	14.54	20.46	23.87	25.70	26.23	26.73	28.06	29.74
Poland	29.26	64.52	97.17	121.87	125.85	134.79	137.72	140.30	145.83
Romania	7.65	35.09	53.72	67.49	70.20	71.60	71.82	75.48	74.10
Other									
Albania	.19	.96	1.66	NA	NA	NA	NA	NA	NA
China	NA	115.90	195.80	300.62	351.40	377.00	410.70	445.45	496.00
Cuba	2.90	4.89	6.58	9.90	11.40	12.30	12.20	12.00	12.47
North Korea	9.00	14.00	18.00	23.00	26.00	27.00	30.00	31.00	NA
Yugoslavia	8.93	26.02	40.04	59.44	67.56	73.01	74.80	77.92	80.80

^a Data are for total (gross) production at generating centers and therefore include transmission losses and station use (see footnote b).

^b Data are gross production or estimates of gross production based on reported net, adjusted by increasing by 7.5 percent the thermal electric production to include production that is

consumed by the station itself. Hydroelectric production that is consumed by the station itself is a negligible part of the gross production. Therefore, no attempt has been made to adjust the net production for hydroelectric power.

^c Beginning in 1980, data are for public utilities only.

Declassified and Approved For Release 2012/09/07 : CIA-RDP89T01437R000100140006-0
Agriculture

Table 102
Total Grain Production ^a*Million metric tons*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
Developed countries									
United States	181.26	186.72	249.17	269.68	207.50	314.59	347.01	315.97	281.12
Australia	10.81	12.86	17.73	16.36	30.87	28.36	24.91	23.74	19.25
Canada	25.39	26.47	35.26	39.81	46.25	41.85	47.76	55.78	51.22
Japan	20.18	17.00	17.60	13.17	14.07	16.02	16.02	15.78	15.31
New Zealand	.38	.58	.65	.75	.87	1.12	1.00	1.00	.78
South Africa	6.52	8.06	11.50	13.02	6.29	7.48	9.95	10.63	10.73
Turkey	12.12	15.66	21.91	24.21	24.36	26.19	26.12	28.98	29.15
European Community	66.79	86.82	100.37	125.82	121.86	151.02	141.87	134.00	135.01
France	23.02	31.29	35.12	47.36	46.04	57.54	55.07	49.69	51.78
Italy	11.98	16.15	17.15	17.99	18.07	19.92	18.01	18.45	17.96
Spain	7.27	10.30	14.20	18.64	13.75	21.01	20.96	16.27	20.34
United Kingdom	9.46	13.01	13.82	19.42	21.46	26.58	22.44	24.46	21.63
West Germany	15.06	16.07	20.08	22.41	22.54	25.97	25.39	25.13	23.30
Other countries									
Argentina	12.57	19.66	22.79	18.27	30.62	31.11	27.86	26.68	22.98
Bangladesh	14.57	16.86	19.28	21.66	22.85	23.15	24.11	24.14	22.39
Brazil	14.61	22.78	26.19	33.19	29.16	32.68	35.81	37.09	43.13
Columbia	1.56	1.67	2.83	3.24	3.35	3.24	3.12	3.09	3.50
Egypt	5.43	6.62	7.36	7.52	8.08	7.37	8.04	8.61	9.40
India	78.97	101.80	117.35	131.15	154.55	154.71	158.94	158.04	140.70
Indonesia	15.35	22.15	25.26	33.65	40.39	43.43	43.36	45.32	44.80
Mexico	7.36	14.99	16.62	21.11	22.41	23.88	27.15	22.99	24.98
Pakistan	6.24	11.75	12.82	16.86	18.84	17.25	17.42	20.64	18.22
Peru	1.13	1.32	1.48	1.14	1.55	2.16	1.75	1.77	2.25
Thailand	8.38	15.47	18.39	20.60	23.43	24.51	25.46	23.41	20.63
Venezuela	.51	.86	1.09	1.55	1.30	1.43	1.82	2.25	2.35
Zimbabwe	1.01	.79	2.03	1.88	1.06	1.47	2.84	2.68	1.15

Table 102 (continued)
Total Grain Production ^a*Million metric tons*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
Communist countries									
USSR and Eastern Europe	172.71	241.88	213.20	269.78	276.87	268.61	281.74	310.31	311.70
USSR ^b	125.49	186.80	140.12	189.09	192.22	172.63	191.67	210.07	211.36
Eastern Europe ^c	47.22	55.08	73.08	80.69	84.65	95.98	90.07	100.24	100.34
Bulgaria ^d	4.97	6.91	7.87	7.81	8.10	9.24	5.38	8.48	6.14
Czechoslovakia	4.84	7.20	9.28	10.70	11.04	11.98	11.77	10.90	10.80
East Germany	6.38	6.46	8.91	9.63	10.07	11.35	11.60	11.70	11.50
Hungary	6.90	7.62	12.19	14.01	13.74	15.44	14.54	13.90	14.10
Poland	14.30	16.26	19.56	18.34	22.10	24.39	23.73	24.91	26.10
Romania	9.83	10.63	15.27	20.20	19.60	23.58	23.05	30.35	31.70 ^e
Other									
Cambodia ^f	NA	NA	NA	1.60	1.80	1.60	NA	NA	1.80
China ^g	143.50	239.96	284.52	320.56	387.28	407.31	379.11	391.09	402.41
Cuba ^h	.41	.39	.47	.50	.55	.58	.56	.61	.46
Laos ^f	NA	.80	NA	1.10	1.10	1.30	1.30	1.55	1.50
North Korea	2.66	3.50	5.40	4.60	7.00	7.20	7.20	6.80	NA
Vietnam ⁱ	NA	NA	11.50	14.40	16.80	17.30	18.00	18.50	17.60
Yugoslavia	10.93	11.61	15.01	15.66	17.28	18.01	15.83	18.39	NA

^a Data are for the following products, where they are produced: barley, corn, oats, rice, rye, sorghum, and wheat.

^b Including miscellaneous grains and pulses. Measured in bunker weight, that is, gross output from the combine which includes excess moisture, unripe and damaged kernels, weed seeds, and other trash. For comparison with US or other country grain output, an average discount of 11 percent should be applied.

^c Including miscellaneous grains.

^d Including pulses.

^e Romanian government estimate, probably higher than actual.

^f Data reflect only rice production.

^g Including soybeans, broad beans, and field peas. Tubers are included on a grain equivalent basis of 5 metric tons of tubers to 1 metric ton of grain for 1970-87 and on a grain

equivalent basis of 4 metric tons of tubers to 1 metric ton of grain for 1960.

^h Data reflect only government collections of corn and rice; total production of grains is somewhat higher.

ⁱ Including corn, manioc, sweet potatoes, and soybeans on a paddy-equivalent basis (1 ton paddy = 0.63 tons of grain or rice).

Table 103
Wheat Production*Million metric tons*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD									
United States	36.87	36.78	57.89	64.62	65.86	70.62	66.00	56.93	57.29
Australia	7.45	7.89	11.98	10.86	22.02	18.67	16.17	16.19	12.20
Canada	14.11	9.02	17.08	19.29	26.50	21.20	24.25	31.38	26.34
Turkey	7.00	10.08	14.83	16.55	16.44	17.24	17.03	19.03	18.93
European Community	29.18	36.64	40.42	55.51	57.61	74.28	64.60	64.27	65.10
France	11.01	12.92	15.01	23.68	24.74	32.98	28.89	26.59	28.20
Italy	6.79	9.69	9.61	9.16	8.72	10.06	8.46	9.07	9.16
Spain	3.52	4.13	4.30	6.04	4.27	6.05	5.33	4.29	5.77
United Kingdom	3.04	4.24	4.49	8.47	10.88	14.97	12.05	13.91	12.00
West Germany	4.82	5.66	7.01	8.16	9.00	10.22	9.87	10.41	9.97
Other countries									
Argentina	4.20	4.92	8.57	7.78	12.30	13.22	8.70	8.90	9.50
India	10.32	20.09	24.10	31.83	42.79	45.48	44.07	46.88	46.50
Iran	2.60	4.26	5.57	6.00	5.96	5.50	6.63	7.58	7.96
Pakistan	3.91	7.29	7.67	10.86	12.41	10.88	11.70	13.92	12.20
Communist countries									
USSR and Eastern Europe	77.26	118.82	90.30	127.27	106.91	104.44	109.66	126.86	NA
USSR ^a	64.30	99.73	66.22	98.18	77.50	68.60	78.10	92.31	83.31
Eastern Europe	12.96	19.09	24.08	29.09	29.41	35.84	31.56	34.55	NA
Bulgaria	2.38	3.06	3.01	3.87	3.64	4.84	3.05	4.31	3.50
Czechoslovakia	1.50	3.17	4.20	5.39	5.82	6.17	6.02	5.60	5.10
East Germany	1.46	2.13	2.74	3.10	3.55	3.90	3.81	4.10	4.25
Hungary	1.77	2.72	4.01	6.08	5.99	7.34	6.55	5.74	5.70
Poland	2.30	4.61	5.21	4.18	5.16	6.01	6.46	7.50	7.94
Romania	3.55	3.40	4.91	6.47	5.25	7.58	5.67	7.30	NA
Other									
China	22.17	29.19	45.31	55.21	81.39	87.82	85.81	90.30	87.70
Yugoslavia	3.57	3.79	4.40	5.09	5.53	5.60	4.86	4.68	5.27

^a Measured in bunker weight, that is, gross output from the combine which includes excess moisture, unripe and damaged kernels, weed seeds, and other trash. For comparison with US or other country grain output, an average discount of 11 percent should be applied.

Table 104
Coarse Grains Production ^a*Million metric tons*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD									
United States	141.91	146.14	185.46	198.43	137.12	237.68	274.89	252.94	217.96
Canada	11.28	17.45	18.19	20.51	19.74	20.65	23.51	24.41	24.88
Turkey	4.95	5.34	6.84	7.42	7.60	8.68	9.07	9.95	10.22
European Community	40.47	54.47	64.21	75.29	67.79	82.10	81.60	73.90	73.47
Denmark ^b	3.94	5.58	5.69	6.40	4.82	6.84	5.98	5.78	5.18
France	11.90	18.28	20.07	23.65	21.26	24.52	26.12	23.07	23.52
Italy	4.57	5.64	6.53	7.87	8.33	8.85	8.43	8.30	7.74
Spain	3.39	5.79	9.52	12.17	9.26	14.52	15.16	11.48	14.07
United Kingdom	6.42	8.77	9.33	10.95	10.58	11.62	10.39	10.55	9.63
West Germany	10.25	10.41	13.07	14.25	13.54	15.75	15.52	14.72	13.33
Other countries									
Argentina	8.22	14.34	13.87	10.23	18.04	17.42	18.78	17.40	13.04
Brazil	9.10	14.29	16.62	20.71	19.18	21.67	22.46	21.05	27.58
India	16.64	18.31	19.90	19.01	21.71	21.68	18.57	20.45	19.20
Mexico	5.84	11.91	13.10	17.86	18.53	19.00	21.14	17.69	20.29
South Africa	5.76	6.67	9.70	11.55	4.52	5.14	8.27	8.59	8.33
Communist countries									
USSR and Eastern Europe ^c	95.12	121.54	120.60	139.56	167.15	161.24	167.94	175.73	NA
USSR ^d	61.00	85.78	71.88	88.12	112.12	101.30	111.00	115.13	125.73
Eastern Europe	34.12	35.76	48.72	51.44	55.03	59.94	56.94	60.60	NA
Bulgaria	2.56	3.81	4.81	3.89	4.39	4.34	2.25	4.09	2.58
Czechoslovakia	3.34	4.03	5.08	5.31	5.22	5.81	5.75	5.49	NA
East Germany	4.92	4.32	6.17	6.53	6.52	7.45	7.70	7.46	NA
Hungary	5.08	4.78	8.02	7.86	7.70	8.07	7.95	8.16	8.40
Poland	12.00	11.65	14.35	14.16	16.93	18.38	17.28	17.54	NA
Romania	6.22	7.17	10.29	13.69	14.27	15.89	16.01	17.86	NA
Other									
Cuba ^e	.10	.02	.02	.02	.03	.03	.03	.04	.04
Yugoslavia	7.34	7.79	10.57	10.52	11.72	12.38	10.99	13.61	9.67

^a Data are for the following products, where they are produced: barley, corn, oats, rye, and sorghum.

^b Excluding corn.

^c Including miscellaneous grains.

^d Measured in bunker weight, that is, gross output from the combine which includes excess moisture, unripe and damaged kernels, weed seeds, and other trash. For comparison

with US or other country grain output, an average discount of 11 percent should be applied.

^e Corn only.

Table 105
Rice Production ^a*Thousand metric tons*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD									
United States	2,477	3,801	5,826	6,629	4,523	6,296	6,120	6,097	5,870
Japan	16,072	15,861	17,097	12,824	12,958	14,848	14,578	14,559	14,000
European Community	622	819	1,010	968	1,021	1,009	1,123	1,085	1,060
Italy	622	819	1,010	968	1,021	1,009	1,123	1,085	1,060
Other countries									
Bangladesh	14,522	16,733	19,582	20,821	21,751	21,930	22,650	23,100	21,300
Brazil	5,392	5,394	7,782	9,776	7,742	9,027	9,025	10,405	10,438
Burma	6,850	8,162	9,208	13,317	14,288	14,255	14,317	15,219	15,500
India	52,011	63,401	73,352	80,312	90,048	87,553	96,306	90,700	75,000
Indonesia	14,953	19,324	22,340	29,652	35,303	38,136	39,033	39,388	40,000
South Korea	4,151	5,471	6,485	5,311	7,608	7,970	7,855	7,872	7,746
Thailand	9,475	13,570	15,300	17,368	19,549	19,905	20,120	18,890	17,650
Communist countries									
USSR and Eastern Europe	313	1,455	2,215	2,921	2,805	2,924	2,820	NA	NA
USSR	187	1,279	2,009	2,791	2,600	2,720	2,570	2,633	2,683
Eastern Europe	126	176	206	130	205	204	250	NA	NA
Bulgaria	32	66	68	67	74	61	76 ^b	62	60
Hungary	45	45	69	24	47	33	36	44	NA
Romania	49	65	69	39	84	110	138	NA	NA
Other									
Cambodia	NA	NA	NA	1,600	1,700	1,970	1,900	2,100	1,785
China	59,730	109,990	125,560	139,910	168,865	178,255	168,569	172,224	173,900
Cuba ^c	306	375	447	479	518	555	524	576	419
Laos	NA	800	NA	1,100	1,101	1,321	1,471	1,500	1,225
North Korea	1,100	1,400	2,500	2,300	3,500	3,600	3,600	3,400	NA
Vietnam ^d	4,212	4,500	4,500	11,700	14,732	15,528	15,600	15,850	15,266
Yugoslavia	22	32	37	42	40	36	36	40	40

^a Rough, or paddy, rice. Data refer to crops harvested in the last half of the year stated, combined with crops harvested in the first half of the following year.

^b US Department of Agriculture estimates.

^c Milled rice. Data reflect government collection only.

^d Prior to 1980, data for North Vietnam.

Table 106
Sugar Production ^a*Thousand metric tons.*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD									
United States ^b	3,637	5,327	5,955	5,313	5,215	5,342	5,473	6,075	6,645
Australia ^c	1,441	2,507	2,930	3,415	3,171	3,627	3,404	3,457	3,528
European Community	6,002	6,804	7,705	10,383	9,137	10,241	10,394	10,477	10,146
France	2,267	2,580	2,981	4,253	3,875	4,305	4,297	3,707	3,973
Italy	998	1,199	1,429	1,934	1,352	1,385	1,352	1,868	1,875
United Kingdom	860	925	724	1,202	1,185	1,400	1,315	1,433	1,335
West Germany	1,877	2,100	2,571	2,994	2,725	3,151	3,430	3,469	2,963
Other countries ^c									
Brazil	3,319	5,019	6,299	8,270	9,555	9,259	8,100	8,525	8,500
India	2,814	4,634	5,048	4,528	8,452	6,635	7,983	9,474	9,790
Mexico	1,530	2,402	2,636	2,719	3,076	3,308	3,928	3,970	3,980
Philippines	1,398	1,980	2,672	2,332	2,112	2,578	1,561	1,373	1,250
South Africa	952	1,649	1,968	1,780	1,584	2,276	2,247	2,170	2,120
Communist countries									
USSR and Eastern Europe ^c	11,089	15,274	16,086	15,245	19,053	19,237	18,366	19,240	NA
USSR	6,916	11,110	11,285	11,008	13,472	13,548	12,825	13,804	14,891
Eastern Europe	4,173	4,164	4,801	4,237	5,581	5,689	5,541	5,436	NA
Bulgaria	186	403	343	371	476	487	497	539	NA
Czechoslovakia	958	951	913	847	909	1,017	1,053	985	1,008
East Germany	739	587	793	797	920	946	990	885	NA
Hungary	381	304	335	509	518	442	525	459	487
Poland	1,484	1,509	1,857	1,160	2,154	1,921	1,843	1,892	1,821
Romania	425	410	560	553	604	876	633	676	NA
Other									
China ^d	440	1,350	1,740	2,570	3,771	3,799	4,513	5,246	5,110
Cuba	5,942	8,538	6,314	6,665	7,460	7,783	7,889	7,467	7,199
Yugoslavia	243	385	571	709	772	996	1,032	801	948

^a Unless otherwise indicated, data are for beet sugar produced in the calendar year. Data are given in terms of the raw value of centrifugal sugar. Refined sugar is equal to approximately 92 percent of raw sugar weight. Centrifugal, as distinguished from noncentrifugal, sugar includes cane

and beet sugar produced by the centrifugal process and is the principal type of sugar moving in international trade.
^b Including Puerto Rico, for all years except 1960 and 1970.
^c Cane sugar only.
^d Including cane sugar.

Table 107
Soybean Production*Thousand metric tons*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
Developed countries									
United States	15,113	30,675	42,139	48,921	44,518	50,644	57,113	52,801	51,838
Canada	154	283	367	690	735	944	1,048	960	1,267
Japan	418	126	126	174	217	238	228	245	280
European Community									
Italy	NA	NA	1	NA	62	110	286	814	1,300
Other countries									
Argentina	1	27	485	3,600	4,200	7,000	6,750	7,300	7,300
Brazil	246	1,509	9,892	15,156	14,750	15,541	18,278	14,100	17,300
India	NA	NA	150	442	614	955	982	900	1,000
Indonesia	437	498	590	653	536	769	870	900	990
Mexico	NA	240	625	280	600	550	710	610	750
Paraguay	NA	52	220	595	520	550	950	600	950
South Korea	130	232	311	216	233	226	254	234	199
Thailand	26	50	114	100	179	246	309	350	300
Communist countries									
USSR and Eastern Europe									
USSR	168	603	780	525	560	469	458	589	620
Eastern Europe									
Bulgaria	2	8	80	107	82	72	37	54	75
Romania	12	91	213	448	259	407	317	317	400
Other									
China	10,160	11,645	12,062	7,966	9,769	9,705	10,521	11,010	12,100
North Korea	NA	228	290	340	380	400	425	438	NA
Vietnam	3	26	30	32	107	67	86	120	95
Yugoslavia	26	5	30	34	210	228	174	200	237

Table 108
Coffee Production ^a*Thousand metric tons*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
Brazil	1,797	755	1,228	1,061	1,665	1,420	1,911	977	2,280
Cameroon	38	81	87	102	68	139	97	122	95
Columbia	456	570	540	724	816	694	676	708	800
Costa Rica	70	75	79	109	130	137	155	128	145
Dominican Republic	35	42	55	60	68	72	72	55	55
Ecuador	33	78	76	69	81	97	121	118	95
El Salvador	93	129	193	165	155	150	100	141	130
Ethiopia	51	205	174	187	220	139	170	186	175
Guatemala	84	133	129	163	153	177	162	152	160
Honduras	24	34	50	76	74	74	78	78	85
India	67	64	93	150	130	105	122	150	120
Indonesia	92	178	162	295	236	331	348	348	350
Ivory Coast	185	240	270	250	271	85	260	240	275
Kenya	34	59	66	91	87	119	97	125	125
Madagascar	51	67	88	85	81	81	82	82	60
Mexico	123	184	214	208	313	240	308	375	280
Peru	33	65	59	95	91	91	91	97	60
Philippines	32	49	62	145	139	117	133	137	115
Uganda	119	221	213	110	172	204	210	195	185
Zaire	NA	81	64	88	83	81	92	95	120

^a Green coffee.

Table 109
Natural Rubber Production*Thousand metric tons*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
India	25.2	89.9	136.0	155.4	168.0	183.9	198.3	219.0	220.0
Indonesia ^a	620.3	815.2	822.5	1,020.0	997.2	1,115.6	1,130.2	1,034.0	1,085.0
Malaysia ^b	755.7	1,269.2	1,459.3	1,530.0	1,563.7	1,530.6	1,469.5	1,541.9	1,580.0
Sri Lanka	98.8	159.2	148.8	133.2	140.0	141.9	137.5	137.8	130.0
Thailand ^a	170.8	318.8	355.0	501.1	587.2	628.6	725.7	782.1	835.0

^a Exports plus estimated consumption.^b Including data for Malaya and Singapore, Sarawak, and Sabah.

Declassified and Approved For Release 2012/09/07 : CIA-RDP89T01437R000100140006-0
Minerals and Metals

Table 110
Iron Ore Production ^a*Million metric tons*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD ^b									
United States	90.21	91.20	80.13	70.73	38.20	52.10	49.53	39.45	45.00
Australia	4.42	51.19	97.65	95.54	71.04	94.41	96.43	95.60	104.58
Canada	19.80	47.70	46.87	48.75	33.50	41.06	39.50	37.31	37.00
Sweden	21.69	31.51	30.87	27.18	14.26	18.12	20.45	20.49	19.71
European Community	118.00	88.10	70.60	43.30	26.10	25.40	22.60	19.70	16.90
France	66.96	56.80	49.65	28.98	15.93	14.84	14.48	12.56	11.73
Spain	5.64	7.06	8.22	8.87	7.45	7.26	6.72	6.09	4.50
Other countries ^c									
Brazil	9.34	40.20	89.89	114.73	88.72	112.06	128.20	129.54	134.00
India	10.68	31.37	41.40	41.90	38.80	41.03	42.54	48.82	48.50
Liberia	3.05	23.66	24.38	18.19	14.94	15.10	15.32	15.30	13.80
Mexico	.86	4.81	5.35	8.06	8.04	8.32	7.82	7.76	7.80
South Africa	3.10	9.20	12.10	26.30	16.60	24.65	24.41	24.48	24.00
Venezuela	19.49	22.10	24.77	16.10	9.72	13.05	14.76	16.72	17.20
Communist countries									
USSR and Eastern Europe	115.20	207.97	243.83	251.44	251.39	253.38	254.45	255.95	257.51
USSR	105.86	197.14	234.70	244.71	245.20	247.10	248.00	250.00	251.00
Eastern Europe	9.34	10.83	9.13	6.73	6.19	6.28	6.45	5.95	6.51
Bulgaria	.42	2.41	2.34	1.89	1.80	2.06	1.98	2.18	2.70
Czechoslovakia	3.12	1.61	1.77	1.93	1.91	1.87	1.82	1.76	1.80
East Germany	1.64	.42	.06	.05	.04	.04	.04	.00	.00
Hungary	.52	.63	.64	.43	.44	.38	.31	.00	.00
Poland	2.18	2.55	1.25	.10	.01	.01	.01	.01	.01
Romania	1.46	3.21	3.07	2.33	1.99	1.92	2.29	2.00	2.00
Other									
Albania	.25	.40	.47	.75	.85	1.08	1.13	1.15	1.20
China	100.00	72.30	109.00	120.00	113.39 ^d	126.70 ^d	132.00 ^d	140.80 ^d	150.00
North Korea	2.50	6.50	6.75	8.50	12.00	12.50	12.50	12.50	12.50
Yugoslavia	2.20	3.69	5.24	4.53	5.02	5.32	5.48	6.62	5.98

^a Unless otherwise indicated, data are for the gross amount of marketable iron ores in the state in which they leave the mines, including manganiferous ores but excluding pyrites.

^b The metal content of the ore in the OECD countries varies from year to year. The approximate current content is as follows: France, 32 percent; Spain 30 percent; United States

and Canada, 61-63 percent; and Australia and Sweden, 60-65 percent.

^c The metal content of the ore in the other countries ranges from 30 percent to 68 percent.

^d Final product. Data on gross amount of marketable ores not available.

Table 111
Bauxite Production*Thousand metric tons*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD									
United States	2,030	2,125	1,800	1,559	679	656	674	454	514
Australia	70	9,260	21,000	27,178	24,372	31,537	31,839	32,432	33,200
European Community	3,260	5,510	5,610	5,230	4,140	3,910	3,990	3,760	3,340
France	2,070	2,990	2,560	1,921	1,663	1,607	1,530	1,379	1,230
Greece	884	2,290	3,010	3,286	2,455	2,296	2,454	2,225	2,100
Other countries									
Brazil	121	510	970	6,688	7,199	6,433	6,251	6,224	6,450
Guinea	1,378	2,490	8,400	11,862	12,421	13,160	13,100	14,597	14,700
Guyana	2,511	4,417	3,251	2,471	1,087	1,333	1,675	1,466	1,500
Jamaica	5,840	12,000	11,600	12,054	7,683	8,937	5,975	6,964	7,600
Suriname	3,460	6,020	4,930	4,696	3,400	3,454	3,000	3,847	3,000
Communist countries									
USSR and Eastern Europe	4,378	8,972	11,240	12,520	11,052	11,169	11,030	11,242	11,321
USSR ^a	3,100	6,700	8,000	9,100	7,715	7,715	7,715	7,720	7,720
Eastern Europe	1,278	2,272	3,240	3,420	3,337	3,454	3,315	3,522	3,601
Hungary	1,190	2,022	2,890	2,950	2,917	2,994	2,815	3,022	3,101
Romania	88	250	350	470	420	460	500	500	500
Other									
China ^b	640	1,500	2,800	3,300	1,600	1,600	1,650	1,650	1,700
Yugoslavia	1,025	2,098	2,306	3,138	3,500	3,347	3,538	3,459	3,394

^a Including nonbauxite ore such as nepheline and alunite for the production of alumina.

^b Data are for aluminous shales and clays used for the manufacture of aluminum and exclude shales exported and those used for refractories, abrasives, and cement.

Table 112
Pig Iron Production*Million metric tons*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD									
United States	62.2	82.8	72.3	62.3	44.2	47.1	45.3	39.8	43.6
Australia	2.9	6.1	7.5	7.0	5.1	5.3	5.6	5.9	5.6
Canada	4.0	8.2	9.2	11.2	8.6	9.6	9.7	9.2	9.7
Japan	11.9	68.0	86.9	87.0	72.9	80.4	80.6	74.7	73.4
European Community	72.7	102.0	95.3	97.4	80.0	88.9	86.5	84.4	85.7
Belgium	6.5	10.8	9.1	10.5	8.0	9.0	8.7	8.1	8.3
France	14.1	19.2	17.5	19.2	13.9	15.0	15.4	14.0	13.4
Italy	2.7	8.3	11.4	12.1	10.3	11.6	11.7	12.0	11.4
Spain	1.9	4.2	6.8	6.7	5.4	5.3	5.5	4.8	4.9
United Kingdom	16.0	17.5	12.0	6.4	9.5	9.5	10.4	9.8	11.9
West Germany	25.5	33.6	30.1	33.9	26.6	30.2	31.5	29.0	28.5
Other countries									
Brazil	1.8	4.2	7.1	13.0	12.9	17.2	19.0	20.3	20.9
India	4.3	7.0	8.3	8.5	9.1	9.4	9.8	10.5	10.9
Mexico	.7	2.3	3.0	5.3	5.0	5.4	5.1	3.7	3.7
South Africa	2.0	3.9	5.2	7.5	5.2	5.5	6.6	6.8	7.0
South Korea	NEGL	NEGL	1.2	5.6	8.0	8.8	8.8	9.0	11.1
Communist countries									
USSR and Eastern Europe	60.5	110.1	133.4	144.4	143.8	146.2	145.0	149.8	150.1
USSR	46.8	85.9	103.0	107.3	110.5	110.9	110.0	113.8	114.3
Eastern Europe	13.7	24.2	30.4	37.1	33.3	35.3	35.0	36.0	35.8
Bulgaria	.2	1.3	1.6	1.6	1.7	1.6	1.8	1.7	1.7
Czechoslovakia	4.7	7.6	9.3	9.8	9.5	9.6	9.6	9.6	9.8
East Germany	2.0	2.0	2.5	2.5	2.2	2.4	2.6	2.7	2.8
Hungary	1.2	1.8	2.2	2.2	2.0	2.1	2.1	2.1	2.1
Poland ^a	4.6	7.3	8.2	12.0	9.7	10.0	9.8	10.6	10.1
Romania	1.0	4.2	6.6	9.0	8.2	9.6	9.1	9.3	9.3
Other									
China	27.5	22.0	33.8	38.0	37.4	40.0	43.5	50.1	54.3
North Korea	.9	2.1	2.5	3.5	5.5	5.7	5.8	5.8	6.0
Yugoslavia	1.0	1.3	2.0	2.4	2.9	2.8	3.1	3.1	2.9

^a Including ferroalloys.

Table 113
Crude Steel Production ^a*Million metric tons*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD									
United States ^b	90.1	119.3	105.8	101.5	76.8	83.9	80.1	74.0	81.0
Australia ^c	3.8	6.8	7.8	7.6	5.7	6.3	6.6	6.7	6.1
Canada	5.3	11.2	12.9	15.9	12.8	14.7	14.5	14.1	14.7
Japan	22.1	93.3	102.3	111.4	97.2	105.6	105.3	98.3	98.5
European Community	99.8	146.0	138.0	142.0	123.0	134.0	136.0	126.0	127.0
Belgium	7.2	12.6	11.6	12.3	10.2	11.3	10.7	9.7	9.8
France	17.3	23.8	21.5	23.2	17.6	19.0	18.8	17.9	17.7
Italy	8.2	17.3	21.8	26.5	21.7	24.0	23.7	22.9	22.8
Spain	2.0	7.4	11.1	12.6	12.7	13.5	14.2	12.0	11.9
United Kingdom	24.7	28.3	20.2	11.3	15.0	15.1	15.7	14.7	17.2
West Germany	34.1	45.0	40.4	43.8	35.7	39.4	40.5	37.1	36.3
Other countries									
Brazil ^d	2.3	5.4	8.3	15.3	14.7	18.4	20.5	21.2	22.2
India	3.3	6.1	7.1	9.4	10.3	10.3	11.1	12.2	12.6
Mexico	1.5	3.9	5.3 ^e	7.2	7.0	7.6	7.4	7.2	7.4
South Africa	2.1	4.8	6.5	9.1	7.2	7.8	8.6	8.8	8.7
South Korea	NEGL	.5	2.0	8.6	11.9	13.0	13.5	14.6	16.8
Communist countries									
USSR and Eastern Europe	86.5	155.7	192.7	209.6	209.9	214.2	214.3	222.1	224.2
USSR	65.3	115.9	141.3	147.9	152.5	154.2	155.0	161.0	162.0
Eastern Europe	21.2	39.8	51.4	61.7	57.4	60.0	59.3	61.1	62.2
Bulgaria	.2	1.8	2.3	2.6	2.8	2.9	2.9	2.9	2.9
Czechoslovakia	6.8	11.5	14.3	15.3	15.0	14.8	15.0	15.1	15.4
East Germany	3.8	5.1	6.5	7.3	7.2	7.6	7.9	8.0	8.2
Hungary	1.9	3.1	3.7	3.8	3.6	3.8	3.6	3.7	3.6
Poland	6.7	11.8	15.0	19.5	16.2	16.5	16.1	17.1	17.1
Romania	1.8	6.5	9.6	13.2	12.6	14.4	13.8	14.3	15.0
Other									
China	18.7	17.8	24.0	37.1	39.9	43.4	46.6	52.1	56.0
Cuba	NA	.1	.3	.3	.3	.4	.4	.4	.4
North Korea	.6	2.2	2.6	3.6	3.9	4.0	4.5	NA	NA
Yugoslavia	1.4	2.2	2.9	3.6	4.1	4.2	4.5	4.5	4.3

^a Data are for ingots and steel for castings.^b Excluding steel for castings made in foundries operated by companies not producing ingots.^c Twelve months ending 30 June of the stated year.^d Excluding alloy steel.^e Ingots only.

Table 114
Rolled Steel Production ^a*Million metric tons*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD									
United States ^b	69.35	82.37	72.54	76.07	61.31	66.90	66.26	63.46	65.00
Canada ^b	4.13	8.24	9.48	12.29	10.00	8.70	8.62	11.67	12.00
Japan	17.20	76.03	86.28	101.79	91.00	99.00	99.89	93.39	93.00
European Community	78.00	117.00	108.00	119.00	105.00	114.00	114.00	109.00	112.00
Belgium	5.88	10.26	9.10	10.67	8.67	9.71	9.32	8.52	8.50
France	13.70	18.73	17.56	21.00	16.25	17.33	17.23	16.52	17.00
Italy	7.78	14.76	15.41	19.66	17.90	17.84	17.71	17.15	17.00
Spain ^b	1.27	5.46	8.94	10.14	10.79	12.87	11.33	10.03	10.00
United Kingdom	18.41	22.18	15.57	10.08	12.44	12.63	12.82	13.34	15.00
West Germany	25.84	35.97	32.98	37.36	31.32	34.76	35.96	33.65	33.70
Communist countries									
USSR and Eastern Europe	57.82	108.10	137.01	147.92	149.24	152.43	152.89	159.84	160.11
USSR	43.68	80.65	98.69	102.91	106.44	107.30	108.27	113.96	114.00
Eastern Europe	14.14	27.45	38.32	45.01	42.80	45.13	44.62	45.88	46.11
Bulgaria	.19	1.42	2.50	3.21	3.24	3.38	3.33	3.35	3.22
Czechoslovakia	4.48	7.94	10.03	10.76	10.73	10.91	11.04	11.18	11.36
East Germany	2.61	3.41	5.22	5.13	5.08	5.39	5.64	5.90	6.10
Hungary	1.19	2.04	2.68	3.04	2.82	2.95	2.86	2.90	2.82
Poland	4.42	8.14	11.08	13.55	11.73	12.20	11.85	12.34	12.41
Romania	1.25	4.50	6.81	9.32	9.20	10.30	9.90	10.21	10.20
Other									
China	11.30	13.40	16.80	27.16	30.00	33.70	36.92	40.50	43.91
Yugoslavia	.97	1.77	2.36	4.24	4.65	5.67	5.69	5.41	6.26

^a Data are for ingots and steel for castings.^b Steel mill products.

Table 115
Primary Aluminum Production*Thousand metric tons*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD									
United States	1,827	3,607	3,519	4,654	3,353	4,099	3,500	3,037	3,343
Australia	12	206	214	303	478	758	851	882	1,004
Canada	691	972	887	1,068	1,091	1,227	1,282	1,364	1,530
Japan	133	733	1,013	1,091	256	287	227	140	41
Norway ^a	171	522	595	653	713	765	712	712	725
European Community	549	1,160	2,170	2,600	2,280	2,400	2,280	2,350	2,330
France	238	381	383	432	361	342	293	322	300
Greece	NA	91	136	146	136	135	125	126	130
Italy	84	147	190	271	196	230	224	243	240
Netherlands	0	75	258	259	235	249	251	266	280
Spain	29	120	210	386	358	381	370	350	350
United Kingdom ^a	29	40	308	374	252	288	275	276	297
West Germany	169	309	678	731	743	777	745	765	730
Other countries									
Brazil	18	56	121	260	401	455	550	758	840
Ghana	0	113	143	188	42	0	49	125	149
India	18	161	167	185	204	269	260	257	250
Communist countries									
USSR and Eastern Europe	696	1,999	2,825	3,214	3,229	3,335	3,400	3,438	3,426
USSR	565	1,640	2,345	2,705	2,795	2,879	2,940	2,970	2,970
Eastern Europe	131	359	480	509	434	456	460	468	456
Czechoslovakia	20	31	43	38	36	34	32	33	34
East Germany	35	56	60	62	57	58	60	60	60
Hungary	50	66	70	73	74	74	74	74	74
Poland	26	99	103	95	44	46	47	48	48
Romania ^a	0	107	204	241	223	244	247	253	240
Other									
China	80	188	357	415	400	400	410	410	410
Yugoslavia	25	48	168	185	258	270	280	282	244

^a Including aluminum alloys.

Table 116
Cobalt Production ^a*Metric tons*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD									
Australia	13	469	2,079	1,975	1,150	1,080	3,036	2,430	2,500
Canada	1,618	2,609	1,354	1,603	1,584	2,235	2,067	2,486	2,600
Finland	NA	1,270	1,404	1,035	1,035	860	720	627	200
Other countries									
Morocco	1,271	604	1,961	838	0	0	0	0	0
Zaire	8,222	13,958	13,971	15,422	24,767	25,943	29,200	31,000	29,000
Zambia	1,847	2,400	2,057	4,400	3,200	4,620	5,800	5,770	5,580
Communist countries									
USSR	1,600	3,700	5,000	6,000	6,700	NA	NA	NA	NA
Albania	NA	NA	NA	326	450	600	600	600	600
Cuba	NA	1,208	1,240	1,613	1,621	1,397	1,490	1,500	1,600

^a Recoverable cobalt content of ores mined.

Table 117
Gold Production*Million troy ounces*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD									
United States	1.67	1.74	1.05	0.97	1.96	2.06	2.43	3.73	4.97
Australia	1.09	.62	.53	.55	.98	1.30	1.88	2.41	3.47
Canada	4.63	2.41	1.65	1.63	2.36	2.68	2.82	3.36	3.79
Japan	.26	.26	.14	.10	.10	.10	.17	.33	.28
Other countries									
Brazil	.11	.17	.17	1.30	1.85	1.90	2.20	2.30	2.30
Colombia	.43	.20	.31	.51	.43	.73	1.14	1.29	.85
Ghana	.89	.71	.52	.35	.28	.29	.30	.29	.33
Mexico	.30	.20	.14	.20	.20	.27	.27	.25	.25
Philippines	.41	.60	.50	.64	.82	.83	1.06	1.30	1.07
South Africa	21.38	32.20	22.94	21.67	21.85	21.86	21.57	20.51	19.23
Zimbabwe	.56	.44	.35	.37	.45	.48	.47	.48	.48
Communist countries									
USSR	3.63	6.78	8.07	9.45	9.93	10.10	10.32	10.48	10.64

Table 118
Platinum-Group Metals Production

Thousand troy ounces

	1960	1970	1975	1980	1983	1984	1985	1986	1987
United States ^a	24	17	19	3	6	15	NA	NA	NA
Canada	460	482	399	411	224	348	337	392	434
South Africa ^b	406	1,500	2,600	3,100	2,600	3,500	3,700	3,960	4,220
USSR	1,000	2,500	3,300	3,700	3,600	3,700	3,800	3,850	3,900

^a Crude placer platinum and byproduct metals recovered largely from domestic copper refining.

^b Platinum-group metals from platinum ores and osmium and iridium from gold ores.

Declassified and Approved For Release 2012/09/07 : CIA-RDP89T01437R000100140006-0
Chemicals and Manufactured Goods



Table 119
Chemical Fertilizer Production, Nutrient Content ^a*Thousand metric tons*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD ^b	22,334	43,275	46,330	59,514	54,897	57,929	51,585	51,671	NA
United States	7,410	15,789	18,221	23,377	19,955	21,508	17,462	18,903	NA
Canada	496	4,465	6,226	9,816	9,927	10,379	9,537	9,325	NA
Japan	1,544	2,770	2,142	1,850	1,722	1,851	1,692	1,578	NA
European Community	11,208	17,424	16,660	20,089	18,951	19,779	18,787	17,892	NA
France	3,021	4,644	4,354	4,924	4,515	4,646	4,409	4,078	NA
Italy	1,110	1,621	1,511	1,837	1,640	1,880	1,770	1,534	NA
Spain	674	1,604	1,794	2,148	1,871	2,122	2,102	2,218	NA
West Germany	3,897	4,743	3,756	4,824	4,325	4,398	4,078	3,598	NA
Communist countries									
USSR and Eastern Europe	6,511	20,815	32,962	37,166	42,743	44,034	46,239	48,443	NA
USSR ^c	3,281	13,099	21,998	24,767	29,733	30,808	33,194	34,737	36,300
Eastern Europe	3,230	7,716	10,964	12,399	13,010	13,226	13,045	13,706	NA
Bulgaria	127	750	918	947	1,035	1,047	1,010	950	NA
Czechoslovakia	287	680	1,062	1,182	1,123	1,136	962	1,041	NA
East Germany	2,166	3,245	3,984	4,735	4,714	4,732	4,842	5,046	NA
Hungary	102	517	690	847	901	882	864	865	NA
Poland	477	1,629	2,581	2,237	2,324	2,356	2,270	2,526	NA
Romania	71	895	1,729	2,451	2,913	3,073	3,097	3,278	NA
Other									
China	389	2,437	5,254	12,321	13,791	14,610	13,222	13,966	17,032
Yugoslavia	45	364	411	439	442	473	469	533	592

^a Nitrogen fertilizer (in terms of nitrogen), phosphorus fertilizer (in terms of phosphoric anhydride), and potassium fertilizer (in terms of potassium oxide).

^b Data are for "fertilizer years"—in general, the year beginning 1 July of the stated year.

^c Including some products used for technical purposes and microelement fertilizers not elsewhere included.

Table 120
Plastic Production*Thousand metric tons*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD									
United States	2,850	9,660	10,206	12,786	14,729	15,956	16,594	17,425	19,000
Japan	556	5,128	4,373	6,422	6,504	7,424	7,301	7,334	7,867
European Community									
Belgium	46	419	678	1,835	2,246	2,374	2,498	2,770	2,570
Italy	346	1,567	2,053	2,464	2,436	2,718	2,640	2,662	2,760
Netherlands	116	795	1,350	1,975	2,777	2,641	2,450	2,908	2,900
West Germany	982	4,321	5,046	6,710	7,031	7,409	7,553	7,841	8,100
Communist countries									
USSR and Eastern Europe	560	2,860	4,919	7,103	8,377	8,985	9,196	9,672	NA
USSR *	312	1,670	2,838	3,637	4,419	4,819	5,019	5,345	5,500
Eastern Europe	248	1,190	2,081	3,466	3,958	4,166	4,177	4,327	NA
Bulgaria	7	89	156	255	398	430	406	420	319
Czechoslovakia	64	245	428	894	1,002	1,039	1,103	1,140	1,152
East Germany	115	370	605	861	1,045	1,056	1,048	1,045	NA
Hungary	10	56	124	328	345	385	389	426	539
Poland	40	224	421	549	535	601	603	632	639
Romania	12	206	347	579	633	655	628	664	NA
Other									
China	54	176	330	898	1,121	1,180	1,234	1,322	1,571
Yugoslavia	15	97	160	483	466	551	586	647	701

* Including resins for manmade fibers.

Table 121
Synthetic Rubber Production*Thousand metric tons*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD	1,913	4,546	4,478	5,423	5,039	5,568	5,393	5,362	5,574
United States	1,459	2,232	1,990	2,215	1,987	2,219	2,026	2,013	2,140
Canada	162	205	173	253	182	218	209	187	175
Japan	23	698	789	1,094	1,002	1,160	1,158	1,150	1,190
European Community	269	1,378	1,474	1,771	1,783	1,877	1,902	1,904	1,958
France	17	316	350	511	514	551	544	542	540
Italy	67	155	200	250	220	215	225	235	240
Netherlands	12	200	216	212	196	207	235	209	235
United Kingdom	92	316	261	212	262	289	270	289	290
West Germany	81	302	316	390	418	438	448	452	460
Other countries									
Brazil	0	75	129	249	221	258	266	271	290
Mexico	0	44	60	91	124	139	146	130	140
Communist countries									
USSR and Eastern Europe	485	1,330	2,103	2,548	2,484	2,612	2,643	2,817	2,828
USSR	378	1,035	1,676	2,040	1,970	2,085	2,125	2,320	2,360
Eastern Europe	107	295	427	508	514	527	518	497	468
Bulgaria	0	4	19	30	25	26	26	25	25
Czechoslovakia	0	50	57	60	67	71	70	76	75
East Germany	87	118	144	150	155	152	140	118	85
Poland	20	62	108	118	120	119	126	116	117
Romania	0	61	99	150	147	159	156	162	166

Table 122
Synthetic Fibers Production ^a*Thousand metric tons*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD									
United States	307.2	1,626.7	2,664.4	3,571.4	3,416.0	3,389.1	3,430.7	3,550.9	3,772.0
Japan	118.3	1,027.9	1,062.0	1,400.4	1,438.8	1,414.8	1,446.0	1,402.8	1,387.2
European Community	208.0	1,430.0	1,830.0	2,030.0	2,130.0	2,210.0	2,090.0	2,300.0	2,250.0
France	45.3	175.2	208.8	224.4	207.6	213.6	202.8	184.8	180.0
Italy	33.7	241.7	316.8	399.6	540.0	597.6	660.0	676.8	660.0
United Kingdom ^b	61.0	336.9	361.2	288.0	225.6	234.0	231.6	207.6	186.0
West Germany	52.3	497.0	633.6	721.2	758.4	770.4	796.8	832.8	824.4
Other countries									
South Korea	NEGL	46.2	267.9	537.6	663.6	683.3	701.2	774.5	833.3
Communist countries									
USSR and Eastern Europe	35.5	361.4	819.0	1,203.8	1,396.3	NA	NA	NA	NA
USSR	15.0	167.0	365.0	570.0	708.0	744.0	789.0	856.0	904.0
Eastern Europe	20.5	194.4	454.0	633.8	688.3	NA	NA	NA	NA
Bulgaria	.0	23.1	41.7	55.5	61.9	NA	NA	NA	NA
Czechoslovakia	3.4	31.4	69.4	110.0	129.0	134.0	137.0	NA	NA
East Germany	7.8	47.3	111.8	138.7	151.0	154.0	158.0	NA	NA
Hungary	.4	5.6	11.3	20.6	22.8	22.3	23.8	24.1	29.9
Poland	8.0	57.5	124.2	168.0	152.4	160.3	164.0	155.4	161.0
Romania	.9	29.5	95.6	141.0	171.2	281.3	257.2	302.7	NA
Other									
Yugoslavia	NA	8.7	18.5	49.9	74.1	100.0	99.0	97.3	107.9

^a Data are for noncellulosic fibers whether made of natural polymers, which are based on materials such as casein or groundnuts, or made of synthetic polymers, which are based mostly on coal or petroleum. Data exclude waste, glass fibers, and rubber fibers.

^b "Delivery weight," approximately 3 percent less than "actual weight," prior to mid-1970. Thereafter, approximately one-half of production is reported as "actual weight."

Table 123
Passenger Automobile Production*Thousand units*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD									
United States ^a	6,675	6,547	6,713	6,400	6,739	7,621	8,002	7,516	7,085
Canada	326	923	1,045	847	969	1,033	1,075	1,061	760
Japan	165	3,179	4,568	7,038	7,152	7,073	7,645	7,811	7,891
European Community	4,960	9,870	9,200	10,500	10,800	10,300	10,700	11,100	11,700
France	1,136	2,458	2,951	3,487	3,228	2,910	2,784	2,732	2,959
Italy ^b	596	1,720	1,348	1,445	1,396	1,436	1,354	1,643	1,692
Spain	NA	455	702	1,048	1,136	1,174	1,217	1,298	1,421
United Kingdom	1,353	1,641	1,268	924	1,045	910	1,048	1,019	1,142
West Germany	1,817	3,528	2,905	3,512	3,875	3,784	4,165	4,273	4,340
Other countries									
Brazil ^c	57	255	554	652	685	666	460	479	446
Malaysia ^d	NA	21	39	79	97	94	70	44	30
Mexico ^e	NA	137	262	316	214	247	286	198	223
South Korea ^e	NA	NA	NA	58	128	167	262	457	796
Communist countries									
USSR and Eastern Europe	272	710	1,782	2,142	2,055	2,128	2,158	2,163	NA
USSR	139	344	1,201	1,327	1,315	1,327	1,332	1,326	1,332
Eastern Europe	133	366	581	815	740	801	826	837	NA
Bulgaria	0	8	15	15	15	16	15	20	20
Czechoslovakia	56	143	175	184	178	180	184	185	172
East Germany	64	127	159	177	188	202	210	218	217
Poland ^e	12	64	164	351	269	278	283	290	293
Romania ^f	1	24	68	88	90	125	134	124	NA
Other									
Yugoslavia ^e	4	111	183	255	220	244	228	253	296

^a Factory sales. Starting in 1980 excluding passenger vans.^b Excluding production for the armed forces.^c Including vehicles assembled from imported parts.^d Assembly only. Data refer to Peninsular Malaysia.^e Excluding special passenger cars.^f Including jeeps.

Table 124
Truck and Bus Production ^a*Thousand units*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD ^b									
United States ^c	1,194	1,692	2,272	1,667	2,414	3,075	3,357	3,393	3,821
Canada	72	236	379	528	554	809	856	785	813
Japan	595	2,126	2,376	4,006	3,966	4,037	4,711	4,458	4,367
European Community	1,000	1,290	1,240	1,620	1,090	1,120	1,380	1,250	1,390
France	234	292	336	505	332	424	460	462	511
Italy ^d	49	134	109	167	179	160	185	179	187
Spain	17	77	113	146	31	32	154	173	232
United Kingdom	458	458	380	389	245	224	266	229	247
West Germany	238	318	288	380	283	264	295	179	186
Other countries									
Brazil	76	161	395	516	319	329	508	630	574
Communist countries									
USSR and Eastern Europe	452	729	977	1,089	NA	NA	NA	NA	NA
USSR	385	572	763	872	875	880	900	918	NA
Eastern Europe	67	157	214	217	NA	NA	NA	NA	NA
Bulgaria	0	3	6	7	8	8	10	9	10
Czechoslovakia ^e	18	27	33	46	43	47	48	50	51
East Germany	13	27	38	40	40	41	46	47	NA
Hungary ^e	4	10	13	14	12	13	14	14	14
Poland	23	53	85	74	57	61	62	60	61
Romania	9	37	39	36	NA	NA	NA	NA	NA
Other									
China ^f	15	70	133	136	137	182	269	229	283
North Korea	3	8	10	12	15	16	16	16	NA
Yugoslavia	6	17	19	21	16	16	16	15	14

^a Unless otherwise indicated, data are for light and heavy trucks, wheeled tractors for road haulage, special vehicles, and buses.

^b Data include complete units exported for assembly.

^c Factory sales, including passenger vans starting in 1980.

^d Excluding production for the armed forces.

^e Excluding wheeled tractors.

^f Excluding buses, jeeps, and three-wheel trucks.

Table 125
Rubber Tire Production ^a*Thousand units*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD									
United States ^b	123,059	193,971	191,999	159,263	186,923	209,375	196,923	190,289	203,680
Japan ^c	10,100	63,828	74,580	113,004	134,616	135,360	146,940	132,936	137,028
European Community									
France ^d	16,518	39,415	39,365	50,544	47,328	44,316	46,244	51,132	54,096
Italy ^e	NA	22,383	25,716	52,320	37,944	39,900	41,112	41,112	41,100
United Kingdom ^e	15,904	30,540	26,008	26,346	23,976	24,115	24,220	25,643	28,628
West Germany ^e	14,745	37,548	32,016	37,800	37,884	39,252	40,260	42,756	47,112
Communist countries									
USSR and Eastern Europe	25,294	51,717	76,876	89,930	90,691	94,779	98,474	98,514	NA
USSR	17,225	34,620	51,480	60,100	62,000	63,700	65,200	66,000	67,800
Eastern Europe	8,069	17,097	25,396	29,830	28,691	31,079	33,274	32,514	NA
Bulgaria	204	919	1,736	2,117	2,317	2,415	2,479	2,490	2,760
Czechoslovakia	2,387	3,933	5,945	6,740	6,217	6,500	6,311	5,208	NA
East Germany	2,714	4,692	6,272	7,067	7,380	7,784	8,362	8,582	8,760
Hungary	551	1,090	1,013	840	735	793	825	857	889
Poland ^e	1,862	3,955	6,644	8,020	6,696	7,705	8,087	7,918	7,993
Romania	351	2,508	3,786	5,046	5,346	5,882	7,210	7,459	NA
Other									
China	NA	4,200	7,000	11,000	12,710	15,345	18,527	19,932	24,478
Cuba	325	202	368	387	353	450	472	436	344
Yugoslavia	391	2,763	5,110	9,584	9,423	9,858	11,194	11,632	11,718

^a Unless otherwise indicated, data are for all motor vehicle tires, excluding aircraft and bicycle tires.

^b Excludes motorcycle tires after 1975.

^c Excluding motorcycle tires.

^d Excluding motorcycle, tractor, and agricultural tires.

^e Excluding motorcycle and moped tires prior to 1987.

Declassified and Approved For Release 2012/09/07 : CIA-RDP89T01437R000100140006-0
Foreign Trade and Aid



Table 126
Exports by Selected Non-Communist Countries ^a*Million US \$*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD	80,932	210,577	544,791	1,187,510	1,101,407	1,179,152	1,222,760	1,414,241	1,653,037
United States	20,601	43,241	108,112	220,786	200,538	217,890	213,144	217,307	250,405
Australia	2,050	4,771	11,943	22,031	19,335	23,157	22,740	22,622	26,516
Austria	1,120	2,857	7,519	17,489	15,428	15,739	17,239	22,508	27,168
Canada	5,813	16,747	34,074	67,734	76,749	90,272	90,950	90,193	98,121
Japan	4,055	19,318	55,819	130,441	146,965	169,700	177,164	210,757	231,223
New Zealand	847	1,223	2,162	5,421	5,414	5,518	5,720	5,880	7,196
Norway	881	2,457	7,232	18,542	17,997	18,886	19,985	18,230	21,669
Sweden	2,566	6,795	17,383	30,906	27,446	29,378	30,461	37,263	44,518
Switzerland	1,859	5,063	12,953	29,632	25,591	25,849	27,450	37,471	45,515
Turkey	321	588	1,401	2,910	5,728	7,134	7,958	7,999	10,164
European Community	43,539	116,664	309,188	691,208	598,875	613,310	649,245	795,448	953,525
Belgium-Luxembourg	3,792	11,600	28,804	64,656	51,937	51,891	53,742	68,892	84,097
Denmark	1,494	3,356	8,712	16,982	16,042	15,981	17,090	21,293	25,627
France	6,866	18,099	53,120	116,030	94,943	97,566	101,674	124,948	148,534
Greece	203	643	2,294	5,153	4,413	4,811	4,539	5,648	5,613
Ireland	427	1,120	3,192	8,398	8,599	9,641	10,357	12,657	15,990
Italy	3,654	13,206	34,816	77,673	72,861	73,527	78,712	97,811	111,967
Netherlands	4,028	11,648	35,022	73,940	64,665	65,519	68,039	79,435	93,148
Portugal	326	946	1,939	4,640	4,599	5,201	5,685	7,242	9,163
Spain	725	2,388	7,690	20,720	19,734	23,564	24,247	27,206	33,979
United Kingdom	10,609	19,430	43,423	110,155	91,641	93,881	101,248	106,989	131,239
West Germany	11,415	34,228	90,176	192,861	169,441	171,728	183,912	243,327	294,168
OPEC	7,510	17,018	113,503	303,537	178,264	165,732	147,351	129,071	130,459
Algeria	394	1,009	4,700	13,871	11,163	11,861	10,149	7,875	9,382
Ecuador	146	190	974	2,481	2,348	2,620	2,905	2,172	2,021
Gabon	47	144	943	2,531	1,975	2,011	1,951	1,951 ^b	1,951 ^b
Indonesia	841	1,108	7,102	21,909	21,152	21,902	18,590	14,824	14,824 ^c
Iran	844	2,623	20,211	14,106	19,378	12,422	13,328	13,328 ^b	13,328 ^b
Iraq	467	847	8,297	26,278	9,785	9,785 ^d	9,785 ^d	9,785 ^d	9,785 ^d
Kuwait	962	1,693	9,184	19,842	11,574	12,279	10,481	7,383	7,943
Libya	12	2,366	6,840	21,919	11,089	11,140	10,928	10,928 ^b	10,928 ^b
Nigeria	475	1,240	8,001	25,946	10,357	11,856	12,548	12,548 ^b	12,548 ^b

Table 126 (continued)
Exports by Selected Non-Communist Countries ^a

Million US \$

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OPEC (continued)									
Qatar	126	237	1,809	5,672	3,338	4,513	3,542	2,326	2,326 ^c
Saudi Arabia	891	2,424	29,683	109,083	45,861	37,545	27,481	20,085	20,900
United Arab Emirates	0	510	6,959	20,678	15,085	13,827	13,125	15,837	14,036 ^b
Venezuela	2,305	2,627	8,800	19,221	15,159	13,971	12,538	10,029	10,487
Other countries									
Argentina	1,079	1,773	2,961	8,021	7,836	8,107	8,396	6,852	6,196
Brazil	1,268	2,739	8,670	20,132	21,899	27,005	25,639	22,393	26,213
Chile	488	1,249	1,552	4,671	3,836	3,657	3,823	4,222	5,091
China (Taiwan)	164	1,428	5,301	19,774	25,095	30,425	30,690	39,789	53,538
Columbia	465	736	1,465	3,945	3,081	3,462	3,552	5,102	5,276
Dominican Republic	180	249	894	962	785	868	735	718	711
Egypt	568	762	1,402	3,047	3,214	3,140	3,714	2,934	2,934 ^c
El Salvador	117	236	531	1,074	735	725	679	757	757 ^c
Guatemala	116	298	641	1,557	1,190	1,137	986	655	655 ^c
Hong Kong	689	2,514	6,027	19,730	21,954	28,317	30,184	35,440	48,466
India	1,332	2,026	4,355	8,586	9,148	9,916	9,214	9,499	11,343
Israel	217	779	1,941	5,538	5,108	5,807	6,260	7,136	7,136 ^c
Jamaica	159	342	759	963	713	714	549	596	649
Lebanon	43	192	1,121	868	691	582	482	500	500 ^c
Malaysia	1,187	1,687	3,843	12,945	14,104	16,484	15,441	13,874	17,919
Mexico	765	1,403	2,904	15,570	21,819	24,407	22,108	16,237	20,887
Morocco	354	488	1,543	2,441	2,006	2,171	2,165	2,454	2,454 ^c
Pakistan	394	397	1,052	2,618	3,077	2,558	2,740	3,384	4,172
Peru	444	1,034	1,291	3,898	2,722	3,147	2,979	2,509	2,547
Philippines	624	1,041	2,294	5,741	4,890	5,274	4,607	4,770	5,649
Singapore	1,136	1,554	5,376	19,375	21,833	24,070	22,812	22,495	28,616
South Africa ^c	1,995	3,355	8,959	25,680	18,608	17,348	16,523	18,454	18,454 ^c
South Korea	33	835	5,081	17,505	24,445	29,245	30,283	34,715	47,281
Sri Lanka	385	342	569	1,062	1,063	1,467	1,333	1,215	1,393
Syria	113	203	930	2,108	1,923	1,853	1,640	1,325	1,325 ^c
Thailand	411	710	2,208	6,505	6,368	7,413	7,121	8,794	11,667

^a Data are from the International Monetary Fund, *International Financial Statistics*. Exports are f.o.b.^b Data are for 1985.^c Data are for 1986.^d Data are for 1983.^e Including data for Botswana, Lesotho, Swaziland, and Namibia.

Table 127
Imports by Selected Non-Communist Countries ^a*Million US \$*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD	83,175	220,009	572,309	1,325,040	1,172,321	1,282,809	1,330,015	1,492,351	1,756,980
United States	16,381	42,695	105,880	256,984	269,878	341,179	361,627	387,081	424,081
Australia	2,662	5,056	10,697	22,399	21,458	25,919	25,889	26,104	29,308
Austria	1,416	3,549	9,394	24,444	19,367	19,629	20,986	26,851	32,724
Canada	6,073	14,251	36,106	62,544	64,789	77,789	80,640	85,068	92,730
Japan	4,491	18,881	57,860	141,296	126,437	136,176	130,488	127,553	150,782
New Zealand	786	1,245	3,155	5,472	5,333	6,203	5,992	6,063	7,276
Norway	1,462	3,702	9,705	16,926	13,497	13,885	15,556	20,300	22,655
Sweden	2,901	7,007	17,450	33,438	26,098	26,426	28,547	32,693	40,702
Switzerland	2,206	6,374	13,303	36,341	29,192	29,521	30,702	41,039	50,652
Turkey	468	948	4,739	7,909	9,235	10,757	11,035	11,027	13,269
European Community	47,128	124,920	326,691	772,517	628,713	637,506	660,597	780,770	955,130
Belgium-Luxembourg	3,970	11,412	30,781	71,864	55,313	55,455	56,190	68,656	83,231
Denmark	1,805	4,407	10,368	19,428	16,257	16,612	18,245	22,878	25,487
France	6,282	19,131	53,966	134,889	106,249	104,372	108,251	129,402	158,475
Greece	702	1,958	5,357	10,548	9,500	9,435	10,134	11,350	12,542
Ireland	634	1,621	3,778	11,153	9,170	9,674	10,015	11,619	13,638
Italy	4,732	14,970	38,535	99,662	79,808	85,163	87,693	99,452	125,275
Netherlands	4,531	13,300	35,531	78,039	61,971	62,274	65,008	75,292	91,424
Portugal	544	1,556	3,839	9,309	8,240	7,961	7,652	9,650	13,424
Spain	722	4,747	16,265	34,078	29,193	28,831	29,963	35,057	48,834
United Kingdom	13,034	21,871	53,341	115,545	100,071	104,722	108,957	126,330	154,454
West Germany	10,172	29,947	74,930	188,002	152,941	153,007	158,489	191,084	228,346
OPEC	5,403	9,931	52,080	133,050	145,180	126,458	105,788	99,614	94,544
Algeria	1,264	1,257	6,008	10,826	10,399	10,288	9,841	10,162	6,233
Ecuador	114	274	987	2,253	1,487	1,616	1,767	1,810	2,052
Gabon	32	80	469	822	1,705	1,776	1,952	951	951 ^b
Indonesia	574	1,002	4,770	10,834	16,352	13,882	10,259	10,724	12,480
Iran	560	1,662	10,343	12,246	18,320	15,370	11,635	10,521	10,359 ^b
Iraq	390	508	4,214	13,942	12,166	11,078	10,556	10,190	9,302 ^b
Kuwait	242	625	2,390	6,529	7,373	6,896	5,934	5,759	6,600
Libya	169	554	3,542	6,777	7,467	6,800	5,422	4,511	3,650
Nigeria	604	1,059	6,041	16,660	12,254	9,364	8,877	8,877 ^c	8,877 ^c
Qatar	32	64	413	1,423	1,456	1,162	1,140	1,010	1,010 ^b

Table 127 (continued)
Imports by Selected Non-Communist Countries ^d

Million US \$

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OPEC (continued)									
Saudi Arabia	234	710	4,214	30,165	39,197	33,696	23,622	19,112	17,600
United Arab Emnirates	0	267	2,685	8,746	8,294	6,936	6,549	6,422	7,000
Venezuela	1,188	1,869	6,004	11,827	8,710	7,594	8,234	9,565	8,430
Other countries									
Argentina	1,249	1,694	3,947	10,541	4,504	4,585	3,814	4,724	5,704
Brazil	1,462	2,849	13,592	24,961	16,801	15,210	14,332	15,557	15,052
Chile	526	941	1,338	5,124	2,754	3,191	2,743	2,914	3,793
China (Taiwan)	297	1,528	5,960	19,750	20,315	21,995	20,120	24,165	34,506
Columbia	519	843	1,495	4,663	4,968	4,498	4,141	3,862	4,232
Dominican Republic	100	304	889	1,640	1,471	1,446	1,487	1,433	1,783
Egypt	668	787	3,934	4,860	10,275	10,766	9,961	11,502	11,502 ^b
El Salvador	122	214	598	962	891	977	961	902	902 ^b
Guatemala	121	284	733	1,598	1,126	1,279	1,175	619	592
Hong Kong	1,026	2,905	6,766	22,409	24,013	28,567	29,705	35,366	48,455
India	2,303	2,124	6,381	14,864	14,061	14,361	16,075	15,406	16,596
Israel	556	2,115	6,093	9,685	9,591	9,800	10,163	10,737	10,737 ^b
Jamaica	217	525	1,124	1,171	1,480	1,130	1,124	964	1,207
Lebanon	290	653	2,048	3,650	3,661	2,948	2,203	2,203	2,203 ^b
Malaysia	911	1,401	3,566	10,779	13,262	14,051	12,302	10,829	12,700
Mexico	1,186	2,461	6,570	19,460	8,023	11,788	13,993	12,032	12,731
Morocco	413	684	2,568	4,255	3,592	3,911	3,850	3,803	12,729
Pakistan	654	731	2,158	5,350	5,329	5,853	5,890	5,374	5,822
Peru	379	622	2,551	2,500	3,049	2,212	2,023	2,829	3,297
Philippines	715	1,236	3,756	8,295	7,976	6,432	5,459	5,394	6,952
Singapore	1,332	2,461	8,134	24,003	28,158	28,667	26,285	25,511	32,486
South Africa ^e	1,629	3,843	8,293	19,246	15,704	16,234	11,469	12,989	15,329
South Korea	344	1,984	7,274	22,292	26,192	30,631	31,136	31,585	41,020
Sri Lanka	413	386	757	2,057	1,935	1,869	1,988	1,947	2,055
Syria	239	360	1,685	4,118	4,542	4,116	3,967	2,703	2,703 ^b
Thailand	447	1,299	3,280	9,214	10,287	10,398	9,242	9,178	12,964

^a Data are from the International Monetary Fund, *International Financial Statistics*. Imports are c.i.f.

^b Data are for 1986.

^c Data are for 1985.

^d Data are from the International Monetary Fund, *International Financial Statistics*. Exports are f.o.b.

^e Including data for Botswana, Lesotho, Swaziland, and Namibia.

Table 128
Trade Balance of Selected Non-Communist Countries

Million US \$

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD	-2,243	-9,432	-27,518	-137,530	-70,914	-103,657	-107,255	-78,110	-103,943
United States	4,220	546	2,232	-36,198	-69,340	-123,289	-148,483	-169,774	-173,676
Australia	-612	-285	1,246	-368	-2,123	-2,762	-3,149	-3,482	-2,792
Austria	-296	-692	-1,875	-6,955	-3,939	-3,890	-3,747	-4,343	-5,556
Canada	-260	2,496	-2,032	5,190	11,960	12,483	10,310	5,125	5,391
Japan	-436	437	-2,041	-10,855	20,528	33,524	46,676	83,204	80,441
New Zealand	61	-22	-993	-51	81	-685	-272	-183	-80
Norway	-581	-1,245	-2,473	1,616	4,500	5,001	4,429	-2,070	-986
Sweden	-335	-212	-67	-2,532	1,348	2,952	1,914	4,570	3,816
Switzerland	-347	-1,311	-350	-6,709	-3,601	-3,672	-3,252	-3,568	-5,137
Turkey	-147	-360	-3,338	-4,999	-3,507	-3,623	-3,077	-3,028	-3,105
European Community	-3,589	-8,256	-17,503	-81,309	-29,838	-24,196	-11,352	14,678	-1,605
Belgium-Luxembourg	-178	188	-1,977	-7,208	-3,376	-3,564	-2,448	236	866
Denmark	-311	-1,051	-1,656	-2,446	-215	-631	-1,155	-1,585	140
France	584	-1,032	-846	-18,859	-11,306	-6,806	-6,577	-4,454	-9,941
Greece	-499	-1,315	-3,063	-5,395	-5,087	-4,624	-5,595	-5,702	-6,929
Ireland	-207	-501	-586	-2,755	-571	-33	342	1,038	2,352
Italy	-1,078	-1,764	-3,719	-21,989	-6,947	-11,636	-8,981	-1,641	-13,308
Netherlands	-503	-1,652	-509	-4,099	2,694	3,245	3,031	4,143	1,724
Portugal	-218	-610	-1,900	-4,669	-3,641	-2,760	-1,967	-2,408	-4,261
Spain	3	-2,359	-8,575	-13,358	-9,459	-5,267	-5,716	-7,851	-14,855
United Kingdom	-2,425	-2,441	-9,918	-5,390	-8,430	-10,841	-7,709	-19,341	-23,215
West Germany	1,243	4,281	15,246	4,859	16,500	18,721	25,423	52,243	65,822
OPEC	2,107	7,087	61,423	170,487	33,084	39,274	41,563	29,457	35,915
Algeria	-870	-248	-1,308	3,045	764	1,573	308	-2,287	3,149
Ecuador	32	-84	-13	228	861	1,004	1,138	362	-31
Gabon	15	64	474	1,709	270	235	-1	1,000 ^a	1,000 ^a
Indonesia	267	106	2,332	11,075	4,800	8,020	8,331	4,100	2,344 ^b
Iran	284	961	9,868	1,860	1,058	-2,948	1,693	2,807 ^a	22,969
Iraq	77	339	4,083	12,336	-2,381	-1,293 ^c	-771 ^c	-405 ^c	483 ^c
Kuwait	720	1,068	6,794	13,313	4,201	5,383	4,547	1,624	1,343
Libya	-157	1,812	3,298	15,142	3,622	4,340	5,506	6,417 ^a	7,278 ^a
Nigeria	-129	181	1,960	9,286	-1,897	2,492	3,671	3,671 ^a	3,671 ^a

Table 128 (continued)

Million US \$

Trade Balance of Selected Non-Communist Countries

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OPEC (continued)									
Qatar	94	173	1,396	4,249	1,882	3,351	2,402	1,316	1,316 ^b
Saudi Arabia	657	1,714	25,469	78,918	6,664	3,849	3,859	973	3,300
United Arab Emirates	0	243	4,274	11,932	6,791	6,891	6,576	9,415	7,036 ^a
Venezuela	1,117	758	2,796	7,394	6,449	6,377	4,304	464	2,057
Other countries									
Argentina	-170	79	-986	-2,520	3,332	3,522	4,582	2,128	492
Brazil	-194	-110	-4,922	-4,829	5,098	11,795	11,307	6,836	11,161
Chile	-38	308	214	-453	1,082	466	1,080	1,308	1,298
China (Taiwan)	-133	-100	-659	24	4,780	8,430	10,570	15,624	19,032
Columbia	-54	-107	-30	-718	-1,887	-1,036	-589	1,240	1,044
Dominican Republic	80	-55	5	-678	-686	-578	-752	-715	-1,072
Egypt	-100	-25	-2,532	-1,813	-7,061	-7,626	-6,247	-8,568	-8,568 ^b
El Salvador	-5	22	-67	112	-156	-252	-282	-145	-145 ^b
Guatemala	-5	14	-92	-41	64	-142	-189	36	63 ^b
Hong Kong	-337	-391	-739	-2,679	-2,059	-250	479	74	11
India	-971	-98	-2,026	-6,278	-4,913	-4,445	-6,861	-5,907	-5,253
Israel	-339	-1,336	-4,152	-4,147	-4,483	-3,993	-3,903	-3,601	-3,601 ^b
Jamaica	-58	-183	-365	-208	-767	-416	-575	-368	-558
Lebanon	-247	-461	-927	-2,782	-2,970	-2,366	-1,721	-1,703	-1,703 ^b
Malaysia	276	286	277	2,166	842	2,433	3,139	3,045	5,219
Mexico	-421	-1,058	-3,666	-3,890	13,796	12,619	8,115	4,205	8,156
Morocco	-59	-196	-1,025	-1,814	-1,586	-1,740	-1,685	-1,349	-10,275 ^b
Pakistan	-260	-334	-1,106	-2,732	-2,252	-3,295	-3,150	-1,990	-1,650
Peru	65	412	-1,260	1,398	-327	935	956	-320	-750
Philippines	-91	-195	-1,462	-2,554	-3,086	-1,158	-852	-624	-1,303
Singapore	-196	-907	-2,758	-4,628	-6,325	-4,597	-3,473	-3,016	-3,870
South Africa ^d	366	-488	666	6,434	2,904	1,114	5,054	5,465	3,125 ^b
South Korea	-311	-1,149	-2,193	-4,787	-1,747	-1,386	-853	3,130	6,261
Sri Lanka	-28	-44	-188	-995	-872	-402	-655	-732	-662
Syria	-126	-157	-755	-2,010	-2,619	-2,263	-2,327	-1,378	-1,378 ^b
Thailand	-36	-589	-1,072	-2,709	-3,919	-2,985	-2,121	-384	-1,297

^a Data are for 1985.^b Data are for 1986.^c Data are for 1983.^d Including data for Botswana, Lesotho, Swaziland, and Namibia.

Table 129
Big Seven Direction of Trade ^a

Million US \$

	Exports to (f.o.b.)						Imports from (c.i.f.)					
	World	Big Seven	Other OECD	OPEC	Com-munist	Other	World	Big Seven	Other OECD	OPEC	Com-munist	Other
United States												
1980	220,781	92,836	34,893	17,763	8,404	66,884	256,959	107,737	19,386	58,091	3,211	68,533
1982	212,274	86,349	33,274	22,862	7,051	62,737	254,882	124,238	20,302	32,731	4,062	73,548
1983	200,528	89,365	30,752	16,905	5,660	57,856	269,880	134,361	20,983	26,493	4,379	83,663
1984	217,789	101,804	31,282	14,385	7,648	62,769	341,770	177,157	28,245	28,061	6,265	101,440
1985	213,146	100,925	31,209	12,480	7,686	60,846	361,620	198,952	30,447	24,061	6,943	101,216
1986	217,291	106,247	33,402	10,844	5,655	61,143	387,075	218,177	33,443	21,519	8,161	105,774
1987	250,390	124,938	36,070	11,058	6,044	72,280	424,069	228,484	34,563	25,740	9,902	125,380
Japan												
1980	130,435	46,940	13,197	18,597	9,612	42,089	141,284	36,035	11,566	56,754	6,943	29,987
1982	138,443	52,370	14,189	21,775	8,574	41,535	131,566	34,970	11,512	48,470	7,538	29,076
1983	146,982	60,716	14,728	19,088	9,105	43,345	126,520	35,860	11,995	42,202	7,133	29,330
1984	169,748	78,952	16,109	15,839	10,877	47,971	136,142	39,031	14,003	41,371	8,082	33,654
1985	177,189	86,238	16,997	13,287	16,720	43,947	130,516	38,075	13,665	36,563	8,674	33,538
1986	211,735	109,674	22,072	11,737	14,563	53,689	127,660	45,640	15,056	23,954	8,480	34,530
1987	231,332	118,290	24,839	11,494	12,254	64,455	150,926	52,359	17,719	26,932	10,873	43,043
West Germany												
1980	192,861	69,998	77,540	12,545	13,635	19,143	188,002	69,543	67,176	20,590	10,909	19,783
1982	176,432	65,868	66,878	15,693	10,527	17,466	155,372	58,976	56,653	13,514	10,038	16,190
1983	169,436	64,536	65,152	12,403	10,918	16,427	152,938	58,444	58,375	10,687	10,115	15,318
1984	171,724	69,475	65,348	9,844	10,209	16,848	153,004	58,737	57,656	9,660	10,737	16,213
1985	183,910	75,489	71,577	8,590	11,869	16,385	158,488	61,606	60,461	9,219	10,698	16,503
1986	243,315	101,167	98,753	8,235	15,063	20,096	191,068	78,060	74,909	6,078	12,044	19,977
1987	294,165	123,365	122,361	7,997	16,181	24,260	228,339	94,903	90,339	6,178	13,607	23,312
France												
1980	116,014	46,227	31,694	9,831	5,991	22,270	134,874	56,336	33,760	25,133	6,092	13,553
1982	96,693	37,902	25,255	10,221	3,729	19,586	115,711	50,554	29,113	18,397	5,112	12,535
1983	94,945	38,638	24,717	8,714	4,399	18,477	105,415	47,398	28,040	13,366	4,875	11,736
1984	97,566	40,841	25,554	9,078	3,843	18,250	104,360	47,006	28,173	11,957	4,637	12,587
1985	101,674	18,631	27,525	7,248	4,237	18,631	108,251	49,494	30,645	10,470	5,592	14,266
1986	124,946	55,425	36,059	6,582	4,031	22,848	129,402	63,602	38,545	7,397	5,129	17,626
1987	148,532	67,853	45,087	6,126	4,630	24,836	158,472	79,224	47,966	6,875	6,163	18,244

Table 129 (continued)
Big Seven Direction of Trade ^a

Million US \$

	Exports to (f.o.b.)						Imports from (c.i.f.)					
	World	Big Seven	Other OECD	OPEC	Com-munist	Other	World	Big Seven	Other OECD	OPEC	Com-munist	Other
United Kingdom												
1980	110,078	38,296	40,134	10,330	3,589	17,728	115,733	48,795	39,230	9,898	2,679	15,131
1982	96,948	36,571	33,359	10,189	2,092	14,737	99,567	44,133	35,202	5,715	2,416	12,101
1983	91,639	36,460	31,973	7,986	1,984	13,237	100,032	46,022	35,816	3,974	2,470	11,750
1984	93,382	39,599	32,268	6,722	2,476	12,817	104,721	47,517	38,164	3,335	2,863	12,842
1985	101,249	44,640	34,799	6,596	2,364	12,849	108,955	50,673	39,947	3,218	2,609	12,508
1986	107,088	46,254	36,716	6,953	2,895	14,270	126,326	60,368	45,732	2,439	2,958	14,828
1987	131,242	58,913	44,435	7,517	2,938	17,439	154,391	74,894	55,768	2,604	3,767	17,358
Italy												
1980	77,676	36,082	17,382	9,815	4,329	10,068	99,472	44,002	18,496	17,667	6,760	12,546
1982	73,485	33,796	15,330	10,670	3,731	9,957	86,213	35,721	16,240	17,357	6,546	10,348
1983	72,728	34,370	15,428	9,883	4,055	8,992	80,358	32,420	16,561	14,856	6,752	9,769
1984	73,303	36,651	15,259	8,617	3,981	8,796	84,216	34,543	18,396	13,344	7,662	10,271
1985	79,020	40,986	17,060	7,272	4,756	8,945	91,040	38,447	19,933	14,420	6,786	11,454
1986	97,827	52,993	23,317	6,191	5,381	9,945	99,925	48,554	25,266	9,308	6,253	10,544
1987	116,330	64,647	29,553	5,881	6,260	10,989	125,027	61,392	32,761	10,254	8,054	12,566
Canada												
1980	67,730	50,631	4,332	1,813	2,897	8,056	67,105	52,443	2,671	4,902	580	6,507
1982	71,237	54,644	3,426	2,113	3,348	7,706	62,389	49,874	2,437	2,753	482	6,843
1983	76,745	61,700	2,906	1,564	3,310	7,264	69,482	57,000	2,689	1,877	483	7,433
1984	90,293	74,638	3,178	1,531	3,149	7,796	83,768	68,966	3,166	1,869	599	9,167
1985	90,780	76,066	3,041	1,147	2,535	7,991	87,010	72,023	3,547	1,625	603	9,211
1986	89,706	75,481	3,151	1,050	2,166	7,857	91,956	75,878	4,041	1,187	773	10,077
1987	97,033	80,958	3,913	1,187	2,051	8,924	99,044	81,078	4,630	1,238	1,007	11,090

^a Data are from the International Monetary Fund, *Direction of Trade*. Country totals in this table do not agree with totals in Tables 126 and 127 because of different practices of reporting data in the *International Financial Statistics* and the *Direction of Trade*.

Table 130
Big Seven: Exports, by Commodity ^a*Million US \$*

	1970	1975	1980	1982	1983	1984	1985	1986	1987
Big Seven	163,215	415,788	904,098	854,297	842,353	902,830	933,672	1,071,173	1,259,014
Foodstuffs	15,945	44,764	90,033	83,692	81,808	82,901	75,514	82,526	94,205
Raw materials	13,319	24,164	58,048	40,283	42,500	46,029	43,626	46,404	55,173
Fuels	5,273	18,086	48,553	57,431	52,956	53,796	56,640	39,387	42,231
Manufactures	125,432	321,504	690,763	654,833	646,254	698,423	734,815	872,885	1,032,157
Other	3,246	7,270	16,701	18,058	18,835	21,681	23,077	29,971	35,248
United States	43,226	107,652	216,916	210,931	199,144	216,008	211,406	211,897	252,497
Foodstuffs	6,919	21,105	39,392	35,711	35,043	35,771	28,073	26,325	28,851
Raw materials	4,114	7,538	20,066	13,339	13,277	14,924	13,522	13,280	16,623
Fuels	1,695	4,481	8,134	12,777	9,703	9,468	10,106	8,205	7,804
Manufactures	28,928	71,348	144,065	142,470	134,698	146,932	149,201	153,896	180,382
Other	1,570	3,180	5,259	6,634	6,423	8,913	10,504	10,191	18,837
Canada	16,185	32,300	63,105	66,976	72,420	84,938	85,575	84,250	92,886
Foodstuffs	1,975	4,399	7,773	8,987	9,150	9,308	7,946	7,793	8,735
Raw materials	4,850	7,450	15,519	12,167	13,116	14,623	13,924	14,602	17,756
Fuels	978	5,334	9,010	9,601	10,017	11,079	11,921	8,119	9,383
Manufactures	8,274	14,998	29,724	34,849	38,576	47,714	49,645	51,675	56,613
Other	108	119	1,079	1,372	1,561	2,214	2,139	2,061	399
Japan	19,319	55,728	129,542	138,591	146,804	170,038	175,859	209,081	229,055
Foodstuffs	674	808	1,704	1,498	1,509	1,589	1,428	1,568	1,634
Raw materials	433	1,262	2,218	1,442	1,768	1,513	1,622	1,818	1,790
Fuels	48	220	504	411	432	505	539	588	782
Manufactures	18,010	52,705	123,768	133,949	141,653	164,808	170,537	203,095	222,615
Other	154	733	1,348	1,291	1,442	1,623	1,733	2,012	2,234

Table 130 (continued)

Million US \$

Big Seven: Exports, by Commodity ^a

	1970	1975	1980	1982	1983	1984	1985	1986	1987
West Germany	34,188	90,022	191,648	175,456	168,750	171,016	183,335	242,405	293,789
Foodstuffs	1,188	4,241	10,146	9,814	9,236	9,414	9,608	12,469	14,464
Raw materials	1,192	2,643	6,512	4,391	4,709	4,829	4,876	5,518	6,631
Fuels	1,011	2,813	7,143	6,473	5,626	5,546	5,058	3,880	3,890
Manufactures	30,275	78,814	162,675	149,518	143,140	145,710	158,223	208,778	262,842
Other	522	1,511	5,172	5,260	6,039	5,517	5,570	11,760	5,962
France	17,738	51,602	110,865	92,359	91,144	93,164	97,457	119,071	143,077
Foodstuffs	2,803	8,069	17,796	15,239	15,415	15,271	15,903	19,406	23,145
Raw materials	1,199	2,628	5,853	3,869	4,045	4,556	4,481	4,835	5,608
Fuels	376	1,410	4,485	3,661	3,461	3,396	3,751	3,190	3,165
Manufactures	13,157	39,072	82,276	69,173	67,632	69,444	72,807	91,070	110,490
Other	203	423	455	417	591	497	515	570	669
United Kingdom	19,349	43,659	114,382	96,544	91,421	94,308	101,097	106,654	131,128
Foodstuffs	1,259	3,221	7,774	6,989	6,554	6,486	6,671	8,411	9,763
Raw materials	1,190	1,961	6,418	3,855	4,196	4,100	3,685	4,225	4,722
Fuels	496	1,798	14,882	19,517	19,824	20,479	21,578	12,677	14,365
Manufactures	15,752	35,532	82,603	63,492	58,411	60,908	66,833	78,476	95,389
Other	652	1,147	2,705	2,691	2,436	2,335	2,330	2,865	6,889
Italy	13,210	34,825	77,640	73,440	72,670	73,358	78,943	97,815	116,582
Foodstuffs	1,127	2,921	5,448	5,454	4,901	5,062	5,885	6,554	7,613
Raw materials	341	682	1,462	1,220	1,389	1,484	1,516	2,126	2,043
Fuels	669	2,030	4,395	4,991	3,893	3,323	3,687	2,728	2,842
Manufactures	11,036	29,035	65,652	61,382	62,144	62,907	67,569	85,895	103,826
Other	37	157	683	393	343	582	286	512	258

^a Data are from the United Nations trade tapes. Country totals in this table do not agree with totals in tables 126 and 129 because of differences in reporting practices.

Table 131
Big Seven: Imports, by Commodity ^a*Million US \$*

	1970	1975	1980	1982	1983	1984	1985	1986	1987
Big Seven	157,843	408,072	984,163	889,994	888,324	989,835	1,025,172	1,123,296	1,316,720
Foodstuffs	27,229	60,387	106,733	97,839	97,297	101,652	104,041	122,933	137,224
Raw materials	27,828	45,582	100,855	72,613	75,183	80,873	76,183	80,042	94,981
Fuels	17,019	101,365	280,218	245,787	216,451	221,161	208,550	144,977	155,675
Manufactures	82,823	194,111	483,307	460,131	485,340	569,660	618,378	753,890	903,275
Other	2,944	6,627	13,050	13,624	14,053	16,489	18,020	21,454	25,565
United States	39,963	96,941	250,282	253,036	267,972	338,190	358,896	381,304	422,408
Foodstuffs	6,446	10,518	20,572	19,902	21,024	24,254	25,238	27,255	27,374
Raw materials	4,687	8,116	17,504	13,056	16,043	17,598	16,041	17,073	18,402
Fuels	3,081	26,404	82,204	67,424	59,999	63,074	55,680	39,768	46,743
Manufactures	24,470	49,358	125,798	147,004	165,081	226,383	253,434	287,985	319,094
Other	1,279	2,545	4,204	5,650	5,825	6,881	8,503	9,223	10,795
Canada	13,348	33,954	57,707	54,259	60,478	73,231	75,869	79,838	86,810
Foodstuffs	1,153	2,817	4,301	4,186	4,228	4,761	4,480	4,924	5,251
Raw materials	727	1,578	3,635	2,610	3,025	3,219	2,951	3,156	3,253
Fuels	749	4,090	7,143	5,473	4,171	4,702	4,568	3,764	4,248
Manufactures	10,541	25,114	41,734	41,012	48,077	59,141	62,428	66,479	72,274
Other	178	355	894	978	977	1,408	1,442	1,515	1,784
Japan	19,083	57,840	139,895	130,322	125,021	134,261	127,516	119,427	146,048
Foodstuffs	3,195	10,344	16,849	16,576	17,117	18,609	17,752	20,999	24,283
Raw materials	7,188	11,421	26,120	21,039	20,331	21,934	20,108	19,605	25,997
Fuels	3,906	25,641	69,991	65,618	58,925	60,337	55,790	36,904	39,137
Manufactures	4,503	10,207	26,023	26,121	27,586	32,167	32,123	40,150	54,678
Other	291	227	912	968	1,062	1,214	1,743	1,769	1,953

Table 131 (continued)

Million US \$

Big Seven: Imports, by Commodity ^a

	1970	1975	1980	1982	1983	1984	1985	1986	1987
West Germany	29,814	74,208	185,924	154,052	152,013	152,875	157,596	189,647	227,334
Foodstuffs	5,524	12,092	22,749	19,576	18,924	18,599	19,145	24,028	27,261
Raw materials	5,109	8,095	17,798	12,263	12,442	13,299	12,877	14,319	16,218
Fuels	2,627	13,099	41,904	36,427	32,404	31,170	31,348	21,876	21,965
Manufactures	15,715	38,981	98,797	82,067	84,559	85,487	90,647	124,336	155,689
Other	839	1,941	4,676	3,719	3,684	4,320	3,579	5,088	6,201
France	18,972	53,606	134,331	115,457	105,274	103,615	107,590	127,856	157,522
Foodstuffs	2,798	6,921	13,815	12,231	11,938	11,693	11,825	15,000	17,455
Raw materials	2,675	5,050	10,737	7,310	6,890	7,183	7,050	7,639	8,970
Fuels	2,291	12,260	35,726	30,827	25,751	24,905	23,946	16,144	16,933
Manufactures	11,152	29,344	73,544	64,998	60,602	59,756	64,668	88,962	114,020
Other	56	31	509	91	93	78	101	111	144
United Kingdom	21,724	53,595	117,903	99,033	99,241	105,690	109,110	125,449	154,388
Foodstuffs	5,267	10,345	15,564	13,699	12,777	13,018	12,944	15,695	17,801
Raw materials	4,342	6,048	12,437	7,710	8,487	8,022	7,533	8,089	10,007
Fuels	2,270	9,613	15,912	12,868	10,657	13,797	13,496	9,185	9,985
Manufactures	9,579	26,206	72,474	63,114	65,889	69,387	73,553	90,427	113,224
Other	266	1,383	1,516	1,642	1,431	1,466	1,584	2,053	3,371
Italy	14,939	37,928	98,121	83,835	78,325	81,973	88,595	99,775	122,210
Foodstuffs	2,846	7,350	12,883	11,669	11,289	10,718	12,657	15,032	17,799
Raw materials	3,100	5,274	12,624	8,625	7,965	9,618	9,623	10,161	12,134
Fuels	2,095	10,258	27,338	27,150	24,544	23,176	23,722	17,336	16,664
Manufactures	6,863	14,901	44,937	35,815	33,546	37,339	41,525	55,551	74,296
Other	35	145	339	576	981	1,122	1,068	1,695	1,317

^a Data are from the United Nations trade tapes. Country totals in this table do not agree with totals in tables 127 and 129 because of differences in reporting practices.

Table 132
Big Seven: Trade Balance, by Commodity

Million US \$

	1970	1975	1980	1982	1983	1984	1985	1986	1987
Big Seven	5,372	7,716	-80,065	-35,697	-45,971	-87,005	-91,500	-52,123	-57,706
Foodstuffs	-11,284	-15,623	-16,700	-14,147	-15,489	-18,751	-28,527	-40,407	-43,019
Raw materials	-14,509	-21,418	-42,807	-32,330	-32,683	-34,844	-32,557	-33,638	-39,808
Fuels	-11,746	-83,279	-231,665	-188,356	-163,495	-167,365	-151,910	-105,590	-113,444
Manufactures	42,609	127,393	207,456	194,702	160,914	128,763	116,437	118,995	128,882
Other	302	643	3,651	4,434	4,782	5,192	5,057	8,517	9,683
United States	3,263	10,711	-33,366	-42,105	-68,828	-122,182	-147,490	-169,407	-169,911
Foodstuffs	473	10,587	18,820	15,809	14,019	11,517	2,835	-930	1,477
Raw materials	-573	-578	2,562	283	-2,766	-2,674	-2,519	-3,793	-1,779
Fuels	-1,386	-21,923	-74,070	-54,647	-50,296	-53,606	-45,574	-31,563	-38,939
Manufactures	4,458	21,990	18,267	-4,534	-30,383	-79,451	-104,233	-134,089	-138,712
Other	291	635	1,055	984	598	2,032	2,001	968	8,042
Canada	2,837	-1,654	5,398	12,717	11,942	11,707	9,706	4,412	6,076
Foodstuffs	822	1,582	3,472	4,801	4,922	4,547	3,466	2,869	3,484
Raw materials	4,123	5,872	11,884	9,557	10,091	11,404	10,973	11,446	14,503
Fuels	229	1,244	1,867	4,128	5,846	6,377	7,353	4,355	5,135
Manufactures	-2,267	-10,116	-12,010	-6,163	-9,501	-11,427	-12,783	-14,804	-15,661
Other	-70	-236	185	394	584	806	697	546	-1,385
Japan	236	-2,112	-10,353	8,269	21,783	35,777	48,343	89,654	83,007
Foodstuffs	-2,521	-9,536	-15,145	-15,078	-15,608	-17,020	-16,324	-19,431	-22,649
Raw materials	-6,755	-10,159	-23,902	-19,597	-18,563	-20,421	-18,486	-17,787	-24,207
Fuels	-3,858	-25,421	-69,487	-65,207	-58,493	-59,832	-55,251	-36,316	-38,355
Manufactures	13,507	42,498	97,745	107,828	114,067	132,641	138,414	162,945	167,937
Other	-137	506	436	323	380	409	-10	243	281

Table 132 (continued)

Million US \$

Big Seven: Trade Balance, by Commodity

	1970	1975	1980	1982	1983	1984	1985	1986	1987
West Germany	4,374	15,814	5,724	21,404	16,737	18,141	25,739	52,758	66,455
Foodstuffs	-4,336	-7,851	-12,603	-9,762	-9,688	-9,185	-9,537	-11,559	-12,797
Raw materials	-3,917	-5,452	-11,286	-7,872	-7,733	-8,470	-8,001	-8,801	-9,587
Fuels	-1,616	-10,286	-34,761	-29,954	-26,778	-25,624	-26,290	-17,996	-18,075
Manufactures	14,560	39,833	63,878	67,451	58,581	60,223	67,576	84,442	107,153
Other	-317	-430	496	1,541	2,355	1,197	1,991	6,672	-239
France	-1,234	-2,004	-23,466	-23,098	-14,130	-10,451	-10,133	-8,785	-14,445
Foodstuffs	5	1,148	3,981	3,008	3,477	3,578	4,078	4,406	5,690
Raw materials	-1,476	-2,422	-4,884	-3,441	-2,845	-2,627	-2,569	-2,804	-3,362
Fuels	-1,915	-10,850	-31,241	-27,166	-22,290	-21,509	-20,195	-12,954	-13,768
Manufactures	2,005	9,728	8,732	4,175	7,030	9,688	8,139	2,108	-3,530
Other	147	392	-54	326	498	419	414	459	525
United Kingdom	-2,375	-9,936	-3,521	-2,489	-7,820	-11,382	-8,013	-18,795	-23,260
Foodstuffs	-4,008	-7,124	-7,790	-6,710	-6,223	-6,532	-6,273	-7,284	-8,038
Raw materials	-3,152	-4,087	-6,019	-3,855	-4,291	-3,922	-3,848	-3,864	-5,285
Fuels	-1,774	-7,815	-1,030	6,649	9,167	6,682	8,082	3,492	4,380
Manufactures	6,173	9,326	10,129	378	-7,478	-8,479	-6,720	-11,951	-17,835
Other	386	-236	1,189	1,049	1,005	869	746	812	3,518
Italy	-1,729	-3,103	-20,481	-10,395	-5,655	-8,615	-9,652	-1,960	-5,628
Foodstuffs	-1,719	-4,429	-7,435	-6,215	-6,388	-5,656	-6,772	-8,478	-10,186
Raw materials	-2,759	-4,592	-11,162	-7,405	-6,576	-8,134	-8,107	-8,035	-10,091
Fuels	-1,426	-8,228	-22,943	-22,159	-20,651	-19,853	-20,035	-14,608	-13,822
Manufactures	4,173	14,134	20,715	25,567	28,598	25,568	26,044	30,344	29,530
Other	2	12	344	-183	-638	-540	-782	-1,183	-1,059

Table 133
Selected Countries: Indexes of Export
Prices, Import Prices, and Terms of Trade ^a

1980=100

	1975	1979	1980	1981	1982	1983	1984	1985	1986
Brazil									
Export	66	94	100	94	88	84	85	80	NA
Import	57	78	100	111	107	102	97	91	NA
Terms of Trade	116	121	100	85	82	82	88	88	NA
Canada									
Export	69	86	100	104	102	102	101	98	93
Import	67	86	100	108	109	109	110	108	105
Terms of Trade	103	100	100	96	94	94	92	91	89
China (Taiwan)									
Export	NA	91	100	105	106	105	106	105	101
Import	NA	82	100	107	107	104	104	102	88
Terms of Trade	NA	111	100	98	99	101	102	103	115
Colombia									
Export	51	90	100	90	89	89	95	89	101
Import	67	91	100	106	108	106	110	103	96
Terms of Trade	76	99	100	85	82	84	86	86	105
France									
Export	64	90	100	88	83	79	77	78	NA
Import	61	84	100	92	85	79	76	76	NA
Terms of Trade	105	107	100	96	98	100	101	103	NA
India									
Export	66	89	100	88	91	91	92	95	NA
Import	64	82	100	79	72	70	58	68	NA
Terms of Trade	103	109	100	111	126	130	159	140	NA
Italy									
Export	59	85	100	92	89	85	81	80	98
Import	56	80	100	103	97	91	87	86	91
Terms of Trade	105	106	100	89	92	93	93	93	108
Japan									
Export	67	93	100	106	99	96	96	96	115
Import	52	74	100	103	96	91	88	85	74
Terms of Trade	129	126	100	103	103	105	109	113	155
Malaysia									
Export	45	85	100	92	85	82	85	72	51
Import	66	83	100	108	106	102	98	92	78
Terms of Trade	68	102	100	85	80	80	87	78	65

Table 133 (continued)

1980=100

Selected Countries: Indexes of Export
Prices, Import Prices, and Terms of Trade ^a

	1975	1979	1980	1981	1982	1983	1984	1985	1986
Mexico									
Export	0	88	100	93	85	84	80	81	57
Import	NA	83	100	92	93	85	81	80	98
Terms of Trade	NA	106	100	101	91	99	99	101	58
Pakistan									
Export	54	94	100	104	95	92	96	83	81
Import	68	80	100	115	108	98	101	93	84
Terms of Trade	79	117	100	90	88	94	95	89	96
Philippines									
Export	78	96	100	98	81	85	94	83	74
Import	61	81	100	111	95	96	108	102	84
Terms of Trade	128	119	100	88	85	89	87	81	88
South Korea									
Export	59	96	100	103	100	96	99	96	98
Import	64	83	100	105	98	93	94	90	85
Terms of Trade	92	116	100	98	102	103	105	107	115
United Kingdom									
Export	48	80	100	94	88	82	78	79	86
Import	56	83	100	93	88	82	79	79	90
Terms of Trade	86	96	100	101	100	100	99	100	96
United States									
Export	68	88	100	109	110	112	113	112	113
Import	56	80	100	106	104	100	101	99	95
Terms of Trade	121	110	100	103	106	112	112	113	119
West Germany									
Export	63	90	100	86	83	80	74	75	98
Import	55	85	100	92	86	81	77	76	87
Terms of Trade	115	106	100	93	97	99	96	99	113

^a Data are from the *International Financial Statistics*. US dollar indexes for total exports and total imports converted from national data, with the original 1975 comparison base shifted to 1980.

Table 134
Newly Industrializing Countries:
Trade With the Big Seven

Billion US \$

	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987
NICs										
Export	5.4	18.4	59.2	67.1	69.4	79.3	97.4	97.0	107.3	139.4
Import	9.4	27.5	68.9	75.9	63.9	60.7	68.5	70.3	81.7	112.6
Balance	-4.0	-9.1	-9.7	-8.8	5.5	18.6	28.9	26.7	25.6	26.8
Brazil										
Export	1.5	3.8	8.7	9.5	9.4	10.5	13.5	12.7	12.2	15.6
Import	1.9	6.6	10.2	8.8	6.9	5.5	5.3	6.0	7.7	8.5
Balance	-.4	-2.8	-1.5	.7	2.5	5.0	8.2	6.7	4.5	7.1
China (Taiwan)										
Export	1.0	3.8	12.7	14.2	14.8	17.8	22.8	24.7	31.0	41.3
Import	1.3	3.9	10.7	10.9	10.0	11.2	12.5	11.4	15.7	22.3
Balance	-.3	-.1	2.0	3.3	4.8	6.6	10.3	13.3	15.3	19.0
Hong Kong										
Export	1.6	3.4	10.2	11.0	10.5	11.6	14.7	14.3	17.7	15.6
Import	1.5	3.0	10.2	11.0	10.3	10.6	12.6	12.7	13.7	17.9
Balance	.1	.4	.0	.0	.2	1.0	2.1	1.6	4.0	-2.3
Mexico										
Export	.1	2.0	11.8	14.0	16.0	17.2	19.0	17.5	13.6	22.5
Import	2.0	5.5	15.5	19.7	12.2	7.1	9.0	12.3	11.7	19.9
Balance	-1.9	-3.5	-3.7	-5.7	3.8	10.1	10.0	5.2	1.9	2.6
Singapore										
Export	.5	1.8	5.9	6.7	6.4	7.7	9.0	8.9	9.2	12.4
Import	1.1	3.6	9.9	11.1	11.3	11.8	12.0	11.0	11.5	16.9
Balance	-6	-1.8	-4.0	-4.4	-4.9	-4.1	-3.0	-2.1	-2.3	-4.5
South Korea										
Export	.7	3.6	9.9	11.7	12.3	14.5	18.4	18.9	23.6	32.0
Import	1.6	4.9	12.4	14.4	13.2	14.5	17.1	16.9	21.4	27.1
Balance	-.9	-1.3	-2.5	-2.7	-.9	.0	1.3	2.0	2.2	4.9

Table 135
Importance of Soviet Trade to
Selected Western Countries

Percent

Soviet Trading Partner	Exports to USSR as a Share of Total Exports				Imports From USSR as a Share of Total Imports				Share of Trading Partner's GNP							
									Exports to the USSR				Imports From the USSR			
	1980	1984	1985	1986	1980	1984	1985	1986	1980	1984	1985	1986	1980	1984	1985	1986
Argentina	20.1	14.7	14.4	NA	0.1	0.8	1.1	NA	0.8	NEGL	NA	NA	NEGL	NEGL	NA	NA
Australia	5.2	2.5	2.6	3.1	.1	.1	NEGL	NEGL	.8	0.3	0.4	0.5	NEGL	0.1	NEGL	NEGL
Austria	2.7	4.5	3.8	3.1	4.2	5.0	4.5	3.0	.6	1.1	1.0	.7	1.4	1.5	1.4	0.7
Brazil	1.8	1.5	1.7	NA	.2	1.1	.5	.3	.2	.2	.2	NA	NEGL	.1	NEGL	.2
Canada	1.9	1.9	1.3	1.0	.1	NEGL	NEGL	NEGL	.5	.5	.4	.3	NEGL	NEGL	NEGL	NEGL
Finland	17.6	19.1	21.6	20.5	21.1	23.3	21.0	21.8	4.9	5.2	5.7	4.8	6.5	5.8	5.4	3.4
France	2.1	2.0	1.9	1.2	2.7	2.5	2.3	2.0	1.0	1.0	1.0	.2	.6	1.0	1.0	.4
Italy	1.6	2.2	2.0	1.7	3.1	4.8	3.3	2.3	.3	.5	.4	.4	.8	1.2	.9	.5
Japan	2.2	1.5	1.6	1.5	1.3	1.0	1.1	1.6	.3	.2	.2	.2	.2	.1	.1	.1
Netherlands	.7	.5	.5	.4	1.6	3.5	3.6	1.4	.3	.3	.3	.2	.8	1.8	1.9	.6
United Kingdom	1.0	1.0	.7	.7	1.0	1.1	.9	.8	.2	.2	.2	.2	.2	.3	.2	.2
United States	.7	1.5	1.1	.6	.2	.2	.1	.2	.1	.1	.1	NEGL	NEGL	NEGL	NEGL	NEGL
West Germany	2.3	2.2	2.0	1.8	2.2	3.3	2.9	2.2	.5	.6	.6	.6	.5	.8	.7	.6

Table 136
Selected Exporting Countries: Trade
of High-Technology Industries

Percent

Rank	Microelectronics		Computers		Telecommunications Equipment		Aerospace		Machine Tools and Robotics	
	1981	1985	1981	1985	1981	1985	1981	1985	1981	1985
1	United States (25.7)	United States (23.1)	United States (40.8)	United States (32.3)	Japan (15.6)	Japan (24.0)	United States (49.4)	United States (47.9)	West Germany (22.5)	Japan (21.5)
2	Japan (12.3)	Japan (16.6)	West Germany (10.7)	Japan (13.2)	West Germany (14.8)	Sweden (12.6)	United Kingdom (14.2)	United Kingdom (12.9)	United States (17.6)	West Germany (17.3)
3	Malaysia (10.7)	Malaysia (10.4)	United Kingdom (8.5)	United Kingdom (8.8)	Sweden (14.2)	United States (11.8)	West Germany (10.3)	West Germany (10.5)	Japan (14.2)	United States (17.0)
4	Singapore (7.7)	Singapore (6.1)	France (7.8)	West Germany (8.2)	United States (12.4)	West Germany (9.5)	France (6.5)	France (8.5)	Italy (8.6)	Switzerland (8.9)
5	West Germany (5.8)	West Germany (5.5)	Japan (6.1)	France (5.2)	Netherlands (7.3)	Canada (8.1)	Canada (4.9)	Canada (5.1)	Switzerland (8.0)	Italy (7.4)
6	Philippines (5.0)	United Kingdom (5.3)	Italy (4.1)	Italy (3.6)	France (5.9)	France (6.1)	Italy (3.8)	Italy (3.6)	United Kingdom (6.2)	United Kingdom (4.9)
7	Hong Kong (4.3)	South Korea (4.5)	Canada (3.6)	Netherlands (3.4)	Canada (5.2)	United Kingdom (3.5)	Belgium (1.4)	Netherlands (1.5)	France (4.9)	France (3.3)

Table 137
Foreign Trade Exchange Rates of the Communist Countries ^a

Units per US \$

	Unit of Currency	1973	1977	1980	1982	1983	1984	1985	1986	1987
USSR	Ruble	0.739	0.737	0.649	0.726	0.743	0.816	0.838	0.704	0.635
Eastern Europe										
Bulgaria	Lev	.970	.950	.860	.950	.970	1.010	1.030	.930	.860
Czechoslovakia	Koruna	5.840	5.640	5.380	6.120	6.320	6.650	6.790	5.950	5.430
East Germany ^b	Deutsche mark east	3.480	3.480	3.300	3.460	3.540	3.640	3.700	3.300	3.000
Hungary ^c	Forint	9.500	40.960	32.540	36.630	42.670	48.040	50.090	45.830	46.970
Poland	Zloty	3.320	3.320	3.050	84.820	91.620	113.720	147.180	175.290	265.080
Romania	Leu	4.970	4.970	4.470	15.000	17.180	21.280	17.140	16.150	14.560
Other										
Albania	Lek	4.140	4.140	4.140	4.140	4.140	4.140	4.140	4.140	4.140
Cambodia	Riel	NA	NA	NA	4.000	4.000	7.000	7.000	30.000	100.000
China	Yuan	2.010	1.860	1.500	1.890	1.980	2.320	2.940	3.450	3.720
Cuba	Peso	.840	.820	.720	.780	.860	.880	.920	.830	NA
Laos	Kip	NA	NA	30.000	35.000	35.000	35.000	35.000	35.000	350.000
Mongolia	Tugrik	3.310	3.300	NA	3.230	NA	NA	NA	NA	NA
North Korea ^d	Won	2.060	2.020	1.770	2.000	NA	NA	NA	NA	NA
Vietnam	Dong	NA	2.300	2.800	9.000	11.000	10.500	15.000	80.000	368.000
Yugoslavia	Dinar	16.240	18.290	24.640	50.280	92.840	152.820	270.160	379.220	737.000

^a Average exchange rate for the year. Some countries also have special exchange rates for noncommercial transactions, such as diplomatic, tourist, and student expenditures and for personal remittances.

^b The unofficial rates actually used in East German accounting of foreign trade transactions. East Germany maintains that an East German mark is equivalent to a West German mark.

^c Since January 1976, Hungary has expressed the value of its foreign trade in domestic forints rather than diviza forints.

^d End of year rate. Noncommercial rate through 1977. Data for 1980-82 are estimated.

Table 138
Soviet Foreign Trade ^a

Million US \$

		Total Trade	Communist Countries					Non-Communist Countries			
			Total	Eastern Europe	China	Other Asia	Other ^b	Total	Developed Countries	Less Developed Countries	Total Unspecified
1960	Exports	5,558	4,210	3,071	816	66	257	1,379	1,022	326	31
	Imports	5,623	3,974	2,792	847	98	237	1,682	1,120	529	33
1965	Exports	8,166	5,555	4,551	192	165	647	2,881	1,506	1,105	270
	Imports	8,050	5,606	4,668	225	120	593	2,446	1,647	797	2
1970	Exports	12,787	8,359	6,752	25	415	1,167	5,223	2,449	1,979	795
	Imports	11,720	7,630	6,627	22	156	825	4,106	2,849	1,241	16
1975	Exports	33,406	20,271	16,494	129	480	3,168	15,043	8,573	4,562	1,908
	Imports	37,076	19,415	15,723	150	277	3,265	17,692	13,554	4,107	31
1980	Exports	76,437	41,433	32,216	261	1,203	7,753	39,770	24,932	10,072	4,766
	Imports	68,473	36,420	29,407	226	681	6,106	32,221	24,386	7,667	168
1982	Exports	87,168	47,182	36,288	166	1,711	9,017	46,408	26,222	13,764	6,422
	Imports	77,846	42,529	33,566	143	791	8,029	35,489	26,202	9,115	172
1983	Exports	91,652	51,005	39,355	345	1,768	9,537	47,700	26,707	13,940	7,053
	Imports	80,445	45,488	37,163	314	764	7,247	35,244	25,379	9,578	287
1984	Exports	91,495	51,889	39,847	575	1,836	9,631	46,511	26,425	13,181	6,905
	Imports	80,409	47,066	37,530	627	778	8,131	33,479	24,228	9,115	136
1985	Exports	87,196	53,469	40,824	936	2,409	9,300	38,874	22,493	11,234	5,147
	Imports	83,315	51,001	39,690	1,001	838	9,472	32,434	23,333	8,981	120
1986	Exports	97,053	65,001	51,027	1,293	3,198	9,483	39,794	18,824	13,228	7,742
	Imports	88,874	59,424	47,274	1,295	1,077	9,778	29,574	22,651	6,799	124
1987 ^c	Exports	107,664	70,012	54,305	1,144	3,863	10,700	46,132	22,728	14,924	8,480
	Imports	95,969	66,569	54,208	1,186	1,219	9,956	29,611	22,094	7,306	211

^a Official Soviet statistics using US dollar exchange rates for the Soviet foreign exchange ruble as announced by the State Bank of the USSR. Exports and imports are f.o.b.

^b Cuba, Mongolia, and Yugoslavia.

^c Preliminary.

Table 139
Soviet Exports ^a

Million US \$

	1960	1970	1975	1980	1982	1983	1984	1985	1986
Total exports ^b	5,558	12,787	33,406	76,437	87,168	91,652	91,495	87,196	97,053
Machinery and equipment	1,141	2,753	6,241	12,081	11,230	11,426	11,408	12,147	14,539
Fuels, lubricants, and related materials	902	1,986	10,476	35,908	45,588	49,193	49,743	45,910	45,938
Coal and coke ^c	242	408	1,399	1,695	1,660	1,757	1,730	1,836	2,230
Petroleum and petroleum products	657	1,469	8,212	27,851	35,028	38,092	38,001	33,843	31,987
Ores and concentrates	243	403	868	993	1,026	1,053	1,042	982	1,222
Iron ore	175	325	692	651	665	682	662	623	777
Base metals and manufactures	837	1,978	3,813	NA	NA	NA	NA	NA	4,440
Ferrous metals	642	1,351	2,673	3,551	3,644	3,681	3,534	3,616	4,439
Rolled ferrous metals	480	961	1,794	2,465	2,465	2,503	2,346	2,387	2,903
Nonferrous metals	195	627	1,140	NA	NA	NA	NA	NA	NA
Aluminum	35	184	356	NA	NA	NA	NA	NA	NA
Chemicals	150	334	949	2,025	2,203	2,307	2,707	2,837	2,770
Wood and wood products	305	831	1,916	3,093	2,471	2,587	2,575	2,638	3,289
Lumber	183	333	780	1,207	912	936	941	976	1,128
Textile raw materials and semimanufactures	358	437	976	1,435	1,566	1,297	1,142	1,155	1,350
Cotton fiber	288	372	917	1,357	1,444	1,195	1,000	1,008	1,145
Consumer goods	907	1,310	2,378	2,679	2,573	2,597	2,583	2,574	3,214
Food	702	994	1,538	1,407	1,331	1,299	1,337	1,283	1,541
Grain ^d	467	399	508	310	393	326	305	235	157
Other consumer goods	205	316	840	1,272	1,242	1,298	1,246	1,291	1,673
Other and unspecified	715	2,755	5,789	14,672	16,867	17,511	16,761	15,337	20,291

^a Official Soviet statistics using US dollar exchange rates for the Soviet foreign exchange ruble as announced by the State Bank of the USSR. Exports are f.o.b.

^b The major components do not add up to the total export figure for the 1980-85 period because the Soviet Union

released data for total exports but withheld data on exports of base metals and manufactures.

^c Including small amounts of charcoal and other solid fuels.

^d Excluding wheat flour.

Table 140
Soviet Imports ^a*Million US \$*

	1960	1970	1975	1980	1982	1983	1984	1985	1986
Total imports	5,623	11,720	37,076	68,473	77,846	80,445	80,409	83,315	88,874
Machinery and equipment	1,673	4,166	12,574	23,198	26,766	30,709	29,451	30,941	36,146
Transportation equipment	659	1,232	3,326	4,674	5,301	6,731	6,509	7,571	8,234
Fuels, lubricants, and related materials	237	226	1,447	1,126	2,239	3,042	3,420	3,048	2,457
Natural gas, coal and coke	93	144	752	208	287	300	316	314	285
Petroleum and petroleum products	144	82	695	918	1,952	2,742	3,104	2,734	2,172
Ores and concentrates	314	304	631	881	858	931	1,030	1,058	1,245
Base metals and manufactures	545	691	3,595	4,653	5,358	4,948	4,656	4,897	5,263
Ferrous metals	373	593	3,346	4,635	5,343	4,937	4,644	4,886	5,253
Rolled ferrous metals	338	568	3,197	4,335	5,060	4,694	4,398	4,597	4,997
Nonferrous metals	172	98	249	18	15	11	12	11	10
Tin	35	30	65	NA	NA	NA	NA	NA	0
Chemicals	149	493	1,447	3,275	3,028	3,216	3,256	3,744	3,990
Rubber and rubber products	196	194	331	351 ^b	209	285	213 ^b	191	196
Wood and wood products	105	248	796	1,369	1,219	1,076	1,000	1,046	1,113
Textile raw materials and semimanufactures	364	561	889	1,493	1,283	1,671	1,312	1,410	1,196
Cotton fiber	180	249	271	96	47	323	317	304	130
Wool fiber	118	120	265	502	549	565	355	465	459
Consumer goods	1,573	3,975	13,110	24,136	27,450	24,976	26,900	26,710	25,449
Food	613	1,838	8,347	15,882	17,664	15,818	17,634	16,393	13,740
Grain ^c	17	135	2,673	5,114	6,120	5,147	6,816	5,950	2,868
Other consumer goods	960	2,137	4,763	8,254	9,786	9,158	9,266	10,317	11,709
Other and unspecified	467	862	2,256	7,991	9,436	9,591	9,171	10,270	11,819

^a Official Soviet statistics using US dollar exchange rates for the Soviet foreign exchange ruble as announced by the State Bank of the USSR. Imports are f.o.b.

^b Only natural rubber reported.

^c Excluding wheat flour.

Table 141
East European Foreign Trade ^a

Million US \$

		Total Trade	Communist Countries				Non-Communist Countries		
			Total	USSR	Eastern Europe	Other ^b	Total	Developed Countries	Less Developed Countries
1960	Exports	7,624	5,523	2,817	2,102	604	2,101	1,603	498
	Imports	7,754	5,541	2,954	2,084	503	2,213	1,772	441
1965	Exports	11,789	8,423	4,692	3,172	559	3,366	2,581	785
	Imports	11,611	8,114	4,436	3,111	567	3,497	2,765	732
1970	Exports	18,159	12,546	6,612	4,955	979	5,613	4,426	1,187
	Imports	18,522	12,503	6,803	4,908	792	6,019	5,052	967
1975	Exports	45,269	30,126	15,639	12,157	2,330	15,143	11,379	3,764
	Imports	51,314	30,607	16,345	12,238	2,024	20,707	17,687	3,020
1980	Exports	85,002	53,995	29,334	20,612	4,049	31,005	22,269	8,736
	Imports	91,222	56,133	32,178	20,134	3,821	35,089	26,054	9,035
1982	Exports	89,133	58,767	33,366	20,295	5,106	30,426	20,243	10,183
	Imports	85,461	60,205	35,793	19,275	5,137	25,256	18,814	6,442
1983	Exports	94,774	63,966	36,842	21,944	5,180	30,808	21,531	9,277
	Imports	90,151	64,845	38,704	21,292	4,849	25,306	18,223	7,083
1984	Exports	97,688	66,059	37,494	22,115	6,450	31,632	22,583	9,049
	Imports	91,440	66,148	39,307	22,087	4,754	25,292	18,264	7,028
1985	Exports	97,794	68,272	39,151	22,966	6,155	29,522	21,329	8,193
	Imports	93,921	67,789	40,365	22,828	4,596	26,132	19,449	6,683
1986	Exports	NA	NA	48,184	NA	NA	NA	19,744	7,093
	Imports	NA	NA	50,949	NA	NA	NA	21,615	5,011
1987 ^c	Exports	NA	NA	55,403	NA	NA	NA	NA	NA
	Imports	NA	NA	55,272	NA	NA	NA	NA	NA

^a Official East European statistics. Trade with the Communist countries was derived by converting the value of the trade expressed in the currency of each East European country to rubles and then to dollars at the prevailing foreign exchange rate. Exports are on an f.o.b. basis. Imports are f.o.b. except for Hungary, which is on a c.i.f. basis.

^b Including data for Albania, China, Cuba, Mongolia, North Korea, Vietnam, and Yugoslavia.

^c Preliminary.

Table 142**East European Exports, by Country ^a**

Million US \$

	1960	1970	1975	1980	1983	1984	1985	1986	1987 ^b
Bulgaria	571	2,004	4,807	10,489	12,222	12,535	12,780	14,518	16,912
USSR	307	1,078	2,643	5,268	6,852	6,816	7,138	8,923	10,263
Eastern Europe	151	431	968	1,741	2,091	2,032	2,181	3,011	3,612
Developed countries	73	289	474	1,636	1,272	1,215	1,133	978	1,087
Less developed countries	18	125	463	1,385	1,599	2,065	1,930	1,399	1,722
Czechoslovakia	1,929	3,792	8,158	15,255	17,123	17,408	17,810	21,391	23,506
USSR	659	1,222	2,664	5,535	7,305	7,599	7,802	9,414	10,790
Eastern Europe	561	1,213	2,621	4,294	4,423	4,449	4,757	6,112	7,013
Developed countries	335	783	1,673	3,242	2,680	2,775	2,778	3,209	3,604
Less developed countries	200	331	706	1,287	1,462	1,347	1,281	1,376	1,197
East Germany ^c	2,207	4,647	10,680	18,862	24,291	24,552	23,889	27,831	30,756
USSR	924	1,742	3,700	6,616	8,637	9,112	8,892	10,139	11,223
Eastern Europe	588	1,386	3,368	5,389	5,713	5,592	5,698	7,742	8,173
Developed countries	446	1,078	2,631	4,546	7,250	7,247	7,053	7,996	9,180
Less developed countries	89	183	431	1,205	1,471	1,155	1,124	1,234	1,421
Hungary	874	2,317	5,694	11,644	13,199	13,278	13,438	16,179	17,917
USSR	256	790	2,174	3,980	5,253	5,020	5,742	7,238	8,588
Eastern Europe	278	648	1,518	3,288	3,385	3,563	3,403	4,292	4,538
Developed countries	192	630	1,424	3,031	2,899	2,989	2,609	2,774	2,945
Less developed countries	58	137	334	845	1,106	985	899	1,362	1,379
Poland	1,326	3,548	10,510	17,543	16,427	17,269	17,710	23,362	25,956
USSR	390	1,251	3,362	5,609	6,550	6,792	6,860	9,035	10,825
Eastern Europe	335	882	2,671	3,801	4,043	4,295	4,766	7,305	7,189
Developed countries	403	1,024	3,278	5,857	3,755	4,059	3,983	4,787	5,193
Less developed countries	93	258	845	1,649	1,481	1,448	1,207	1,722	1,863
Romania	717	1,851	5,420	11,209	11,512	12,646	12,167	12,502	12,502 ^d
USSR	281	529	1,096	2,326	2,245	2,155	2,717	3,435	3,714
Eastern Europe	189	395	1,011	2,099	2,289	2,184	2,161	NA	NA
Developed countries	154	622	1,899	3,957	3,675	4,298	3,773	NA	NA
Less developed countries	40	153	985	2,365	2,158	2,049	1,752	NA	NA

^a Domestic currency converted into US dollars at the exchange rate prevailing at time of transactions. Exports are on an f.o.b. basis. Trade with the Communist countries was derived by converting the value of the trade expressed in the currency of each East European country to rubles and then to dollars at the prevailing foreign exchange rate.

^b Preliminary.

^c East German figures were converted first into current-year rubles and then into current-year US dollars.

^d Data are for 1986.

Table 143**East European Imports, by Country ^a**

Million US \$

	1960	1965	1970	1975	1980	1983	1984	1985	1986	1987 ^b
Bulgaria	625	1,178	1,831	5,528	9,776	12,374	12,349	13,087	15,577	17,057
USSR	332	589	955	2,826	5,622	7,196	7,145	7,250	8,861	9,778
Eastern Europe	174	236	372	1,007	1,394	1,756	2,107	2,265	3,050	3,901
Developed countries	89	266	355	1,289	1,658	1,719	1,826	2,076	2,389	2,450
Less developed countries	13	37	81	209	342	768	842	1,064	1,080	722
Czechoslovakia	1,816	2,673	3,695	8,874	15,523	17,039	17,350	17,894	22,066	23,869
USSR	630	955	1,209	2,818	5,659	8,004	8,154	8,256	10,098	10,981
Eastern Europe	524	851	1,123	2,839	4,506	4,612	4,888	5,133	6,490	7,130
Developed countries	360	514	917	2,244	3,693	2,708	2,590	2,711	3,477	4,133
Less developed countries	161	197	214	501	829	664	738	711	810	812
East Germany ^c	2,194	2,823	4,923	11,947	20,790	21,975	21,926	22,155	27,496	31,010
USSR	958	1,205	1,945	4,172	7,451	8,902	8,878	8,995	11,215	12,082
Eastern Europe	496	693	1,246	3,147	5,004	4,972	5,068	5,262	6,884	8,110
Developed countries	484	656	1,378	3,704	6,336	6,347	6,357	6,542	7,586	8,716
Less developed countries	90	120	182	483	1,218	1,021	964	894	1,171	1,349
Hungary	976	1,520	2,505	6,795	12,613	13,367	12,939	12,934	16,472	17,970
USSR	303	553	832	2,284	4,617	5,326	5,357	5,691	6,900	7,686
Eastern Europe	317	415	726	1,813	3,200	3,655	3,500	3,466	4,445	5,089
Developed countries	237	383	678	1,966	3,707	2,945	2,839	3,155	3,583	4,051
Less developed countries	58	113	177	498	845	1,111	972	577	1,093	661
Poland	1,495	2,340	3,608	12,752	19,702	15,753	16,542	17,419	22,311	24,343
USSR	465	728	1,361	3,294	6,698	7,066	7,554	7,847	9,859	10,727
Eastern Europe	400	706	1,000	2,354	3,963	4,266	4,373	4,505	6,015	6,957
Developed countries	447	583	938	6,199	6,699	3,056	3,136	3,495	4,580	5,025
Less developed countries	99	210	196	597	1,789	746	805	762	857	791
Romania	648	1,077	1,960	5,418	12,818	9,643	10,334	10,432	10,600	10,600 ^d
USSR	266	406	501	951	2,131	2,210	2,219	2,326	4,016	4,018
Eastern Europe	173	210	441	1,078	2,067	2,031	2,151	2,197	NA	NA
Developed countries	155	363	786	2,285	3,961	1,448	1,516	1,470	NA	NA
Less developed countries	20	55	117	732	4,012	2,773	2,707	2,675	NA	NA

^a Imports are f.o.b. except for Hungary, which is on a c.i.f. basis. Trade with the Communist countries was derived by converting the value of the trade expressed in the currency of each East European country to rubles and then to dollars at the prevailing foreign exchange rate. Country totals include trade with centrally planned economy countries other than the USSR and Eastern Europe.

^b Preliminary.

^c East German figures were converted first into current-year rubles and then into current-year US dollars.

^d Data are for 1986.

Table 144
East European Exports, by Country ^a

Million US \$

	1970	1975	1980	1983	1984	1985	1986	1987 ^b
Bulgaria	2,004	4,807	10,489	12,222	12,535	12,780	14,518	16,912
Machinery and equipment	581	1,956	4,657	5,915	5,979	6,837	8,279	9,644
Fuels, minerals and metals	162	375	1,573	1,393	1,354	1,278	1,146	1,335
Agricultural and forestry products	870	1,620	2,559	2,664	2,795	2,352	2,435	2,836
Manufactured consumer goods	295	495	923	1,210	1,266	1,240	1,547	1,802
Other	96	361	777	1,040	1,141	1,074	1,111	1,295
Czechoslovakia	3,792	8,158	15,255	17,123	17,408	17,810	21,391	23,506
Machinery and equipment	1,911	3,916	7,673	9,383	9,801	10,152	12,278	13,493
Fuels, minerals and metals	705	1,574	2,624	2,431	2,385	2,369	2,674	2,938
Agricultural and forestry products	277	587	1,312	1,147	1,149	1,122	1,305	1,434
Manufactured consumer goods	629	1,485	2,426	2,774	2,698	2,743	3,465	3,808
Other	270	596	1,220	1,388	1,375	1,425	1,669	1,833
East Germany	4,647	10,680	18,862	24,291	24,552	23,889	27,831	30,756
Machinery and equipment	2,402	5,415	9,676	11,611	11,515	11,132	12,997	14,363
Fuels, minerals and metals	469	1,292	2,791	4,299	4,297	4,778	4,425	4,890
Agricultural and forestry products	344	972	1,207	1,919	2,038	1,839	2,171	2,399
Manufactured consumer goods	939	1,666	2,791	3,425	3,707	3,368	4,564	5,044
Other	493	1,335	2,397	3,037	2,995	2,771	3,674	4,060
Hungary	2,317	5,694	11,644	13,199	13,278	13,438	16,179	17,917
Machinery and equipment	755	2,107	4,495	4,078	4,076	4,663	5,905	6,540
Fuels, minerals and metals	334	678	1,490	2,085	2,138	1,586	1,780	1,971
Agricultural and forestry products	619	1,435	3,190	3,524	3,439	3,333	3,867	4,282
Manufactured consumer goods	494	1,162	2,073	2,072	2,111	2,258	2,864	3,171
Other	115	312	1,396	1,440	1,514	1,599	1,763	1,953
Poland	3,548	10,510	17,543	16,427	17,269	17,710	23,362	25,956
Machinery and equipment	1,366	4,109	7,807	7,852	8,220	8,731	12,475	13,861
Fuels, minerals and metals	848	3,058	4,473	4,501	4,507	4,126	4,696	5,217
Agricultural and forestry products	600	1,209	1,754	1,396	1,606	1,700	2,219	2,466
Manufactured consumer goods	571	1,534	2,684	1,938	2,090	2,302	2,990	3,322
Other	163	600	825	740	866	850	982	1,090
Romania	1,851	5,420	11,209	11,512	12,646	12,167	12,502	12,502 ^c
Machinery and equipment	422	1,371	2,791	3,649	4,249	4,222	4,338	NA
Fuels, minerals and metals	420	1,209	3,720	3,154	3,326	3,030	3,113	NA
Agricultural and forestry products	496	1,225	1,962	1,427	1,467	1,448	1,488	NA
Manufactured consumer goods	335	873	1,816	1,934	2,011	2,056	2,113	NA
Other	178	742	920	1,348	1,593	1,411	1,450	NA

^a The values of East European exports by commodity group were calculated by applying East European data on percentage breakdowns to total exports expressed in US dollars (see table 143, footnote). Values for 1987 were estimated using percentage shares for 1986.

^b Preliminary.
^c Data are for 1986.

Table 145
East European Imports, by Country ^a

Million US \$

	1970	1975	1980	1983	1984	1985	1986	1987 ^b
Bulgaria	1,831	5,528	9,776	12,374	12,349	13,087	15,577	17,057
Machinery and equipment	743	2,289	3,461	4,232	4,211	4,345	5,826	6,379
Fuels, minerals and metals	533	1,852	4,194	5,729	5,792	6,138	6,838	7,488
Agricultural and forestry products	291	702	948	1,064	1,037	1,243	1,324	1,450
Manufactured consumer goods	104	282	430	532	506	497	623	682
Other	160	403	743	817	803	864	966	1,058
Czechoslovakia	3,695	8,874	15,523	17,039	17,350	17,894	22,066	23,869
Machinery and equipment	1,234	3,204	5,681	5,657	6,003	6,156	7,878	8,522
Fuels, minerals and metals	868	2,467	4,921	7,003	7,096	7,229	8,782	9,500
Agricultural and forestry products	890	1,544	2,499	2,062	2,065	2,165	2,471	2,673
Manufactured consumer goods	314	683	916	954	919	1,020	1,280	1,384
Other	389	976	1,506	1,363	1,267	1,324	1,655	1,790
East Germany	4,923	11,947	20,790	21,975	21,926	22,155	27,496	31,010
Machinery and equipment	1,684	3,680	6,403	6,570	5,701	5,938	8,111	9,148
Fuels, minerals and metals	1,359	3,644	7,630	8,702	9,121	9,416	10,943	12,342
Agricultural and forestry products	1,383	2,700	3,929	3,911	3,881	3,567	4,289	4,837
Manufactured consumer goods	222	669	1,039	967	1,250	1,374	1,787	2,016
Other	275	1,254	1,789	1,825	1,973	1,861	2,366	2,667
Hungary	2,505	6,795	12,613	13,367	12,939	12,934	16,472	17,970
Machinery and equipment	774	2,188	3,872	3,810	3,506	3,699	4,843	5,283
Fuels, minerals and metals	591	1,855	3,406	4,197	3,998	3,854	4,629	5,050
Agricultural and forestry products	611	1,291	2,346	2,112	2,070	1,966	2,553	2,785
Manufactured consumer goods	193	482	971	1,136	1,216	1,319	1,763	1,923
Other	336	979	2,018	2,112	2,149	2,095	2,684	2,929
Poland	3,608	12,752	19,702	15,753	16,542	17,419	22,311	24,343
Machinery and equipment	1,306	4,769	6,443	4,285	4,946	5,731	7,809	8,520
Fuels, minerals and metals	960	3,826	6,127	6,459	6,435	6,532	8,188	8,934
Agricultural and forestry products	772	2,270	4,118	2,205	2,349	2,282	2,610	2,848
Manufactured consumer goods	231	676	1,261	1,528	1,538	1,603	2,097	2,288
Other	339	1,211	1,753	1,276	1,274	1,272	1,607	1,753
Romania	1,960	5,418	12,818	9,643	10,334	10,432	10,600	10,600 ^c
Machinery and equipment	790	1,880	3,153	2,391	2,552	2,785	2,830	NA
Fuels, minerals and metals	596	2,070	6,447	5,149	5,436	5,320	5,406	NA
Agricultural and forestry products	306	845	1,884	1,013	1,116	1,148	1,166	NA
Manufactured consumer goods	108	206	310	366	434	438	445	NA
Other	160	417	1,124	724	796	741	753	NA

^a The values of East European imports by commodity group were calculated by applying East European data on percentage breakdowns to total imports expressed in US dollars (see table 143, footnote a). Values for 1987 were estimated using percentage shares for 1986.

^b Preliminary.
^c Data are for 1986.

Table 146
Chinese Foreign Trade ^a*Million US \$*

		Total Trade	Communist Countries				Non-Communist Countries		
			Total	USSR	Eastern Europe	Other ^b	Total	Developed Countries	Less Developed Countries ^c
1965	Exports	2,035	650	225	95	330	1,385	575	810
	Imports	1,680	515	190	110	215	1,165	805	360
1970	Exports	2,155	480	20	255	205	1,675	660	1,015
	Imports	2,045	390	25	225	140	1,655	1,370	285
1975	Exports	7,130	1,375	150	630	595	5,755	2,610	3,145
	Imports	6,830	1,005	130	595	280	5,825	4,985	840
1980	Exports	18,925	1,885	230	1,130	525	17,040	8,270	8,770
	Imports	19,305	1,945	295	1,110	540	17,360	13,515	3,845
1982	Exports	23,435	1,210	145	660	405	22,230	10,225	12,005
	Imports	16,690	1,670	165	925	580	15,020	10,805	4,215
1983	Exports	23,710	1,365	310	670	385	22,155	9,940	12,215
	Imports	18,485	1,620	340	810	470	16,870	11,825	5,045
1984	Exports	27,195	1,655	625	690	340	25,540	11,880	13,660
	Imports	24,930	2,025	575	1,000	450	22,905	15,450	7,455
1985	Exports	29,480	2,415	995	1,045	375	27,070	13,575	13,495
	Imports	38,955	2,780	935	1,470	375	36,175	24,655	11,520
1986	Exports	34,600	2,935	1,140	1,425	370	31,665	14,920	16,745
	Imports	37,355	3,695	1,305	1,950	440	33,660	22,475	11,185
1987 ^d	Exports	44,900	3,450	1,160	1,840	450	41,450	20,100	21,350
	Imports	40,200	3,700	1,050	2,000	650	36,500	21,200	15,300

^a Data are f.o.b. and rounded to the nearest US \$5 million.^b Including data for Albania, China, Cuba, Mongolia, North Korea, Vietnam, and Yugoslavia.^c Domestic currency converted into US dollars at the exchange rate prevailing at time of transactions. Exports are

on an f.o.b. basis. Trade with the Communist countries was derived by converting the value of the trade expressed in the currency of each East European country to rubles and then to dollars at the prevailing foreign exchange rate.

^d Preliminary.

Table 147
Chinese Exports ^a*Million US \$*

	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987
Total	2,155	7,130	18,925	21,495	23,435	23,710	27,195	29,480	34,600	44,900
Food and live animals	660	2,045	3,210	3,450	3,595	3,235	3,545	3,925	NA	NA
Live animals	70	215	340	380	395	330	350	330	NA	NA
Meat and meat preparations	105	240	385	375	500	430	530	510	NA	NA
Fish and fish preparations	70	190	400	425	385	330	355	405	NA	NA
Cereals and cereal preparations	150	615	485	510	495	290	355	780	NA	NA
Vegetables and fruit	170	435	935	1,050	1,040	1,005	980	985	NA	NA
Beverages and tobacco	20	80	120	120	140	155	135	135	NA	NA
Crude materials, excluding fuel	380	840	1,820	2,050	1,790	2,090	2,570	2,930	NA	NA
Oilseeds, oil nuts, and oil kernels	70	160	185	525	245	345	475	500	NA	NA
Textile fibers and wastes	105	245	545	500	550	730	975	1,165	NA	NA
Crude animal and vegetable materials	115	225	540	455	465	470	510	495	NA	NA
Mineral fuels, lubricants, and related materials	60	1,025	4,415	4,765	5,255	4,790	5,735	7,215	NA	NA
Petroleum and petroleum products	5	865	4,165	4,495	4,930	4,475	5,430	6,630	NA	NA
Animal and vegetable oils and fats	25	55	85	105	70	105	140	1,300	NA	NA
Chemicals	115	350	1,180	1,300	1,280	1,320	1,405	1,600	NA	NA
Chemical elements and compounds	25	100	480	550	565	545	595	685	NA	NA
Manufactured goods	590	1,650	4,410	5,140	5,005	4,935	5,880	6,205	NA	NA
Textile yarn, fabrics, made-up articles	390	1,035	2,765	3,080	2,920	3,155	4,075	4,380	NA	NA
Nonmetallic mineral manufactures	60	170	415	480	480	420	420	400	NA	NA
Manufactures of metal	40	110	390	520	565	630	650	570	NA	NA
Machinery and transport equipment	75	260	610	805	790	925	1,145	1,185	NA	NA
Miscellaneous manufactured goods	225	800	3,010	3,665	4,150	4,525	5,735	6,675	NA	NA
Clothing	100	355	1,665	2,095	2,435	2,740	3,375	3,765	NA	NA
Other	5	25	65	95	1,365	1,630	1,355	1,325	NA	NA

^a Data are f.o.b. and rounded to the nearest US \$5 million.

Table 148
Chinese Imports ^a*Million US \$*

	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987
Total	2,045	6,830	19,305	17,940	16,690	18,485	24,930	38,955	37,355	40,200
Food and live animals	330	815	2,860	3,080	3,495	2,580	2,030	1,635	NA	NA
Cereals and cereal preparations	255	540	2,225	2,340	2,475	2,010	1,520	1,050	NA	NA
Sugar, sugar preparations, and honey	65	155	300	470	650	370	295	215	NA	NA
Crude materials, excluding fuel	235	730	3,325	3,175	2,520	2,375	2,735	3,330	NA	NA
Rubber, crude (including synthetic and reclaimed)	95	165	430	215	245	260	285	315	NA	NA
Textile fibers and wastes	95	395	2,065	2,280	1,470	1,100	1,225	1,575	NA	NA
Mineral fuels, lubricants, and related materials	40	130	175	175	175	175	215	500	NA	NA
Petroleum and petroleum products	10	40	30	55	30	45	55	310	NA	NA
Animal and vegetable oils and fats	5	40	180	105	95	60	75	100	NA	NA
Chemicals	310	815	2,185	2,025	2,110	2,195	3,315	3,655	NA	NA
Chemical elements and compounds	175	250	545	470	525	565	670	825	NA	NA
Fertilizers, manufactured	65	390	980	755	580	585	985	885	NA	NA
Manufactured goods	690	2,190	4,575	4,000	4,195	5,785	7,610	10,845	NA	NA
Textile yarn, fabrics, made-up articles, and products	40	90	845	1,575	1,160	1,120	1,530	2,100	NA	NA
Iron and steel	390	1,475	2,235	1,320	1,870	3,300	4,200	5,865	NA	NA
Nonferrous metals	200	395	420	165	430	745	905	1,315	NA	NA
Machinery and transport equipment	405	2,010	5,350	4,595	3,280	4,185	7,620	16,375	NA	NA
Machinery, other than electric	190	985	2,790	2,545	1,405	1,790	3,000	6,825	NA	NA
Electric machinery	30	190	1,070	1,345	820	1,190	2,425	4,715	NA	NA
Transport equipment	190	835	1,490	705	1,055	1,205	2,200	4,835	NA	NA
Miscellaneous manufactured goods	25	75	485	595	670	895	1,510	2,445	NA	NA
Other	NEGL	25	170	190	145	240 ^b	NA	NA	NA	NA

^a Data are f.o.b. and rounded to the nearest US \$5 million.^b Including beverages and tobacco.

Table 149
Cuban Foreign Trade ^a

Million US \$

		Total Trade	Communist Countries			Other ^b	Non-Communist Countries
			Total	USSR	Eastern Europe		
1965	Exports	691	529	323	103	103	162
	Imports	866	649	428	98	123	217
1970	Exports	1,050	778	529	150	99	272
	Imports	1,311	905	691	125	89	406
1975	Exports	3,572	2,401	2,011	279	111	1,171
	Imports	3,767	1,935	1,513	304	118	1,832
1980	Exports	5,593	3,922	3,177	569	176	1,671
	Imports	6,409	4,983	3,989	826	168	1,426
1982	Exports	5,928	5,008	3,956	666	386	920
	Imports	6,645	5,886	4,507	1,082	297	759
1983	Exports	6,416	5,521	4,494	746	281	895
	Imports	7,235	6,260	4,931	1,120	209	974
1984	Exports	6,174	5,530	4,451	826	253	644
	Imports	8,213	6,906	5,448	1,136	322	1,307
1985	Exports	6,503	5,786	4,868	722	196	717
	Imports	8,677	7,302	5,840	1,133	329	1,375
1986	Exports	6,290	5,700	4,850	670	180	590
	Imports	9,158	7,574	6,429	1,120	25	1,584
1987 ^c	Exports	NA	NA	NA	NA	NA	NA
	Imports	7,236	NA	NA	NA	NA	NA

^a Exports are on an f.o.b. basis; imports are on a c.i.f. basis. Cuban trade with non-Communist countries is based on hard currency world prices while its Communist country trade uses soft currency negotiated prices which are frequently subsidized in Cuba's favor and do not reflect real market values. The result is a more favorable global trade

balance than if Cuba conducted all of its trade at world market prices.

^b Including data for Albania, China, Cuba, Mongolia, North Korea, Vietnam, and Yugoslavia.

^c Preliminary.

Table 150
Cuban Exports ^a

Million US \$

	1965	1970	1975	1980	1983	1984	1985	1986	1987
Total	691	1,050	3,572	5,593	6,416	6,174	6,503	6,290	NA
Sugar	591	806	3,209	4,677	4,730	4,663	4,851	NA	NA
Raw and refined	579	785	3,183	4,624	4,717	4,625	4,818	NA	NA
Molasses	12	21	26	53	13	38	33	NA	NA
Minerals	50	175	169	270	360	340	360	NA	NA
Nickel	40	173	164	260	352	329	321	NA	NA
Other	10	2	5	10	8	11	39	NA	NA
Tobacco	33	33	63	51	119	64	100	NA	NA
Raw	19	15	22	8	37	21	43	NA	NA
Manufactured	14	18	41	43	82	43	57	NA	NA
Foodstuffs ^b	5	29	131	255	372	280	384	400	NA
Fish and shellfish	3	19	63	124	122	104	128	150	NA
Citrus	1	3	14	58	137	134	156	150	NA
Other ^c	12	7	NEGL	340	835	827	808	640	NA

^a Exports are f.o.b.^b Excluding sugar and sugar products.^c Includes reexports of petroleum imports.**Table 151**
Cuban Imports ^a

Million US \$

	1965	1970	1975	1980	1983	1984	1985	1986	1987
Total	866	1,311	3,767	6,409	7,235	8,213	8,677	9,158	7,236
Food and live animals, beverage, tobacco, oil, fats	205	263	718	1,093	914	935	940	NA	NA
Crude materials, except fuels	25	61	145	278	229	307	336	NA	NA
Mineral fuels, lubricants	85	114	377	1,311	2,160	2,522	2,881	NA	NA
Chemicals	46	77	212	426	483	502	479	NA	NA
Manufactures	153	130	464	884	867	1,100	1,090	NA	NA
Basic manufactured machinery and transport equipment	133	368	911	2,253	2,213	2,501	2,621	NA	NA
Miscellaneous manufactured articles	NEGL	NEGL	1	164	262	248	223	NA	NA
Other ^b	219	298	939	0	107	98	98	NA	NA

^a Imports are c.i.f.^b Some of the imports reported in the other category through 1978 probably could be included in "manufactures" or

"basic manufactured machinery and transport equipment".

Sources: *Anuario Estadístico de Cuba* (various issues), various National Bank of Cuba publications.

Table 152
Communist Economic Aid to Less Developed Countries,
Extensions and Drawings ^a

Million US \$

	Total		USSR		Eastern Europe		China	
	Extended	Drawn	Extended	Drawn	Extended	Drawn	Extended	Drawn
Total	66,320	33,535	40,585	19,130	17,965	8,835	7,770	5,570
1954-77	26,265	12,990	13,585	7,395	7,915	3,100	4,765	2,495
1978	4,900	1,255	3,000	520	1,650	430	250	305
1979	4,620	1,175	3,800	620	645	310	175	245
1980	4,475	1,565	2,605	955	1,330	335	540	275
1981	1,825	1,750	845	925	895	515	85	310
1982	2,130	2,370	1,370	1,300	725	695	35	375
1983	3,895	2,750	3,185	1,645	410	730	300	375
1984	6,125	2,575	3,205	1,510	2,110	760	810	305
1985	4,120	2,410	3,085	1,460	765	635	270	315
1986	4,255	2,315	3,000	1,310	1,020	685	235	320
1987	3,710	2,380	2,905	1,490	500	640	305	250

^a Data rounded to the nearest \$ 5 million.

Table 153
Communist Arms Transfers to Less Developed Countries,
Agreements and Deliveries ^a

Million US \$

	Total Deliveries	USSR Deliveries	Eastern Europe		China	
			Agreements	Deliveries	Agreements	Deliveries
Total	216,735	186,470	20,770	18,115	16,750	12,150
1954-76	34,330	29,400	3,000	2,075	2,995	2,855
1977	7,465	7,000	650	355	110	110
1978	10,315	9,600	560	550	235	165
1979	16,085	15,300	750	645	215	140
1980	14,875	13,900	905	690	445	285
1981	16,000	14,200	2,665	1,390	3,015	410
1982	19,280	15,950	1,960	2,135	1,840	1,195
1983	19,675	16,580	1,755	1,535	830	1,560
1984	20,230	15,940	1,800	2,255	335	2,035
1985	17,320	13,740	3,050	3,000	1,430	580
1986	18,855	15,905	2,175	1,885	1,950	1,065
1987	22,305	18,955	1,500	1,600	3,350	1,750

^a Data rounded to the nearest \$ 5 million. Data for the Less Developed Countries includes Cuba.

Table 154
Soviet Economic Aid Extended to Less Developed
Countries

Million US \$

	1954-87	1986	1987		1954-87	1986	1987
Total	40,596	3,003	2,905	Other	327	6	12
Africa	9,896	128	283	East Asia	261	0	0
Algeria	1,937	0	0	Indonesia	214	0	0
Angola	985	7	14	Other	47	0	0
Burkina Faso	6	NEGL	0	Europe	440	0	0
Cameroon	8	0	0	Latin America	3,649	614	373
Central African Republic	3	0	0	Argentina	455	0	NEGL
Congo	74	0	0	Bolivia	204	1	0
Equatorial Guinea	4	0	0	Brazil	478	300	20
Ethiopia	1,456	0	158	Nicaragua	1,621	312	352
Ghana	110	0	0	Other	891	1	1
Guinea	431	0	5	Middle East and South Asia	26,350	2,261	2,249
Madagascar	286	85	0	Afghanistan	4,010	100	609
Mauritania	34	0	0	Bangladesh	600	0	85
Morocco	2,098	0	0	Egypt	1,723	0	284
Mozambique	423	30	82	India	7,741	2,126	1,193
Nigeria	1,207	NA	0	Iran	1,164	0	0
Senegal	8	NEGL	0	Iraq	2,726	0	0
Sierra Leone	35	0	0	North Yemen	197	0	0
Somalia	164	0	0	Pakistan	1,210	0	0
Sudan	65	0	10	Sri Lanka	178	0	78
Tanzania	45	0	0	Syria	1,916	0	0
Tunisia	123	0	0	Turkey	3,399	0	0
Uganda	35	0	0	Other	1,486	35	0
Zambia	32	0	2				

Table 155
East European Economic Aid Extended to the
Less Developed Countries, by Recipient

Million US \$

	1954-87	1986	1987		1954-87	1986	1987
Total	17,969	1,021	500				
Africa	5,192	688	209	Brazil	781	0	0
Algeria	974	200	0	Ecuador	27	0	0
Ethiopia	564	50	3	Nicaragua	679	14	91
Ghana	149	0	0	Peru	265	0	0
Guinea	130	0	0	Uruguay	31	0	0
Morocco	234	20	0	Venezuela	10	0	0
Nigeria	1,077	200	203	Other	777	11	0
Somalia	41	NEGL	0	Middle East and South Asia	9,017	308	200
Sudan	386	117	0	Afghanistan	214	3	0
Tanzania	87	0	0	Bangladesh	718	2	NEGL
Tunisia	284	0	0	Egypt	2,028	100	200
Zambia	166	0	0	India	432	0	0
Other	1,100	101	3	Iran	786	0	0
East Asia	682	0	0	Iraq	493	0	0
Burma	213	0	0	Lebanon	9	0	0
Indonesia	367	0	0	North Yemen	38	0	0
Philippines	80	0	0	Pakistan	709	38	0
Other	22	0	0	South Yemen	204	0	0
Latin America	3,078	25	91	Sri Lanka	93	0	0
Argentina	298	0	0	Syria	1,759	15	0
Bolivia	99	NEGL	0	Turkey	1,522	150	0
Colombia	111	0	0	Other	12	0	0

Table 156
Chinese Economic Aid Extended to the
Less Developed Countries, by Recipient

Million US \$

	1954-87	1986	1987		1954-87	1986	1987
Total	7,779	237	305	Uganda	65	22	2
Africa	4,469	215	63	Zaire	188	50	0
Algeria	92	0	0	Zambia	365	6	14
Benin	72	NEGL	16	Other	533	31	22
Burkina	74	NEGL	8	East Asia	513	0	42
Burundi	125	54	0	Burma	271	0	30
Cameroon	106	NA	NA	Indonesia	47	0	0
Central African Republic	34	0	0	Philippines	42	0	11
Chad	68	0	0	Other	153	0	1
Congo	199	0	0	Latin America	301	10	12
Ethiopia	143	1	0	Guyana	38	0	0
Ghana	58	NEGL	0	Nicaragua	22	3	0
Guinea	147	0	0	Peru	42	0	0
Kenya	78	0	1	Other	199	7	12
Madagascar	144	5	0	Middle East and South Asia	2,450	12	188
Mali	148	9	0	Afghanistan	76	0	0
Mauritania	239	NEGL	0	Bangladesh	184	0	40
Mauritius	48	0	0	Egypt	193	0	0
Mozambique	89	0	NEGL	Iraq	45	0	0
Niger	58	0	0	Nepal	327	11	13
Rwanda	56	0	0	North Yemen	172	0	42
Senegal	53	0	0	Pakistan	1,050	1	91
Sierra Leone	94	15	0	South Yemen	98	0	2
Somalia	220	17	0	Sri Lanka	222	0	0
Sudan	228	NEGL	0	Syria	70	0	0
Tanzania	602	5	NEGL	Other	13	0	0
Togo	46	0	0	Europe	46	0	0
Tunisia	97	0	0	Malta	46	0	0

Table 157

Million US \$

Soviet Economic Aid Extended to Communist Countries ^a

	1954-86	1980	1981	1982	1983	1984	1985	1986
Total	143,900	18,140	20,535	15,355	9,380	8,915	8,030	12,115
Eastern Europe	72,165	12,500	14,100	9,000	3,800	2,300	1,100	3,700
East Asia	12,455	1,195	1,265	1,130	1,080	1,095	1,275	1,675
North Korea	1,545	260	145	130	40	55	95	95
Vietnam	10,910	935	1,120	1,000	1,040	1,040	1,180	1,580
Other	59,280	4,445	5,170	5,225	4,500	5,520	5,655	6,740
Cuba	47,150	3,610	4,340	4,340	3,615	4,735	4,770	5,695
Mongolia	12,130	835	830	885	885	785	885	1,045

^a Data rounded to the nearest \$ 5 million.**Table 158**

Million US \$

USSR: Economic Assistance to Cuba ^a

	1961-86	1975	1979	1980	1981	1982	1983	1984	1985	1986
Total	47,150	1,065	3,180	3,610	4,340	4,340	3,615	4,735	4,770	5,695
Development aid ^b	12,200	150	460	965	1,175	595	470	985	1,025	1,720
Trade Subsidies	34,950	915	2,720	2,645	3,165	3,745	3,145	3,750	3,745	3,975
Sugar ^c	27,705	575	2,325	1,165	1,390	2,635	2,695	3,550	3,645	3,875
Petroleum ^d	6,690	310	380	1,480	1,655	1,005	345	100	0	0
Nickel ^e	555	30	15	0	120	105	105	100	100	100

^a Based on official Cuban and Soviet trade data. Data rounded to the nearest \$ 5 million.^b Based on (a) estimated balance-of-payments aid necessary to cover Cuban trade deficits with the USSR; (b) Cuban purchases of capital goods from Moscow; and (c) public statements by Cuban and Soviet officials concerning the amount of development aid extended. This aid is repayable, but terms are highly concessional.^c Sugar and nickel subsidies are estimated as the difference between the price Moscow pays for these commodities and their world market value. The difference is considered a grant and not subject to repayment.^d The petroleum subsidy reflects the difference between the value of petroleum purchased from the USSR and the value of these imports at world market prices. It is considered a grant and not subject to repayment.

Table 159
US Economic Loans and Grants Extended
to the Less Developed Countries ^a

Million US \$

	1946-87 ^b	1975 ^c	1980 ^c	1983 ^c	1984 ^c	1985 ^c	1986 ^c
Total	165,169	4,548	7,570	8,564	9,007	12,311	10,036
Africa	15,000	335	800	971	1,165	1,591	1,202
Ethiopia	573	24	15	3	10	87	78
Ghana	506	8	28	7	20	25	24
Liberia	689	16	24	63	66	69	59
Morocco	1,489	24	27	54	84	106	85
Mozambique	172	0	19	10	18	39	32
Somalia	620	5	0	70	82	83	69
Tanzania	351	40	25	8	6	9	3
Tunisia	1,053	13	29	19	18	30	39
Zaire	948	5	26	30	46	61	72
Other	8,599	200	607	707	815	1,082	741
East Asia	25,703	494	407	286	308	426	618
Burma	199	0	7	19	15	20	16
Indonesia	3,428	90	196	111	116	114	102
Philippines	3,053	68	83	103	106	240	399
South Korea	6,063	37	31	0	0	0	0
Thailand	952	7	30	29	42	42	38
Other	12,008	292	60	24	29	10	63
Latin America	19,510	520	498	1,161	1,217	1,892	1,490
Bolivia	1,048	26	30	63	78	51	75
Brazil	2,447	15	2	NEGL	0	1	1
Chile	1,198	96	10	3	2	1	1
Colombia	1,406	28	23	4	8	11	12
Costa Rica	1,099	4	16	214	170	220	163
Dominican Republic	1,216	12	56	63	98	171	102
Ecuador	501	8	12	27	29	52	60
El Salvador	1,778	4	58	246	216	434	323
Guatemala	751	14	13	30	20	107	117

Table 159 (continued)
US Economic Loans and Grants Extended
to the Less Developed Countries ^a

Million US \$

	1946-87 ^b	1975 ^c	1980 ^c	1983 ^c	1984 ^c	1985 ^c	1986 ^c
Mexico	385	NEGL	7	8	8	11	12
Panama	570	21	2	7	12	74	33
Peru	1,195	16	53	94	165	79	58
Other	5,916	276	216	402	411	680	533
Middle East and South Asia	58,702	1,786	2,802	2,987	3,093	4,470	4,331
Afghanistan	550	21	0	0	0	3	9
Bangladesh	2,205	304	157	172	193	205	185
Egypt	13,082	370	1,166	1,005	1,104	1,292	1,293
India	11,415	249	222	210	213	191	197
Israel	12,700	353	786	785	910	1,950	1,898
Jordan	1,683	99	73	20	20	100	95
Pakistan	6,552	181	59	279	307	339	356
Sri Lanka	926	38	60	80	76	67	66
Turkey	4,217	4	198	286	140	176	120
Other	5,372	167	81	150	130	147	112
Europe and Oceania	2,406	95	94	39	59	106	92
Spain	1,120	3	7	12	12	12	0
Other	1,286	92	87	27	47	94	92
Interregional	43,848	1,318	2,969	3,120	3,165	3,826	2,303

^a Data are for fiscal years and are for official development assistance, which is concessional.

^b Data are reported on a net basis, excluding total deobligations.

^c Data reported are on a gross basis.

Table 160*Million US \$***US Military Deliveries to the Less Developed Countries ^a**

	1975-87	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total	116,464	7,546	7,563	5,973	6,964	8,579	10,715	7,778	7,156	8,135	28,909
North Africa and the Middle East	90,583	6,121	6,203	4,324	5,051	6,500	8,685	5,612	4,879	5,474	25,683
Egypt	5,657	57	193	209	207	1,066	1,037	348	669	692	1,166
Iran	10,182	2,065	2,519	7	0	0	0	0	2	0	0
Israel	11,293	948	515	853	1,308	1,122	459	495	717	487	1,511
Jordan	2,042	178	126	277	221	193	344	100	151	89	81
Kuwait	1,056	191	74	79	67	92	78	66	48	85	84
Lebanon	591	10	11	17	14	39	191	221	53	14	14
Morocco	868	99	142	69	128	64	67	77	55	43	46
North Yemen	334	27	70	72	49	40	17	10	12	4	9
Oman	115	1	1	8	18	34	26	8	5	5	5
Saudi Arabia	55,995	2,535	2,500	2,640	3,005	3,782	6,092	3,681	2,992	3,893	21,912
Tunisia	918	2	45	11	24	16	26	140	161	48	434
Other	1,532	8	7	82	10	52	348	466	14	114	421
Sub-Saharan Africa	1,200	111	38	53	72	160	96	122	83	166	111
Cameroon	46	3	NEGL	3	1	3	4	12	NEGL	8	3
Kenya	175	47	8	4	28	25	21	6	8	13	13
Liberia	49	0	2	1	1	1	10	7	10	11	5
Nigeria	151	10	9	11	11	13	7	10	3	39	4
Somalia	107	0	0	0	0	14	21	23	21	13	15
Sudan	346	32	8	22	23	94	14	44	22	58	29
Zaire	101	12	7	10	7	7	8	5	11	10	10
Other	225	7	4	2	1	3	11	15	8	14	32

Table 160 (continued)
US Military Deliveries to the Less Developed Countries ^a

Million US \$

	1975-87	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Latin America	3,360	125	122	139	101	239	233	331	493	434	569
Argentina	161	24	36	12	11	10	7	4	5	9	8
Brazil	365	12	16	15	15	14	29	21	15	44	34
Chile	149	11	15	10	0	0	0	0	1	1	1
Colombia	122	4	8	5	12	21	12	14	9	18	7
Ecuador	169	24	9	11	8	13	31	10	5	12	28
El Salvador	518	1	NEGL	2	13	59	47	85	117	111	82
Mexico	384	3	2	4	5	76	31	4	10	28	212
Peru	174	18	16	15	10	11	9	4	4	6	9
Venezuela	823	10	14	20	22	30	43	146	257	91	83
Other	495	18	6	45	5	5	24	43	70	114	105
Asia	18,302	1,068	1,082	1,329	1,504	1,390	1,525	1,540	1,464	1,745	1,736
India	154	11	11	9	5	6	6	19	11	28	25
Indonesia	544	22	30	117	77	29	41	26	44	30	35
Malaysia	479	66	22	24	58	29	51	40	25	45	24
Pakistan	2,000	53	63	57	89	151	261	518	379	203	152
Philippines	534	54	38	56	33	53	32	22	30	43	48
Singapore	924	14	91	29	75	44	105	49	45	224	191
South Korea	5,178	508	474	497	432	404	331	314	303	546	532
Taiwan	4,581	214	227	269	442	467	510	356	476	477	597
Thailand	1,840	113	98	248	271	171	183	190	144	132	115
Other	2,068	13	28	23	22	36	5	6	7	17	17
Europe	3,019	121	118	128	236	290	176	173	237	316	810
Portugal	470	25	11	20	24	88	33	70	111	42	38
Spain	2,549	96	107	108	212	202	143	103	126	274	772

^a Fiscal years. Including deliveries under the following programs: (1) Military Assistance Program grants under the various Mutual Security Acts; (2) Foreign Military Sales, which consist of US-financed arms, US-guaranteed private

arms credits, and US-approved commercial sales; and (3) Military assistance excess stocks, which involved surplus equipment that has been valued at 33 percent of the original acquisition value.

Table 161
Communist Economic and Military Technicians
in the Less Developed Countries, by Country, 1987 ^a

Number of persons

	Economic		Military	
	USSR and Eastern Europe	China	USSR and Eastern Europe	China
Total	95,315	48,715	21,345	325
Africa	57,170	7,615	7,990	220
North Africa	41,395	1,110	3,325	0
Algeria	7,820	500	1,065	0
Libya	31,500	200	2,260	NA
Mauritania	35	260	0	0
Morocco	1,500	75	0	0
Tunisia	540	75	0	0
Other	0	0	0	0
Sub-Saharan	15,775	6,505	4,665	220
Angola	2,175	150	1,200	100
Congo	435	130	80	10
Ethiopia	2,450	25	1,700	0
Gabon	15	100	0	0
Ghana	80	15	0	0
Guinea	1,675	75	70	0
Guinea-Bissau	50	150	100	0
Kenya	90	150	0	0
Madagascar	175	250	55	0
Mali	555	100	60	5
Mozambique	2,050	175	950	0
Niger	15	150	0	0
Nigeria	5,050	100	50	0
Rwanda	15	800	0	NA
Sao Tome/Principe	125	15	150	0
Senegal	25	100	0	0
Sierra Leone	10	350	0	0
Somalia	10	650	0	20
Sudan	155	350	20	5
Tanzania	80	550	90	0

Table 161 (continued)
Communist Economic and Military Technicians
in the Less Developed Countries, by Country, 1987 ^a

Number of persons

	Economic		Military	
	USSR and Eastern Europe	China	USSR and Eastern Europe	China
Zambia	125	225	100	0
Other	415	1,895	40	80
East Asia	65	1,510	3,750	0
Europe	330	50	0	0
Latin America	1,770	480	350	0
Bolivia	15	0	0	0
Brazil	105	0	0	0
Colombia	20	30	0	0
Nicargua	550	0	300	0
Peru	50	10	50	0
Uruguay	25	0	0	0
Other	1,005	440	0	0
Middle East	27,405	38,410	5,630	65
Iran	625	0	100	0
Iraq	12,750	15,000	1,000	0
North Yemen	375	4,000	480	0
South Yemen	2,185	0	1,000	0
Syria	4,705	100	3,000	0
Other	6,765	19,310	50	65
South Asia	8,575	650	3,625	40
Afghanistan	3,710	0	3,025	0
Bangladesh	100	50	0	40
India	3,625	0	600	0
Nepal	10	300	0	0
Pakistan	955	250	0	0
Sri Lanka	170	50	0	0
Other	5	0	0	0

^a Minimum estimates of number present for one month or more. Data rounded to the nearest five persons.

Table 162
Military Personnel From Non-Communist Less Developed Countries
Trained in Communist Countries, 1987^a

Number of persons

	Total	USSR	Eastern Europe	China		Total	USSR	Eastern Europe	China
Total	11,515	7,985	3,530	0	Mozambique	1,000	NA	1,000	0
Africa	5,930	3,335	2,595	0	Nigeria	240	140	100	0
North Africa	1,910	970	940	0	East Asia	0	0	0	0
Algeria	110	100	10	0	Latin America	1,200	400	800	0
Libya	1,800	870	930	0	Nicaragua	1,200	400	800	0
Sub-Saharan	4,020	2,365	1,655	0	Middle East	1,650	1,550	100	0
Angola	1,500	1,400	100	0	Iraq	150	50	100	0
Ethiopia	680	480	200	0	North Yemen	500	500	0	0
Ghana	75	5	70	0	South Yemen	1,000	1,000	0	0
Guinea	55	55	0	0	South Asia	2,735	2,700	35	0
Guinea-Bissau	0	NA	0	0	Afghanistan	2,025	2,000	25	0
Mali	65	65	0	0	India	710	700	10	0

^a Data refer to the minimum number of persons departing for training. Data rounded to the nearest five persons.

Table 163
Academic, Technical, and Military Trainees Departing
From Less Developed Countries for Training in Communist Countries,
by Area of Destination ^a

Number of persons

	1979	1980	1982	1983	1984	1985	1986	1987
Total trainees	19,030	20,700	22,720	26,900	29,475	35,990	34,430	36,430
USSR and Eastern Europe	18,965	20,610	22,490	26,495	29,065	35,465	34,155	36,060
China	65	90	230	405	410	525	275	370
Academic trainees	13,865	13,530	12,555	14,995	16,820	19,355	16,555	16,590
USSR and Eastern Europe	13,815	13,480	12,470	14,795	16,695	19,085	16,280	16,220
China	50	50	85	200	125	270	275	370
Technical trainees	2,975	3,745	5,110	5,715	5,565	6,850	7,410	8,325
USSR and Eastern Europe	2,975	3,745	5,035	5,665	5,540	6,850	7,410	8,325
China	0	0	75	50	25	0	0	0
Military trainees	2,190	3,425	5,055	6,190	7,090	9,785	10,465	11,515
USSR and Eastern Europe	2,175	3,385	4,985	6,035	6,830	9,530	10,465	11,515
China	15	40	70	155	260	255	0	0

^a Data rounded to the nearest five persons. Data are for persons departing for training and not necessarily those completing training.

Declassified and Approved For Release 2012/09/07 : CIA-RDP89T01437R000100140006-0
Transportation

Table 164
Railroad Freight ^a*Billion metric ton-kilometers*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD									
United States ^b	868.5	1,141.0	1,122.7	1,350.0	1,216.8	1,353.7	1,288.3	1,274.6	1,392.6
Canada	95.5	158.0	197.2	228.1	219.8	244.5	232.0	235.5	261.0
Japan	53.4	63.4	47.1	39.3	29.1	23.2	22.1	20.9	19.8
European Community	175.0	213.0	180.0	197.0	175.0	178.0	184.0	NA	NA
France	56.9	70.4	64.0	69.5	59.4	60.1	58.5	52.8	50.1
Italy ^c	15.9	18.0	14.9	18.4	16.8	17.9	18.0	17.5	18.4
United Kingdom ^d	30.5	26.8	20.9	17.6	17.1	12.5	15.7	15.9	14.8
West Germany	52.3	71.3	55.1	65.3	55.9	59.8	63.9	60.5	59.0
Other countries									
India ^{e f}	87.8	127.4	148.2	157.1	175.8	172.5	196.5	213.4	217.0
South Africa ^e	30.8	57.2	61.9	96.5	77.8	90.3	92.6	90.6	86.2
Communist countries									
USSR and Eastern Europe	1,691.2	2,778.2	3,590.3	3,821.2	3,959.6	4,009.1	4,086.0	NA	NA
USSR	1,504.3	2,494.7	3,236.5	3,439.9	3,600.1	3,638.8	3,718.4	3,835.0	3,825.0
Eastern Europe	186.9	283.5	353.8	381.3	359.5	370.3	367.6	NA	NA
Bulgaria	7.0	13.9	17.3	17.7	18.1	18.1	18.2	18.3	17.8
Czechoslovakia	47.4	61.0	69.3	72.6	73.1	74.0	73.6	75.2	73.5
East Germany	32.9	41.5	49.7	56.4	54.9	56.7	58.7	58.9	NA
Hungary	13.3	19.8	23.5	24.4	23.1	22.8	22.3	22.6	21.7
Poland	66.5	99.3	129.2	134.7	118.0	123.5	120.6	121.8	121.4
Romania	19.8	48.0	64.8	75.5	72.3	75.2	74.2	NA	NA
Other									
China	276.7	349.6	425.6	571.2	664.6	724.8	812.6	876.5	947.1
North Korea	9.1	14.3	24.3	33.5	39.6	40.7	NA	NA	NA

^a Excluding urban systems; plantation, forest, mine, industrial plant, underground, funicular, and cable railroads; and short line of little importance. Unless otherwise indicated, data are for the state or principal railroad system and include all goods and livestock carried during the calendar year and exclude service traffic, mail, and nonrevenue government stores. Freight traffic carried on more than one

railroad line within a country is counted only once. Foreign trade freight traffic carried through more than one country, however, is counted in each country. Data for the United States include express and mail and are specifically for revenue and nonrevenue freight traffic for a more realistic comparison with Soviet methods of reporting.

^b Including secondary or private railroads operating as common carriers.

^c Excluding livestock.

^d Excluding data for Northern Ireland.

^e Including mail and passenger baggage. Data are for the year beginning 1 April of the stated year.

^f Including service traffic.

Table 165
Railroad Freight ^a*Million metric tons carried*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD									
United States ^b	1,180.5	1,426.3	1,368.5	1,645.0	1,481.0	1,647.0	1,567.0	1,550.0	1,694.0
Canada ^b	161.2	211.2	252.4	278.0	268.0	298.0	283.0	287.3	318.3
France	227.0	260.0	228.0	229.0	195.0	198.0	193.0	174.0	165.0
United Kingdom ^c	253.0	209.0	176.0	150.0	146.0	106.0	134.0	136.0	126.0
West Germany ^{b d}	429.0	393.0	329.0	367.0	314.0	336.0	359.0	340.0	331.0
Communist countries									
USSR and Eastern Europe	2,815.6	4,135.0	5,084.5	5,289.9	5,368.7	5,465.8	5,495.2	NA	NA
USSR	1,884.9	2,896.0	3,621.1	3,728.0	3,850.6	3,909.5	3,951.0	4,076.0	4,066.0
Eastern Europe	930.7	1,239.0	1,463.4	1,561.9	1,518.1	1,556.3	1,544.2	NA	NA
Bulgaria	38.4	68.2	78.8	77.8	82.6	83.4	82.9	85.0	82.5
Czechoslovakia	194.1	236.9	271.4	286.0	291.6	299.0	293.2	296.6	NA
East Germany	237.8	262.9	289.0	311.6	325.6	337.4	347.9	346.0	NA
Hungary ^e	96.0	117.4	131.7	129.8	123.8	121.7	117.4	119.0	115.3
Poland	286.9	382.3	464.2	482.1	414.5	425.5	419.4	430.7	428.8
Romania	77.5	171.3	228.3	274.6	280.0	289.3	283.4	NA	NA
Other									
China	NA	681.3	889.6	1,112.8	1,187.8	1,240.7	1,307.1	1,356.4	NA
Cuba	NA	11.7	10.9	14.1	17.7	18.4	18.4	16.1	15.9
North Korea	38.5	68.0	106.4	152.3	180.0	185.0	NA	NA	NA

^a Excluding urban systems; plantation, forest, mine, industrial plant, underground, funicular, and cable railroads; and short line of little importance. Unless otherwise indicated, data are for the state or principal railroad system and include all goods and livestock carried during the calendar year and exclude service traffic, mail, and nonrevenue

government stores. Freight traffic carried on more than one railroad line within a country is counted only once. Foreign trade freight traffic carried through more than one country, however, is counted in each country. Data for the United States are in tons originated, thus giving a more realistic comparison with European methods of reporting.

^b Including secondary or private railroads operating as common carriers.

^c Including data for Northern Ireland.

^d Including service traffic.

^e Including performance of railroads owned jointly by Hungary and Austria within Hungary.

Table 166
Motor Vehicle Freight*Billion metric ton-kilometers*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD									
United States ^a	323.85	675.85	744.75	910.43	943.23	994.08	1,000.64	1,043.31	NA
Japan	20.80	135.92	129.70	178.90	193.53	200.81	205.94	216.20	217.05
Communist countries ^b									
USSR and Eastern Europe	117.30	277.79	432.65	558.05	594.44	583.45	583.92	NA	NA
USSR	98.52	220.83	337.93	432.10	485.80	475.10	476.16	487.70	496.45
Eastern Europe	18.78	56.96	94.72	125.95	108.64	108.35	107.76	NA	NA
Bulgaria	2.04	7.90	12.39	15.89	16.94	17.12	16.72	16.49	16.74
Czechoslovakia	5.11	10.09	15.02	21.33	20.64	20.91	21.50	22.30	22.50
East Germany	5.00	12.23	16.69	21.02	15.38	14.49	15.06	15.29	NA
Hungary	NA	5.82	8.73	11.40	11.95	11.95	11.89	12.84	NA
Poland	5.69	15.76	32.60	44.55	35.47	36.58	36.59	37.34	40.06
Romania	.94	5.16	9.29	11.76	8.26	7.30	6.00	NA	NA
Other									
China	13.20	13.80	20.30	76.40 ^c	108.40 ^c	153.60 ^c	177.00 ^c	185.10 ^c	NA

^a Total traffic for all urban streets and rural roads.^b Including traffic by state automotive transport organizations and by cooperatives; branch enterprises; and transport units of industries, plants, offices, and the like.^c Including freight carried in vehicles by all sectors.

Table 167
Motor Vehicle Freight ^a*Million metric tons carried*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
Communist countries									
USSR and Eastern Europe	9,919	17,793	25,886	30,133	31,585	30,725	30,891	NA	NA
USSR	8,493	14,623	20,914	24,149	26,400	25,600	25,879	26,345	27,000
Eastern Europe	1,426	3,170	4,972	5,984	5,185	5,125	5,012	NA	NA
Bulgaria	128	493	724	816	907	914	912	925	922
Czechoslovakia	428	703	997	1,235	1,266	1,258	1,238	1,274	NA
East Germany	270	464	588	730	584	561	555	544	NA
Hungary	135	407	501	584	562	554	551	572	NA
Poland	408	863	1,743	2,168	1,397	1,420	1,394	1,407	1,363
Romania	57	240	419	451	469	418	362	NA	NA
Other									
China	708	568	725	760	791	789	762	784	NA
Cuba ^b	NA	24	47	70	76	74	75	74	NA

^a Including traffic by state automotive transport organizations and by cooperatives; branch enterprises; and transport units of industries, plants, offices, and the like.

^b State transport only.

Table 168
Inland Water Freight*Billion metric ton-kilometers*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD									
United States ^a	123.00	229.21	265.16	334.25	331.02	356.25	341.36	339.14	NA
European Community									
France	10.77	14.18	11.90	12.15	9.45	8.90	NA	NA	NA
Netherlands	20.02	30.74	29.60	33.48	32.30	33.59	32.78	NA	NA
West Germany	40.39	48.81	47.56	51.44	49.09	52.00	48.18	NA	NA
Communist countries									
USSR and Eastern Europe	107.27	185.91	234.54	259.81	287.36	279.76	275.77	NA	NA
USSR	99.60	173.98	221.71	244.90	273.20	264.30	261.50	255.60	256.60
Eastern Europe	7.67	11.93	12.83	14.91	14.16	15.46	14.27	NA	NA
Bulgaria	.62	1.83	2.39	2.61	2.33	2.64	2.04	2.43	1.97
Czechoslovakia	1.96	2.43	2.58	3.59	3.92	4.43	4.36	4.83	5.06
East Germany	2.25	2.36	2.36	2.16	2.42	2.64	2.43	2.47	NA
Hungary	1.08	1.60	1.47	1.87	1.74	1.81	1.62	1.91	NA
Poland	.90	2.36	1.95	2.33	1.45	1.44	1.41	1.62	1.60
Romania	.86	1.35	2.08	2.35	2.30	2.50	2.41	NA	NA

^a Internal, intraport, and local water traffic, excluding Great Lakes traffic. For 1986, coastwise and foreign trade traffic within US waters together amounted to 110 billion metric ton-kilometers. In the same year, traffic on the Great Lakes amounted to 64 billion metric ton-kilometers of domestic trade and 35 billion metric ton-kilometers of US foreign trade.

Table 169*Million metric tons carried***Inland Water Freight**

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD									
United States ^a	358.56	502.22	528.17	570.77	508.28	565.73	552.40	578.65	NA
European Community									
France	68.05	110.35	94.58	92.20	71.95	68.89	NA	NA	NA
Netherlands	149.67	241.44	235.80	269.27	247.23	256.85	255.50	NA	NA
West Germany	171.36	240.00	227.30	240.98	223.94	236.48	222.41	NA	NA
Communist countries									
USSR and Eastern Europe	235.20	394.63	524.18	637.91	672.88	691.97	704.24	NA	NA
USSR	210.32	357.80	475.50	568.10	606.70	619.10	633.00	649.00	673.00
Eastern Europe	24.88	36.83	48.68	69.81	66.18	72.87	71.24	NA	NA
Bulgaria	1.56	3.69	4.41	4.94	4.78	4.90	3.97	4.53	4.08
Czechoslovakia	3.53	4.46	5.65	10.46	11.86	13.37	13.33	14.22	14.27
East Germany	12.63	13.66	14.59	16.30	17.47	18.70	17.70	18.50	NA
Hungary	2.30	2.78	3.04	3.52	3.23	3.25	3.30	3.40	NA
Poland	2.95	8.84	14.89	22.25	14.28	15.45	14.54	14.88	14.75
Romania	1.91	3.40	6.10	12.34	14.56	17.20	18.40	NA	NA
Other									
Cuba ^b	NA	.93 ^c	4.83 ^d	5.25 ^d	5.62	5.77	5.51	5.77	5.99

^a Internal, intraport, and local water traffic, excluding Great Lakes traffic.

^b Coastal freight.

^c Transported by Flota Propia.

^d Transported by Flota Propia and companion boats.

Table 170
Ocean Freight ^a*Billion metric ton-kilometers*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
Communist countries									
USSR and Eastern Europe	189.2	922.0	1,146.6	1,339.1	1,335.2	1,382.3	1,328.2	NA	NA
USSR ^b	131.5	656.1	736.3	848.2	891.7	933.0	905.0	970.0	968.6
Eastern Europe	57.7	265.9	410.3	490.9	443.5	449.3	423.2	NA	NA
Bulgaria ^c	2.5	38.9	42.2	62.5	61.2	60.5	56.6	60.4	67.5
Czechoslovakia	7.5	10.5	12.0	12.4	13.6	14.1	14.2	11.2	NA
East Germany ^c	10.5	69.7	79.7	70.7	65.3	66.0	64.1	76.0	NA
Hungary ^d	1.3	2.7	4.0	7.6	8.0	9.2	8.8	8.4	NA
Poland ^{c e}	34.8	106.6	206.1	257.4	197.1	193.4	176.1	172.7	197.0
Romania	1.1	37.5	66.3	80.3	98.3	106.1	103.4	NA	NA

^a Unless otherwise indicated, data are for international shipping and include the performance of ships of less than 1,000 gross register tons.

^b Including Caspian Sea, Danube River, and domestic coastal and intercoastal traffic.

^c Including coastal traffic.

^d Including Danube River traffic.

^e Possibly excluding the performance of some ships flying the Polish flag but under control of the Chinese-Polish Shipbrokers Corporation.

Table 171
Air Passengers*Billion passenger-kilometers*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD									
United States ^a	62.5	212.0	262.0	405.9	423.8	465.9	498.8	553.2	645.1
Canada	4.3	15.4	25.0	36.2	31.5	34.2	35.3	36.1	40.2
Japan	1.1	15.0	30.1	50.9	55.6	61.1	63.7	66.2	NA
European Community									
France	5.2	13.6	23.3	34.1	38.3	38.5	39.3	39.3	44.1
United Kingdom	7.3	19.0	30.2	56.1	49.7	50.4	57.3	57.0	65.7
Communist countries:									
USSR	12.1	78.2	122.6	160.6	176.8	184.0	188.4	195.8	200.9

^a Revenue passenger-kilometers flown on scheduled service of certificated route air carriers.

Table 172
Air Freight ^a*Billion passenger-kilometers*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD									
United States ^b	1,377	7,277	8,603	10,359	10,755	11,983	11,661	13,159	14,167
Canada	66	425	628	823	990	1,126	1,156	1,098	1,141
Japan	24	426	920 ^c	1,976 ^d	2,655 ^d	2,941 ^d	3,127 ^d	3,780	NA
European Community									
France	152	542	1,086	2,093	2,597	2,894	2,981	3,196	3,473
Netherlands	117	393	617	996	1,245	1,456	1,485	1,596	1,820
United Kingdom	181	617	933	1,544 ^e	1,528 ^e	1,858 ^e	1,982 ^e	2,118 ^e	2,256 ^e
West Germany	41	523	974	1,584	2,042	2,345	2,498	2,959	3,387
Communist countries									
USSR	563	1,877	2,590	3,090	3,190	3,280	3,350	3,380	3,410

^a Express freight, and mail traffic.^b Revenue ton-kilometers flown on scheduled service of certificated route air carriers.^c Japan Air Lines data only.^d Japan Air Lines and Japan-Asia Airways.^e Excluding airlines based in the UK territories and dependencies.**Table 173**
Civil Aircraft Inventory ^a*Units*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
United States ^b									
Jet ^c	202	2,136	2,114	2,469	2,691	2,724	2,989	3,283	3,575
Turboprop ^c	227	374	260	267	204	185	231	416	546
Piston ^c	1,408	153	114	77	78	51	77	101	112
USSR ^d									
Jet	191	425	1,080	1,855	1,830	1,995	2,015	2,059	2,230
Turboprop	174	1,238	1,500	1,925	1,655	1,515	1,600	1,600	1,560

^a Data exclude light aircraft. No attempt has been made to standardize comparisons of the US and Soviet aircraft inventories in terms of capacity for passenger-cargo carrying and/or range capability.^b Large aircraft only. Data for all cargo operators not available prior to 1980. This data refers to certificate route carriers, supplementals, commercial operators, and all cargo operators.^c Includes large aircraft operated by supplemental air carriers, commercial operations, intra-state air taxi and commuter operations after 1985.^d Data basically represent the inventory of Aeroflot—the Soviet civil airline.

Table 174
Petroleum Pipelines*Billion metric ton-kilometers*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD									
United States	333.8	629.2	740.2	858.5	811.7	829.3	823.4	846.8	NA
Communist countries									
USSR and Eastern Europe	52.3	299.8	692.6	1,256.8	1,391.8	1,409.3	1,352.1	NA	NA
USSR	51.2	281.7	665.9	1,216.0	1,353.1	1,370.3	1,312.5	1,401.3	1,450.1
Eastern Europe	1.1	18.1	26.7	40.8	38.7	39.0	39.6	NA	NA
Bulgaria	.0	.0	.0	.8	1.1	.9	1.0	.9	1.0
Czechoslovakia	NA	6.4	4.4	10.3	9.5	9.4	9.5	9.7	NA
East Germany	.0	2.2	4.3	5.0	4.3	4.3	4.5	4.3	NA
Hungary	.1	.7	2.5	2.4	1.9	2.1	2.8	2.8	NA
Poland	NA	7.0	12.7	17.1	17.5	17.8	17.0	17.8	18.5
Romania	1.0	1.8	2.8	5.2	4.4	4.5	4.8	NA	NA

Table 175
Petroleum Pipelines*Million metric tons carried*

	1960	1970	1975	1980	1983	1984	1985	1986	1987
OECD									
United States ^a	414.7	784.6	982.6	1,020.0	964.6	985.4	978.5	1,006.3	NA
Communist countries									
USSR and Eastern Europe	136.7	399.7	602.6	772.1	797.3	799.0	786.7	NA	NA?
USSR	129.9	337.9	496.8	626.9	648.7	648.0	631.0	653.0	660.0
Eastern Europe	6.8	61.8	105.8	145.2	148.6	151.0	155.7	NA	NA
Bulgaria	.0	.0	.0	3.1	15.6	20.1	21.6	20.7	21.0
Czechoslovakia	NA	13.4 ^b	14.9 ^b	21.5	19.1	16.5	19.1	19.3	NA
East Germany	.0	15.4	32.1	41.6	39.3	37.3	38.3	37.4	NA
Hungary	1.2	6.3	13.8	15.8	16.0	16.7	16.7	16.5	NA
Poland	NA	15.4	30.5	40.7	39.3	39.8	38.7	40.1	41.8
Romania	5.6	11.3	14.5	22.5	19.3	20.6	21.3	NA	NA

^a Data are for tons originated, thus giving a more realistic comparison with the Communist countries.

^b Crude petroleum only.

Table 176
Fishing Fleet Inventory ^a

	1970		1975		1980		1985		1986		1987	
	Number	Thousand GRT ^b	Number	Thousand GRT	Number	Thousand GRT	Number	Thousand GRT	Number	Thousand GRT	Number	Thousand GRT
OECD												
United States	1,066	234	1,643	343	2,945	550	3,113	599	3,118	601	3,136	603
Japan	536	204	1,171	440	1,939	628	2,513	813	2,645	874	2,782	933
Norway	341	117	418	149	532	201	553	208	570	225	594	254
European Community	2,066	564	3,001	881	3,377	1,023	3,751	1,169	3,843	1,213	3,974	1,272
France	291	61	370	108	393	123	441	140	458	144	469	146
Netherlands	113	19	231	46	285	59	395	113	411	124	439	134
Portugal	112	80	134	95	150	106	175	111	181	114	188	115
Spain	869	226	1,254	359	1,400	426	1,439	455	1,456	469	1,506	496
United Kingdom	169	47	273	74	316	86	342	90	352	92	369	97
West Germany	53	12	81	34	87	37	103	41	105	42	110	44
Communist countries												
USSR and Eastern Europe	1,289	1,540	2,080	2,421	2,760	3,364	3,300	4,112	3,341	4,186	3,367	4,235
USSR	1,025	1,320	1,703	2,078	2,264	2,883	2,779	3,593	2,817	3,659	2,836	3,693
Eastern Europe	264	220	377	343	496	481	521	519	524	527	531	542
Bulgaria	23	51	32	74	32	74	32	74	32	74	32	74
East Germany	123	73	123	73	133	90	136	99	138	103	144	114
Poland	109	70	197	131	289	197	302	210	303	214	304	218
Romania	9	26	25	65	42	120	51	136	51	136	51	136
Other												
China	46	12	74	12	103	39	105	41	109	42	109	42
Cuba	218	61	240	85	263	140	263	140	263	140	263	140
Yugoslavia	2	NEGL	2	NEGL	7	NEGL	18	2	18	2	18	2

^a Data are as of midyear.^b Gross register tons; excluding ships under 100 GRT.

Table 177
Merchant Fleet Inventory ^a

	1970		1975		1980		1985		1986		1987	
	Number	Thousand DWT	Number	Thousand DWT	Number	Thousand DWT	Number	Thousand DWT	Number	Thousand DWT	Number	Thousand DWT
World total	9,322	108,337	15,645	306,336	22,699	473,804	28,905	605,639	29,782	630,338	30,398	646,654
Non-Communist countries	6,955	86,120	12,198	270,959	18,166	422,387	23,559	541,108	24,325	563,888	24,870	578,815
OECD	2,315	28,163	4,180	77,955	6,885	132,520	9,493	178,165	9,902	187,601	10,273	194,286
Non-European Community	1,015	12,445	1,943	31,498	3,457	57,196	4,931	82,257	5,177	89,299	5,443	93,998
United States ^b	456	8,718	569	13,871	779	22,303	981	26,026	990	26,574	1,006	27,168
Japan	217	1,179	719	11,662	1,670	22,911	2,684	39,611	2,881	45,019	3,068	48,573
Norway	56	178	124	643	193	2,600	249	3,889	256	4,166	262	4,441
Sweden	67	215	120	511	178	1,026	218	1,871	222	1,928	262	1,958
Other	219	2,155	411	4,811	637	8,356	799	10,860	828	11,612	845	11,858
European Community	1,300	15,718	2,237	46,457	3,428	75,324	4,562	95,908	4,725	98,302	4,830	100,288
France	25	181	82	2,785	155	5,289	198	6,537	203	6,704	205	6,711
Greece ^c	570	10,330	877	25,209	1,120	36,994	1,279	43,807	1,299	44,498	1,311	45,087
Italy	303	2,403	478	6,757	607	10,402	667	11,474	671	11,541	683	11,942
United Kingdom	132	1,400	237	3,392	385	5,700	497	7,210	513	7,301	521	7,518
West Germany	61	180	125	628	299	1,756	639	4,231	699	4,667	723	4,909
Other	209	1,224	438	7,686	862	15,183	1,282	22,649	1,340	23,591	1,387	24,121
Non-OECD countries	4,640	57,957	8,018	193,004	11,281	289,867	14,066	362,943	14,423	376,287	14,597	384,529
Flag of Convenience	1,655	30,114	3,337	113,896	4,868	162,644	6,349	199,307	6,565	206,445	6,660	210,744
Cyprus	374	7,795	864	26,176	1,202	32,015	1,291	33,635	1,307	33,923	1,312	34,019
Liberia	231	9,811	719	54,198	1,157	81,507	1,475	95,547	1,521	98,314	1,553	100,212
Panama	1,050	12,508	1,754	33,522	2,509	49,122	3,583	70,125	3,737	74,208	3,795	76,513
Other countries	2,985	27,843	4,681	79,108	6,413	127,223	7,717	163,636	7,858	169,842	7,937	173,785
Brazil	75	792	143	3,006	228	6,686	333	9,681	345	10,011	354	10,083
India	103	1,687	194	4,970	263	7,344	346	9,813	361	10,263	371	10,536
Malaysia/Singapore	225	1,472	412	4,655	589	9,138	737	12,955	754	13,858	768	14,420
Other	2,582	23,892	3,932	66,477	5,333	104,055	6,301	131,187	6,398	135,710	6,444	138,746

Table 177 (continued)
Merchant Fleet Inventory ^a

	1970		1975		1980		1985		1986		1987	
	Number	Thousand DWT	Number	Thousand DWT	Number	Thousand DWT	Number	Thousand DWT	Number	Thousand DWT	Number	Thousand DWT
Communist countries	2,367	22,217	3,447	35,377	4,533	51,417	5,346	64,531	5,457	66,450	5,528	67,839
USSR and Eastern Europe	1,554	12,284	2,280	20,299	2,991	30,707	3,527	39,051	3,607	40,370	3,658	41,379
USSR ^d	1,299	9,924	1,838	14,752	2,273	21,368	2,665	26,327	2,718	27,014	2,752	27,515
Eastern Europe	255	2,360	442	5,547	718	9,339	862	12,724	889	13,356	906	13,864
Bulgaria ^e	47	461	65	795	93	1,490	109	1,812	112	1,895	117	1,939
Czechoslovakia ^f	4	19	9	153	13	177	16	222	16	222	16	222
East Germany	63	568	92	889	144	1,452	157	1,651	164	1,761	166	1,798
Hungary	4	16	6	43	15	108	15	108	15	108	15	108
Poland ^g	94	893	174	2,522	243	3,500	274	4,200	283	4,490	289	4,598
Romania	43	403	96	1,145	210	2,612	291	4,731	299	4,880	303	5,199
Other	813	9,933	1,167	15,078	1,542	20,710	1,819	25,480	1,850	26,080	1,870	26,460
Albania ^h	8	44	9	60	9	60	9	60	9	60	9	60
China	575	7,664	854	11,574	1,087	14,897	1,294	18,365	1,314	18,750	1,324	18,901
Cuba	37	254	50	419	83	849	102	996	109	1,110	110	1,115
Yugoslavia	112	1,428	153	2,350	230	3,977	269	5,043	273	5,144	282	5,368
Other ⁱ	81	543	101	675	133	927	145	1,016	145	1,016	145	1,016

^a Ships of 1,000 gross register tons (GRT) or more. Data are as of the end of the year. Data for the non-Communist countries include all combination passenger and cargo ships, whereas, unless otherwise indicated, those for the Communist countries exclude passenger ships that have small cargo capacities.

^b Excluding ships operating only on the Great Lakes and US-owned ships flying the Liberian, Panamanian, and other "flags of convenience."

^c Excluding Greek-owned ships flying the Liberian, Panamanian, and other "flags of convenience."

^d Excluding the Caspian Sea Fleet passenger ships and vessels subordinate to the Ministry of the Fishing Industry.

^e Before August 1968, a few additional Bulgarian-owned ships were operated under the flags of non-Communist countries.

^f Until March 1967, an undetermined number of Czechoslovak-flag ships were jointly owned with China.

^g Including some ships flying the Polish flag but under the control of the Chinese-Polish Shipbrokers Corporation. At the end of 1985, there were 13 of these ships.

^h Data include a number of ships jointly owned by the Chinese-Albanian Joint Stock Shipping Company.

ⁱ Including North Korean and Vietnamese vessels.

Table 178
Tanker Fleet Inventory ^a

	1970		1975		1980		1985		1986		1987	
	Number	Thousand DWT	Number	Thousand DWT	Number	Thousand DWT	Number	Thousand DWT	Number	Thousand DWT	Number	Thousand DWT
World total	1,653	31,986	2,994	136,266	4,239	213,737	5,265	243,889	5,427	250,996	5,559	256,479
Non-Communist countries	1,372	27,899	2,603	129,766	3,706	203,978	4,618	231,699	4,768	238,574	4,891	243,656
OECD	563	12,005	974	39,946	1,536	68,080	1,958	79,284	2,045	82,967	2,116	85,393
Non-European Community	241	5,450	440	16,749	860	30,605	1,157	36,903	1,212	39,522	1,269	41,393
United States ^b	131	4,543	172	7,756	217	13,908	247	15,705	251	16,012	255	16,311
Japan	36	231	152	7,180	489	12,328	714	15,182	755	17,000	803	18,182
Norway	5	25	9	345	23	1,812	32	2,601	34	2,757	37	3,020
Sweden	21	63	30	132	31	140	40	252	42	298	42	298
Other	48	588	77	1,336	100	2,417	124	3,163	130	3,455	132	3,582
European Community	322	6,555	534	23,197	676	37,475	801	42,381	833	43,445	847	44,000
France	10	130	35	2,521	47	4,136	53	4,424	54	4,457	55	4,459
Greece ^c	134	4,430	202	11,787	235	17,606	258	18,814	268	19,179	271	19,299
Italy	92	854	144	2,643	168	4,020	188	4,484	190	4,515	192	4,648
United Kingdom	45	652	67	1,574	92	2,631	107	3,054	107	3,054	107	3,054
West Germany	4	7	10	34	21	289	39	516	41	530	43	556
Other	37	482	76	4,638	113	8,793	156	11,089	173	11,710	179	11,984
Non-OECD countries	809	15,894	1,629	89,820	2,170	135,898	2,660	152,415	2,723	155,607	2,775	158,263
Flag of Convenience	249	8,871	626	56,818	874	80,018	1,154	89,618	1,195	91,586	1,230	93,533
Cyprus	47	2,867	96	10,306	108	11,035	117	11,337	119	11,417	120	11,456
Liberia	50	3,662	244	34,783	375	52,466	471	57,692	492	58,965	509	59,932
Panama	152	2,342	286	11,729	391	16,517	566	20,589	584	21,204	601	22,145
OPEC	122	1,121	256	7,825	331	12,982	365	13,952	366	14,039	366	14,399
Iraq	1	5	13	352	23	1,426	23	1,426	23	1,426	23	1,426
Kuwait	2	23	5	228	5	228	5	228	5	228	5	228
Libya	0	0	4	569	11	1,341	11	1,341	11	1,341	11	1,341
Venezuela	3	24	5	84	10	274	20	776	20	776	20	776
Other	116	1,069	229	6,592	282	9,713	306	10,181	307	10,268	307	10,628
Other countries	438	5,902	747	25,177	965	42,898	1,141	48,845	1,162	49,982	1,179	50,331
Brazil	26	498	38	1,490	48	2,838	60	3,297	63	3,353	63	3,353
India	4	176	25	1,436	32	1,816	61	3,123	61	3,123	61	3,123
Other	408	5,228	684	22,251	885	38,244	1,020	42,425	1,038	43,506	1,055	43,855

Table 178 (continued)
Tanker Fleet Inventory ^a

	1970		1975		1980		1985		1986		1987	
	Number	Thousand DWT	Number	Thousand DWT	Number	Thousand DWT	Number	Thousand DWT	Number	Thousand DWT	Number	Thousand DWT
Communist countries	281	4,087	391	6,500	533	9,759	647	12,190	659	12,422	668	12,823
USSR and Eastern Europe	192	2,625	257	4,206	340	6,744	429	8,533	438	8,695	447	9,096
USSR ^d	185	2,474	232	3,098	303	5,469	389	6,928	397	7,084	403	7,241
Eastern Europe	7	151	25	1,108	37	1,275	40	1,605	41	1,611	44	1,855
Bulgaria	6	132	9	299	13	445	13	445	14	451	15	457
East Germany	0	0	1	60	1	60	1	60	1	60	1	60
Poland	0	0	7	382	14	398	15	400	15	400	15	400
Romania	1	19	8	367	9	372	11	700	11	700	13	938
Other	89	1,462	134	2,294	193	3,015	218	3,657	221	3,727	221	3,727
China	65	1,151	104	1,936	155	2,530	175	2,954	178	3,024	178	3,024
Cuba	6	26	9	61	13	98	15	103	15	103	15	103
Yugoslavia	12	240	12	240	13	321	16	534	16	534	16	534
Other ^e	6	45	9	57	12	66	12	66	12	66	12	66

^a Tankers and whaling tankers of 1,000 gross registered tons (GRT) or more. Data are as of the end of the year and include specialized oil and chemical tankers and some combination carriers (oil/dry bulk carriers). For the purposes of this table, the tonnage is converted to deadweight (DWT).

^b Excluding ships operating only on the Great Lakes and US-owned ships flying the Liberian, Panamanian, and other "flags of convenience."

^c Excluding Greek-owned ships flying the Liberian, Panamanian, and other "flags of convenience."

^d Excluding the Caspian Sea Fleet and tankers assigned to the Ministry of the Fishing Industry.

^e Including North Korean and Vietnamese vessels.

Table 179
Offloading Ports Accessible to Fully Loaded Tankers
of 200,000 Deadweight Tons and Larger, January 1988

Port		Largest Loaded Tanker Accommodated (Thousand DWT)	Port		Largest Loaded Tanker Accommodated (Thousand DWT)
OECD			OECD (continued)		
Australia	Brisbane	268	Greece (cont.)	Heracles	260
	Cape Lambert	228		Piraeus	499
	Dampier	279		Skaramanga Bay	269
	Fremantle	269	Ireland	Dublin	273
	Port Hedland	228	Italy	Anzio	239
	Port Walcott	249		Augusta	350
	Wyndham	445		Augusta Bay	255
Canada	Brotchie Ledger	262		Bridisi	239
	Come by Chance	271		Falconare	270
	St. John	318		Genoa	388
Denmark	Shaw	262		Livorno	276
Finland	Skoldvik	262		Mililli	268
France	Antifer	358		Milazzo	255
	Brest	517		Naples	239
	Cherbourg	318		Palermo	254
	Donges	284		Port Torres	254
	Dunkirk	339		Porto Empedocle	239
	Fossurmer	424		Ravenna	239
	France	388		Sarroch	268
	Gravelines	261		Taranto	305
	Le Havre	358		Trieste	255
	Marseilles	273		Venice	239
	Port De Bouc	280	Japan	Aioi	259
	Roven	273		Chiba	407
	Sete	239		Chimuwan	219
	Ushant	274		Fukuyama	287
Greece	Agiori Theodoroi	278		Fushiki	268
	Athens	409		Heianza Island	284

Table 179 (continued)
Offloading Ports Accessible to Fully Loaded Tankers
of 200,000 Deadweight Tons and Larger, January 1988

Port		Largest Loaded Tanker Accommodated (Thousand DWT)	Port		Largest Loaded Tanker Accommodated (Thousand DWT)
OECD			OECD (continued)		
Japan (cont.)	Himeji	268	Netherlands	Dordrecht	279
	Hirohata	261		EEMS Haven	413
	Kashima	306		Europort	424
	Kawasaki	234		Flushing	280
	Kiire	484		Holland	270
	Kisarazu	311		Ouderkerk	424
	Kure	311		Pernis	318
	Mizushima	258		Rotterdam	380
	Moji	235		Ymuiden	275
	Muroran	279	Norway	Aalesund	517
	Nagoya	311	Portugal	Aveiro	239
	Niihama	262		Lisbon	424
	Oita	311		Madeira	311
	Okinawa	275		Setubal	323
	Sakai	241		Sines	323
	Sakaide	239		St. Michaels	275
	Sasebo	272	Spain	Algeciras	517
	Shimotsu	285		Bilbao	363
	Shiogama	237		Cadiz	283
	Tamashima	234		Cartagena	284
	Toba	311		Ceuta	273
	Tobata	235		Corunna	260
	Tokyo	280		Europa Point	280
	Toma Komai	273		La Linea	276
	Toyama	268		Las Palmas	318
	Uruga	306		Malaga	285
	Wakamutsu	311		Santa Cruz De Tene	269
	Yokkaichi	276		Tarragona	284

Table 179 (continued)
Offloading Ports Accessible to Fully Loaded Tankers
of 200,000 Deadweight Tons and Larger, January 1988

OECD			OECD (continued)		
Port		Largest Loaded Tanker Accommodated (Thousand DWT)	Port		Largest Loaded Tanker Accommodated (Thousand DWT)
Spain (cont.)	Tenerife	422	United States (cont.)	Actoria	228
Sweden	Brofjorden	339		Cape Flattery	238
	Rorvik SW	278		Corpus Christi	284
Turkey	Ceyhan Terminal	323		Delaware Bay	306
United Kingdom	Amlwch	325		Freeport US	273
	Angle Bay	284		Galveston	424
	Berry Head	361		Georgetown US	274
	Brixham	350		Hinchinbrook	269
	Burntisland	274		Key West	270
	Coryton	280		Long Beach	269
	Falmouth	274		Long View	238
	Falmouth Bay	413		Loop Terminal	424
	Fawley	338		Los Angeles	274
	Firth of Clyde	249		Miami	275
	Gravesend	272		New Orleans	422
	Hound Point	274		New Port	238
	Immingham	283		Norfolk	357
	Lyme Bay	361		Pascagoula	413
	Milford Haven	285		Philadelphia	268
	Pembroke Dock	273		Point Fermin	262
	Point Lynas	273		Point Judith	229
	Solent Anchorage	338		Port Arthur	274
	Southampton	273		Port Everglades	251
	Southend	277		Portland Or.	228
	Sullum Voc	388		Sabine	273
	Tees River	266		Sabine Pass	285
United States	Anchorage	267		San Francisco	269
	Aransas Pass	273		Seal Beach	224

Table 179 (continued)
Offloading Ports Accessible to Fully Loaded Tankers
of 200,000 Deadweight Tons and Larger, January 1988

Port	Largest Loaded Tanker Accommodated (Thousand DWT)	Port	Largest Loaded Tanker Accommodated (Thousand DWT)
OECD		Other Countries (continued)	
United States (cont.)	Seward 229	Brazil (cont.)	Tubarao 305
	Southwest Pass 362	Brunei	Brunei 380
	Tacoma 238		Seria 219
	Valdez 269	Cape Verde Islands	Porto Grande 422
West Germany	Bremen 239		St. Vincent CV 280
	Hamburg 338	Chile	Huasco 279
	Wilhelmshaven 424		Valparaiso 259
Other Countries		Cyprus	Limassol 229
Algeria	Algiers 269	Egypt	Adabiya 307
	Oran 269		Alexander 229
Bahamas	Freeport BF 517		Ras Gharib 262
	Hole in the Wall 424		Ras Shukhair 237
	South Riding Point 424		Sidikerir 345
Bahrain	Bahrain 445		Sukhna 363
	Mina Sitrah 274	Hong Kong	Hong Kong 380
	Mina Sulman 357	India	Bombay 363
	Sitrah 274		Mormugao 231
	Sitrah Anchorage 211		Vadinar Terminal 269
Barbados	Barbados 280	Indonesia	Pulo Sambu 261
	Bridgetown 261		Blang Lancang 219
Brazil	Amazon 282		Bandar Abbas 392
	Angra Dos Reis 412		Farsi Island 388
	Maceio 279		Hormoz Fatr 322
	Rio de Janeiro 276	Iran	Hormuz Terminal 390
	Salvador 283		Kharg Island 316
	Sas Luiz de Maranh 311		Larak Anchorage 237
	Sao Sebastiao 306		Larak Terminal 565
	Sepetiba Terminal 282		Lavan Island 254

Table 179 (continued)
Offloading Ports Accessible to Fully Loaded Tankers
of 200,000 Deadweight Tons and Larger, January 1988

Port	Largest Loaded Tanker Accommodated (Thousand DWT)	Port	Largest Loaded Tanker Accommodated (Thousand DWT)
Other Countries		Other Countries (continued)	
Iran (cont.)	Sirri Island 239	Nigeria (cont.)	Escravos River 268
Ivory Coast	Abidjan 280		Forcados 283
	Ivory Coast 239		Que Iboe 280
Kenya	Kenya Membasa 225	North Korea	Unggi 241
Kuwait	Kuwait 295	Oman	Al Matrah 323
	Mina Al Ahmadi 424		Khor Fakkan Anchor 323
	Mina Saud 264		Mina Al Faha 517
	Sea Island KU 424		Miina Al Fahal 228
	Shuaiba 295		Muscat 322
Liberia	Monrovia 272		Qaboos 339
Malaysia	Johore River 273		Quoin Island 284
	Labuan 270	Pakistan	Karachi 284
	Pasir Gudang 273		Port Muhammed Bin 254
	Penang 362	Panama	Canal Zone 209
	Telok Ramunia 249		Cape Mala 267
Malta	St. Pauls Bay 318		Puerto Armuelles 267
	Valletta 282	Philippines	Batangas 358
Mauritius	Mauritius 217		Limay 358
Mexico	Cayos Arcas Termin 284		Manila 256
	Coatzacoalcos 272		Tabangas 358
	Dos Bocas 284	Qatar	Doha 228
	Salina Cruz 273		Halul Island 280
Netherlands Antilles	Aruba 268		Umm Said 280
	Bonaire Island 357	Saudi Arabia	Dammam 318
	Bullen Bay 275		Jeddah 409
	Curcao 350		Juaymah Terminal 517
	St. Eustatius 338		Jubail 339
Nigeria	Bonny 355		Ras Al Khafi 325

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of 200,000 Deadweight Tons and Larger, January 1988

Port	Largest Loaded Tanker Accommodated (Thousand DWT)	Port	Largest Loaded Tanker Accommodated (Thousand DWT)
Other Countries		Other Countries (continued)	
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	Ras Tanura Entry 228	Trinidad & Tobago	Pointe A Pierre 275
	Yanbu 424		Port of Spain 275
Senegal	Dakar 361	Tunisia	Bon 323
	Pulo Bukom 345		la Goulette 239
	Singapore 445	Turkey	Ceyhan Terminal 323
Somalia	Mogadisha 262	United Arab Emirates	Abu Al Bukhoosh 273
South Africa	Cape Town 295		Abu Dhabi 316
	Durban 241		Abu Nuair Island 316
	East London 225		Arzanah Island 273
	Richards Bay 361		Das Island 361
	Robben Island 323		Dubai 445
	Saldanha Bay 228		Fatch Terminal 363
	Table Bay 271		Fujairah 565
South Korea	Inchon 261		Hamriyah 274
	Mokpo 275		Hamriyah Terminal 285
	Pohang 234		Jebel Ali 358
	Pusan 258		Jebel Dhanna 361
	Ulsan 407		Khor Al Fakkan 422
	Yosu 261		Mubarras Terminal 241
Sri Lanka	Colombo 372		Ras Al Khaimah 273
	St. Helena Ascension 280		Sharjah 285
St Lucia	Cul-de-Sac 293		Zirku Island 388
	St. Lucia 284	Venezuela	Punta Cardon 240
Surinam	Paramaribo 259		St. Michiel's Bay 282
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	Keelung 277	Yemen	Aden 300

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Declassified and Approved For Release 2012/09/07 : CIA-RDP89T01437R000100140006-0
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Conversion Factors

To Convert From	To	Multiply By	To Convert From	To	Multiply By
Acres	Hectares	0.4046856	Meters, cubic	Tons, register	0.353147
Acres	Kilometers, square	0.004046856	Miles, nautical	Kilometers	1.852
Acres	Meters, square	4046.856	Miles, statute	Centimeters	160934.4
Centimeters	Meters	0.01	Miles, statute	Meters	1609.344
Centimeters, square	Meters, square	0.0001	Miles, statute	Kilometers	1.609344
Degrees, Fahrenheit	Degrees, Celsius	subtract 32 and multiply by 5/9	Miles, square	Hectares	258.9998
Feet	Centimeters	30.48	Miles, square	Kilometers, square	2.589998
Feet	Meters	0.3048	Ounces, avoirdupois	Grams	28.349523
Feet	Kilometers	0.0003048	Ounces, avoirdupois	Kilograms	0.028349523
Feet, cubic	Liters	28.316847	Ounces, troy	Pounds, troy	0.083333
Feet, cubic	Meters, cubic	0.028316847	Ounces, troy	Grams	31.10348
Feet, square	Centimeters, square	929.0304	Pints, liquid	Milliliters	473.176473
Feet, square	Meters, square	0.09290304	Pints, liquid	Liters	0.473176473
Gallons, US liquid	Liters	3.785412	Pounds, avoirdupois	Grams	453.59237
Gallons, US liquid	Meters, cubic	0.003785412	Pounds, avoirdupois	Kilograms	0.45359237
Grams	Ounces, troy	0.032151	Pounds, avoirdupois	Quintals	0.00453592
Grams	Pounds, troy	0.002679	Pounds, avoirdupois	Tons, metric	0.000453592
Hectares	Kilometers, square	0.01	Pounds, troy	Ounces, troy	12
Hectares	Meters, square	10,000	Pounds, troy	Grams	373.241722
Inches	Centimeters	2.54	Quarts, dry	Liters	1.101221
Inches	Meters	0.0254	Quarts, dry	Dekaliters	0.1101221
Inches, cubic	Milliliters	16.387064	Quarts, liquid	Milliliters	946.352946
Inches, cubic	Liters	0.016387064	Quarts, liquid	Liters	0.946352946
Inches, cubic	Meters, cubic	0.000016387064	Quintals	Tons, metric	0.1
Inches, square	Centimeters, square	6.4516	Tons, long	Kilograms	1016.047
Inches, square	Meters, square	0.00064516	Tons, long	Tons, metric	1.016047
Kilograms	Ounces, troy	32.15075	Tons, metric	Quintals	10
Kilograms	Pounds, troy	2.679229	Tons, metric	Ounces, troy	32,150.7
Kilograms	Tons, metric	0.001	Ton-miles, long	Ton-kilometers, metric	1.635169
Kilometers, square	Hectares	100	Ton-miles, short	Ton-kilometers, metric	1.459972
Liters	Milliliters	1000	Tons, register	Meters, cubic	2.831685
Liters	Meters, cubic	0.001	Tons, short	Kilograms	907.185
Meters	Millimeters	1000	Tons, short	Tons, metric	0.907185
Meters	Centimeters	100	Yards	Centimeters	91.44
Meters	Kilometers	0.001	Yards	Meters	0.9144
Meters, cubic	Liters	1000	Yards, cubic	Meters, cubic	0.7645549
			Yards, square	Meters, square	0.836127