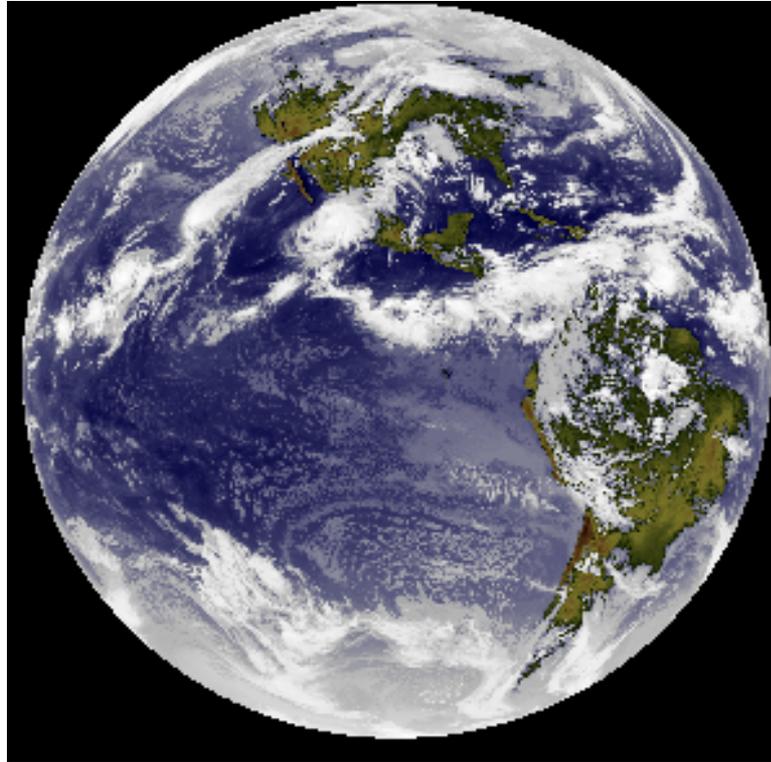


INTERNATIONAL PETROLEUM STATISTICS REPORT

August 1998



**Energy Information Administration
Energy Markets and Contingency Information Division**

Preface

The International Petroleum Statistics Report is a monthly publication that provides current international oil data. This report is published for the use of Members of Congress, Federal agencies, State agencies, industry, and the general public. Publication of this report is in keeping with responsibilities given the Energy Information Administration in Public Law 95-91 (Section 205(a)(2)) that states:

"The Administrator shall be responsible for carrying out a central, comprehensive, and unified energy data and information program which will collect, evaluate, assemble, analyze and disseminate data and information ..."

The International Petroleum Statistics Report presents data on international oil production, demand, imports, and stocks. The report has four sections. Section 1 contains time series data on world oil production, and on oil demand and stocks in the Organization for Economic Cooperation and Development (OECD). This section contains annual data beginning in 1985, and monthly data for the most recent two years. Section 2 presents an oil supply/demand balance for the world. This balance is presented in quarterly intervals for the most recent two years. Section 3 presents data on oil imports by OECD countries. This section contains annual data for the most recent year, quarterly data for the most recent two quarters, and monthly data for the most recent twelve months. Section 4 presents annual time series data on world oil production and oil stocks, demand, and trade in OECD countries. World oil production and OECD demand data are for the years 1970 through 1997; OECD stocks from 1973 through 1997; and OECD trade from 1987 through 1997.

Data for the United States are developed by the Energy Information Administration's (EIA) Office of Oil and Gas. Data for other countries are derived largely from published sources, including International Energy Agency publications, the EIA International Energy Annual, and the trade press. (See sources after each section.) All data are reviewed by the International Energy Statistics Team of EIA. All data have been converted to units of measurement familiar to the American public. Definitions of oil production and consumption are consistent with other EIA publications.

General information about this publication may be obtained from W. Calvin Kilgore, Director, Office of Energy Markets and End Use, (202) 586-1617, and from Louis D. DeMouy, Director, Integrated Energy Statistics Division, (202) 586-6557. Detailed questions and comments concerning the contents of the International Petroleum Statistics Report may be directed to Michael J. Grillot, Team Leader, International Energy Statistics Team, (202) 586-6577, Patricia A. Smith (202) 586-6925, or H. Vicky McLaine (202) 586-9412; Oil Market Chronology - Douglas MacIntyre (202) 586-1831.

Oil Market Chronology -- July 1998

The following chronology lists international events of potential significance for world petroleum markets. Sources include: Dow Jones (DJ), Los Angeles Times (LAT), The New York Times (NYT), The Washington Post (WP), and The Wall Street Journal (WSJ).

- July 2** Iran's National Iranian Oil Company (NIOC) announces that it is seeking foreign investors for a number of onshore and offshore development projects. The onshore projects include the Ceshmeh Khosh gas injection project and the Darquain, Masjed-e-Suleyman, Agha Jari, and the Central Zagrog oil fields, all of which would be offered on a buyback basis. Offshore development projects include the Nowrooz, Foroozan, Salaman, Sirri C and D blocks, Hendajan, Soroosh, South Pars oil fields, and a pilot development at Esfandiar. NIOC says that foreign investments may help Iran increase its offshore oil production capacity by 276,000 barrels per day by 2000 from a current rate of approximately 500,000 barrels per day. (DJ)
- Amoco Kazakhstan and Turkish Petroleum Overseas form an equally-held joint venture, Tepco LLC, to explore for and produce oil and natural gas onshore in western Kazakhstan. Under the terms of the production sharing agreement, Tepco will commence immediate exploration of Central Territory Block B. Turkish Petroleum is a unit of Turk Petrolleri Anonim Ortakligi, Turkey's state oil company. (DJ)
- July 3** The Royal Dutch/Shell Group (Royal Dutch) announces that it has withdrawn from a joint bid for Rosneft, Russia's only remaining state-owned oil company. Royal Dutch says that low oil prices, which would limit returns from the project, and financial turmoil in Russia contributed to its decision to pull out of the bid. Royal Dutch's Russian partners in the bid are Lukoil and Gazprom. (NYT)
- July 5** Iraq and Jordan sign an agreement for the construction of an oil pipeline between the two countries. The pipeline is expected to replace a fleet of more than 3,000 tankers that currently transport Iraqi crude oil to Jordan. Jordan depends entirely on Iraq for oil and currently incurs \$50 million per year in transportation fees. (DJ)
- July 6** Russia and Kazakhstan sign an agreement that divides the northern part of the Caspian Sea seabed into separate Russian and Kazakh sectors, recognizing Kazakhstan's claim to the oil near its coastline. The agreement also provides both nations with equal access to the Caspian's fishing grounds. The five nations that surround the Caspian Sea - Russia, Kazakhstan, Azerbaijan, Turkmenistan, and Iran - have argued for years over who owns the oil in the Caspian seabed. Previously, Kazakhstan, Azerbaijan, and Turkmenistan, the three nations with oil near their coastlines, had called for dividing the Caspian into national sectors, while Russia and Iran, which have little or no oil near their coasts, had advocated sharing the Caspian's resources. Although Azerbaijan, Turkmenistan, and Iran are not part of the settlement, it may set a precedent for future agreements among the Caspian nations. (NYT) (WP) (DJ)
- July 7** Following the Royal Dutch/Shell Group's action on July 3, 1998, British Petroleum (BP) becomes the second major oil company to withdraw from a possible bid for Rosneft, Russia's last state-owned oil company. BP intended to bid with its Russian partner Omeximbank, which controls Russian oil company Sidanco. The Russian government is now once again considering postponing the privatization of Rosneft until the end of 1998. The sale of Rosneft originally was scheduled for May 1998. (WSJ)
- July 8** Following a small fire, Chevron shuts a 170,000-barrel-per-day crude unit at its El Segundo, California refinery. A date for restarting the unit is currently unknown. The El Segundo refinery has a total crude oil capacity rating of 258,000 barrels per day. (DJ)
- July 9** For the second time in two months, the Russian government postpones the sale of state oil company, Rosneft. The announcement comes just days after British Petroleum and the Royal Dutch/Shell Group withdrew from their respective bidding partnerships. Russian officials now say that the sale will take place in September or October 1998. (NYT)

July 9 Mobil of Venezuela announces that Venezuelan engineering company Vepica and Jantesa and Japan's JGC have won a \$500 million contract to develop a crude oil upgrading unit for the Cerro Negro heavy crude project located in the Orinoco Belt. Mobil is the operator of the project. The upgrading unit will transform extra-heavy 8.5° API crude into lighter 16° API crude. The unit is expected to be completed in 2001, at which time the crude output of the Cerro Negro project will double to 120,000 barrels per day from an initial level of 60,000 barrels per day in 1999. (DJ)

In its June 1998 monthly oil market report, the International Energy Agency (IEA) projects that world oil demand in 1998 will be 1.1 million barrels per day higher than in 1997. This is about half the incremental demand in 1997, which was 2.1 million barrels per day. In addition, IEA reports that June 1998 Organization of Petroleum Exporting Countries (OPEC) crude production fell 330,000 barrels per day to 27.95 million barrels per day from 28.28 million barrels per day in May 1998. When compared to February 1998, OPEC production from non-Iraqi sources has been cut by 970,000 barrels per day, which is approximately 80 percent of the 1.245 million-barrel-per-day target agreed to by OPEC in March. A *Dow Jones* survey of industry observers reports similar findings. The survey finds that OPEC production totaled 27.853 million barrels per day in June 1998, a decrease of 314,000 barrels per day from May 1998 output. (DJ)

July 10 Monument Oil and Gas signs a production-sharing agreement with Turkmenneft, Turkmenistan's state oil company, and Mobil Exploration & Production Turkmenistan for the Garashsyzyk concession area, located in western Turkmenistan. The agreement covers development and production of oil and natural gas over a 1,700 square mile area. Mobil holds a 52.4 percent share in the deal, while Monument holds a 27.6 percent share and Turkmenneft 20 percent. (DJ)

July 13 South Korea's Samsung agrees to build a \$240 million oil refinery for Ghana's state-owned Tema Oil Refinery. Construction of a residual fluid catalytic cracking unit will begin later this year and is expected to be complete in 2001. The unit will refine about 93,000 barrels per day of residual fuel oil, producing various types of oil products such as gasoline and liquefied petroleum gas. (DJ)

July 14 Sonangol, Angola's state oil company, and Essor Exploration Angola, a subsidiary of Exxon, discover a new offshore oil field located about 224 miles northwest of Luanda, Angola. The field is called Hungo One and has an estimated production capacity of 16,000 barrels per day. It is the third discovery in Block 15 in recent months. Essor holds a 40 percent stake in Block 15, with BP Exploration Angola holding 26.67 percent, Italy's Agip Angola 20 percent, and Norway's Den Norske Stats Oljeselskap 13.33 percent. (DJ)

July 15 Iraq and Syria sign an agreement to build a second oil pipeline between the two countries. No information is available on the new line's capacity or the route it will take; however, U.S. State Department spokesman James P. Rubin states that implementation of the agreement would be a violation of United Nations sanctions against Iraq. Two days earlier, Syria agreed to reopen an existing oil pipeline, linking Iraq's Kirkuk oil fields to the Mediterranean terminals of Banias in Syria and Tripoli in Lebanon. Syria closed the line in 1982 in support of Iran during the Iran/Iraq war. The pipeline has an estimated capacity of 650,000 barrels per day and is expected to be operational within a few months. However, use of the pipeline will require United Nations approval. (DJ)

Australia's Boral Ltd. confirms that its Bass Strait drilling program yielded estimated reserves of between 450 billion and 600 billion cubic feet of natural gas in the Yolla Field. Partners in the Yolla Field include Boral with a 30.5 percent interest, Premier Petroleum with 30.5 percent, Cue Energy Resources with 14 percent, CalEnergy Gas with 20 percent, and Santos with 5 percent. (DJ)

July 16 The U.S. blocks the proposed August price formula for Iraqi crude oil over concerns that the Kirkuk grade is priced too low for the European market. It is the first time Iraq's crude oil price formula has been questioned since the United Nations' oil-for-food program began in 1996. (DJ)

July 17 Mobil Oil and the Royal Dutch/Shell Group announce that they are pulling out of the \$3 billion Camisea natural gas project in Peru. The companies indicate that demands from the Peruvian government for local gas supplies at reduced rates made the project unprofitable. Camisea holds an estimated 11 trillion cubic feet of natural gas, and the development project was considered to be a key to Peru's economic development. (WSJ) (WP)

July 20 Abida tribesmen blow up part of Yemen's Marib-Ras Issa oil pipeline in protest of government price hikes on gasoline, kerosene, and cooking gas. This marks the eighth attack on Yemeni oil and gas pipelines since June 19, 1998. The 272-mile pipeline carries 220,000 barrels per day of oil and runs from Marib to the Red Sea province of al-Hudaydah, 140 miles west of Yemen's capital Sanaa. (DJ)

July 21 British Petroleum, Amoco, and Ramco Energy sign contracts to develop Azerbaijan's Caspian Sea oil resources. In three separate contracts, the companies have pledged to invest as much as \$13 billion over the next 15 years. The Caspian Sea region is said to contain approximately 30 billion barrels of oil reserves, comparable to the North Sea region. (NYT)

Oil analysts calculate that oil export revenues of the Organization of Petroleum Exporting Countries (OPEC) have fallen by a third in 1998 due to the decline in oil prices. According to Petrostrategies of Paris, OPEC's collective export revenues have fallen from \$89.6 billion in the first six months of 1997 to \$60.7 billion in the first six months of 1998. Analysts predict that for all of 1998, OPEC oil export revenues will fall 30 percent from a 1997 total of \$121.5 billion. Export revenues have declined for almost all OPEC members, with the exception of Iraq, whose revenue has increased 20 percent in the first six months of 1998 under the United Nations' oil-for-food program. (NYT)

July 22 Unocal agrees to pay fines of \$43.8 million to California for contaminating the state's Central Coast with millions of gallons of petroleum over four decades. Unocal allowed a refined oil product, called diluent, to gradually leak from an underground pipeline at its Guadalupe Oil Field in San Luis Obispo County. As part of the settlement, \$9 million will be used to restore natural resources, \$15 million will fund water quality improvement projects, and \$11.1 million will create emergency response programs for future oil spills and other pollution incidents on the Central Coast. (LAT)

In response to poor market conditions, Singapore Refining Company (SRC) cuts crude oil throughput by 45,600 barrels per day, or 16 percent, at its 285,000-barrel-per-day refinery. SRC will continue to run the refinery at this lower throughput level until mid-August 1998, when the company will decide on an optimal operating level. SRC is a joint venture made up of Singapore Petroleum, British Petroleum, and Caltex Petroleum. (DJ)

July 23 In response to U.S. opposition to the August pricing plan for Iraqi crude oil, Iraq offers the United Nations a revised pricing mechanism for Iraq's August oil exports. The revised pricing formula adjusts the price of Kirkuk and Basrah Light for the European, U.S. and Asian markets. The U.S. had been concerned that, under the original pricing plan, prices for crude oil headed for European markets were too low. (DJ)

July 27 Russia announces plans to sell a five percent stake in RAO Gazprom, the country's largest company and the world's largest natural gas company, with the Russian government retaining a 35 percent stake in the company. The five percent stake is valued at \$500 million, although the government may get more if the shares are sold to foreign investors. The Royal Dutch/Shell Group and Italy's ENI SpA are considered to be probable contenders for the shares. Gazprom holds nearly 40 percent of the world's proven natural gas reserves. (WSJ)

Nigeria's leader General Abdulsalam Abubakar cancels oil concessions granted to Nigerian companies at the time of previous leader General Sani Abacha's death on June 8, 1998. General Abubakar also reportedly is no longer awarding new oil concessions or prospecting leases. Companies that are affected by the decision include Malabor Petroleum, DICS Petroleum, Feuimarc Petroleum, and Continental Petroleum. (DJ)

July 29 British Petroleum (BP) begins oil production at its Schiehallion field at an initial rate of 30,000 barrels per day. The field is located offshore northern Scotland. The development is expected to produce 340 million barrels from the main field and an additional 85 million barrels from the nearby Loyal reservoir. Peak production is expected to reach 154,000 barrels per day. BP is the operator of the field and holds a 33.35 percent stake. BP's partners include Royal Dutch/Shell Group (33.35 percent), Amerada Hess (15.66 percent) and Murphy Oil (5.88 percent) of the U.S., Norway's Statoil (5.88 percent), and Australia's OMV (5.88 percent). (DJ)

July 29 Anadarko Petroleum announces that it has discovered oil and natural gas at the Eugene Island South Addition Block 346 in the Gulf of Mexico, located approximately 75 miles offshore Louisiana. Anadarko estimates that the Tanzanite field contains reserves of at least 140 million barrels of oil equivalent. (DJ)

The Indonesian government postpones exploration of the giant Natuna natural gas field due to the economic crisis in Thailand and the oversupply of liquefied natural gas in the world market. Thailand was expected to be the main buyer of Natuna gas. Production from the field was expected to begin between 2003 and 2007, but Indonesia government now says exploration may not restart until 2007. The Natuna field is located in the Natuna Sea about 700 miles north of Jakarta. (DJ)

July 31 The U.S. Senate confirms the nomination of Bill Richardson as Secretary of Energy. Richardson replaces Federico Peña, who resigned in June 1998. (DJ)

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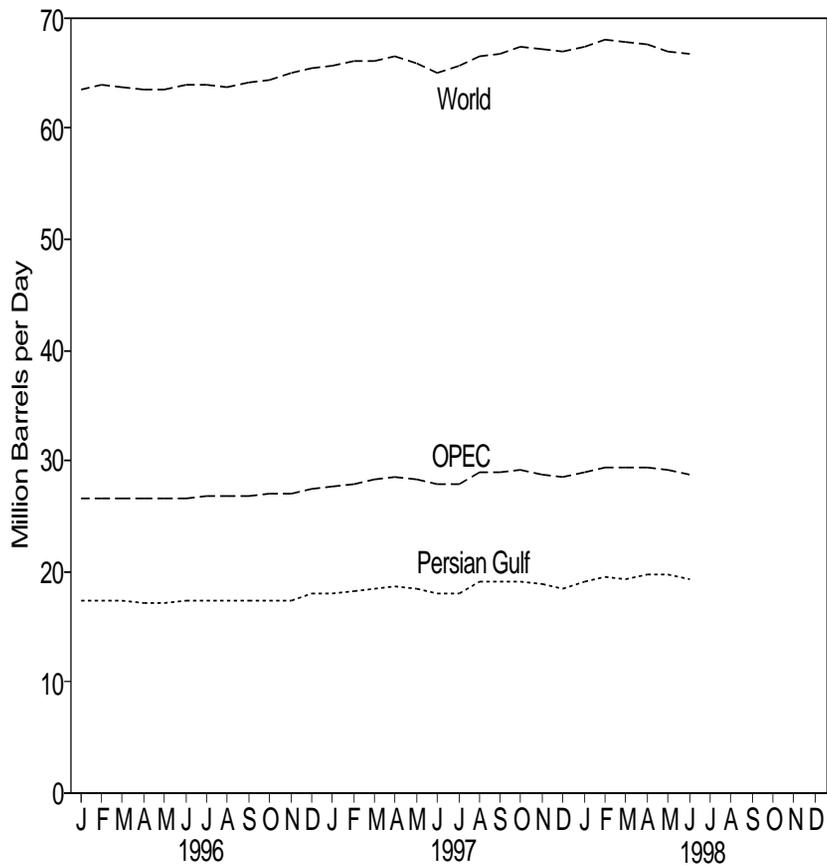
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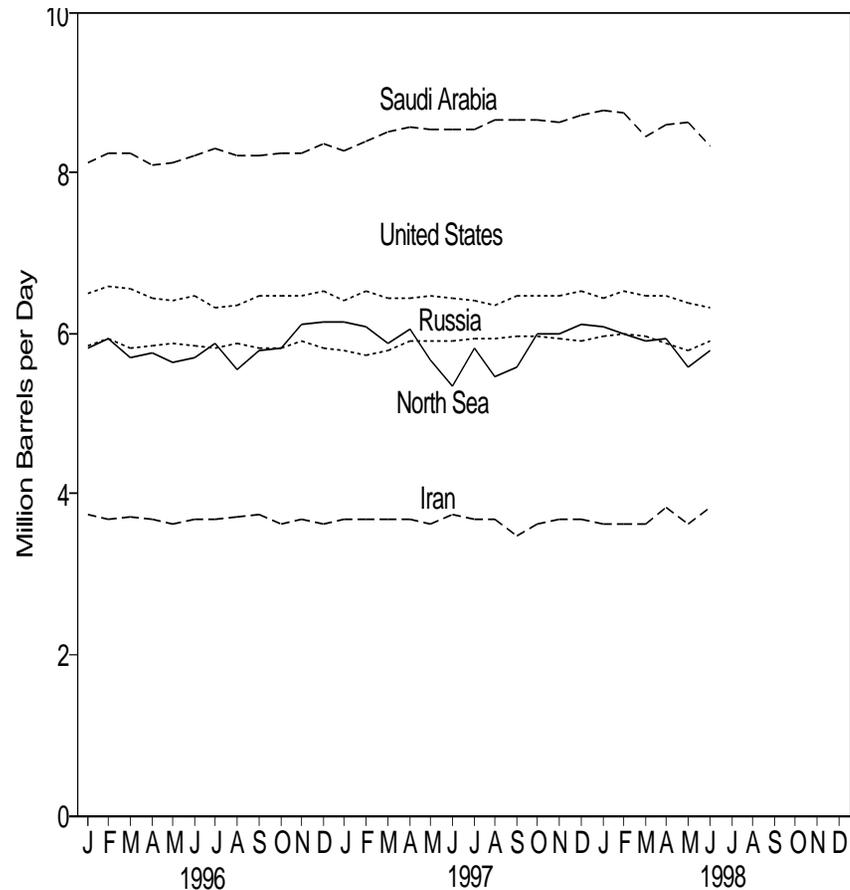
1. Annual and Monthly Oil Data

Figure 1. World Crude Oil Production, Monthly



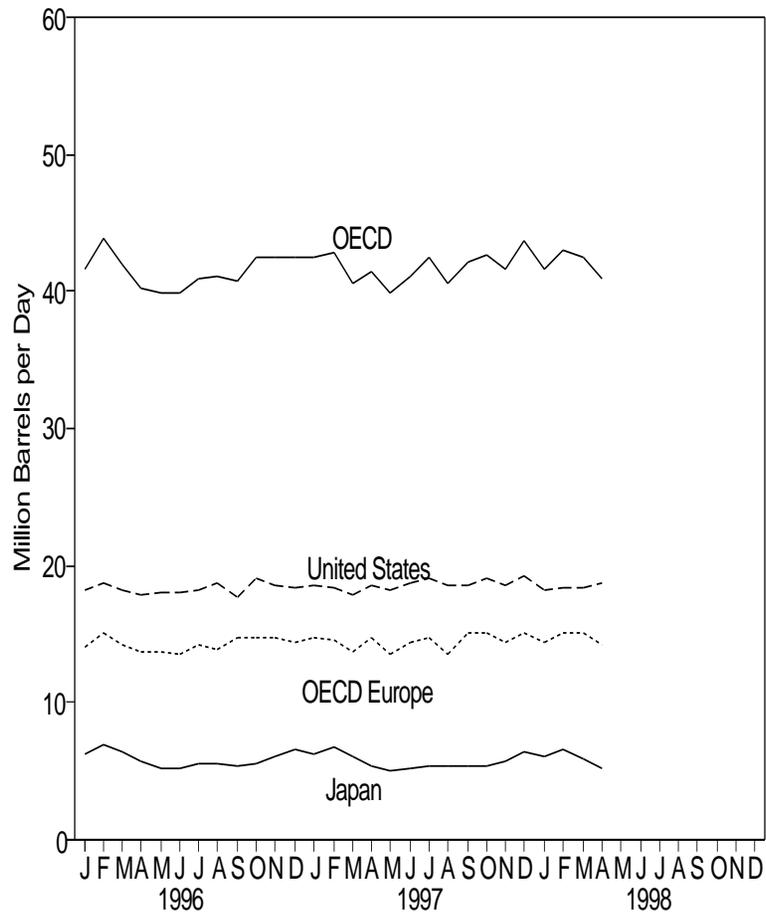
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Figure 2. Leading Crude Oil Producers, Monthly



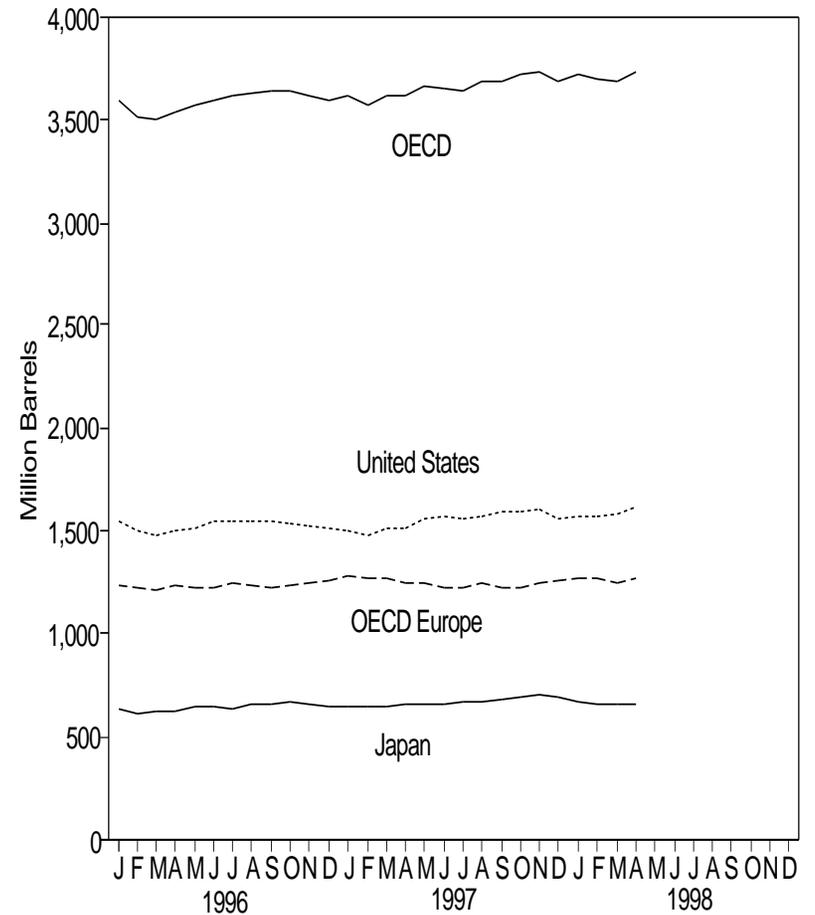
Source: Tables 1.1a-1.1c

Figure 3. OECD Oil Consumption, Monthly



Source: Table 1.7

Figure 4. OECD Oil Stocks, Monthly



Source: Table 1.5

Table 1.1a World Crude Oil Production (Including Lease Condensate), 1985-Present
(Thousand Barrels per Day)

| | Algeria | Indo- nesia | Iran | Iraq | Kuwait ^{1/} | Libya | Nigeria | Qatar | Saudi Arabia ^{1/} | United Arab Emirates | Vene- zuela | Total OPEC |
|-------------------|---------|----------------|-------|-------|----------------------|-------|---------|-------|-------------------------------|----------------------------|----------------|---------------|
| 1985 Average..... | 1,037 | 1,325 | 2,250 | 1,433 | 1,023 | 1,059 | 1,495 | 301 | 3,388 | 1,193 | 1,677 | 16,181 |
| 1986 Average..... | 945 | 1,390 | 2,035 | 1,690 | 1,419 | 1,034 | 1,467 | 308 | 4,870 | 1,330 | 1,787 | 18,275 |
| 1987 Average..... | 1,048 | 1,343 | 2,298 | 2,079 | 1,585 | 972 | 1,341 | 293 | 4,265 | 1,541 | 1,752 | 18,517 |
| 1988 Average..... | 1,040 | 1,342 | 2,240 | 2,685 | 1,492 | 1,175 | 1,450 | 346 | 5,086 | 1,565 | 1,903 | 20,324 |
| 1989 Average..... | 1,095 | 1,409 | 2,810 | 2,897 | 1,783 | 1,150 | 1,716 | 380 | 5,064 | 1,860 | 1,907 | 22,071 |
| 1990 Average..... | 1,175 | 1,462 | 3,088 | 2,040 | 1,175 | 1,375 | 1,810 | 406 | 6,410 | 2,117 | 2,137 | 23,195 |
| 1991 Average..... | 1,230 | 1,592 | 3,312 | 305 | 190 | 1,483 | 1,892 | 395 | 8,115 | 2,386 | 2,375 | 23,275 |
| 1992 Average..... | 1,214 | 1,504 | 3,429 | 425 | 1,058 | 1,433 | 1,943 | 423 | 8,332 | 2,266 | 2,371 | 24,398 |
| 1993 Average..... | 1,162 | 1,511 | 3,540 | 512 | 1,852 | 1,361 | 1,960 | 413 | 8,198 | 2,159 | 2,450 | 25,119 |
| 1994 Average..... | 1,180 | 1,510 | 3,618 | 553 | 2,025 | 1,378 | 1,931 | 415 | 8,120 | 2,193 | 2,588 | 25,510 |
| 1995 Average..... | 1,202 | 1,503 | 3,643 | 560 | 2,057 | 1,390 | 1,993 | 442 | 8,231 | 2,233 | 2,750 | 26,004 |
| 1996 Average..... | 1,242 | 1,547 | 3,686 | 579 | 2,062 | 1,401 | 2,188 | 510 | 8,218 | 2,278 | 3,053 | 26,764 |
| 1997 January..... | 1,260 | 1,570 | 3,685 | 1,085 | 2,085 | 1,430 | 2,280 | 585 | 8,265 | 2,300 | 3,190 | 27,735 |
| February..... | 1,270 | 1,590 | 3,685 | 1,125 | 2,077 | 1,430 | 2,310 | 585 | 8,408 | 2,330 | 3,190 | 28,000 |
| March..... | 1,280 | 1,600 | 3,685 | 1,175 | 2,105 | 1,440 | 2,240 | 585 | 8,515 | 2,360 | 3,200 | 28,185 |
| April..... | 1,280 | 1,560 | 3,685 | 1,275 | 2,107 | 1,450 | 2,310 | 585 | 8,568 | 2,360 | 3,220 | 28,400 |
| May..... | 1,280 | 1,580 | 3,635 | 1,325 | 2,027 | 1,450 | 2,270 | 605 | 8,548 | 2,210 | 3,240 | 28,170 |
| June..... | 1,260 | 1,530 | 3,735 | 605 | 2,050 | 1,450 | 2,340 | 690 | 8,540 | 2,325 | 3,260 | 27,785 |
| July..... | 1,280 | 1,530 | 3,685 | 605 | 2,070 | 1,450 | 2,330 | 685 | 8,560 | 2,325 | 3,270 | 27,790 |
| August..... | 1,280 | 1,530 | 3,685 | 1,515 | 2,070 | 1,450 | 2,350 | 685 | 8,660 | 2,325 | 3,390 | 28,940 |
| September..... | 1,280 | 1,490 | 3,485 | 1,735 | 2,075 | 1,450 | 2,300 | 685 | 8,665 | 2,325 | 3,430 | 28,920 |
| October..... | 1,280 | 1,490 | 3,635 | 1,625 | 2,075 | 1,450 | 2,400 | 685 | 8,665 | 2,325 | 3,430 | 29,060 |
| November..... | 1,280 | 1,540 | 3,685 | 1,390 | 2,075 | 1,450 | 2,360 | 705 | 8,615 | 2,305 | 3,460 | 28,865 |
| December..... | 1,290 | 1,540 | 3,685 | 781 | 2,175 | 1,450 | 2,320 | 705 | 8,725 | 2,310 | 3,490 | 28,471 |
| 1997 Average..... | 1,277 | 1,546 | 3,664 | 1,187 | 2,083 | 1,446 | 2,317 | 649 | 8,562 | 2,316 | 3,315 | 28,362 |
| 1998 January..... | 1,290 | 1,520 | 3,635 | 1,261 | 2,215 | 1,450 | 2,208 | 715 | 8,765 | 2,435 | 3,440 | 28,934 |
| February..... | 1,290 | 1,520 | 3,635 | 1,703 | 2,210 | 1,450 | 2,253 | 735 | 8,760 | 2,435 | 3,410 | 29,401 |
| March..... | 1,290 | 1,520 | 3,635 | 1,825 | 2,210 | 1,450 | 2,370 | 735 | 8,460 | 2,480 | 3,410 | 29,385 |
| April..... | 1,270 | 1,520 | 3,835 | 1,985 | 2,115 | 1,400 | 2,228 | 705 | 8,585 | 2,420 | 3,240 | 29,303 |
| May..... | 1,250 | 1,520 | 3,635 | 2,245 | 2,105 | 1,360 | 2,220 | 705 | 8,625 | 2,330 | 3,240 | 29,235 |
| June..... | 1,240 | 1,490 | 3,835 | 1,920 | 2,105 | 1,360 | 2,200 | 705 | 8,325 | 2,300 | 3,210 | 28,690 |
| 1998 Average..... | 1,272 | 1,515 | 3,701 | 1,824 | 2,160 | 1,411 | 2,247 | 716 | 8,585 | 2,400 | 3,325 | 29,156 |

^{1/} Includes about one-half of the production in the Kuwait-Saudi Arabia Neutral Zone from 1980 through July 1990 and beginning in June 1991. Kuwaiti Neutral Zone output was discontinued following Iraq's invasion of Kuwait on August 2, 1990, but was resumed in June 1991. From August 1990 through May 1991, all production in the Neutral Zone was included in the data for Saudi Arabia. In June 1998, Neutral Zone production by both Kuwait and Saudi Arabia totaled about 550 thousand barrels per day.

Notes: •OPEC=Organization of Petroleum Exporting Countries. •Monthly data are often preliminary and also may not average to the annual totals due to rounding.

Sources: See end of Section 1.

Table 1.1b World Crude Oil Production (Including Lease Condensate), 1985-Present
(Thousand Barrels per Day)

| | Norway | United Kingdom | North Sea _{1/} | Angola | Argentina | Australia | Brazil | Canada | China | Colombia | Ecuador |
|-------------------|--------|----------------|-------------------------|--------|-----------|-----------|--------|--------|-------|----------|---------|
| 1985 Average..... | 788 | 2,530 | 3,417 | 231 | 460 | 575 | 564 | 1,471 | 2,505 | 176 | 281 |
| 1986 Average..... | 870 | 2,539 | 3,547 | 282 | 434 | 520 | 572 | 1,474 | 2,620 | 305 | 293 |
| 1987 Average..... | 1,022 | 2,406 | 3,584 | 360 | 428 | 547 | 566 | 1,535 | 2,690 | 385 | 174 |
| 1988 Average..... | 1,158 | 2,232 | 3,540 | 452 | 449 | 538 | 554 | 1,616 | 2,730 | 378 | 302 |
| 1989 Average..... | 1,554 | 1,802 | 3,515 | 455 | 460 | 490 | 596 | 1,560 | 2,757 | 403 | 279 |
| 1990 Average..... | 1,704 | 1,820 | 3,667 | 475 | 483 | 575 | 631 | 1,553 | 2,774 | 440 | 285 |
| 1991 Average..... | 1,890 | 1,797 | 3,811 | 500 | 485 | 545 | 630 | 1,548 | 2,835 | 419 | 299 |
| 1992 Average..... | 2,229 | 1,825 | 4,182 | 526 | 553 | 535 | 626 | 1,605 | 2,845 | 433 | 321 |
| 1993 Average..... | 2,350 | 1,915 | 4,403 | 509 | 594 | 503 | 643 | 1,679 | 2,890 | 456 | 344 |
| 1994 Average..... | 2,521 | 2,375 | 5,058 | 536 | 650 | 536 | 671 | 1,746 | 2,939 | 450 | 365 |
| 1995 Average..... | 2,768 | 2,489 | 5,400 | 646 | 715 | 562 | 695 | 1,805 | 2,990 | 585 | 392 |
| 1996 Average..... | 3,104 | 2,568 | 5,822 | 709 | 756 | 570 | 795 | 1,837 | 3,131 | 623 | 396 |
| 1997 January..... | 3,268 | 2,693 | 6,126 | 700 | 820 | 565 | 840 | 1,874 | 3,210 | 650 | 385 |
| February..... | 3,263 | 2,660 | 6,074 | 715 | 820 | 561 | 830 | 1,920 | 3,240 | 640 | 385 |
| March..... | 3,063 | 2,638 | 5,863 | 720 | 830 | 594 | 830 | 1,900 | 3,215 | 620 | 380 |
| April..... | 3,388 | 2,515 | 6,063 | 720 | 840 | 594 | 830 | 1,823 | 3,230 | 650 | 390 |
| May..... | 3,194 | 2,315 | 5,677 | 720 | 840 | 576 | 830 | 1,737 | 3,275 | 650 | 380 |
| June..... | 3,025 | 2,135 | 5,339 | 710 | 815 | 574 | 830 | 1,835 | 3,220 | 640 | 360 |
| July..... | 3,194 | 2,447 | 5,820 | 715 | 820 | 584 | 860 | 1,889 | 3,190 | 605 | 360 |
| August..... | 2,890 | 2,407 | 5,462 | 720 | 840 | 605 | 845 | 1,895 | 3,190 | 635 | 370 |
| September..... | 2,927 | 2,483 | 5,589 | 717 | 845 | 626 | 830 | 1,930 | 3,195 | 660 | 390 |
| October..... | 3,209 | 2,610 | 6,000 | 725 | 850 | 616 | 740 | 1,956 | 3,195 | 715 | 385 |
| November..... | 3,192 | 2,602 | 5,992 | 725 | 850 | 565 | 810 | 1,970 | 3,158 | 745 | 395 |
| December..... | 3,229 | 2,700 | 6,116 | 750 | 845 | 590 | 920 | 1,985 | 3,090 | 730 | 390 |
| 1997 Average..... | 3,153 | 2,517 | 5,843 | 720 | 835 | 588 | 833 | 1,893 | 3,200 | 662 | 381 |
| 1998 January..... | 3,293 | 2,597 | 6,082 | 735 | 840 | 528 | 886 | 1,912 | 3,240 | 715 | 390 |
| February..... | 3,230 | 2,583 | 5,989 | 730 | 840 | 550 | 920 | 1,944 | 3,155 | 710 | 380 |
| March..... | 3,123 | 2,600 | 5,908 | 730 | 840 | 560 | 920 | 1,952 | 3,170 | 725 | 380 |
| April..... | 3,160 | 2,602 | 5,928 | 710 | 840 | 604 | 930 | 1,988 | 3,140 | 725 | 380 |
| May..... | 2,917 | 2,499 | 5,589 | 710 | R855 | 600 | 930 | R1,943 | 3,210 | R735 | 380 |
| June..... | 3,140 | 2,495 | 5,797 | 710 | 855 | 624 | 930 | 1,932 | 3,260 | 735 | 380 |
| 1998 Average..... | 3,142 | 2,562 | 5,881 | 721 | 845 | 578 | 919 | 1,945 | 3,196 | 724 | 382 |

_{1/} North Sea includes the United Kingdom Offshore, Norway, Denmark, Netherlands Offshore, and Germany Offshore.

R=Revised data.

Notes: •Monthly data are often preliminary and also may not average to the annual totals due to rounding. See Section 4 for historical series.

Sources: See end of Section 1.

Table 1.1c World Crude Oil Production (Including Lease Condensate), 1985-Present
(Thousand Barrels per Day)

| | Egypt | Gabon | India | Malaysia | Mexico | Oman | Russia | Former U.S.S.R. | Syria | United States | Other _{1/} | World |
|-------------------|-------|-------|-------|----------|--------|------|--------|--------------------|-------|------------------|---------------------|---------|
| 1985 Average..... | 887 | 172 | 620 | 440 | 2,745 | 498 | -- | 11,585 | 178 | 8,971 | 2,124 | 53,982 |
| 1986 Average..... | 813 | 166 | 630 | 504 | 2,435 | 560 | -- | 11,895 | 194 | 8,680 | 2,166 | 56,227 |
| 1987 Average..... | 896 | 155 | 609 | 497 | 2,548 | 582 | -- | 12,050 | 230 | 8,349 | 2,120 | 56,666 |
| 1988 Average..... | 848 | 159 | 635 | 540 | 2,512 | 617 | -- | 12,053 | 265 | 8,140 | 2,235 | 58,737 |
| 1989 Average..... | 865 | 208 | 700 | 585 | 2,520 | 641 | -- | 11,715 | 340 | 7,613 | 2,249 | 59,863 |
| 1990 Average..... | 873 | 270 | 660 | 619 | 2,553 | 685 | -- | 10,975 | 388 | 7,355 | 2,253 | 60,566 |
| 1991 Average..... | 874 | 294 | 615 | 646 | 2,680 | 700 | -- | 9,992 | 492 | 7,417 | 2,274 | 60,207 |
| 1992 Average..... | 881 | 298 | 561 | 653 | 2,669 | 740 | 7,632 | -- | 481 | 7,171 | 3,228 | 60,212 |
| 1993 Average..... | 890 | 313 | 534 | 640 | 2,673 | 776 | 6,730 | -- | 554 | 6,847 | 3,280 | 60,238 |
| 1994 Average..... | 896 | 329 | 590 | 645 | 2,685 | 810 | 6,135 | -- | 560 | 6,662 | 3,382 | 60,992 |
| 1995 Average..... | 920 | 365 | 703 | 682 | 2,618 | 851 | 5,995 | -- | 575 | 6,560 | 3,410 | 62,331 |
| 1996 Average..... | 922 | 368 | 651 | 695 | 2,855 | 883 | 5,850 | -- | 604 | 6,465 | 3,509 | 64,054 |
| 1997 January..... | 885 | 370 | 650 | 730 | 2,940 | 890 | 5,789 | -- | 565 | 6,402 | 3,715 | 65,676 |
| February.... | 885 | 370 | 650 | 730 | 2,970 | 900 | 5,729 | -- | 565 | 6,514 | 3,694 | 66,041 |
| March..... | 890 | 370 | 660 | 730 | 2,970 | 900 | 5,772 | -- | 565 | 6,452 | 3,734 | 66,018 |
| April..... | 890 | 370 | 685 | 750 | 2,945 | 900 | 5,893 | -- | 560 | 6,441 | 3,756 | 66,571 |
| May..... | 880 | 370 | 685 | 750 | 2,990 | 890 | 5,902 | -- | 560 | 6,474 | 3,720 | 65,908 |
| June..... | 870 | 370 | 685 | 740 | 3,005 | 900 | 5,902 | -- | 560 | 6,442 | 3,725 | 65,128 |
| July..... | 880 | 370 | 685 | 740 | 3,035 | 840 | 5,923 | -- | 560 | 6,409 | 3,679 | 65,576 |
| August..... | 870 | 370 | 685 | 740 | 3,080 | 870 | 5,945 | -- | 560 | 6,347 | 3,669 | 66,474 |
| September... | 860 | 360 | 675 | 760 | 3,105 | 870 | 5,958 | -- | 560 | 6,486 | 3,670 | 66,827 |
| October..... | 860 | 370 | 678 | 760 | 3,087 | 880 | 5,954 | -- | 560 | 6,467 | 3,684 | 67,361 |
| November.... | 860 | 370 | 681 | 760 | 3,085 | 890 | 5,945 | -- | 560 | 6,459 | 3,720 | 67,207 |
| December.... | 860 | 360 | 675 | 760 | 3,056 | 910 | 5,893 | -- | 560 | 6,531 | 3,702 | 67,007 |
| 1997 Average..... | 874 | 368 | 675 | 746 | 3,023 | 887 | 5,884 | -- | 561 | 6,452 | 3,706 | 66,317 |
| 1998 January..... | 860 | 360 | 680 | 740 | 3,085 | 920 | R5,979 | -- | 550 | E6,438 | R3,731 | R67,414 |
| February.... | 860 | 370 | 685 | 730 | 3,140 | 920 | R5,997 | -- | 550 | E6,538 | R3,713 | R67,945 |
| March..... | 860 | 370 | 685 | 740 | 3,160 | 930 | R5,962 | -- | 550 | E6,465 | R3,712 | R67,819 |
| April..... | 860 | 370 | 635 | 740 | 3,140 | 920 | R5,876 | -- | 550 | E6,484 | R3,673 | R67,630 |
| May..... | R870 | 370 | R670 | R750 | 3,149 | 910 | R5,789 | -- | 550 | RE6,384 | R3,628 | R67,084 |
| June..... | 870 | 370 | 685 | 750 | 3,050 | 900 | 5,919 | -- | 550 | E6,335 | 3,659 | 66,839 |
| 1998 Average..... | 863 | 368 | 673 | 742 | 3,121 | 917 | 5,919 | -- | 550 | PE6,439 | 3,686 | 67,449 |

_{1/} Other is a calculated total derived from the difference between "World" and the sum of production in "Total OPEC" (Table 1.1a) and all other countries listed (Tables 1.1b and 1.1c). The total "North Sea" is not subtracted from the world total, though Norway and the United Kingdom have been subtracted.

-- = Not applicable. R=Revised data. E=Estimated. PE=Preliminary estimate. RE=Revised estimate.

Notes: *Monthly data are often preliminary and also may not average to the annual totals due to rounding. See Section 4 for historical series.

Sources: See end of Section 1.

Table 1.2 OPEC Crude Oil Production (Excluding Condensate), 1985-Present
(Thousand Barrels per Day)

| | Algeria | Indo- nesia | Iran | Iraq | Kuwait ^{1/} | Libya | Nigeria | Qatar | Saudi Arabia ^{1/} | United Arab Emirates | Vene- zuela | Total OPEC |
|-----------------|---------|----------------|-------|-------|----------------------|-------|---------|-------|-------------------------------|----------------------------|----------------|---------------|
| 1985 Average... | 702 | 1,181 | 2,250 | 1,433 | 1,023 | 1,059 | 1,475 | 301 | 3,388 | 1,133 | 1,558 | 15,503 |
| 1986 Average... | 600 | 1,257 | 2,035 | 1,690 | 1,419 | 1,034 | 1,447 | 308 | 4,870 | 1,270 | 1,645 | 17,575 |
| 1987 Average... | 648 | 1,189 | 2,298 | 2,079 | 1,585 | 972 | 1,291 | 293 | 4,265 | 1,441 | 1,587 | 17,648 |
| 1988 Average... | 640 | 1,177 | 2,240 | 2,685 | 1,492 | 1,175 | 1,400 | 346 | 5,086 | 1,465 | 1,715 | 19,421 |
| 1989 Average... | 690 | 1,231 | 2,810 | 2,897 | 1,783 | 1,150 | 1,666 | 380 | 5,064 | 1,783 | 1,747 | 21,201 |
| 1990 Average... | 765 | 1,281 | 3,088 | 2,040 | 1,175 | 1,375 | 1,755 | 406 | 6,410 | 2,066 | 2,097 | 22,458 |
| 1991 Average... | 800 | 1,410 | 3,312 | 305 | 190 | 1,483 | 1,832 | 395 | 8,115 | 2,326 | 2,338 | 22,506 |
| 1992 Average... | 772 | 1,326 | 3,429 | 425 | 1,058 | 1,433 | 1,820 | 423 | 8,332 | 2,206 | 2,334 | 23,558 |
| 1993 Average... | 747 | 1,327 | 3,540 | 512 | 1,852 | 1,361 | 1,835 | 413 | 8,198 | 2,109 | 2,410 | 24,304 |
| 1994 Average... | 750 | 1,334 | 3,600 | 548 | 2,034 | 1,378 | 1,887 | 409 | 8,147 | 2,183 | 2,542 | 24,812 |
| 1995 Average... | 767 | 1,343 | 3,608 | 550 | 2,057 | 1,390 | 1,876 | 449 | 8,231 | 2,197 | 2,710 | 25,179 |
| 1996 Average... | 812 | 1,367 | 3,651 | 579 | 2,062 | 1,401 | 2,051 | 475 | 8,218 | 2,198 | 3,013 | 25,826 |
| 1997 January... | 830 | 1,390 | 3,650 | 1,080 | 2,085 | 1,430 | 2,180 | 550 | 8,265 | 2,220 | 3,150 | 26,830 |
| February.. | 840 | 1,410 | 3,650 | 1,120 | 2,077 | 1,430 | 2,210 | 550 | 8,408 | 2,250 | 3,150 | 27,095 |
| March | 850 | 1,420 | 3,650 | 1,170 | 2,105 | 1,440 | 2,140 | 550 | 8,515 | 2,280 | 3,160 | 27,280 |
| April | 850 | 1,380 | 3,650 | 1,270 | 2,107 | 1,450 | 2,210 | 550 | 8,568 | 2,280 | 3,180 | 27,495 |
| May | 850 | 1,400 | 3,600 | 1,320 | 2,027 | 1,450 | 2,170 | 570 | 8,548 | 2,130 | 3,200 | 27,265 |
| June | 830 | 1,350 | 3,700 | 600 | 2,050 | 1,450 | 2,240 | 655 | 8,540 | 2,245 | 3,220 | 26,880 |
| July | 850 | 1,350 | 3,650 | 600 | 2,070 | 1,450 | 2,230 | 650 | 8,560 | 2,245 | 3,230 | 26,885 |
| August.... | 850 | 1,350 | 3,650 | 1,510 | 2,070 | 1,450 | 2,250 | 650 | 8,660 | 2,245 | 3,350 | 28,035 |
| September. | 850 | 1,310 | 3,450 | 1,730 | 2,075 | 1,450 | 2,200 | 650 | 8,665 | 2,245 | 3,390 | 28,015 |
| October... | 850 | 1,310 | 3,600 | 1,620 | 2,075 | 1,450 | 2,300 | 650 | 8,665 | 2,245 | 3,390 | 28,155 |
| November.. | 850 | 1,360 | 3,650 | 1,385 | 2,075 | 1,450 | 2,260 | 670 | 8,615 | 2,225 | 3,420 | 27,960 |
| December.. | 860 | 1,360 | 3,650 | 776 | 2,175 | 1,450 | 2,220 | 670 | 8,725 | 2,230 | 3,450 | 27,566 |
| 1997 Average... | 847 | 1,366 | 3,629 | 1,182 | 2,083 | 1,446 | 2,217 | 614 | 8,562 | 2,236 | 3,275 | 27,457 |
| 1998 January... | 860 | 1,340 | 3,600 | 1,256 | 2,215 | 1,450 | 2,108 | 680 | 8,765 | 2,355 | 3,400 | 28,029 |
| February.. | 860 | 1,340 | 3,600 | 1,698 | 2,210 | 1,450 | 2,153 | 700 | 8,760 | 2,355 | 3,370 | 28,496 |
| March..... | 860 | 1,340 | 3,600 | 1,820 | 2,210 | 1,450 | 2,270 | 700 | 8,460 | 2,400 | 3,370 | 28,480 |
| April..... | 840 | 1,340 | 3,800 | 1,980 | 2,115 | 1,400 | 2,128 | 670 | 8,585 | 2,340 | 3,200 | 28,398 |
| May..... | 820 | 1,340 | 3,600 | 2,240 | 2,105 | 1,360 | 2,120 | 670 | 8,625 | 2,250 | 3,200 | 28,330 |
| June..... | 810 | 1,310 | 3,800 | 1,915 | 2,105 | 1,360 | 2,100 | 670 | 8,325 | 2,220 | 3,170 | 27,785 |
| 1998 Average .. | 842 | 1,335 | 3,666 | 1,819 | 2,160 | 1,411 | 2,147 | 681 | 8,585 | 2,320 | 3,285 | 28,251 |

^{1/} Includes about one-half of the production in the Kuwait-Saudi Arabia Neutral Zone from 1980 through July 1990 and beginning in June 1991. Kuwaiti Neutral Zone output was discontinued following Iraq's invasion of Kuwait on August 2, 1990, but was resumed in June 1991. From August 1990 through May 1991, all production in the Neutral Zone was included in the data for Saudi Arabia. In June 1998, Neutral Zone production by both Kuwait and Saudi Arabia totaled about 550 thousand barrels per day.

Notes: •OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

•Monthly data are often preliminary and also may not average to the annual totals due to rounding.

Sources: See end of Section 1.

Table 1.3 World Natural Gas Plant Liquids Production, 1985-Present
(Thousand Barrels per Day)

| | Algeria | Canada | Mexico | Saudi Arabia | Russia | Former USSR | United States ^{1/} | Persian Gulf ^{2/} | OAPEC ^{3/} | OPEC ^{3/} | World |
|-------------------|---------|--------|--------|--------------|--------|-------------|-----------------------------|----------------------------|---------------------|--------------------|--------|
| 1985 Average..... | 120 | 337 | 271 | 375 | -- | 350 | 1,609 | 645 | 808 | 892 | 3,938 |
| 1986 Average..... | 120 | 328 | 352 | 385 | -- | 440 | 1,551 | 700 | 860 | 969 | 4,150 |
| 1987 Average..... | 140 | 367 | 338 | 418 | -- | 430 | 1,595 | 721 | 900 | 1,006 | 4,279 |
| 1988 Average..... | 120 | 381 | 370 | 499 | -- | 450 | 1,625 | 808 | 979 | 1,077 | 4,481 |
| 1989 Average..... | 130 | 410 | 384 | 503 | -- | 425 | 1,546 | 851 | 1,041 | 1,188 | 4,502 |
| 1990 Average..... | 130 | 426 | 428 | 620 | -- | 425 | 1,559 | 930 | 1,107 | 1,281 | 4,632 |
| 1991 Average..... | 140 | 431 | 457 | 680 | -- | 420 | 1,659 | 931 | 1,113 | 1,299 | 4,827 |
| 1992 Average..... | 140 | 460 | 454 | 713 | 230 | -- | 1,697 | 1,003 | 1,185 | 1,364 | 4,975 |
| 1993 Average..... | 145 | 506 | 459 | 704 | 220 | -- | 1,736 | 1,040 | 1,238 | 1,435 | 5,181 |
| 1994 Average..... | 140 | 529 | 461 | 698 | 200 | -- | 1,727 | 1,071 | 1,267 | 1,465 | 5,293 |
| 1995 Average..... | 145 | 581 | 447 | 701 | 180 | -- | 1,762 | 1,106 | 1,301 | 1,506 | 5,485 |
| 1996 Average..... | 150 | 596 | 423 | 697 | 185 | -- | 1,830 | 1,082 | 1,295 | 1,501 | 5,582 |
| 1997 January..... | 145 | 660 | 370 | 700 | 200 | -- | 1,782 | 1,085 | 1,287 | 1,465 | 5,562 |
| February..... | 145 | 645 | 375 | 710 | 200 | -- | 1,867 | 1,095 | 1,297 | 1,475 | 5,627 |
| March..... | 145 | 652 | 385 | 720 | 200 | -- | 1,876 | 1,105 | 1,307 | 1,485 | 5,662 |
| April..... | 145 | 610 | 360 | 725 | 200 | -- | 1,824 | 1,110 | 1,312 | 1,490 | 5,541 |
| May..... | 145 | 597 | 380 | 725 | 200 | -- | 1,822 | 1,110 | 1,312 | 1,490 | 5,498 |
| June..... | 145 | 595 | 370 | 720 | 200 | -- | 1,827 | 1,105 | 1,307 | 1,485 | 5,471 |
| July..... | 145 | 598 | 370 | 720 | 200 | -- | 1,821 | 1,105 | 1,307 | 1,485 | 5,495 |
| August..... | 145 | 625 | 370 | 730 | 200 | -- | 1,831 | 1,115 | 1,317 | 1,495 | 5,529 |
| September.... | 145 | 626 | 425 | 730 | 200 | -- | 1,845 | 1,115 | 1,317 | 1,495 | 5,625 |
| October..... | 145 | 646 | 409 | 730 | 200 | -- | 1,813 | 1,115 | 1,317 | 1,495 | 5,614 |
| November..... | 145 | 655 | 405 | 725 | 200 | -- | 1,728 | 1,110 | 1,312 | 1,490 | 5,576 |
| December..... | 145 | 665 | 418 | 735 | 200 | -- | 1,773 | 1,120 | 1,322 | 1,500 | 5,653 |
| 1997 Average..... | 145 | 631 | 386 | 723 | 200 | -- | 1,817 | 1,108 | 1,310 | 1,488 | 5,571 |
| 1998 January..... | 145 | 665 | 385 | 735 | R230 | -- | 1,826 | 1,120 | 1,322 | 1,500 | R5,709 |
| February..... | 145 | 680 | 420 | 735 | R230 | -- | 1,870 | 1,120 | 1,322 | 1,500 | R5,805 |
| March..... | 145 | 645 | 425 | 735 | R230 | -- | 1,846 | 1,120 | 1,322 | 1,500 | R5,752 |
| April..... | 145 | 645 | 425 | 725 | R230 | -- | 1,859 | 1,110 | 1,312 | 1,490 | R5,756 |
| May..... | 145 | R580 | R430 | 725 | R230 | -- | R1,808 | 1,110 | 1,312 | 1,490 | R5,607 |
| June..... | 145 | 610 | 420 | 705 | 230 | -- | E1,847 | 1,090 | 1,292 | 1,470 | 5,636 |
| 1998 Average..... | 145 | 637 | 417 | 727 | 230 | -- | E1,842 | 1,112 | 1,314 | 1,492 | 5,709 |

^{1/} U.S. geographic coverage is the 50 States and the District of Columbia. Excludes fuel ethanol blended into finished motor gasoline.

^{2/} See Appendix A for countries in this group.

^{3/} OAPEC=Organization of Arab Petroleum Exporting Countries. OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in these groups.

R=Revised data. E=Estimated.

Notes: •Monthly data are often preliminary and also may not average to the annual totals due to rounding. See Section 4 for historical series.

Sources: See end of Section 1.

Table 1.4 World Oil Supply, 1985-Present
(Thousand Barrels per Day)

| | United States ^{1/} | Persian Gulf ^{2/} | OAPEC ^{3/} | OPEC ^{3/} | World |
|-------------------|-----------------------------|----------------------------|---------------------|--------------------|---------|
| 1985 Average..... | 11,192 | 10,320 | 11,498 | 17,151 | 59,262 |
| 1986 Average..... | 10,905 | 12,441 | 13,653 | 19,310 | 61,769 |
| 1987 Average..... | 10,648 | 12,869 | 13,992 | 19,589 | 62,427 |
| 1988 Average..... | 10,473 | 14,310 | 15,662 | 21,465 | 64,705 |
| 1989 Average..... | 9,880 | 15,733 | 16,658 | 23,323 | 65,892 |
| 1990 Average..... | 9,677 | 16,249 | 17,232 | 24,536 | 66,754 |
| 1991 Average..... | 9,883 | 15,704 | 16,747 | 24,625 | 66,632 |
| 1992 Average..... | 9,768 | 17,010 | 17,871 | 25,818 | 66,960 |
| 1993 Average..... | 9,602 | 17,792 | 18,505 | 26,610 | 67,361 |
| 1994 Average..... | 9,413 | 18,072 | 18,745 | 27,031 | 68,250 |
| 1995 Average..... | 9,400 | 18,351 | 19,069 | 27,566 | 69,860 |
| 1996 Average..... | 9,445 | 18,486 | 19,259 | 28,321 | 71,764 |
| 1997 January..... | 9,234 | 19,162 | 19,898 | 29,256 | 73,299 |
| February..... | 9,525 | 19,377 | 20,123 | 29,531 | 73,822 |
| March..... | 9,428 | 19,602 | 20,373 | 29,726 | 73,791 |
| April..... | 9,416 | 19,762 | 20,534 | 29,946 | 74,273 |
| May..... | 9,497 | 19,532 | 20,344 | 29,716 | 73,617 |
| June..... | 9,465 | 19,122 | 19,799 | 29,326 | 72,806 |
| July..... | 9,465 | 19,107 | 19,859 | 29,331 | 73,316 |
| August..... | 9,404 | 20,127 | 20,869 | 30,491 | 74,239 |
| September..... | 9,560 | 20,157 | 21,089 | 30,471 | 74,692 |
| October..... | 9,519 | 20,197 | 20,979 | 30,611 | 75,225 |
| November..... | 9,457 | 19,957 | 20,689 | 30,411 | 75,063 |
| December..... | 9,570 | 19,573 | 20,315 | 30,027 | 74,937 |
| 1997 Average..... | 9,461 | 19,641 | 20,407 | 29,905 | 74,091 |
| 1998 January..... | 9,462 | 20,218 | 21,000 | 30,490 | 75,336 |
| February..... | 9,611 | 20,670 | 21,455 | 30,957 | 75,968 |
| March..... | 9,442 | 20,537 | 21,324 | 30,941 | 75,717 |
| April..... | 9,497 | 20,827 | 21,344 | 30,849 | 75,555 |
| May..... | RE9,340 | 20,827 | R21,494 | 30,781 | R74,854 |
| June..... | E9,374 | 20,352 | 20,809 | 30,216 | 74,682 |
| 1998 Average..... | PE9,452 | 20,570 | 21,236 | 30,703 | 75,344 |

1/ U.S. geographic coverage is the 50 States and the District of Columbia. Beginning in 1993, includes fuel ethanol blended into finished motor gasoline and oxygenate production from merchant MTBE plants.

2/ See Appendix A for countries in this group.

3/ OAPEC=Organization of Arab Petroleum Exporting Countries. OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in these groups.

R=Revised data. E=Estimated. PE=Preliminary estimate. RE=Revised estimate.

Notes: •Oil Supply includes crude oil, natural gas plant liquids, other liquids, and refinery gain. See Explanatory Note 1 in Appendix B. •Monthly data are often preliminary and also may not average to the annual total due to rounding. See Section 4 for historical series.

Sources: See end of Section 1.

Table 1.5 Oil Stocks in OECD Countries, End of Period
(Million Barrels)

| | | France | Italy | Germany ^{1/} | United Kingdom | OECD Europe ^{2/} | United States ^{3/} | Canada | Japan | Other ^{4/} | Total OECD |
|------|---------------|--------|-------|-----------------------|----------------|---------------------------|-----------------------------|--------|-------|---------------------|------------|
| 1985 | December..... | 139 | 157 | 233 | 123 | 1,092 | 1,519 | 113 | 494 | 66 | 3,284 |
| 1986 | December..... | 127 | 155 | 252 | 124 | 1,133 | 1,593 | 111 | 509 | 72 | 3,418 |
| 1987 | December..... | 127 | 169 | 259 | 121 | 1,130 | 1,607 | 126 | 540 | 71 | 3,474 |
| 1988 | December..... | 140 | 155 | 266 | 112 | 1,118 | 1,597 | 116 | 538 | 71 | 3,440 |
| 1989 | December..... | 138 | 164 | 271 | 118 | 1,133 | 1,581 | 114 | 577 | 71 | 3,476 |
| 1990 | December..... | 140 | 172 | 265 | 112 | 1,163 | 1,621 | 121 | 590 | 73 | 3,568 |
| 1991 | December..... | 153 | 160 | 288 | 119 | 1,181 | 1,617 | 119 | 606 | 65 | 3,588 |
| 1992 | December..... | 146 | 174 | 310 | 113 | 1,219 | 1,592 | 107 | 603 | 67 | 3,588 |
| 1993 | December..... | 158 | 163 | 309 | 118 | 1,221 | 1,647 | 105 | 618 | 69 | 3,661 |
| 1994 | December..... | 158 | 164 | 312 | 115 | 1,240 | 1,653 | 119 | 645 | 69 | 3,726 |
| 1995 | December..... | 159 | 162 | 301 | 107 | 1,228 | 1,563 | 109 | 630 | 71 | 3,601 |
| 1996 | December..... | 158 | 152 | 300 | 108 | 1,256 | 1,507 | 103 | 651 | 74 | 3,591 |
| 1997 | | | | | | | | | | | |
| | January..... | 156 | 158 | 306 | 107 | 1,280 | 1,501 | 106 | 650 | 80 | 3,617 |
| | February..... | 159 | 156 | 309 | 105 | 1,270 | 1,482 | 103 | 642 | 75 | 3,573 |
| | March..... | 160 | 160 | 312 | 109 | 1,273 | 1,512 | 107 | 650 | 76 | 3,617 |
| | April..... | 159 | 151 | 301 | 108 | 1,248 | 1,518 | 110 | 665 | 80 | 3,620 |
| | May..... | 163 | 150 | 311 | 108 | 1,248 | 1,561 | 104 | 664 | 81 | 3,658 |
| | June..... | 153 | 151 | 299 | 111 | 1,230 | 1,575 | 103 | 662 | 83 | 3,653 |
| | July..... | 153 | 150 | 303 | 112 | 1,230 | 1,559 | 105 | 670 | 81 | 3,645 |
| | August..... | 158 | 151 | 302 | 108 | 1,253 | 1,570 | 113 | 669 | 80 | 3,685 |
| | September.... | 157 | 144 | 291 | 106 | 1,227 | 1,592 | 108 | 682 | 77 | 3,687 |
| | October..... | 152 | 144 | 289 | 106 | 1,231 | 1,598 | 111 | 693 | 83 | 3,716 |
| | November..... | 163 | 150 | 291 | 106 | 1,251 | 1,600 | 111 | 699 | 76 | 3,736 |
| | December..... | 164 | 147 | 298 | 105 | 1,256 | 1,560 | 115 | 685 | 74 | 3,689 |
| 1998 | | | | | | | | | | | |
| | January..... | 163 | 154 | 298 | 111 | 1,277 | 1,576 | 112 | 673 | 78 | 3,716 |
| | February..... | 161 | 155 | 290 | 108 | 1,273 | 1,572 | 110 | 664 | 75 | 3,695 |
| | March..... | 155 | 146 | 285 | 109 | 1,251 | 1,588 | 116 | 655 | 73 | 3,683 |
| | April..... | 163 | 161 | 292 | 106 | 1,274 | 1,614 | 113 | 658 | 74 | 3,734 |

^{1/} Through December 1990, the data for Germany are for the former West Germany only. Beginning with January 1991, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

^{2/} "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

^{3/} U.S. geographic coverage is the 50 States and the District of Columbia.

^{4/} "Other" consists of Australia, New Zealand, and the U.S. Territories.

R=Revised data.

Notes: •Oil Stocks - See Explanatory Note 2 in Appendix B. •See Section 4 for historical series.

Sources: See end of Section 1.

Table 1.6 Commercial and Government-Owned Oil Stocks in OECD Countries (End of March 1998)
(Million Barrels)

| Country | Commercial | Government Owned | Total |
|-----------------------------------|------------|---------------------|-------|
| Canada..... | 116 | 0 | 116 |
| United States ^{1/} | 1,025 | 563 | 1,588 |
| United States Territories..... | 25 | 0 | 25 |
| Japan..... | 340 | 315 | 655 |
| Australia/New Zealand..... | 48 | NA | 48 |
| Austria..... | 22 | 0 | 22 |
| Belgium/Luxembourg..... | 30 | 0 | 30 |
| Denmark..... | 23 | 0 | 23 |
| Finland..... | 25 | 0 | 25 |
| France..... | 155 | 0 | 155 |
| Germany ^{2/} | 230 | 55 | 285 |
| Greece..... | 30 | NA | 30 |
| Ireland..... | 7 | 2 | 9 |
| Italy..... | 140 | 6 | 146 |
| Netherlands..... | 101 | 0 | 101 |
| Norway..... | 62 | 0 | 62 |
| Portugal..... | 23 | 0 | 23 |
| Spain..... | 101 | 0 | 101 |
| Sweden..... | 33 | 0 | 33 |
| Switzerland..... | 45 | 0 | 45 |
| Turkey..... | 53 | 0 | 53 |
| United Kingdom..... | 109 | 0 | 109 |
| OECD Europe..... | 1,188 | 63 | 1,251 |
| Total OECD..... | 2,742 | 941 | 3,683 |

^{1/} U.S. geographic coverage is the 50 States and the District of Columbia.

^{2/} Data are for the unified Germany, i.e., the former East Germany and West Germany.

NA=Not Available.

Notes: •Sum of components may not equal total due to rounding. •Oil Stocks - See Explanatory Note 2 in Appendix B.
•OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group.

Sources: See end of Section 1.

Table 1.7. OECD Oil Demand, 1985-Present
(Thousand Barrels per Day)

| | France | Italy | Germany ^{1/} | United Kingdom | OECD Europe ^{2/} | United States ^{3/} | Canada | Japan | Other ^{4/} | Total OECD |
|------------------|--------|--------|-----------------------|----------------|---------------------------|-----------------------------|--------|--------|---------------------|------------|
| 1985 Average.... | 1,775 | 1,717 | 2,338 | 1,634 | 11,681 | 15,726 | 1,504 | 4,384 | 976 | 34,271 |
| 1986 Average.... | 1,772 | 1,738 | 2,498 | 1,649 | 12,102 | 16,281 | 1,506 | 4,439 | 951 | 35,279 |
| 1987 Average.... | 1,789 | 1,855 | 2,424 | 1,603 | 12,255 | 16,665 | 1,548 | 4,484 | 959 | 35,911 |
| 1988 Average.... | 1,797 | 1,836 | 2,422 | 1,697 | 12,427 | 17,283 | 1,693 | 4,752 | 939 | 37,093 |
| 1989 Average.... | 1,857 | 1,930 | 2,280 | 1,738 | 12,531 | 17,325 | 1,733 | 4,983 | 998 | 37,570 |
| 1990 Average.... | 1,818 | 1,872 | 2,382 | 1,752 | 12,629 | 16,988 | 1,690 | 5,140 | 1,027 | 37,475 |
| 1991 Average.... | 1,935 | 1,863 | 2,828 | 1,801 | 13,391 | 16,714 | 1,622 | 5,284 | 1,056 | 38,067 |
| 1992 Average.... | 1,926 | 1,937 | 2,843 | 1,803 | 13,605 | 17,033 | 1,643 | 5,446 | 1,041 | 38,768 |
| 1993 Average.... | 1,875 | 1,852 | 2,900 | 1,815 | 13,523 | 17,237 | 1,688 | 5,401 | 1,118 | 38,967 |
| 1994 Average.... | 1,833 | 1,841 | 2,879 | 1,837 | 13,597 | 17,718 | 1,727 | 5,674 | 1,174 | 39,890 |
| 1995 Average.... | 1,896 | 2,048 | 2,875 | 1,845 | 14,120 | 17,725 | 1,755 | 5,711 | 1,243 | 40,553 |
| 1996 Average.... | 1,935 | 2,058 | 2,911 | 1,845 | 14,269 | 18,309 | 1,797 | 5,867 | 1,191 | 41,432 |
| 1997 | | | | | | | | | | |
| January.... | 2,170 | R2,028 | 2,904 | 1,850 | R14,690 | 18,554 | 1,836 | 6,294 | 1,145 | R42,520 |
| February... | 2,142 | R2,115 | R2,653 | 1,933 | R14,618 | 18,398 | R1,857 | R6,756 | R1,149 | R42,778 |
| March..... | 1,801 | 1,919 | 2,692 | 1,754 | R13,607 | 17,863 | R1,755 | R6,149 | 1,148 | R40,522 |
| April..... | 1,916 | R1,990 | 3,219 | 1,803 | R14,691 | 18,559 | R1,721 | 5,306 | 1,181 | R41,459 |
| May..... | 1,712 | R1,888 | R2,761 | R1,712 | R13,525 | 18,293 | R1,824 | R5,080 | 1,073 | R39,794 |
| June..... | R1,878 | 1,938 | 3,123 | 1,780 | R14,381 | 18,617 | R1,914 | 5,135 | 1,097 | R41,144 |
| July..... | 2,077 | 2,020 | 3,074 | 1,756 | R14,745 | 19,107 | 1,952 | R5,450 | 1,150 | R42,403 |
| August.... | 1,795 | R1,798 | 2,745 | R1,710 | R13,541 | 18,565 | R1,915 | R5,404 | R1,114 | R40,539 |
| September.. | 1,999 | 2,171 | 3,163 | 1,821 | R15,015 | 18,562 | R1,875 | R5,422 | 1,166 | R42,040 |
| October.... | 2,144 | 2,207 | 2,869 | 1,844 | R15,105 | 19,071 | 1,934 | R5,414 | R1,140 | R42,665 |
| November... | 1,731 | R2,174 | 2,882 | R1,805 | R14,401 | 18,578 | R1,832 | R5,732 | R1,152 | R41,695 |
| December... | 2,107 | 2,299 | 2,761 | 1,835 | R14,983 | 19,250 | 1,876 | R6,453 | R1,146 | R43,708 |
| Average.... | 1,955 | 2,045 | R2,904 | 1,799 | R14,439 | 18,620 | 1,858 | 5,711 | 1,138 | R41,766 |
| 1998 | | | | | | | | | | |
| January.... | 2,040 | 2,030 | 2,734 | 1,779 | 14,335 | 18,256 | 1,888 | 6,109 | 1,044 | 41,633 |
| February... | 2,160 | 2,150 | 2,950 | 1,831 | 15,153 | 18,322 | 1,829 | 6,465 | 1,146 | 42,916 |
| March..... | 1,982 | 2,111 | 3,153 | 1,861 | 15,125 | 18,393 | 1,861 | 5,905 | 1,228 | 42,512 |
| April..... | 1,999 | 2,016 | 2,840 | 1,709 | 14,256 | 18,624 | 1,850 | 5,132 | 1,076 | 40,938 |

^{1/} Through December 1990, the data for Germany are for the former West Germany only. Beginning with January 1991, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

^{2/} "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

^{3/} U.S. geographic coverage is the 50 States and the District of Columbia.

^{4/} "Other" consists of Australia, New Zealand, and the U.S. Territories.

R=Revised data.

Notes: •The term Demand is used interchangeably with Consumption and Petroleum Products Supplied. See Appendix C for definition. •See Section 4 for historical series.

Sources: See end of Section 1.

Sources for Section 1 (Annual and Monthly Oil Data)

Crude Oil Production, Natural Gas Liquids Production, Other Liquids, and Refinery Gain

United States: Energy Information Administration (EIA), Petroleum Supply Annual 1997 and Petroleum Supply Monthly, July 1998.

Other Countries: Annual data -- EIA, International Energy Annual, various issues. Monthly data -- Canada -- Maclean Hunter Publishing Company, Oilweek, various issues. Denmark, Mexico, Netherlands, Norway, Germany, and all OPEC countries -- Petroleum and Energy Intelligence Weekly, Inc., Petroleum Intelligence Weekly, various issues. All Other Countries -- PennWell Publishing Company, Oil and Gas Journal, various issues. Refinery Gains: National Petroleum Council, U.S. Petroleum Refinery Study, October 1986.

Oil Stocks

United States: EIA, Petroleum Supply Annual 1997 and Petroleum Supply Monthly, July 1998.

Other OECD Countries: • Organization for Economic Cooperation and Development (OECD), Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Monthly Oil Statistics data base, 1985-1998.

Oil Demand

United States: EIA, Petroleum Supply Annual 1997 and Petroleum Supply Monthly, July 1998.

Other OECD Countries: • OECD, Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Monthly Oil Statistics data base, 1985-1998.

2. International Oil Balance Data

Table 2.1 World Oil Balance, 1994-1998
(Million Barrels Per Day)

| | 1994 | 1995 | 1996 | 1997 | | | | 1998 | | | | | |
|---|---------|--------|--------|---------|--------|---------|-------|--------|-------|---------|---------|----|--------|
| | Average | Annual | | Quarter | | | | Annual | | Quarter | | | Annual |
| | | First | Second | Third | Fourth | Average | First | Second | Third | Fourth | Average | | |
| Supply^{1/} | | | | | | | | | | | | | |
| OECD | | | | | | | | | | | | | |
| United States ^{2/} | 9.41 | 9.40 | 9.44 | 9.39 | 9.46 | 9.48 | 9.52 | 9.46 | 9.50 | 9.40 | NA | NA | NA |
| Other OECD..... | 9.25 | 9.80 | 10.29 | 10.67 | 10.15 | 10.22 | 10.78 | 10.46 | 10.67 | 10.44 | NA | NA | NA |
| Total OECD..... | 18.66 | 19.20 | 19.74 | 20.06 | 19.61 | 19.69 | 20.30 | 19.92 | 20.17 | 19.84 | NA | NA | NA |
| Non-OECD | | | | | | | | | | | | | |
| OPEC..... | 27.03 | 27.57 | 28.32 | 29.50 | 29.66 | 30.09 | 30.35 | 29.91 | 30.79 | 30.62 | NA | NA | NA |
| Former USSR..... | 7.27 | 7.14 | 7.05 | 6.99 | 7.15 | 7.20 | 7.18 | 7.13 | 7.29 | 7.15 | NA | NA | NA |
| Other Non-OECD..... | 15.29 | 15.95 | 16.65 | 17.07 | 17.15 | 17.09 | 17.24 | 17.14 | 17.41 | 17.42 | NA | NA | NA |
| Total Non-OECD..... | 49.59 | 50.66 | 52.02 | 53.57 | 53.96 | 54.38 | 54.77 | 54.17 | 55.49 | 55.19 | NA | NA | NA |
| Total World Supply..... | 68.25 | 69.86 | 71.76 | 73.63 | 73.57 | 74.08 | 75.08 | 74.09 | 75.66 | 75.03 | NA | NA | NA |
| Demand^{3/} | | | | | | | | | | | | | |
| OECD | | | | | | | | | | | | | |
| United States ^{2/} | 17.72 | 17.72 | 18.31 | 18.27 | 18.49 | 18.75 | 18.97 | 18.62 | 18.32 | NA | NA | NA | NA |
| Other OECD..... | 22.17 | 22.83 | 23.12 | 23.64 | 22.30 | 22.91 | 23.73 | 23.15 | 24.01 | NA | NA | NA | NA |
| Total OECD..... | 39.89 | 40.55 | 41.43 | 41.91 | 40.79 | 41.66 | 42.70 | 41.77 | 42.33 | NA | NA | NA | NA |
| Non-OECD | | | | | | | | | | | | | |
| China..... | 3.14 | 3.33 | 3.55 | 3.81 | 3.86 | 3.90 | 4.59 | 3.88 | 4.03 | NA | NA | NA | NA |
| Former USSR..... | 4.85 | 4.62 | 4.38 | 4.69 | 4.22 | 4.22 | 4.59 | 4.43 | 4.87 | NA | NA | NA | NA |
| Other Non-OECD..... | 20.43 | 21.43 | 22.16 | 23.08 | 22.99 | 22.46 | 24.01 | 23.14 | 23.35 | NA | NA | NA | NA |
| Total Non-OECD..... | 28.42 | 29.38 | 30.09 | 31.58 | 31.07 | 30.58 | 33.19 | 31.45 | 32.26 | NA | NA | NA | NA |
| Total World Demand..... | 68.31 | 69.93 | 71.52 | 73.49 | 71.86 | 72.23 | 75.89 | 73.21 | 74.59 | NA | NA | NA | NA |
| Stock Draws / Discrepancy | | | | | | | | | | | | | |
| Net Reported Stock Draws^{4/} | | | | | | | | | | | | | |
| U. S. Commercial..... | .00 | .25 | .08 | -.08 | -.70 | -.19 | .35 | -.15 | -.32 | NA | NA | NA | NA |
| U. S. Strategic..... | -.01 | .00 | .07 | .03 | .00 | .00 | .00 | .01 | .00 | NA | NA | NA | NA |
| Other OECD..... | -.16 | .09 | -.12 | -.24 | .30 | -.17 | -.38 | -.13 | .39 | NA | NA | NA | NA |
| For Export & Afloat..... | .03 | -.12 | -.01 | -.28 | .27 | -.49 | .00 | -.12 | -.44 | NA | NA | NA | NA |
| Commr. Floating Storage... | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | -.11 | NA | NA | NA | NA |
| Total Reported Draws..... | -.15 | .22 | .01 | -.57 | -.12 | -.85 | -.03 | -.39 | -.49 | NA | NA | NA | NA |
| Other Stock Draws and Statistical Discrepancy^{5/} | | | | | | | | | | | | | |
| | .21 | -.15 | -.26 | .42 | -1.58 | -.99 | .85 | -.49 | -.58 | NA | NA | NA | NA |

^{1/} Supply includes production of crude oil (including lease condensate), natural gas plant liquids, other hydrogen and hydrocarbons for refinery feedstocks, refinery gains, alcohol, and liquids produced from coal and other sources.

^{2/} U.S. geographical coverage is the 50 States and the District of Columbia. See Explanatory Note 1 in Appendix B.

^{3/} The term Demand is used interchangeably with the terms Consumption and Petroleum Products Supplied. See Appendix C for definition.

^{4/} Stock draws are positive numbers, stock additions are negative numbers.

^{5/} This is computed as Total Demand minus the sum of Total Supply and Total Reported Stock Draw.

Note: Sum of components may not equal total due to rounding.

Sources: See end of Section 2.

Table 2.2 World Oil Supply, 1994-1998
(Million Barrels Per Day)

| | 1994 | 1995 | 1996 | 1997 | | | | 1998 | | | | | |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------|----------|----------|
| | Average | Annual | Average | Quarter | | | | Annual | Quarter | | | | Annual |
| | | | | First | Second | Third | Fourth | Average | First | Second | Third | Fourth | Average |
| OECD | | | | | | | | | | | | | |
| United States ¹ /... | 9.41 | 9.40 | 9.44 | 9.39 | 9.46 | 9.48 | 9.52 | 9.46 | 9.50 | 9.40 | NA | NA | NA |
| Canada..... | 2.33 | 2.45 | 2.49 | 2.61 | 2.46 | 2.58 | 2.69 | 2.58 | 2.66 | 2.63 | NA | NA | NA |
| North Sea ² /..... | 5.38 | 5.80 | 6.22 | 6.45 | 6.06 | 5.99 | 6.46 | 6.24 | 6.42 | 6.17 | NA | NA | NA |
| Other OECD..... | 1.54 | 1.55 | 1.58 | 1.61 | 1.63 | 1.65 | 1.64 | 1.63 | 1.59 | 1.64 | NA | NA | NA |
| Total OECD..... | 18.66 | 19.20 | 19.74 | 20.06 | 19.61 | 19.69 | 20.30 | 19.92 | 20.17 | 19.84 | NA | NA | NA |
| Non-OECD | | | | | | | | | | | | | |
| OPEC | | | | | | | | | | | | | |
| Crude | | | | | | | | | | | | | |
| Algeria..... | 1.18 | 1.20 | 1.24 | 1.27 | 1.27 | 1.28 | 1.28 | 1.28 | 1.29 | 1.25 | NA | NA | NA |
| Indonesia..... | 1.51 | 1.50 | 1.55 | 1.59 | 1.56 | 1.52 | 1.52 | 1.55 | 1.52 | 1.51 | NA | NA | NA |
| Iran..... | 3.62 | 3.64 | 3.69 | 3.68 | 3.68 | 3.62 | 3.67 | 3.66 | 3.63 | 3.77 | NA | NA | NA |
| Iraq..... | .55 | .56 | .58 | 1.13 | 1.07 | 1.28 | 1.26 | 1.19 | 1.59 | 2.05 | NA | NA | NA |
| Kuwait..... | 2.02 | 2.06 | 2.06 | 2.09 | 2.06 | 2.07 | 2.11 | 2.08 | 2.21 | 2.11 | NA | NA | NA |
| Libya..... | 1.38 | 1.39 | 1.40 | 1.43 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | 1.37 | NA | NA | NA |
| Nigeria..... | 1.93 | 1.99 | 2.19 | 2.28 | 2.31 | 2.33 | 2.36 | 2.32 | 2.28 | 2.22 | NA | NA | NA |
| Qatar..... | .41 | .44 | .51 | .58 | .63 | .68 | .70 | .65 | .73 | .70 | NA | NA | NA |
| Saudi Arabia.. | 8.12 | 8.23 | 8.22 | 8.40 | 8.55 | 8.63 | 8.67 | 8.56 | 8.66 | 8.51 | NA | NA | NA |
| United Arab Emirates... Venezuela..... | 2.19 2.59 | 2.23 2.75 | 2.28 3.05 | 2.33 3.19 | 2.30 3.24 | 2.32 3.36 | 2.31 3.46 | 2.32 3.31 | 2.45 3.42 | 2.35 3.23 | NA NA | NA NA | NA NA |
| Natural Gas | | | | | | | | | | | | | |
| Plant Liquids | 1.46 | 1.51 | 1.50 | 1.47 | 1.49 | 1.49 | 1.50 | 1.49 | 1.50 | 1.48 | NA | NA | NA |
| Processing Gain. | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | NA | NA | NA |
| Total OPEC..... | 27.03 | 27.57 | 28.32 | 29.50 | 29.66 | 30.09 | 30.35 | 29.91 | 30.79 | 30.62 | NA | NA | NA |
| Former USSR..... | 7.27 | 7.14 | 7.05 | 6.99 | 7.15 | 7.20 | 7.18 | 7.13 | 7.29 | 7.15 | NA | NA | NA |
| China..... | 2.94 | 2.99 | 3.13 | 3.22 | 3.24 | 3.19 | 3.15 | 3.20 | 3.19 | 3.20 | NA | NA | NA |
| Mexico..... | 3.17 | 3.09 | 3.31 | 3.36 | 3.38 | 3.49 | 3.51 | 3.44 | 3.57 | 3.57 | NA | NA | NA |
| Other Non-OECD.... | 9.17 | 9.86 | 10.21 | 10.49 | 10.52 | 10.41 | 10.58 | 10.50 | 10.66 | 10.65 | NA | NA | NA |
| Total Non-OECD.... | 49.59 | 50.66 | 52.02 | 53.57 | 53.96 | 54.38 | 54.77 | 54.17 | 55.49 | 55.19 | NA | NA | NA |
| Total Supply..... | 68.25 | 69.86 | 71.76 | 73.63 | 73.57 | 74.08 | 75.08 | 74.09 | 75.66 | 75.03 | NA | NA | NA |

¹/ U.S. geographic coverage is the 50 States and the District of Columbia.

²/ North Sea includes the United Kingdom Offshore, Norway, Denmark, Netherlands Offshore, and Germany Offshore.

Notes: •Supply includes crude oil (including lease condensate), natural gas plant liquids, (except for individual OPEC countries), other hydrogen and hydrocarbons for refinery feedstocks, alcohol, liquids produced from coal and other sources, and processing gain (except for individual OPEC countries). For OPEC, natural gas plant liquids production and processing gain are shown as separate lines. •Sum of components may not equal total due to rounding.

Sources: See end of Section 2.

Table 2.3 Oil Stocks, End of Period
(Million Barrels)

| | 1994 | 1995 | 1996 | 1997 | | | | 1998 | | | | |
|---|-------|----------|-------|---------|--------|-------|--------|---------|--------|-------|--------|----|
| | | Year End | | Quarter | | | | Quarter | | | | |
| | | | | First | Second | Third | Fourth | First | Second | Third | Fourth | |
| OECD | | | | | | | | | | | | |
| United States ^{1/} | | | | | | | | | | | | |
| Commercial..... | 1,061 | 971 | 941 | 949 | 1,012 | 1,029 | 997 | 1,025 | NA | NA | NA | NA |
| Strategic..... | 592 | 592 | 566 | 563 | 563 | 563 | 563 | 563 | NA | NA | NA | NA |
| U. S. Territories..... | 26 | 24 | 25 | 23 | 27 | 27 | 23 | 25 | NA | NA | NA | NA |
| Canada..... | 119 | 109 | 103 | 107 | 103 | 108 | 115 | 116 | NA | NA | NA | NA |
| Japan..... | 645 | 630 | 651 | 650 | 662 | 682 | 685 | 655 | NA | NA | NA | NA |
| OECD Europe | | | | | | | | | | | | |
| France..... | 158 | 159 | 158 | 160 | 153 | 157 | 164 | 155 | NA | NA | NA | NA |
| Germany..... | 312 | 301 | 300 | 312 | 299 | 291 | 298 | 285 | NA | NA | NA | NA |
| Italy..... | 164 | 162 | 152 | 160 | 151 | 144 | 147 | 146 | NA | NA | NA | NA |
| United Kingdom..... | 115 | 107 | 108 | 109 | 111 | 106 | 105 | 109 | NA | NA | NA | NA |
| Other OECD Europe.... | 490 | 499 | 537 | 532 | 516 | 528 | 542 | 556 | NA | NA | NA | NA |
| Total..... | 1,240 | 1,228 | 1,256 | 1,273 | 1,230 | 1,227 | 1,256 | 1,251 | NA | NA | NA | NA |
| Australia & New Zealand | 43 | 47 | 49 | 53 | 56 | 50 | 51 | 48 | NA | NA | NA | NA |
| Total OECD..... | 3,726 | 3,601 | 3,591 | 3,617 | 3,653 | 3,687 | 3,689 | 3,683 | NA | NA | NA | NA |
| Stocks for Export | | | | | | | | | | | | |
| and Afloat ^{2/} | 935 | 980 | 985 | 1,010 | 985 | 1,030 | 1,030 | 1,070 | NA | NA | NA | NA |
| Commercial Floating ^{3/} | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 80 | NA | NA | NA | NA |

^{1/} U.S. stock data include Alaskan crude oil in transit by water. These data were previously reported in stocks for export and afloat. U.S. geographic coverage is the 50 States and the District of Columbia.

^{2/} Stocks held at export terminals of major crude oil producing countries and commercial oil afloat based on quarterly analysis of world seaborne movements.

^{3/} Stocks stored by industry in tankers moored offshore. Excludes strategic storage.

Notes: •Oil Stocks - See Note 2 in Appendix B. •Sum of components may not equal total due to rounding.

Sources: See end of Section 2.

Table 2.4 World Oil Demand, 1994-1998
(Million Barrels Per Day)

| | 1994 | 1995 | 1996 | 1997 | | | | 1998 | | | | | |
|-----------------------------------|-------------------|-------------------|-------------------|---------|--------|-------|--------|-------------------|---------|--------|-------|--------|-------------------|
| | Annual Average | Annual Average | Annual Average | Quarter | | | | Annual Average | Quarter | | | | Annual Average |
| | | | | First | Second | Third | Fourth | | First | Second | Third | Fourth | |
| OECD | | | | | | | | | | | | | |
| United States ¹ /..... | 17.72 | 17.72 | 18.31 | 18.27 | 18.49 | 18.75 | 18.97 | 18.62 | 18.32 | NA | NA | NA | NA |
| U. S. Territories..... | .26 | .25 | .26 | .20 | .17 | .19 | .20 | .19 | .21 | NA | NA | NA | NA |
| Canada..... | 1.73 | 1.76 | 1.80 | 1.81 | 1.82 | 1.91 | 1.88 | 1.86 | 1.86 | NA | NA | NA | NA |
| Japan..... | 5.67 | 5.71 | 5.87 | 6.39 | 5.17 | 5.43 | 5.87 | 5.71 | 6.15 | NA | NA | NA | NA |
| OECD Europe ² / | | | | | | | | | | | | | |
| France..... | 1.83 | 1.90 | 1.93 | 2.03 | 1.83 | 1.96 | 2.00 | 1.96 | 2.06 | NA | NA | NA | NA |
| Italy..... | 1.84 | 2.05 | 2.06 | 2.02 | 1.94 | 1.99 | 2.23 | 2.04 | 2.10 | NA | NA | NA | NA |
| United Kingdom..... | 1.84 | 1.84 | 1.85 | 1.84 | 1.76 | 1.76 | 1.83 | 1.80 | 1.82 | NA | NA | NA | NA |
| Germany ³ /..... | 2.88 | 2.88 | 2.91 | 2.75 | 3.03 | 2.99 | 2.84 | 2.90 | 2.95 | NA | NA | NA | NA |
| Other OECD Europe.... | 5.21 | 5.45 | 5.52 | 5.65 | 5.62 | 5.72 | 5.94 | 5.74 | 5.94 | NA | NA | NA | NA |
| Total OECD Europe.... | 13.60 | 14.12 | 14.27 | 14.29 | 14.19 | 14.43 | 14.83 | 14.44 | 14.86 | NA | NA | NA | NA |
| Australia & New Zealand | .92 | .99 | .93 | .95 | .94 | .96 | .94 | .95 | .93 | NA | NA | NA | NA |
| Total OECD..... | 39.89 | 40.55 | 41.43 | 41.91 | 40.79 | 41.66 | 42.70 | 41.77 | 42.33 | NA | NA | NA | NA |
| Non-OECD | | | | | | | | | | | | | |
| China..... | 3.14 | 3.33 | 3.55 | 3.81 | 3.86 | 3.90 | 4.59 | 3.88 | 4.03 | NA | NA | NA | NA |
| Former USSR..... | 4.85 | 4.62 | 4.38 | 4.69 | 4.22 | 4.22 | 4.59 | 4.43 | 4.87 | NA | NA | NA | NA |
| Other Non-OECD..... | 20.43 | 21.43 | 22.16 | 23.08 | 22.99 | 22.46 | 24.01 | 23.14 | 23.35 | NA | NA | NA | NA |
| Total Non-OECD..... | 28.42 | 29.38 | 30.09 | 31.58 | 31.07 | 30.58 | 33.19 | 31.45 | 32.26 | NA | NA | NA | NA |
| Total World Demand..... | 68.31 | 69.93 | 71.52 | 73.49 | 71.86 | 72.23 | 75.89 | 73.21 | 74.59 | NA | NA | NA | NA |

¹/ U.S. geographic coverage is the 50 States and the District of Columbia.

²/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

³/ Through December 1990, the data for Germany are for the former West Germany only. Beginning with January 1991, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

Notes: •Oil demand includes bunkers and refinery fuel. The term Demand is used interchangeably with the terms Consumption and Petroleum Products Supplied. See Appendix C for definition. •Sum of components may not equal total due to rounding.

Sources: See end of Section 2.

Sources for Section 2 (International Oil Balance Data)

Crude Oil Production, Natural Gas Liquids Production, Other Liquids, and Refinery Gain

United States: Energy Information Administration (EIA), Petroleum Supply Annual 1997 and Petroleum Supply Monthly, July 1998.

Other Countries: Annual data -- EIA, International Energy Annual, various issues. Monthly data -- Canada -- Maclean Hunter Publishing Company, Oilweek, various issues. Denmark, Mexico, Netherlands, Norway, Germany, and all OPEC countries -- Petroleum and Energy Intelligence Weekly, Inc., Petroleum Intelligence Weekly, various issues. Other Countries -- PennWell Publishing Company, Oil and Gas Journal, various issues. Refinery Gains: National Petroleum Council, U.S. Petroleum Refinery Study, October 1986.

Oil Stocks

United States: EIA, Petroleum Supply Annual 1997 and Petroleum Supply Monthly, July 1998.

Other OECD Countries: • Organization for Economic Cooperation and Development (OECD), Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Monthly Oil Statistics data base, 1990-1998. Stocks for Export and Afloat and Commercial Floating Stocks -- Petroleum Economics Limited, Oil Industry Developments, various issues.

Oil Demand

United States: EIA, Petroleum Supply Annual 1997 and Petroleum Supply Monthly, July 1998.

Other OECD Countries: • OECD, Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Monthly Oil Statistics data base, 1990-1998.

OPEC Countries: EIA, International Energy Annual, various issues and Short-Term Energy Outlook, various issues.

Other countries: EIA, International Energy Annual, various issues and Short-Term Energy Outlook, various issues.

3. International Oil Imports

Table 3.1 Average Net Oil Imports into OECD Countries, (1997 Average)
(Million Barrels per Day)

| | Total | OECD Europe | | | | | OECD Outside Europe | | | | |
|---|--------|-------------|----------------|--------|-----------------------|-------|----------------------------|-----------------------------|--------|-------|---------------------|
| | | Total | United Kingdom | France | Germany ^{1/} | Italy | Other Europe ^{2/} | United States ^{3/} | Canada | Japan | Other ^{4/} |
| Total Net Imports.. | 21.819 | 7.340 | -0.968 | 1.769 | 2.804 | 1.795 | 1.940 | 9.158 | -0.816 | 5.819 | 0.318 |
| Imports from OPEC ^{1/} | 16.460 | 6.264 | .199 | .899 | .645 | 1.353 | 3.168 | 4.542 | .313 | 4.699 | .642 |
| Imports from Persian Gulf ^{2/} | | | | | | | | | | | |
| Total..... | 9.932 | 3.470 | .094 | .617 | .157 | .583 | 2.019 | 1.747 | .120 | 4.304 | .291 |
| Bahrain..... | .025 | .001 | .000 | .000 | .000 | .000 | .000 | -.002 | - | .023 | .002 |
| Iran..... | 1.436 | .942 | .000 | .127 | .023 | .258 | .533 | .000 | .032 | .461 | .000 |
| Iraq..... | .457 | .336 | .000 | .078 | .001 | .033 | .223 | .089 | .014 | .015 | .003 |
| Kuwait..... | 1.065 | .249 | .031 | .017 | .012 | .000 | .189 | .253 | .000 | .557 | .006 |
| U.A.E..... | 1.523 | .009 | .001 | .000 | .001 | .000 | .007 | -.003 | .000 | 1.441 | .076 |
| Qatar..... | .377 | .000 | .000 | .000 | .000 | .000 | .000 | .004 | - | .364 | .008 |
| Saudi Arabia..... | 5.050 | 1.933 | .062 | .394 | .120 | .291 | 1.067 | 1.406 | .074 | 1.441 | .195 |
| Imports from OPEC-Africa | | | | | | | | | | | |
| Total..... | 3.825 | 2.572 | .074 | .282 | .442 | .745 | 1.030 | .979 | .083 | .036 | .156 |
| Algeria..... | 1.043 | .683 | .019 | .131 | .095 | .086 | .353 | .285 | .059 | .014 | .003 |
| Libya..... | 1.269 | 1.269 | .051 | .060 | .246 | .609 | .304 | .000 | .000 | - | .000 |
| Nigeria..... | 1.513 | .620 | .004 | .091 | .101 | .050 | .373 | .694 | .024 | .023 | .153 |
| Imports from OPEC-South America | | | | | | | | | | | |
| Total..... | 2.155 | .206 | .031 | .000 | .046 | .012 | .117 | 1.758 | .109 | .003 | .080 |
| Venezuela..... | 2.155 | .206 | .031 | .000 | .046 | .012 | .117 | 1.758 | .109 | .003 | .080 |
| Imports from OPEC-Far East | | | | | | | | | | | |
| Total..... | .572 | .017 | .000 | .000 | .000 | .014 | .002 | .057 | .000 | .380 | .118 |
| Indonesia..... | .572 | .017 | .000 | .000 | .000 | .014 | .002 | .057 | .000 | .380 | .118 |

^{1/} The data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

^{2/} "Other Europe" consists of Austria, Belgium, Denmark, Finland, Greece, Iceland, Ireland, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and Turkey.

^{3/} U.S. geographic coverage is the 50 States and District of Columbia.

^{4/} "Other" consists of Australia, New Zealand, and U. S. Territories.

^{5/} OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

^{6/} The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

Table 3.2 Net Oil Imports into OECD Countries, (1st Quarter 1998)
(Million Barrels per Day)

| | Total | OECD Europe | | | | | OECD Outside Europe | | | | |
|---|--------|-------------|----------------|--------|-----------------------|-------|----------------------------|-----------------------------|--------|-------|---------------------|
| | | Total | United Kingdom | France | Germany ^{1/} | Italy | Other Europe ^{2/} | United States ^{3/} | Canada | Japan | Other ^{4/} |
| Total Net Imports.. | 21.725 | 7.496 | -1.018 | 1.811 | 2.729 | 1.849 | 2.126 | 9.022 | -0.899 | 5.777 | 0.329 |
| Imports from OPEC ^{1/} | 16.642 | 6.479 | .205 | .942 | .589 | 1.388 | 3.355 | 4.405 | .260 | 4.746 | .752 |
| Imports from Persian Gulf ^{2/} | | | | | | | | | | | |
| Total..... | 10.133 | 3.565 | .107 | .647 | .113 | .531 | 2.167 | 1.792 | .048 | 4.441 | .287 |
| Bahrain..... | .026 | .011 | .000 | .004 | .000 | .007 | .000 | -.003 | - | .015 | .003 |
| Iran..... | 1.308 | .783 | .000 | .158 | .011 | .192 | .423 | .000 | .000 | .514 | .010 |
| Iraq..... | .506 | .448 | - | .085 | .000 | .044 | .319 | .056 | .000 | .000 | .002 |
| Kuwait..... | 1.158 | .298 | .025 | .032 | .013 | .002 | .227 | .261 | .000 | .591 | .009 |
| U.A.E..... | 1.527 | .002 | .000 | .002 | .000 | .000 | .000 | .002 | - | 1.461 | .062 |
| Qatar..... | .520 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | - | .494 | .026 |
| Saudi Arabia..... | 5.089 | 2.024 | .083 | .367 | .089 | .286 | 1.199 | 1.476 | .048 | 1.365 | .175 |
| Imports from OPEC-Africa | | | | | | | | | | | |
| Total..... | 3.922 | 2.691 | .074 | .298 | .447 | .792 | 1.080 | .931 | .113 | .005 | .181 |
| Algeria..... | 1.143 | .785 | .016 | .127 | .123 | .093 | .425 | .281 | .081 | .005 | -.009 |
| Libya..... | 1.280 | 1.280 | .042 | .040 | .259 | .614 | .325 | .000 | - | - | .000 |
| Nigeria..... | 1.499 | .627 | .016 | .132 | .064 | .085 | .330 | .650 | .032 | .000 | .190 |
| Imports from OPEC-South America | | | | | | | | | | | |
| Total..... | 2.080 | .185 | .023 | .000 | .028 | .026 | .108 | 1.643 | .098 | .000 | .154 |
| Venezuela..... | 2.080 | .185 | .023 | .000 | .028 | .026 | .108 | 1.643 | .098 | .000 | .154 |
| Imports from OPEC-Far East | | | | | | | | | | | |
| Total..... | .532 | .048 | - | .000 | .001 | .047 | .000 | .036 | .000 | .315 | .133 |
| Indonesia..... | .532 | .048 | - | .000 | .001 | .047 | .000 | .036 | .000 | .315 | .133 |

^{1/} The data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

^{2/} "Other Europe" consists of Austria, Belgium, Denmark, Finland, Greece, Iceland, Ireland, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and Turkey.

^{3/} U.S. geographic coverage is the 50 States and District of Columbia.

^{4/} "Other" consists of Australia, New Zealand, and U. S. Territories.

^{5/} OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

^{6/} The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

Table 3.3 Net Oil Imports into OECD Countries, (4th Quarter 1997)
(Million Barrels per Day)

| | Total | OECD Europe | | | | | | OECD Outside Europe | | | |
|---|--------|-------------|----------------|--------|-----------------------|-------|----------------------------|-----------------------------|--------|-------|---------------------|
| | | Total | United Kingdom | France | Germany ^{1/} | Italy | Other Europe ^{2/} | United States ^{3/} | Canada | Japan | Other ^{4/} |
| Total Net Imports.. | 22.053 | 7.852 | -1.064 | 1.894 | 2.823 | 2.013 | 2.187 | 8.956 | -0.900 | 5.913 | 0.231 |
| Imports from OPEC ^{5/} | 17.004 | 6.658 | .172 | .935 | .641 | 1.460 | 3.450 | 4.467 | .345 | 4.897 | .639 |
| Imports from Persian Gulf ^{6/} | | | | | | | | | | | |
| Total..... | 10.446 | 3.722 | .093 | .624 | .164 | .631 | 2.210 | 1.803 | .121 | 4.584 | .217 |
| Bahrain..... | .018 | .001 | .000 | .001 | .000 | .000 | .000 | -.001 | - | .018 | .001 |
| Iran..... | 1.400 | .916 | .002 | .118 | .023 | .273 | .499 | .000 | .000 | .484 | .000 |
| Iraq..... | .677 | .421 | .000 | .062 | .003 | .061 | .296 | .212 | .032 | .000 | .012 |
| Kuwait..... | 1.048 | .214 | .031 | .000 | .013 | .000 | .169 | .253 | .000 | .576 | .005 |
| U.A.E..... | 1.542 | .002 | .002 | .000 | .000 | .000 | .000 | -.003 | .000 | 1.489 | .054 |
| Qatar..... | .452 | .002 | .000 | .002 | .000 | .000 | .000 | .010 | - | .433 | .006 |
| Saudi Arabia..... | 5.310 | 2.168 | .058 | .442 | .125 | .297 | 1.246 | 1.331 | .088 | 1.584 | .139 |
| Imports from OPEC-Africa | | | | | | | | | | | |
| Total..... | 3.830 | 2.733 | .058 | .311 | .432 | .801 | 1.131 | .820 | .100 | .021 | .157 |
| Algeria..... | 1.051 | .721 | .018 | .089 | .113 | .077 | .424 | .249 | .079 | .000 | .002 |
| Libya..... | 1.254 | 1.254 | .041 | .053 | .215 | .646 | .300 | .000 | .000 | - | .000 |
| Nigeria..... | 1.525 | .757 | .000 | .168 | .103 | .078 | .407 | .571 | .021 | .021 | .155 |
| Imports from OPEC-South America | | | | | | | | | | | |
| Total..... | 2.203 | .180 | .021 | .000 | .045 | .004 | .109 | 1.776 | .125 | .000 | .122 |
| Venezuela..... | 2.203 | .180 | .021 | .000 | .045 | .004 | .109 | 1.776 | .125 | .000 | .122 |
| Imports from OPEC-Far East | | | | | | | | | | | |
| Total..... | .544 | .023 | .000 | .000 | .000 | .023 | .000 | .067 | .000 | .309 | .144 |
| Indonesia..... | .544 | .023 | .000 | .000 | .000 | .023 | .000 | .067 | .000 | .309 | .144 |

1/ The data for Germany are for unified Germany, i.e., the former East Germany and West Germany.

2/ "Other Europe" consists of Austria, Belgium, Denmark, Finland, Greece, Iceland, Ireland, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and Turkey.

3/ U.S. geographic coverage is the 50 States and District of Columbia.

4/ "Other" consists of Australia, New Zealand, and U. S. Territories.

5/ OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

6/ The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: *Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. *OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. *Negative numbers represent net exports.

*A dash (-) indicates no trade. *Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. *See Section 4 for annual data.

Sources: See end of Section 3.

Table 3.4 OECD Total Net Imports (Most Recent 12 Months)
(Million Barrels per Day)

| | 1997 | | | | | | | | 1998 | | | |
|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | May | June | July | August | Sept | Oct | Nov | Dec | Jan | Feb | Mar | April |
| Total..... | 21.699 | 21.412 | 21.703 | 21.893 | 22.006 | 22.749 | 22.126 | 21.287 | 21.687 | 21.619 | 21.854 | 21.715 |
| United States ¹ /.... | 9.941 | 9.782 | 8.996 | 9.390 | 9.540 | 9.726 | 9.014 | 8.130 | 8.811 | 9.530 | 8.775 | 9.369 |
| Canada..... | -.796 | -.763 | -.640 | -.860 | -.896 | -.719 | -1.020 | -.964 | -1.041 | -1.052 | -.618 | -1.054 |
| OECD Europe ² /..... | 7.078 | 7.224 | 7.577 | 7.521 | 7.414 | 7.891 | 7.924 | 7.744 | 7.456 | 7.860 | 7.203 | 7.822 |
| Main European Importers | | | | | | | | | | | | |
| France..... | 1.764 | 1.475 | 1.785 | 1.695 | 1.663 | 1.977 | 1.865 | 1.837 | 1.738 | 2.034 | 1.682 | 2.116 |
| Germany ³ /..... | 2.954 | 2.690 | 3.123 | 2.652 | 2.766 | 2.706 | 2.830 | 2.933 | 2.635 | 2.601 | 2.938 | 2.920 |
| Italy..... | 1.794 | 1.638 | 1.666 | 1.662 | 1.800 | 1.882 | 2.047 | 2.112 | 1.971 | 1.886 | 1.693 | 2.080 |
| Spain..... | 1.216 | 1.132 | 1.443 | 1.225 | 1.334 | 1.331 | 1.335 | 1.364 | 1.230 | 1.329 | 1.330 | 1.397 |
| Netherlands..... | .609 | .795 | .755 | .999 | .756 | .676 | .733 | .836 | .813 | .914 | .758 | .681 |
| European Net Exporters | | | | | | | | | | | | |
| Norway..... | -3.301 | -2.931 | -3.353 | -2.731 | -3.224 | -2.810 | -3.149 | -3.306 | -3.429 | -2.954 | -3.334 | -3.436 |
| United Kingdom.... | -.813 | -.416 | -.950 | -1.040 | -.950 | -1.114 | -.998 | -1.078 | -1.032 | -.988 | -1.031 | -1.177 |
| Smaller European Importers | | | | | | | | | | | | |
| Austria..... | .228 | .202 | .256 | .241 | .234 | .216 | .240 | .221 | .210 | .225 | .179 | .221 |
| Belgium..... | .556 | .521 | .523 | .629 | .547 | .579 | .617 | .635 | .693 | .604 | .620 | .637 |
| Denmark..... | .017 | -.015 | -.026 | .014 | .021 | .016 | .009 | -.066 | -.044 | .030 | -.036 | .055 |
| Ireland..... | .104 | .134 | .129 | .096 | .162 | .160 | .123 | .157 | .137 | .152 | .164 | .134 |
| Finland..... | .187 | .180 | .214 | .106 | .211 | .243 | .157 | .298 | .281 | .178 | .157 | .136 |
| Greece..... | .316 | .335 | .355 | .407 | .294 | .419 | .417 | .354 | .433 | .403 | .467 | .332 |
| Iceland..... | .022 | .012 | .020 | .020 | .023 | .023 | .014 | .006 | .026 | .010 | .017 | .011 |
| Luxembourg..... | .038 | .036 | .039 | .037 | .037 | .042 | .039 | .045 | .042 | .044 | .044 | .043 |
| Portugal..... | .250 | .279 | .318 | .246 | .380 | .304 | .215 | .358 | .305 | .374 | .314 | .290 |
| Sweden..... | .344 | .319 | .328 | .347 | .394 | .347 | .536 | .276 | .543 | .225 | .435 | .504 |
| Switzerland..... | .266 | .293 | .301 | .294 | .287 | .269 | .244 | .261 | .297 | .283 | .286 | .283 |
| Turkey..... | .527 | .545 | .651 | .623 | .678 | .624 | .650 | .502 | .606 | .509 | .521 | .596 |
| Japan..... | 5.218 | 4.914 | 5.588 | 5.592 | 5.807 | 5.759 | 5.912 | 6.069 | 5.721 | 5.857 | 5.760 | 5.203 |
| Other OECD..... | .257 | .255 | .182 | .251 | .141 | .092 | .296 | .308 | .740 | -.577 | .735 | .375 |

1/ U.S. geographic coverage is the 50 States and District of Columbia.

2/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

3/ The data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

Table 3.5 OECD Imports from OPEC (Most Recent 12 Months)
(Million Barrels per Day)

| | 1997 | | | | | | | | 1998 | | | |
|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | May | June | July | August | Sept | Oct | Nov | Dec | Jan | Feb | Mar | April |
| Total..... | 16.171 | 15.568 | 15.819 | 16.453 | 16.987 | 17.273 | 16.858 | 16.877 | 16.447 | 16.718 | 16.768 | 16.650 |
| United States ¹ /.... | 4.972 | 4.962 | 4.411 | 4.804 | 4.841 | 4.880 | 4.378 | 4.140 | 4.268 | 4.217 | 4.712 | 4.756 |
| Canada..... | .241 | .255 | .296 | .459 | .282 | .409 | .260 | .362 | .223 | .289 | .269 | .304 |
| OECD Europe ² /..... | 6.152 | 5.666 | 6.264 | 6.250 | 6.721 | 6.695 | 6.735 | 6.545 | 6.383 | 6.921 | 6.176 | 6.652 |
| Main European Importers | | | | | | | | | | | | |
| France..... | .753 | .824 | 1.020 | .797 | 1.084 | 1.131 | .846 | .826 | .887 | 1.071 | .881 | 1.171 |
| Germany ³ /..... | .683 | .581 | .657 | .698 | .636 | .649 | .647 | .627 | .601 | .595 | .571 | .601 |
| Italy..... | 1.484 | 1.202 | 1.379 | 1.276 | 1.379 | 1.353 | 1.491 | 1.535 | 1.336 | 1.624 | 1.228 | 1.518 |
| Spain..... | .703 | .693 | .764 | .722 | .864 | .820 | .794 | 1.032 | .873 | .917 | .872 | .868 |
| Netherlands..... | .787 | .699 | .735 | .946 | .711 | .806 | .829 | .861 | .835 | .896 | .854 | .723 |
| European Net Exporters | | | | | | | | | | | | |
| Norway..... | .000 | .000 | .000 | .000 | .000 | .007 | .008 | .005 | .000 | .000 | .000 | .000 |
| United Kingdom.... | .199 | .219 | .277 | .190 | .239 | .170 | .219 | .129 | .176 | .140 | .293 | .153 |
| Smaller European Importers | | | | | | | | | | | | |
| Austria..... | .148 | .058 | .176 | .130 | .133 | .161 | .154 | .130 | .084 | .156 | .075 | .157 |
| Belgium..... | .315 | .309 | .244 | .326 | .352 | .351 | .318 | .315 | .338 | .276 | .257 | .326 |
| Denmark..... | .049 | .033 | .006 | .027 | .067 | .024 | .049 | .024 | .024 | .027 | .024 | .033 |
| Ireland..... | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | - | - | - | - |
| Finland..... | .010 | .000 | .000 | .000 | .008 | .007 | .007 | .032 | .000 | .000 | .010 | .000 |
| Greece..... | .286 | .294 | .296 | .330 | .328 | .367 | .398 | .319 | .401 | .351 | .343 | .284 |
| Portugal..... | .180 | .179 | .207 | .159 | .291 | .135 | .164 | .208 | .147 | .248 | .154 | .153 |
| Sweden..... | .093 | .092 | .067 | .089 | .025 | .086 | .170 | .008 | .147 | .077 | .127 | .126 |
| Switzerland..... | .087 | .093 | .094 | .101 | .107 | .111 | .098 | .093 | .102 | .108 | .082 | .102 |
| Turkey..... | .377 | .390 | .342 | .458 | .497 | .517 | .543 | .400 | .430 | .435 | .404 | .436 |
| Japan..... | 4.175 | 3.977 | 4.366 | 4.417 | 4.553 | 4.775 | 4.799 | 5.112 | 4.732 | 4.589 | 4.902 | 4.368 |
| Other OECD..... | .631 | .708 | .483 | .523 | .591 | .514 | .686 | .717 | .841 | .701 | .709 | .571 |

¹/ U.S. geographic coverage is the 50 States and District of Columbia.

²/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

³/ The data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development; OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in these groups. •Negative numbers represent net exports. •A dash (-) indicates no trade.

•Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

Table 3.6 OECD Imports from Persian Gulf (Most Recent 12 Months)
(Million Barrels per Day)

| | 1997 | | | | | | | | 1998 | | | |
|----------------------------------|-------|-------|-------|--------|--------|--------|--------|--------|-------|--------|--------|--------|
| | May | June | July | August | Sept | Oct | Nov | Dec | Jan | Feb | Mar | April |
| Total..... | 9.622 | 8.946 | 9.412 | 9.930 | 10.331 | 10.773 | 10.372 | 10.192 | 9.992 | 10.251 | 10.168 | 10.313 |
| United States ¹ /.... | 1.701 | 1.759 | 1.740 | 1.851 | 1.915 | 1.913 | 1.745 | 1.749 | 1.724 | 1.691 | 1.950 | 1.979 |
| Canada..... | .137 | .136 | .066 | .198 | .071 | .168 | .065 | .128 | .007 | .074 | .067 | .070 |
| OECD Europe ² /..... | 3.641 | 3.184 | 3.333 | 3.641 | 3.962 | 4.000 | 3.814 | 3.355 | 3.472 | 3.863 | 3.389 | 3.957 |
| Main European Importers | | | | | | | | | | | | |
| France..... | .555 | .563 | .640 | .644 | .857 | .842 | .525 | .503 | .671 | .769 | .513 | .851 |
| Germany ³ /..... | .153 | .192 | .177 | .202 | .164 | .205 | .155 | .131 | .101 | .124 | .115 | .178 |
| Italy..... | .646 | .526 | .618 | .571 | .629 | .645 | .603 | .645 | .476 | .686 | .446 | .688 |
| Spain..... | .413 | .287 | .318 | .358 | .425 | .411 | .336 | .373 | .410 | .394 | .370 | .471 |
| Netherlands..... | .642 | .515 | .562 | .679 | .488 | .640 | .739 | .636 | .574 | .702 | .679 | .450 |
| European Net Exporters | | | | | | | | | | | | |
| Norway..... | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| United Kingdom.... | .107 | .124 | .123 | .091 | .115 | .081 | .129 | .069 | .078 | .060 | .180 | .102 |
| Smaller European Importers | | | | | | | | | | | | |
| Austria..... | .057 | .015 | .080 | .019 | .063 | .047 | .083 | .039 | .000 | .048 | .017 | .072 |
| Belgium..... | .285 | .250 | .228 | .292 | .331 | .332 | .302 | .288 | .326 | .251 | .239 | .311 |
| Denmark..... | .000 | .000 | .000 | .000 | .023 | .000 | .000 | .000 | .000 | .000 | .000 | .008 |
| Finland..... | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| Greece..... | .254 | .243 | .264 | .287 | .292 | .328 | .358 | .299 | .369 | .301 | .311 | .251 |
| Portugal..... | .161 | .138 | .069 | .094 | .190 | .051 | .085 | .121 | .078 | .173 | .136 | .121 |
| Sweden..... | .064 | .067 | .067 | .065 | .000 | .066 | .136 | .000 | .129 | .067 | .108 | .111 |
| Switzerland..... | .014 | .014 | .009 | .009 | .005 | .014 | .005 | .000 | .004 | .000 | .009 | .017 |
| Turkey..... | .289 | .249 | .178 | .330 | .378 | .338 | .359 | .251 | .257 | .287 | .267 | .327 |
| Japan..... | 3.816 | 3.505 | 3.909 | 3.972 | 4.147 | 4.518 | 4.526 | 4.705 | 4.453 | 4.312 | 4.545 | 4.098 |
| Other OECD..... | .327 | .361 | .364 | .267 | .236 | .175 | .222 | .255 | .336 | .312 | .217 | .209 |

¹/ U.S. geographic coverage is the 50 States and District of Columbia.

²/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

³/ The data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •"Persian Gulf" consists of Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab Emirates. •Negative numbers represent net exports.

•A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

Table 3.7 United States--Net Oil Imports (Most Recent 12 Months)
(Million Barrels per Day)

| | 1997 | | | | | | | | 1998 | | | |
|--|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| | May | June | July | August | Sept | Oct | Nov | Dec | Jan | Feb | Mar | April |
| Total Net Imports.. | 9.941 | 9.782 | 8.996 | 9.390 | 9.540 | 9.726 | 9.014 | 8.130 | 8.811 | 9.530 | 8.775 | 9.369 |
| Imports from OPEC ^{1/} | 4.972 | 4.962 | 4.411 | 4.804 | 4.841 | 4.880 | 4.378 | 4.140 | 4.268 | 4.217 | 4.712 | 4.756 |
| Imports from Persian Gulf ^{2/} | | | | | | | | | | | | |
| Total..... | 1.701 | 1.759 | 1.740 | 1.851 | 1.915 | 1.913 | 1.745 | 1.749 | 1.724 | 1.691 | 1.950 | 1.979 |
| Bahrain..... | .000 | .000 | -.003 | -.003 | -.003 | -.003 | .000 | .000 | -.003 | -.004 | -.003 | -.003 |
| Iran..... | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| Iraq..... | .102 | .115 | .088 | .000 | .000 | .177 | .220 | .240 | .036 | .000 | .127 | .233 |
| Kuwait..... | .128 | .361 | .331 | .229 | .322 | .349 | .220 | .188 | .194 | .283 | .307 | .262 |
| U.A.E..... | -.003 | -.016 | .011 | -.009 | -.003 | -.002 | -.003 | -.003 | -.003 | -.003 | .011 | .017 |
| Qatar..... | .000 | .000 | .000 | .000 | .000 | .016 | .000 | .015 | .000 | .000 | .000 | .000 |
| Saudi Arabia..... | 1.474 | 1.299 | 1.313 | 1.634 | 1.599 | 1.376 | 1.308 | 1.309 | 1.500 | 1.415 | 1.508 | 1.470 |
| Imports from OPEC-Africa | | | | | | | | | | | | |
| Total..... | 1.280 | 1.268 | .871 | 1.143 | 1.026 | .949 | .891 | .622 | .919 | .807 | 1.056 | 1.108 |
| Algeria..... | .290 | .349 | .291 | .261 | .259 | .272 | .267 | .208 | .306 | .295 | .244 | .336 |
| Libya..... | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| Nigeria..... | .990 | .919 | .580 | .882 | .767 | .677 | .624 | .414 | .613 | .512 | .812 | .772 |
| Imports from OPEC-South America | | | | | | | | | | | | |
| Total..... | 1.905 | 1.881 | 1.724 | 1.786 | 1.807 | 1.973 | 1.666 | 1.685 | 1.586 | 1.694 | 1.653 | 1.622 |
| Venezuela..... | 1.905 | 1.881 | 1.724 | 1.786 | 1.807 | 1.973 | 1.666 | 1.685 | 1.586 | 1.694 | 1.653 | 1.622 |
| Imports from OPEC-Far East | | | | | | | | | | | | |
| Total..... | .086 | .054 | .073 | .021 | .090 | .042 | .076 | .084 | .036 | .021 | .050 | .044 |
| Indonesia..... | .086 | .054 | .073 | .021 | .090 | .042 | .076 | .084 | .036 | .021 | .050 | .044 |

^{1/} OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

^{2/} The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •U.S. geographic coverage is the 50 States and District of Columbia. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

Table 3.8 Japan--Net Oil Imports (Most Recent 12 Months)
(Million Barrels per Day)

| | 1997 | | | | | | | | 1998 | | | |
|---|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| | May | June | July | August | Sept | Oct | Nov | Dec | Jan | Feb | Mar | April |
| Total Net Imports.. | 5.218 | 4.914 | 5.588 | 5.592 | 5.807 | 5.759 | 5.912 | 6.069 | 5.721 | 5.857 | 5.760 | 5.203 |
| Imports from OPEC ^{1/} | 4.175 | 3.977 | 4.366 | 4.417 | 4.553 | 4.775 | 4.799 | 5.112 | 4.732 | 4.589 | 4.902 | 4.368 |
| Imports from Persian Gulf ^{2/} | | | | | | | | | | | | |
| Total..... | 3.816 | 3.505 | 3.909 | 3.972 | 4.147 | 4.518 | 4.526 | 4.705 | 4.453 | 4.312 | 4.545 | 4.098 |
| Bahrain..... | .031 | .008 | .017 | .015 | .037 | .014 | .007 | .031 | .028 | .017 | .000 | .000 |
| Iran..... | .409 | .253 | .466 | .319 | .464 | .401 | .505 | .546 | .550 | .453 | .532 | .282 |
| Iraq..... | .059 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| Kuwait..... | .464 | .523 | .473 | .515 | .578 | .541 | .557 | .630 | .583 | .578 | .611 | .432 |
| U.A.E..... | 1.220 | 1.180 | 1.366 | 1.420 | 1.428 | 1.390 | 1.606 | 1.475 | 1.545 | 1.507 | 1.336 | 1.655 |
| Qatar..... | .350 | .291 | .319 | .410 | .316 | .426 | .406 | .467 | .469 | .438 | .571 | .483 |
| Saudi Arabia..... | 1.284 | 1.251 | 1.267 | 1.294 | 1.323 | 1.745 | 1.445 | 1.556 | 1.278 | 1.318 | 1.496 | 1.246 |
| Imports from OPEC-Africa | | | | | | | | | | | | |
| Total..... | .046 | .100 | .073 | .032 | .074 | .000 | .000 | .062 | .000 | .017 | .000 | .000 |
| Algeria..... | .046 | .041 | .013 | .032 | .018 | .000 | .000 | .000 | .000 | .017 | .000 | .000 |
| Nigeria..... | .000 | .059 | .060 | .000 | .057 | .000 | .000 | .062 | .000 | .000 | .000 | .000 |
| Imports from OPEC-South America | | | | | | | | | | | | |
| Total..... | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .001 | .000 | .000 | .000 | .000 |
| Venezuela..... | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .001 | .000 | .000 | .000 | .000 |
| Imports from OPEC-Far East | | | | | | | | | | | | |
| Total..... | .344 | .380 | .401 | .428 | .369 | .272 | .279 | .376 | .307 | .278 | .356 | .270 |
| Indonesia..... | .344 | .380 | .401 | .428 | .369 | .272 | .279 | .376 | .307 | .278 | .356 | .270 |

^{1/} OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

^{2/} The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis.

•Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

Table 3.9 OECD Europe--Net Oil Imports (Most Recent 12 Months)
(Million Barrels per Day)

| | 1997 | | | | | | | | 1998 | | | |
|---|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| | May | June | July | August | Sept | Oct | Nov | Dec | Jan | Feb | Mar | April |
| Total Net Imports.. | 7.078 | 7.224 | 7.577 | 7.521 | 7.414 | 7.891 | 7.924 | 7.744 | 7.456 | 7.860 | 7.203 | 7.822 |
| Imports from OPEC ^{1/} | 6.152 | 5.666 | 6.264 | 6.250 | 6.721 | 6.695 | 6.735 | 6.545 | 6.383 | 6.921 | 6.176 | 6.652 |
| Imports from Persian Gulf ^{2/} | | | | | | | | | | | | |
| Total..... | 3.641 | 3.184 | 3.333 | 3.641 | 3.962 | 4.000 | 3.814 | 3.355 | 3.472 | 3.863 | 3.389 | 3.957 |
| Bahrain..... | .000 | .000 | .000 | .001 | .000 | .000 | .001 | .001 | .000 | .034 | .000 | .000 |
| Iran..... | 1.157 | .964 | .913 | 1.169 | 1.028 | .971 | .935 | .842 | .806 | .773 | .769 | .926 |
| Iraq..... | .494 | .036 | .000 | .186 | .611 | .620 | .376 | .265 | .235 | .578 | .544 | .778 |
| Kuwait..... | .248 | .240 | .248 | .210 | .343 | .251 | .215 | .174 | .205 | .335 | .357 | .145 |
| U.A.E..... | .005 | .008 | .056 | .004 | .001 | .005 | .000 | .000 | .001 | .005 | .000 | .052 |
| Qatar..... | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .005 | .000 | .000 | .000 | .000 |
| Saudi Arabia..... | 1.736 | 1.936 | 2.115 | 2.073 | 1.979 | 2.151 | 2.287 | 2.068 | 2.224 | 2.137 | 1.720 | 2.056 |
| Imports from OPEC-Africa | | | | | | | | | | | | |
| Total..... | 2.278 | 2.247 | 2.704 | 2.342 | 2.496 | 2.538 | 2.718 | 2.943 | 2.725 | 2.832 | 2.531 | 2.500 |
| Algeria..... | .595 | .564 | .687 | .680 | .586 | .671 | .742 | .752 | .920 | .611 | .807 | .603 |
| Libya..... | 1.339 | 1.338 | 1.312 | 1.279 | 1.252 | 1.219 | 1.238 | 1.306 | 1.211 | 1.379 | 1.260 | 1.415 |
| Nigeria..... | .344 | .345 | .705 | .383 | .658 | .648 | .738 | .885 | .595 | .843 | .464 | .482 |
| Imports from OPEC-South America | | | | | | | | | | | | |
| Total..... | .208 | .229 | .216 | .250 | .226 | .155 | .171 | .214 | .156 | .198 | .202 | .158 |
| Venezuela..... | .208 | .229 | .216 | .250 | .226 | .155 | .171 | .214 | .156 | .198 | .202 | .158 |
| Imports from OPEC-Far East | | | | | | | | | | | | |
| Total..... | .026 | .006 | .011 | .017 | .037 | .003 | .032 | .034 | .030 | .063 | .054 | .037 |
| Indonesia..... | .026 | .006 | .011 | .017 | .037 | .003 | .032 | .034 | .030 | .063 | .054 | .037 |

^{1/} OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

^{2/} The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •"OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom. •Negative numbers represent net exports.

•A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day.

•See Section 4 for annual data.

Sources: See end of Section 3.

Table 3.10 France--Net Oil Imports (Most Recent 12 Months)
(Million Barrels per Day)

| | 1997 | | | | | | | | 1998 | | | |
|---|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| | May | June | July | August | Sept | Oct | Nov | Dec | Jan | Feb | Mar | April |
| Total Net Imports.. | 1.764 | 1.475 | 1.785 | 1.695 | 1.663 | 1.977 | 1.865 | 1.837 | 1.738 | 2.034 | 1.682 | 2.116 |
| Imports from OPEC ^{1/} | .753 | .824 | 1.020 | .797 | 1.084 | 1.131 | .846 | .826 | .887 | 1.071 | .881 | 1.171 |
| Imports from Persian Gulf ^{2/} | | | | | | | | | | | | |
| Total..... | .555 | .563 | .640 | .644 | .857 | .842 | .525 | .503 | .671 | .769 | .513 | .851 |
| Bahrain..... | .000 | .000 | .000 | .001 | .000 | .000 | .001 | .001 | .000 | .012 | .000 | .000 |
| Iran..... | .102 | .131 | .127 | .206 | .166 | .172 | .104 | .079 | .171 | .142 | .159 | .099 |
| Iraq..... | .154 | .002 | .000 | .064 | .133 | .149 | .033 | .002 | .120 | .073 | .062 | .294 |
| Kuwait..... | .000 | .000 | .063 | .003 | .069 | .000 | .000 | .000 | .003 | .093 | .006 | .000 |
| U.A.E..... | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .005 | .000 | .016 |
| Qatar..... | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .005 | .000 | .000 | .000 | .000 |
| Saudi Arabia..... | .299 | .429 | .450 | .370 | .489 | .521 | .388 | .416 | .376 | .444 | .287 | .442 |
| Imports from OPEC-Africa | | | | | | | | | | | | |
| Total..... | .196 | .261 | .379 | .153 | .227 | .288 | .321 | .323 | .216 | .313 | .368 | .320 |
| Algeria..... | .115 | .138 | .195 | .091 | .065 | .060 | .116 | .092 | .129 | .053 | .191 | .120 |
| Libya..... | .051 | .102 | .110 | .027 | .066 | .058 | .060 | .043 | .000 | .062 | .059 | .103 |
| Nigeria..... | .030 | .022 | .074 | .035 | .096 | .170 | .146 | .189 | .087 | .197 | .118 | .096 |
| Imports from OPEC-South America | | | | | | | | | | | | |
| Total..... | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| Venezuela..... | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| Imports from OPEC-Far East | | | | | | | | | | | | |
| Total..... | .001 | .000 | .000 | .000 | .000 | .000 | .000 | .001 | .000 | .000 | .000 | .000 |
| Indonesia..... | .001 | .000 | .000 | .000 | .000 | .000 | .000 | .001 | .000 | .000 | .000 | .000 |

^{1/} OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

^{2/} The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

Table 3.11 Germany--Net Oil Imports (Most Recent 12 Months)
(Million Barrels per Day)

| | 1997 | | | | | | | | 1998 | | | |
|---|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| | May | June | July | August | Sept | Oct | Nov | Dec | Jan | Feb | Mar | April |
| Total Net Imports.. | 2.954 | 2.690 | 3.123 | 2.652 | 2.766 | 2.706 | 2.830 | 2.933 | 2.635 | 2.601 | 2.938 | 2.920 |
| Imports from OPEC ^{1/} | .683 | .581 | .657 | .698 | .636 | .649 | .647 | .627 | .601 | .595 | .571 | .601 |
| Imports from Persian Gulf ^{2/} | | | | | | | | | | | | |
| Total..... | .153 | .192 | .177 | .202 | .164 | .205 | .155 | .131 | .101 | .124 | .115 | .178 |
| Bahrain..... | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| Iran..... | .016 | .037 | .022 | .037 | .017 | .041 | .019 | .010 | .004 | .000 | .027 | .014 |
| Iraq..... | .000 | .000 | .000 | .000 | .000 | .000 | .009 | .000 | .000 | .000 | .000 | .034 |
| Kuwait..... | .009 | .013 | .014 | .009 | .016 | .012 | .014 | .013 | .004 | .020 | .016 | .021 |
| U.A.E..... | .002 | .002 | .005 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| Qatar..... | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| Saudi Arabia..... | .125 | .140 | .136 | .156 | .130 | .152 | .113 | .108 | .093 | .104 | .072 | .109 |
| Imports from OPEC-Africa | | | | | | | | | | | | |
| Total..... | .470 | .352 | .378 | .459 | .431 | .401 | .449 | .446 | .490 | .439 | .410 | .368 |
| Algeria..... | .054 | .070 | .061 | .092 | .091 | .106 | .087 | .146 | .125 | .091 | .150 | .050 |
| Libya..... | .318 | .261 | .252 | .273 | .267 | .215 | .261 | .172 | .241 | .288 | .252 | .275 |
| Nigeria..... | .097 | .021 | .066 | .095 | .073 | .080 | .102 | .128 | .124 | .059 | .008 | .043 |
| Imports from OPEC-South America | | | | | | | | | | | | |
| Total..... | .059 | .037 | .101 | .036 | .041 | .043 | .043 | .051 | .006 | .032 | .046 | .055 |
| Venezuela..... | .059 | .037 | .101 | .036 | .041 | .043 | .043 | .051 | .006 | .032 | .046 | .055 |
| Imports from OPEC-Far East | | | | | | | | | | | | |
| Total..... | .001 | .000 | .001 | .000 | .000 | .000 | .000 | .000 | .004 | .000 | .000 | .000 |
| Indonesia..... | .001 | .000 | .001 | .000 | .000 | .000 | .000 | .000 | .004 | .000 | .000 | .000 |

^{1/} OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

^{2/} The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •The data for Germany are for the unified Germany, i.e., the former East Germany and West Germany. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

Table 3.12 Italy--Net Oil Imports (Most Recent 12 Months)
(Million Barrels per Day)

| | 1997 | | | | | | | | 1998 | | | |
|--|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| | May | June | July | August | Sept | Oct | Nov | Dec | Jan | Feb | Mar | April |
| Total Net Imports.. | 1.794 | 1.638 | 1.666 | 1.662 | 1.800 | 1.882 | 2.047 | 2.112 | 1.971 | 1.886 | 1.693 | 2.080 |
| Imports from OPEC ^{1/} | 1.484 | 1.202 | 1.379 | 1.276 | 1.379 | 1.353 | 1.491 | 1.535 | 1.336 | 1.624 | 1.228 | 1.518 |
| Imports from Persian Gulf ^{2/} | | | | | | | | | | | | |
| Total..... | .646 | .526 | .618 | .571 | .629 | .645 | .603 | .645 | .476 | .686 | .446 | .688 |
| Bahrain..... | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .022 | .000 | .000 |
| Iran..... | .365 | .256 | .232 | .259 | .272 | .261 | .242 | .316 | .185 | .195 | .197 | .252 |
| Iraq..... | .049 | .000 | .000 | .021 | .062 | .095 | .022 | .063 | .000 | .067 | .068 | .108 |
| Kuwait..... | .000 | .000 | .000 | .000 | .000 | .001 | .000 | .000 | .000 | .005 | .000 | .000 |
| U.A.E..... | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| Qatar..... | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| Saudi Arabia..... | .232 | .270 | .386 | .291 | .295 | .288 | .338 | .266 | .291 | .397 | .181 | .328 |
| Imports from OPEC-Africa | | | | | | | | | | | | |
| Total..... | .814 | .669 | .699 | .670 | .723 | .705 | .850 | .851 | .787 | .878 | .719 | .778 |
| Algeria..... | .101 | .059 | .058 | .073 | .104 | .056 | .128 | .049 | .135 | .086 | .057 | .080 |
| Libya..... | .684 | .610 | .612 | .597 | .588 | .600 | .611 | .725 | .595 | .617 | .629 | .698 |
| Nigeria..... | .029 | .000 | .030 | .000 | .031 | .048 | .111 | .077 | .056 | .175 | .032 | .000 |
| Imports from OPEC-South America | | | | | | | | | | | | |
| Total..... | .000 | .000 | .051 | .018 | .013 | .000 | .006 | .007 | .048 | .020 | .010 | .016 |
| Venezuela..... | .000 | .000 | .051 | .018 | .013 | .000 | .006 | .007 | .048 | .020 | .010 | .016 |
| Imports from OPEC-Far East | | | | | | | | | | | | |
| Total..... | .024 | .006 | .010 | .017 | .013 | .003 | .032 | .032 | .025 | .062 | .054 | .037 |
| Indonesia..... | .024 | .006 | .010 | .017 | .013 | .003 | .032 | .032 | .025 | .062 | .054 | .037 |

^{1/} OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

^{2/} The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

Table 3.13 OECD Imports from Iraq (Most Recent 12 Months)
(Million Barrels per Day for Crude Oil, Natural Gas Liquids and Refined Products)

| | 1997 | | | | | | | | 1998 | | | |
|-----------------------------------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| | May | June | July | August | Sept | Oct | Nov | Dec | Jan | Feb | Mar | April |
| Total..... | 0.659 | 0.155 | 0.097 | 0.186 | 0.682 | 0.836 | 0.668 | 0.527 | 0.272 | 0.578 | 0.675 | 1.019 |
| United States ^{2/} | .102 | .115 | .088 | .000 | .000 | .177 | .220 | .240 | .036 | .000 | .127 | .233 |
| Canada..... | .000 | .000 | .000 | .000 | .071 | .033 | .065 | .000 | .000 | .000 | .000 | .000 |
| OECD Europe ^{3/} | .494 | .036 | .000 | .186 | .611 | .620 | .376 | .265 | .235 | .578 | .544 | .778 |
| Main European Importers | | | | | | | | | | | | |
| France..... | .154 | .002 | .000 | .064 | .133 | .149 | .033 | .002 | .120 | .073 | .062 | .294 |
| Germany ^{4/} | .000 | .000 | .000 | .000 | .000 | .000 | .009 | .000 | .000 | .000 | .000 | .034 |
| Italy..... | .049 | .000 | .000 | .021 | .062 | .095 | .022 | .063 | .000 | .067 | .068 | .108 |
| Spain..... | .066 | .033 | .000 | .066 | .135 | .150 | .030 | .058 | .080 | .111 | .129 | .102 |
| Netherlands..... | .031 | .000 | .000 | .017 | .000 | .063 | .072 | .000 | .000 | .128 | .088 | .094 |
| European Net Exporters | | | | | | | | | | | | |
| United Kingdom.... | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | - | - | - | - |
| Smaller European Importers | | | | | | | | | | | | |
| Austria..... | .024 | .000 | .000 | .000 | .033 | .027 | .056 | .019 | .000 | .015 | .008 | .023 |
| Belgium..... | .053 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .014 | .049 | .050 |
| Denmark..... | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | - | - | - | - |
| Greece..... | .000 | .000 | .000 | .000 | .032 | .000 | .049 | .067 | .032 | .000 | .016 | .000 |
| Portugal..... | .031 | .000 | .000 | .000 | .063 | .000 | .000 | .000 | .000 | .037 | .053 | .000 |
| Sweden..... | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | - | - | - | - |
| Switzerland..... | .005 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| Turkey..... | .081 | .000 | .000 | .017 | .152 | .136 | .105 | .056 | .004 | .133 | .071 | .074 |
| Japan..... | .059 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| Other OECD..... | .004 | .004 | .009 | .000 | .000 | .006 | .007 | .022 | .001 | .000 | .005 | .008 |

^{1/} U.S. geographic coverage is the 50 States and District of Columbia.

^{2/} "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, the United Kingdom, and Germany.

^{3/} Through December 1990, the data for Germany are for the former West Germany only. Beginning with January 1991, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

Table 3.14 OECD Imports from Kuwait (Most Recent 12 Months)
(Million Barrels per Day)

| | 1997 | | | | | | | | 1998 | | | |
|-----------------------------------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| | May | June | July | August | Sept | Oct | Nov | Dec | Jan | Feb | Mar | April |
| Total..... | 0.853 | 1.131 | 1.054 | 0.955 | 1.244 | 1.144 | 0.994 | 1.003 | 0.984 | 1.211 | 1.286 | 0.851 |
| United States ¹ /..... | .128 | .361 | .331 | .229 | .322 | .349 | .220 | .188 | .194 | .283 | .307 | .262 |
| Canada..... | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| OECD Europe ² /..... | .248 | .240 | .248 | .210 | .343 | .251 | .215 | .174 | .205 | .335 | .357 | .145 |
| Main European Importers | | | | | | | | | | | | |
| France..... | .000 | .000 | .063 | .003 | .069 | .000 | .000 | .000 | .003 | .093 | .006 | .000 |
| Germany ³ /..... | .009 | .013 | .014 | .009 | .016 | .012 | .014 | .013 | .004 | .020 | .016 | .021 |
| Italy..... | .000 | .000 | .000 | .000 | .000 | .001 | .000 | .000 | .000 | .005 | .000 | .000 |
| Spain..... | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| Netherlands..... | .205 | .184 | .117 | .156 | .205 | .194 | .149 | .117 | .183 | .194 | .253 | .092 |
| European Net Exporters | | | | | | | | | | | | |
| Norway..... | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| United Kingdom.... | .027 | .028 | .028 | .027 | .029 | .029 | .036 | .028 | .000 | .002 | .070 | .008 |
| Smaller European Importers | | | | | | | | | | | | |
| Austria..... | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | - | - | - | - |
| Belgium..... | .007 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| Denmark..... | .000 | .000 | .000 | .000 | .023 | .000 | .000 | .000 | .000 | .000 | .000 | .008 |
| Greece..... | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| Portugal..... | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | - | - | - | - |
| Sweden..... | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| Switzerland..... | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| Turkey..... | .000 | .016 | .025 | .014 | .001 | .015 | .016 | .016 | .015 | .020 | .012 | .016 |
| Japan..... | .464 | .523 | .473 | .515 | .578 | .541 | .557 | .630 | .583 | .578 | .611 | .432 |
| Other OECD..... | .013 | .006 | .002 | .002 | .002 | .003 | .002 | .011 | .001 | .014 | .012 | .011 |

1/ U.S. geographic coverage is the 50 States and District of Columbia.

2/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, the United Kingdom, and Germany.

3/ Through December 1990, the data for Germany are for the former West Germany only. Beginning with January 1991, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

Sources for Section 3 (International Oil Imports)

Oil Imports

United States: • Energy Information Administration (EIA), Petroleum Supply Annual 1997 and Petroleum Supply Monthly, July 1998.
Other OECD Countries: • Organization for Economic Cooperation and Development (OECD), Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Monthly Oil Statistics data base, 1991-1998.

4. Historical Oil Data Series

1970-1997

Table 4.1a World Crude Oil Production (Including Lease Condensate), 1970-1997
(Thousand Barrels per Day)

| | Algeria | Indo- nesia | Iran | Iraq | Kuwait ^{1/} | Libya | Nigeria | Qatar | Saudi Arabia ^{1/} | United Arab Emirates | Vene- zuela | Total OPEC |
|---------------------|---------|----------------|-------|-------|----------------------|-------|---------|-------|-------------------------------|----------------------------|----------------|---------------|
| 1970 Average..... | 1,029 | 854 | 3,829 | 1,549 | 2,990 | 3,318 | 1,083 | 362 | 3,799 | 780 | 3,708 | 23,301 |
| 1971 Average..... | 785 | 892 | 4,540 | 1,694 | 3,197 | 2,761 | 1,531 | 431 | 4,769 | 1,060 | 3,549 | 25,209 |
| 1972 Average..... | 1,062 | 1,081 | 5,023 | 1,466 | 3,283 | 2,239 | 1,816 | 482 | 6,016 | 1,203 | 3,220 | 26,891 |
| 1973 Average..... | 1,097 | 1,339 | 5,861 | 2,018 | 3,020 | 2,175 | 2,054 | 570 | 7,596 | 1,533 | 3,366 | 30,629 |
| 1974 Average..... | 1,009 | 1,375 | 6,022 | 1,971 | 2,546 | 1,521 | 2,255 | 518 | 8,480 | 1,679 | 2,976 | 30,351 |
| 1975 Average..... | 983 | 1,307 | 5,350 | 2,262 | 2,084 | 1,480 | 1,783 | 438 | 7,075 | 1,664 | 2,346 | 26,771 |
| 1976 Average..... | 1,075 | 1,504 | 5,883 | 2,415 | 2,145 | 1,933 | 2,067 | 497 | 8,577 | 1,936 | 2,294 | 30,327 |
| 1977 Average..... | 1,152 | 1,686 | 5,663 | 2,348 | 1,969 | 2,063 | 2,085 | 445 | 9,245 | 1,999 | 2,238 | 30,893 |
| 1978 Average..... | 1,231 | 1,635 | 5,242 | 2,563 | 2,131 | 1,983 | 1,897 | 487 | 8,301 | 1,831 | 2,165 | 29,464 |
| 1979 Average..... | 1,224 | 1,591 | 3,168 | 3,477 | 2,500 | 2,092 | 2,302 | 508 | 9,532 | 1,831 | 2,356 | 30,581 |
| 1980 Average..... | 1,106 | 1,577 | 1,662 | 2,514 | 1,656 | 1,787 | 2,055 | 472 | 9,900 | 1,709 | 2,168 | 26,606 |
| 1981 Average..... | 1,002 | 1,605 | 1,380 | 1,000 | 1,125 | 1,140 | 1,433 | 405 | 9,815 | 1,474 | 2,102 | 22,481 |
| 1982 Average..... | 987 | 1,339 | 2,214 | 1,012 | 823 | 1,150 | 1,295 | 330 | 6,483 | 1,250 | 1,895 | 18,778 |
| 1983 Average..... | 968 | 1,343 | 2,440 | 1,005 | 1,064 | 1,105 | 1,241 | 295 | 5,086 | 1,149 | 1,801 | 17,497 |
| 1984 Average..... | 1,014 | 1,412 | 2,174 | 1,209 | 1,157 | 1,087 | 1,388 | 394 | 4,663 | 1,146 | 1,798 | 17,442 |
| 1985 Average..... | 1,037 | 1,325 | 2,250 | 1,433 | 1,023 | 1,059 | 1,495 | 301 | 3,388 | 1,193 | 1,677 | 16,181 |
| 1986 Average..... | 945 | 1,390 | 2,035 | 1,690 | 1,419 | 1,034 | 1,467 | 308 | 4,870 | 1,330 | 1,787 | 18,275 |
| 1987 Average..... | 1,048 | 1,343 | 2,298 | 2,079 | 1,585 | 972 | 1,341 | 293 | 4,265 | 1,541 | 1,752 | 18,517 |
| 1988 Average..... | 1,040 | 1,342 | 2,240 | 2,685 | 1,492 | 1,175 | 1,450 | 346 | 5,086 | 1,565 | 1,903 | 20,324 |
| 1989 Average..... | 1,095 | 1,409 | 2,810 | 2,897 | 1,783 | 1,150 | 1,716 | 380 | 5,064 | 1,860 | 1,907 | 22,071 |
| 1990 Average..... | 1,175 | 1,462 | 3,088 | 2,040 | 1,175 | 1,375 | 1,810 | 406 | 6,410 | 2,117 | 2,137 | 23,195 |
| 1991 Average..... | 1,230 | 1,592 | 3,312 | 305 | 190 | 1,483 | 1,892 | 395 | 8,115 | 2,386 | 2,375 | 23,275 |
| 1992 Average..... | 1,214 | 1,504 | 3,429 | 425 | 1,058 | 1,433 | 1,943 | 423 | 8,332 | 2,266 | 2,371 | 24,398 |
| 1993 Average..... | 1,162 | 1,511 | 3,540 | 512 | 1,852 | 1,361 | 1,960 | 413 | 8,198 | 2,159 | 2,450 | 25,119 |
| 1994 Average..... | 1,180 | 1,510 | 3,618 | 553 | 2,025 | 1,378 | 1,931 | 415 | 8,120 | 2,193 | 2,588 | 25,510 |
| 1995 Average..... | 1,202 | 1,503 | 3,643 | 560 | 2,057 | 1,390 | 1,993 | 442 | 8,231 | 2,233 | 2,750 | 26,004 |
| 1996 Average..... | 1,242 | 1,547 | 3,686 | 579 | 2,062 | 1,401 | 2,188 | 510 | 8,218 | 2,278 | 3,053 | 26,764 |
| 1997 Average P..... | 1,277 | 1,546 | 3,664 | 1,187 | 2,083 | 1,446 | 2,317 | 649 | 8,562 | 2,316 | 3,315 | 28,362 |

^{1/} Includes about one-half of the production in the Kuwait-Saudi Arabia Neutral Zone from 1970 through 1989 and beginning in June 1991. Kuwaiti Neutral Zone output was discontinued following Iraq's invasion of Kuwait on August 2, 1990, but was resumed in June 1991. From August 1990 through May 1991, all production in the Neutral Zone was included in the data for Saudi Arabia.

P=Preliminary.

Notes: •OPEC=Organization of Petroleum Exporting Countries.

Sources: See end of Section 4.

Table 4.1b World Crude Oil Production (Including Lease Condensate), 1970-1997
(Thousand Barrels per Day)

| | Norway | United Kingdom | North Sea ^{1/} | Angola | Argentina | Australia | Brazil | Canada | China | Colombia | Ecuador |
|---------------------|--------|----------------|-------------------------|--------|-----------|-----------|--------|--------|-------|----------|---------|
| 1970 Average..... | 0 | 2 | 0 | 112 | 393 | 178 | 167 | 1,263 | 600 | 219 | 4 |
| 1971 Average..... | 6 | 2 | 6 | 93 | 423 | 309 | 174 | 1,348 | 780 | 214 | 4 |
| 1972 Average..... | 33 | 2 | 35 | 140 | 433 | 327 | 167 | 1,532 | 900 | 196 | 78 |
| 1973 Average..... | 32 | 2 | 36 | 162 | 420 | 369 | 169 | 1,798 | 1,090 | 184 | 209 |
| 1974 Average..... | 35 | 2 | 38 | 169 | 414 | 388 | 176 | 1,551 | 1,315 | 168 | 177 |
| 1975 Average..... | 189 | 12 | 202 | 165 | 395 | 409 | 177 | 1,430 | 1,490 | 157 | 161 |
| 1976 Average..... | 279 | 245 | 525 | 108 | 398 | 426 | 167 | 1,314 | 1,670 | 146 | 188 |
| 1977 Average..... | 280 | 768 | 1,055 | 194 | 431 | 431 | 161 | 1,321 | 1,874 | 138 | 183 |
| 1978 Average..... | 356 | 1,082 | 1,446 | 131 | 453 | 432 | 160 | 1,316 | 2,082 | 131 | 202 |
| 1979 Average..... | 403 | 1,568 | 1,976 | 147 | 473 | 441 | 166 | 1,500 | 2,122 | 124 | 214 |
| 1980 Average..... | 528 | 1,622 | 2,151 | 150 | 491 | 380 | 182 | 1,435 | 2,114 | 126 | 204 |
| 1981 Average..... | 501 | 1,811 | 2,322 | 130 | 496 | 394 | 213 | 1,285 | 2,012 | 125 | 211 |
| 1982 Average..... | 520 | 2,065 | 2,617 | 122 | 491 | 370 | 260 | 1,271 | 2,045 | 141 | 211 |
| 1983 Average..... | 614 | 2,291 | 2,965 | 177 | 491 | 416 | 339 | 1,356 | 2,120 | 152 | 237 |
| 1984 Average..... | 697 | 2,480 | 3,250 | 208 | 478 | 492 | 475 | 1,438 | 2,296 | 168 | 258 |
| 1985 Average..... | 788 | 2,530 | 3,417 | 231 | 460 | 575 | 564 | 1,471 | 2,505 | 176 | 281 |
| 1986 Average..... | 870 | 2,539 | 3,547 | 282 | 434 | 520 | 572 | 1,474 | 2,620 | 305 | 293 |
| 1987 Average..... | 1,022 | 2,406 | 3,584 | 360 | 428 | 547 | 566 | 1,535 | 2,690 | 385 | 174 |
| 1988 Average..... | 1,158 | 2,232 | 3,540 | 452 | 449 | 538 | 554 | 1,616 | 2,730 | 378 | 302 |
| 1989 Average..... | 1,554 | 1,802 | 3,515 | 455 | 460 | 490 | 596 | 1,560 | 2,757 | 403 | 279 |
| 1990 Average..... | 1,704 | 1,820 | 3,667 | 475 | 483 | 575 | 631 | 1,553 | 2,774 | 440 | 285 |
| 1991 Average..... | 1,890 | 1,797 | 3,811 | 500 | 485 | 545 | 630 | 1,548 | 2,835 | 419 | 299 |
| 1992 Average..... | 2,229 | 1,825 | 4,182 | 526 | 553 | 535 | 626 | 1,605 | 2,845 | 433 | 321 |
| 1993 Average..... | 2,350 | 1,915 | 4,403 | 509 | 594 | 503 | 643 | 1,679 | 2,890 | 456 | 344 |
| 1994 Average..... | 2,521 | 2,375 | 5,058 | 536 | 650 | 536 | 671 | 1,746 | 2,939 | 450 | 365 |
| 1995 Average..... | 2,768 | 2,489 | 5,400 | 646 | 715 | 562 | 695 | 1,805 | 2,990 | 585 | 392 |
| 1996 Average..... | 3,104 | 2,568 | 5,822 | 709 | 756 | 570 | 795 | 1,837 | 3,131 | 623 | 396 |
| 1997 Average P..... | 3,153 | 2,517 | 5,843 | 720 | 835 | 588 | 833 | 1,893 | 3,200 | 662 | 381 |

^{1/} North Sea includes the United Kingdom Offshore, Norway, Denmark, Netherlands Offshore, and Germany Offshore.
P=Preliminary.

Sources: See end of Section 4.

Table 4.1c World Crude Oil Production (Including Lease Condensate), 1970-1997
(Thousand Barrels per Day)

| | Egypt | Gabon | India | Malaysia | Mexico | Oman | Russia | Former U.S.S.R. | Syria | United States | Other _{1/} | World |
|--------------------|-------|-------|-------|----------|--------|------|--------|--------------------|-------|------------------|---------------------|--------|
| 1970 Average..... | 326 | 109 | 144 | 18 | 487 | 332 | -- | 6,985 | 80 | 9,637 | 1,529 | 45,886 |
| 1971 Average..... | 293 | 115 | 143 | 69 | 486 | 294 | -- | 7,475 | 100 | 9,463 | 1,518 | 48,518 |
| 1972 Average..... | 231 | 125 | 156 | 93 | 505 | 282 | -- | 7,890 | 124 | 9,441 | 1,592 | 51,138 |
| 1973 Average..... | 165 | 150 | 147 | 91 | 465 | 293 | -- | 8,324 | 105 | 9,208 | 1,667 | 55,679 |
| 1974 Average..... | 150 | 202 | 156 | 81 | 571 | 290 | -- | 8,912 | 124 | 8,774 | 1,711 | 55,716 |
| 1975 Average..... | 235 | 223 | 165 | 98 | 705 | 343 | -- | 9,523 | 170 | 8,375 | 1,636 | 52,828 |
| 1976 Average..... | 330 | 223 | 175 | 165 | 831 | 366 | -- | 10,060 | 175 | 8,132 | 1,620 | 57,344 |
| 1977 Average..... | 415 | 222 | 199 | 184 | 981 | 341 | -- | 10,603 | 188 | 8,245 | 1,655 | 59,707 |
| 1978 Average..... | 485 | 209 | 226 | 217 | 1,209 | 315 | -- | 11,105 | 170 | 8,707 | 1,706 | 60,158 |
| 1979 Average..... | 525 | 203 | 245 | 283 | 1,461 | 295 | -- | 11,384 | 166 | 8,552 | 1,821 | 62,674 |
| 1980 Average..... | 595 | 175 | 182 | 283 | 1,936 | 282 | -- | 11,706 | 164 | 8,597 | 1,842 | 59,600 |
| 1981 Average..... | 598 | 151 | 325 | 264 | 2,313 | 319 | -- | 11,850 | 166 | 8,572 | 1,859 | 56,076 |
| 1982 Average..... | 670 | 156 | 390 | 306 | 2,748 | 324 | -- | 11,912 | 160 | 8,649 | 1,892 | 53,481 |
| 1983 Average..... | 727 | 157 | 480 | 365 | 2,689 | 375 | -- | 11,972 | 167 | 8,688 | 1,946 | 53,256 |
| 1984 Average..... | 822 | 157 | 519 | 440 | 2,780 | 414 | -- | 11,861 | 170 | 8,879 | 2,015 | 54,489 |
| 1985 Average..... | 887 | 172 | 620 | 440 | 2,745 | 498 | -- | 11,585 | 178 | 8,971 | 2,124 | 53,982 |
| 1986 Average..... | 813 | 166 | 630 | 504 | 2,435 | 560 | -- | 11,895 | 194 | 8,680 | 2,166 | 56,227 |
| 1987 Average..... | 896 | 155 | 609 | 497 | 2,548 | 582 | -- | 12,050 | 230 | 8,349 | 2,120 | 56,666 |
| 1988 Average..... | 848 | 159 | 635 | 540 | 2,512 | 617 | -- | 12,053 | 265 | 8,140 | 2,235 | 58,737 |
| 1989 Average..... | 865 | 208 | 700 | 585 | 2,520 | 641 | -- | 11,715 | 340 | 7,613 | 2,249 | 59,863 |
| 1990 Average..... | 873 | 270 | 660 | 619 | 2,553 | 685 | -- | 10,975 | 388 | 7,355 | 2,253 | 60,566 |
| 1991 Average..... | 874 | 294 | 615 | 646 | 2,680 | 700 | -- | 9,992 | 492 | 7,417 | 2,274 | 60,207 |
| 1992 Average..... | 881 | 298 | 561 | 653 | 2,669 | 740 | 7,632 | -- | 481 | 7,171 | 3,228 | 60,212 |
| 1993 Average..... | 890 | 313 | 534 | 640 | 2,673 | 776 | 6,730 | -- | 554 | 6,847 | 3,280 | 60,238 |
| 1994 Average..... | 896 | 329 | 590 | 645 | 2,685 | 810 | 6,135 | -- | 560 | 6,662 | 3,382 | 60,992 |
| 1995 Average..... | 920 | 365 | 703 | 682 | 2,618 | 851 | 5,995 | -- | 575 | 6,560 | 3,410 | 62,331 |
| 1996 Average..... | 922 | 368 | 651 | 695 | 2,855 | 883 | 5,850 | -- | 604 | 6,465 | 3,509 | 64,054 |
| 1997 Average P.... | 874 | 368 | 675 | 746 | 3,023 | 887 | 5,884 | -- | 561 | 6,452 | 3,706 | 66,317 |

_{1/} Other is a calculated total derived from the difference between "World" and the sum of production in "Total OPEC" (Table 1.1a) and all other countries listed (Tables 1.1b and 1.1c). The total "North Sea" is not subtracted from the world total, though Norway and the United Kingdom have been subtracted.

-- = Not applicable. P=Preliminary.

Sources: See end of Section 4.

Table 4.2 OPEC Crude Oil Production (Excluding Condensate), 1980-1997
(Thousand Barrels per Day)

| | Algeria | Indo- nesia | Iran | Iraq | Kuwait ^{1/} | Libya | Nigeria | Qatar | Saudi Arabia ^{1/} | United Arab Emirates | Vene- zuela | Total OPEC |
|-----------------|---------|----------------|-------|-------|----------------------|-------|---------|-------|-------------------------------|----------------------------|----------------|---------------|
| 1980 Average... | 1,006 | 1,497 | 1,662 | 2,514 | 1,656 | 1,787 | 2,045 | 472 | 9,900 | 1,704 | 2,147 | 26,390 |
| 1981 Average... | 802 | 1,513 | 1,380 | 1,000 | 1,125 | 1,140 | 1,423 | 405 | 9,815 | 1,469 | 2,083 | 22,155 |
| 1982 Average... | 712 | 1,247 | 2,214 | 1,012 | 823 | 1,150 | 1,285 | 330 | 6,483 | 1,215 | 1,878 | 18,349 |
| 1983 Average... | 648 | 1,245 | 2,440 | 1,005 | 1,064 | 1,105 | 1,231 | 295 | 5,086 | 1,109 | 1,768 | 16,996 |
| 1984 Average... | 694 | 1,279 | 2,174 | 1,209 | 1,157 | 1,087 | 1,368 | 394 | 4,663 | 1,091 | 1,689 | 16,805 |
| 1985 Average... | 702 | 1,181 | 2,250 | 1,433 | 1,023 | 1,059 | 1,475 | 301 | 3,388 | 1,133 | 1,558 | 15,503 |
| 1986 Average... | 600 | 1,257 | 2,035 | 1,690 | 1,419 | 1,034 | 1,447 | 308 | 4,870 | 1,270 | 1,645 | 17,575 |
| 1987 Average... | 648 | 1,189 | 2,298 | 2,079 | 1,585 | 972 | 1,291 | 293 | 4,265 | 1,441 | 1,587 | 17,648 |
| 1988 Average... | 640 | 1,177 | 2,240 | 2,685 | 1,492 | 1,175 | 1,400 | 346 | 5,086 | 1,465 | 1,715 | 19,421 |
| 1989 Average... | 690 | 1,231 | 2,810 | 2,897 | 1,783 | 1,150 | 1,666 | 380 | 5,064 | 1,783 | 1,747 | 21,201 |
| 1990 Average... | 765 | 1,281 | 3,088 | 2,040 | 1,175 | 1,375 | 1,755 | 406 | 6,410 | 2,066 | 2,097 | 22,458 |
| 1991 Average... | 800 | 1,410 | 3,312 | 305 | 190 | 1,483 | 1,832 | 395 | 8,115 | 2,326 | 2,338 | 22,506 |
| 1992 Average... | 772 | 1,326 | 3,429 | 425 | 1,058 | 1,433 | 1,820 | 423 | 8,332 | 2,206 | 2,334 | 23,558 |
| 1993 Average... | 747 | 1,327 | 3,540 | 512 | 1,852 | 1,361 | 1,835 | 413 | 8,198 | 2,109 | 2,410 | 24,304 |
| 1994 Average... | 750 | 1,334 | 3,600 | 548 | 2,034 | 1,378 | 1,887 | 409 | 8,147 | 2,183 | 2,542 | 24,812 |
| 1995 Average .. | 767 | 1,343 | 3,608 | 550 | 2,057 | 1,390 | 1,876 | 449 | 8,231 | 2,197 | 2,710 | 25,179 |
| 1996 Average .. | 812 | 1,367 | 3,651 | 579 | 2,062 | 1,401 | 2,051 | 475 | 8,218 | 2,198 | 3,013 | 25,826 |
| 1997 Average P. | 847 | 1,366 | 3,629 | 1,182 | 2,083 | 1,446 | 2,217 | 614 | 8,562 | 2,236 | 3,275 | 27,457 |

^{1/} Includes about one-half of the production in the Kuwait-Saudi Arabia Neutral Zone from 1980 through July 1990 and beginning in June 1991. Kuwaiti Neutral Zone output was discontinued following Iraq's invasion of Kuwait on August 2, 1990, but was resumed in June 1991. From August 1990 through May 1991, all production in the Neutral Zone was included in the data for Saudi Arabia.

P=Preliminary.

Note: OPEC=Organization of Petroleum Exporting Countries. See Appendix A for Countries in this group.

Sources: See end of Section 4.

Table 4.3 World Natural Gas Plant Liquids Production, 1970-1997
(Thousand Barrels per Day)

| | Algeria | Canada | Mexico | Saudi Arabia | Russia | Former USSR | United States ^{1/} | Persian Gulf ^{2/} | OAPEC ^{3/} | OPEC ^{3/} | World |
|--------------------|---------|--------|--------|-----------------|--------|----------------|--------------------------------|-------------------------------|---------------------|--------------------|-------|
| 1970 Average..... | 3 | 200 | 58 | 50 | -- | 120 | 1,660 | 119 | 137 | 205 | 2,383 |
| 1971 Average..... | 4 | 234 | 59 | 50 | -- | 135 | 1,693 | 138 | 147 | 243 | 2,508 |
| 1972 Average..... | 4 | 293 | 61 | 55 | -- | 155 | 1,744 | 155 | 159 | 275 | 2,676 |
| 1973 Average..... | 9 | 314 | 75 | 90 | -- | 170 | 1,738 | 191 | 196 | 324 | 2,785 |
| 1974 Average..... | 12 | 314 | 80 | 130 | -- | 190 | 1,688 | 231 | 219 | 347 | 2,789 |
| 1975 Average..... | 20 | 309 | 80 | 140 | -- | 205 | 1,633 | 246 | 252 | 372 | 2,790 |
| 1976 Average..... | 24 | 289 | 95 | 185 | -- | 220 | 1,603 | 291 | 313 | 442 | 2,865 |
| 1977 Average..... | 19 | 290 | 105 | 215 | -- | 235 | 1,618 | 335 | 366 | 482 | 2,982 |
| 1978 Average..... | 25 | 281 | 115 | 250 | -- | 255 | 1,567 | 410 | 447 | 566 | 3,078 |
| 1979 Average..... | 30 | 331 | 150 | 303 | -- | 270 | 1,584 | 458 | 535 | 637 | 3,285 |
| 1980 Average..... | 36 | 331 | 193 | 369 | -- | 285 | 1,573 | 534 | 618 | 732 | 3,444 |
| 1981 Average..... | 49 | 330 | 241 | 433 | -- | 300 | 1,609 | 599 | 691 | 825 | 3,625 |
| 1982 Average..... | 58 | 318 | 255 | 430 | -- | 315 | 1,550 | 612 | 721 | 842 | 3,626 |
| 1983 Average..... | 56 | 309 | 265 | 330 | -- | 330 | 1,559 | 552 | 655 | 780 | 3,635 |
| 1984 Average..... | 105 | 336 | 257 | 355 | -- | 340 | 1,630 | 604 | 761 | 869 | 3,869 |
| 1985 Average..... | 120 | 337 | 271 | 375 | -- | 350 | 1,609 | 645 | 808 | 892 | 3,938 |
| 1986 Average..... | 120 | 328 | 352 | 385 | -- | 440 | 1,551 | 700 | 860 | 969 | 4,150 |
| 1987 Average..... | 140 | 367 | 338 | 418 | -- | 430 | 1,595 | 721 | 900 | 1,006 | 4,279 |
| 1988 Average..... | 120 | 381 | 370 | 499 | -- | 450 | 1,625 | 808 | 979 | 1,077 | 4,481 |
| 1989 Average..... | 130 | 410 | 384 | 503 | -- | 425 | 1,546 | 851 | 1,041 | 1,188 | 4,502 |
| 1990 Average..... | 130 | 426 | 428 | 620 | -- | 425 | 1,559 | 930 | 1,107 | 1,281 | 4,632 |
| 1991 Average..... | 140 | 431 | 457 | 680 | -- | 420 | 1,659 | 931 | 1,113 | 1,299 | 4,827 |
| 1992 Average..... | 140 | 460 | 454 | 713 | 230 | -- | 1,697 | 1,003 | 1,185 | 1,364 | 4,975 |
| 1993 Average..... | 145 | 506 | 459 | 704 | 220 | -- | 1,736 | 1,040 | 1,238 | 1,435 | 5,181 |
| 1994 Average..... | 140 | 529 | 461 | 698 | 200 | -- | 1,727 | 1,071 | 1,267 | 1,465 | 5,293 |
| 1995 Average..... | 145 | 581 | 447 | 701 | 180 | -- | 1,762 | 1,106 | 1,301 | 1,506 | 5,485 |
| 1996 Average..... | 150 | 596 | 423 | 697 | 185 | -- | 1,830 | 1,082 | 1,295 | 1,501 | 5,582 |
| 1997 Average P.... | 145 | 631 | 386 | 723 | 200 | -- | 1,817 | 1,108 | 1,310 | 1,488 | 5,571 |

^{1/} U.S. geographic coverage is the 50 States and the District of Columbia.

^{2/} See Appendix A for countries in this group.

^{3/} OAPEC=Organization of Arab Petroleum Exporting Countries. OPEC=Organization of Petroleum Exporting Countries.
See Appendix A for countries in these groups.

P=Preliminary.

Sources: See end of Section 4.

Table 4.4 World Oil Supply, 1970-1997
(Thousand Barrels per Day)

| | United States ^{1/} | Persian Gulf ^{2/} | OAPEC ^{3/} | OPEC ^{3/} | World |
|---------------------|--------------------------------|-------------------------------|---------------------|--------------------|--------|
| 1970 Average..... | 11,673 | 13,541 | 14,571 | 23,567 | 48,986 |
| 1971 Average..... | 11,554 | 15,940 | 15,427 | 25,514 | 51,766 |
| 1972 Average..... | 11,601 | 17,734 | 16,451 | 27,228 | 54,574 |
| 1973 Average..... | 11,428 | 20,895 | 18,656 | 31,015 | 59,300 |
| 1974 Average..... | 10,978 | 21,550 | 18,399 | 30,762 | 59,391 |
| 1975 Average..... | 10,505 | 19,223 | 16,831 | 27,218 | 56,511 |
| 1976 Average..... | 10,251 | 21,847 | 19,563 | 30,841 | 61,121 |
| 1977 Average..... | 10,437 | 22,098 | 20,372 | 31,443 | 63,665 |
| 1978 Average..... | 10,820 | 21,067 | 19,819 | 30,120 | 64,225 |
| 1979 Average..... | 10,707 | 21,569 | 22,575 | 31,300 | 66,973 |
| 1980 Average..... | 10,809 | 18,541 | 20,715 | 27,419 | 64,152 |
| 1981 Average..... | 10,739 | 15,894 | 17,619 | 23,393 | 60,761 |
| 1982 Average..... | 10,783 | 12,815 | 13,786 | 19,702 | 58,225 |
| 1983 Average..... | 10,788 | 11,676 | 12,416 | 18,352 | 58,054 |
| 1984 Average..... | 11,107 | 11,433 | 12,619 | 18,389 | 59,644 |
| 1985 Average..... | 11,192 | 10,320 | 11,498 | 17,151 | 59,262 |
| 1986 Average..... | 10,905 | 12,441 | 13,653 | 19,310 | 61,769 |
| 1987 Average..... | 10,648 | 12,869 | 13,992 | 19,589 | 62,427 |
| 1988 Average..... | 10,473 | 14,310 | 15,662 | 21,465 | 64,705 |
| 1989 Average..... | 9,880 | 15,733 | 16,658 | 23,323 | 65,892 |
| 1990 Average..... | 9,677 | 16,249 | 17,232 | 24,536 | 66,754 |
| 1991 Average..... | 9,883 | 15,704 | 16,747 | 24,625 | 66,632 |
| 1992 Average..... | 9,768 | 17,010 | 17,871 | 25,818 | 66,960 |
| 1993 Average..... | 9,602 | 17,792 | 18,505 | 26,610 | 67,361 |
| 1994 Average..... | 9,413 | 18,072 | 18,745 | 27,031 | 68,250 |
| 1995 Average..... | 9,400 | 18,351 | 19,069 | 27,566 | 69,860 |
| 1996 Average..... | 9,445 | 18,486 | 19,259 | 28,321 | 71,764 |
| 1997 Average P..... | 9,461 | 19,641 | 20,407 | 29,905 | 74,091 |

^{1/} U.S. geographic coverage is the 50 States and the District of Columbia.

^{2/} See Appendix A for countries in this group.

^{3/} OAPEC=Organization of Arab Petroleum Exporting Countries. OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in these groups.

P=Preliminary.

Note: Oil Supply includes crude oil, natural gas plant liquids, other liquids, and refinery gain. See Explanatory Note 1 in Appendix B.

Sources: See end of Section 4.

Table 4.5 Oil Stocks in OECD Countries, End of Year
(Million Barrels)

| | France | Italy | Germany ^{1/} | United Kingdom | OECD Europe ^{2/} | United States ^{3/} | Canada | Japan | Other ^{4/} | Total OECD |
|---------------------|--------|-------|-----------------------|----------------|---------------------------|-----------------------------|--------|-------|---------------------|------------|
| 1973 December..... | 201 | 152 | 181 | 156 | 1,070 | 1,008 | 140 | 303 | 67 | 2,588 |
| 1974 December..... | 249 | 167 | 213 | 191 | 1,227 | 1,074 | 145 | 370 | 64 | 2,880 |
| 1975 December..... | 225 | 143 | 187 | 165 | 1,154 | 1,133 | 174 | 375 | 67 | 2,903 |
| 1976 December..... | 234 | 143 | 208 | 165 | 1,205 | 1,112 | 153 | 380 | 68 | 2,918 |
| 1977 December..... | 239 | 161 | 225 | 148 | 1,268 | 1,312 | 167 | 409 | 68 | 3,224 |
| 1978 December..... | 201 | 154 | 238 | 157 | 1,219 | 1,278 | 144 | 413 | 68 | 3,122 |
| 1979 December..... | 226 | 163 | 272 | 169 | 1,353 | 1,341 | 150 | 460 | 75 | 3,379 |
| 1980 December..... | 243 | 170 | 319 | 168 | 1,464 | 1,392 | 164 | 495 | 72 | 3,587 |
| 1981 December..... | 214 | 167 | 297 | 143 | 1,337 | 1,484 | 161 | 482 | 67 | 3,531 |
| 1982 December..... | 193 | 179 | 272 | 125 | 1,258 | 1,430 | 136 | 484 | 68 | 3,376 |
| 1983 December..... | 153 | 149 | 249 | 118 | 1,142 | 1,454 | 121 | 470 | 68 | 3,255 |
| 1984 December..... | 152 | 159 | 239 | 112 | 1,130 | 1,556 | 128 | 479 | 69 | 3,362 |
| 1985 December..... | 139 | 157 | 233 | 123 | 1,092 | 1,519 | 113 | 494 | 66 | 3,284 |
| 1986 December..... | 127 | 155 | 252 | 124 | 1,133 | 1,593 | 111 | 509 | 72 | 3,418 |
| 1987 December..... | 127 | 169 | 259 | 121 | 1,130 | 1,607 | 126 | 540 | 71 | 3,474 |
| 1988 December..... | 140 | 155 | 266 | 112 | 1,118 | 1,597 | 116 | 538 | 71 | 3,440 |
| 1989 December..... | 138 | 164 | 271 | 118 | 1,133 | 1,581 | 114 | 577 | 71 | 3,476 |
| 1990 December..... | 140 | 172 | 265 | 112 | 1,163 | 1,621 | 121 | 590 | 73 | 3,568 |
| 1991 December..... | 153 | 160 | 288 | 119 | 1,181 | 1,617 | 119 | 606 | 65 | 3,588 |
| 1992 December..... | 146 | 174 | 310 | 113 | 1,219 | 1,592 | 107 | 603 | 67 | 3,588 |
| 1993 December..... | 158 | 163 | 309 | 118 | 1,221 | 1,647 | 105 | 618 | 69 | 3,661 |
| 1994 December | 158 | 164 | 312 | 115 | 1,240 | 1,653 | 119 | 645 | 69 | 3,726 |
| 1995 December | 159 | 162 | 301 | 107 | 1,228 | 1,563 | 109 | 630 | 71 | 3,601 |
| 1996 December | 158 | 152 | 300 | 108 | 1,256 | 1,507 | 103 | 651 | 74 | 3,591 |
| 1997 December P.... | 164 | 147 | 298 | 105 | 1,256 | 1,560 | 115 | 685 | 74 | 3,689 |

^{1/} Data through December 1990 are for the former West Germany. Beginning with January 1991, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

^{2/} "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

^{3/} U.S. geographic coverage is the 50 States and the District of Columbia. In the United States in January 1975, 1981, and 1983, numerous respondents were added to bulk terminal and pipeline surveys affecting subsequent stocks reported. Using the new basis, the end-of-year U.S. stocks, in million barrels, would have been 1,121 in 1974, 1,425 in 1980, and 1,461 in 1982.

^{4/} "Other" consists of Australia, New Zealand, and the U.S. Territories.

P=Preliminary.

Note: Oil Stocks - See Explanatory Note 2 in Appendix B.

Sources: See end of Section 4.

Table 4.6 World Oil Demand, 1970-1997
(Thousand Barrels per Day)

| | France | Italy | Germany ^{1/} | United Kingdom | OECD Europe ^{2/} | United States ^{3/} | Canada | Japan | Other ^{4/} | OECD Excluding East Germany | East Germany | OECD Including East Germany | World Total |
|-----------------|--------|-------|-----------------------|----------------|---------------------------|-----------------------------|--------|-------|---------------------|-----------------------------|--------------|-----------------------------|-------------|
| 1970 Average... | 1,937 | 1,710 | 2,607 | 2,096 | 12,404 | 14,697 | 1,516 | 3,817 | 836 | 33,270 | 223 | 33,493 | 46,808 |
| 1971 Average... | 2,115 | 1,838 | 2,702 | 2,141 | 13,005 | 15,213 | 1,565 | 4,142 | 831 | 34,755 | 238 | 34,993 | 49,416 |
| 1972 Average... | 2,322 | 1,947 | 2,859 | 2,284 | 13,934 | 16,367 | 1,664 | 4,363 | 948 | 37,275 | 270 | 37,545 | 53,094 |
| 1973 Average... | 2,601 | 2,068 | 3,055 | 2,341 | 14,925 | 17,308 | 1,729 | 4,949 | 988 | 39,900 | 282 | 40,182 | 57,237 |
| 1974 Average... | 2,447 | 2,004 | 2,748 | 2,210 | 13,988 | 16,653 | 1,779 | 4,864 | 1,095 | 38,379 | 307 | 38,686 | 56,677 |
| 1975 Average... | 2,252 | 1,855 | 2,650 | 1,911 | 13,217 | 16,322 | 1,779 | 4,621 | 1,041 | 36,980 | 307 | 37,287 | 56,198 |
| 1976 Average... | 2,420 | 1,971 | 2,877 | 1,892 | 14,124 | 17,461 | 1,818 | 4,837 | 1,119 | 39,358 | 329 | 39,687 | 59,673 |
| 1977 Average... | 2,294 | 1,897 | 2,865 | 1,905 | 13,916 | 18,431 | 1,850 | 4,880 | 1,160 | 40,237 | 347 | 40,584 | 61,826 |
| 1978 Average... | 2,408 | 1,952 | 2,927 | 1,938 | 14,290 | 18,847 | 1,902 | 4,945 | 1,204 | 41,187 | 363 | 41,550 | 64,158 |
| 1979 Average... | 2,463 | 2,039 | 3,003 | 1,971 | 14,667 | 18,513 | 1,971 | 5,050 | 1,178 | 41,379 | 369 | 41,748 | 65,220 |
| 1980 Average... | 2,256 | 1,934 | 2,707 | 1,725 | 13,634 | 17,056 | 1,873 | 4,960 | 1,072 | 38,595 | 375 | 38,970 | 63,067 |
| 1981 Average... | 2,023 | 1,874 | 2,449 | 1,590 | 12,515 | 16,058 | 1,768 | 4,848 | 1,080 | 36,269 | 355 | 36,624 | 60,903 |
| 1982 Average... | 1,880 | 1,781 | 2,372 | 1,590 | 12,053 | 15,296 | 1,578 | 4,582 | 1,008 | 34,517 | 371 | 34,888 | 59,503 |
| 1983 Average... | 1,835 | 1,750 | 2,324 | 1,531 | 11,765 | 15,231 | 1,448 | 4,395 | 953 | 33,793 | 336 | 34,129 | 58,739 |
| 1984 Average... | 1,754 | 1,646 | 2,322 | 1,849 | 11,736 | 15,726 | 1,472 | 4,576 | 990 | 34,500 | 340 | 34,840 | 59,831 |
| 1985 Average... | 1,775 | 1,717 | 2,338 | 1,634 | 11,681 | 15,726 | 1,504 | 4,384 | 976 | 34,271 | 362 | 34,633 | 60,091 |
| 1986 Average... | 1,772 | 1,738 | 2,498 | 1,649 | 12,102 | 16,281 | 1,506 | 4,439 | 951 | 35,279 | 362 | 35,641 | 61,759 |
| 1987 Average... | 1,789 | 1,855 | 2,424 | 1,603 | 12,255 | 16,665 | 1,548 | 4,484 | 959 | 35,911 | 342 | 36,253 | 62,999 |
| 1988 Average... | 1,797 | 1,836 | 2,422 | 1,697 | 12,427 | 17,283 | 1,693 | 4,752 | 939 | 37,093 | 322 | 37,415 | 64,819 |
| 1989 Average... | 1,857 | 1,930 | 2,280 | 1,738 | 12,531 | 17,325 | 1,733 | 4,983 | 998 | 37,570 | 300 | 37,871 | 65,917 |
| 1990 Average... | 1,818 | 1,872 | 2,382 | 1,752 | 12,629 | 16,988 | 1,690 | 5,140 | 1,027 | 37,475 | 282 | 37,758 | 65,985 |
| 1991 Average... | 1,935 | 1,863 | 2,828 | 1,801 | 13,391 | 16,714 | 1,622 | 5,284 | 1,056 | -- | -- | 38,067 | 66,577 |
| 1992 Average... | 1,926 | 1,937 | 2,843 | 1,803 | 13,605 | 17,033 | 1,643 | 5,446 | 1,041 | -- | -- | 38,768 | 66,742 |
| 1993 Average... | 1,875 | 1,852 | 2,900 | 1,815 | 13,523 | 17,237 | 1,688 | 5,401 | 1,118 | -- | -- | 38,967 | 67,043 |
| 1994 Average... | 1,833 | 1,841 | 2,879 | 1,837 | 13,597 | 17,718 | 1,727 | 5,674 | 1,174 | -- | -- | 39,890 | 68,313 |
| 1995 Average... | 1,896 | 2,048 | 2,875 | 1,845 | 14,120 | 17,725 | 1,755 | 5,711 | 1,243 | -- | -- | 40,553 | 69,926 |
| 1996 Average... | 1,935 | 2,058 | 2,911 | 1,845 | 14,269 | 18,309 | 1,797 | 5,867 | 1,191 | -- | -- | 41,432 | 71,524 |
| 1997 Average P. | 1,955 | 2,045 | R2,904 | 1,799 | R14,439 | 18,620 | 1,858 | 5,711 | 1,138 | -- | -- | R41,766 | R73,213 |

1/ Data through 1990 are for the former West Germany. Beginning with January 1991, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

2/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

3/ U.S. geographic coverage is the 50 States and the District of Columbia.

4/ "Other" consists of Australia, New Zealand, and the U.S. Territories.

P=Preliminary. R=Revised data. --=Not Applicable.

Note: The term Demand is used interchangeably with Consumption and Petroleum Products Supplied. See Appendix C for definition.

Sources: See end of Section 4.

Table 4.7 OECD Total Net Imports, 1987-1997
(Million Barrels per Day)

| | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|----------------------------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | Average | | | | | | | | | | |
| Total..... | 18.008 | 18.706 | 20.082 | 20.456 | 20.414 | 20.783 | 21.226 | 21.133 | 20.717 | 21.455 | 21.819 |
| United States ¹ /.... | 5.914 | 6.587 | 7.202 | 7.161 | 6.626 | 6.938 | 7.618 | 8.054 | 7.886 | 8.498 | 9.158 |
| Canada..... | -.358 | -.585 | -.462 | -.425 | -.479 | -.546 | -.586 | -.623 | -.756 | -.803 | -.816 |
| OECD Europe ² /..... | 7.742 | 7.774 | 7.994 | 8.210 | 8.588 | 8.459 | 8.127 | 7.355 | 7.226 | 7.339 | 7.340 |
| Main European Importers | | | | | | | | | | | |
| France..... | 1.742 | 1.718 | 1.711 | 1.750 | 1.869 | 1.784 | 1.761 | 1.615 | 1.721 | 1.738 | 1.769 |
| Germany ³ /..... | 2.281 | 2.279 | 2.112 | 2.202 | 2.664 | 2.739 | 2.723 | 2.731 | 2.699 | 2.793 | 2.804 |
| Italy..... | 1.718 | 1.590 | 1.716 | 1.788 | 1.769 | 1.839 | 1.747 | 1.778 | 1.820 | 1.791 | 1.795 |
| Netherlands..... | .562 | .646 | .635 | .677 | .690 | .713 | .688 | .720 | .700 | .763 | .773 |
| Spain..... | .803 | .869 | .952 | .950 | .951 | .998 | 1.066 | 1.119 | 1.202 | 1.183 | 1.273 |
| European Net Exporters | | | | | | | | | | | |
| Norway..... | -.866 | -1.036 | -1.420 | -1.543 | -1.825 | -2.102 | -2.254 | -2.586 | -2.794 | -3.150 | -3.176 |
| United Kingdom.... | -1.015 | -.760 | -.200 | -.214 | -.158 | -.221 | -.355 | -.850 | -.969 | -.839 | -.968 |
| Smaller European Importers | | | | | | | | | | | |
| Austria..... | .194 | .185 | .191 | .201 | .212 | .209 | .205 | .210 | .194 | .213 | .223 |
| Belgium..... | .443 | .451 | .454 | .442 | .506 | .517 | .503 | .517 | .495 | .572 | .590 |
| Denmark..... | .122 | .107 | .078 | .063 | .048 | .032 | .023 | .027 | .039 | .028 | -.006 |
| Ireland..... | .081 | .076 | .079 | .095 | .094 | .097 | .102 | .109 | .116 | .124 | .133 |
| Finland..... | .242 | .200 | .220 | .208 | .211 | .188 | .182 | .234 | .145 | .180 | .186 |
| Greece..... | .230 | .242 | .252 | .273 | .297 | .326 | .327 | .292 | .343 | .350 | .361 |
| Iceland..... | .013 | .012 | .011 | .011 | .012 | .011 | .014 | .015 | .015 | .015 | .016 |
| Luxembourg..... | .028 | .028 | .031 | .034 | .039 | .040 | .039 | .040 | .036 | .039 | .040 |
| Portugal..... | .199 | .198 | .246 | .250 | .258 | .279 | .272 | .270 | .291 | .274 | .296 |
| Sweden..... | .309 | .313 | .290 | .324 | .312 | .320 | .335 | .362 | .356 | .405 | .371 |
| Switzerland..... | .254 | .258 | .254 | .273 | .273 | .277 | .250 | .262 | .248 | .260 | .269 |
| Turkey..... | .402 | .397 | .384 | .425 | .366 | .413 | .500 | .490 | .569 | .600 | .589 |
| Japan..... | 4.418 | 4.680 | 5.035 | 5.239 | 5.286 | 5.464 | 5.467 | 5.766 | 5.716 | 5.790 | 5.819 |
| Other OECD..... | .291 | .250 | .313 | .270 | .392 | .467 | .599 | .580 | .644 | .632 | .318 |

¹/ U.S. geographic coverage is the 50 States and District of Columbia.

²/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

³/ Data through 1990 are for the former West Germany.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports.

•A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day.

•Data for 1995 are preliminary.

Sources: See end of Section 4.

Table 4.8 OECD Imports from OPEC, 1987-1997
(Million Barrels per Day)

| | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|----------------------------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | Average | | | | | | | | | | |
| Total..... | 12.327 | 13.049 | 14.521 | 15.576 | 15.360 | 15.567 | 16.018 | 15.765 | 15.469 | 15.630 | 16.460 |
| United States ¹ /.... | 2.988 | 3.439 | 3.986 | 4.172 | 3.918 | 3.888 | 4.103 | 4.036 | 3.979 | 4.194 | 4.542 |
| Canada..... | .154 | .161 | .205 | .199 | .210 | .210 | .268 | .285 | .257 | .261 | .313 |
| OECD Europe ² /..... | 5.597 | 5.842 | 6.188 | 6.633 | 6.728 | 6.758 | 6.794 | 6.385 | 6.154 | 6.053 | 6.264 |
| Main European Importers | | | | | | | | | | | |
| France..... | .684 | .737 | .875 | 1.101 | 1.021 | .932 | 1.006 | .956 | .911 | .897 | .899 |
| Germany ³ /..... | .675 | .761 | .739 | .771 | .859 | .957 | .948 | .838 | .711 | .660 | .645 |
| Italy..... | 1.307 | 1.191 | 1.260 | 1.375 | 1.393 | 1.343 | 1.222 | 1.117 | 1.203 | 1.244 | 1.353 |
| Netherlands..... | .767 | .850 | .892 | .850 | .900 | .914 | .982 | .906 | .791 | .779 | .775 |
| Spain..... | .543 | .604 | .686 | .652 | .700 | .632 | .582 | .668 | .781 | .775 | .789 |
| European Net Exporters | | | | | | | | | | | |
| Norway..... | .002 | .002 | .003 | .007 | .014 | .004 | .005 | .003 | .003 | .001 | .003 |
| United Kingdom.... | .277 | .322 | .342 | .406 | .377 | .390 | .439 | .306 | .254 | .234 | .199 |
| Smaller European Importers | | | | | | | | | | | |
| Austria..... | .087 | .082 | .086 | .097 | .108 | .115 | .128 | .119 | .057 | .023 | .130 |
| Belgium..... | .257 | .302 | .353 | .313 | .362 | .359 | .359 | .284 | .276 | .284 | .292 |
| Denmark..... | .053 | .067 | .069 | .044 | .006 | .001 | .006 | .008 | .022 | .027 | .031 |
| Ireland..... | .001 | - | - | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| Finland..... | .023 | .011 | .013 | .013 | .029 | .033 | .007 | .004 | .004 | .001 | .006 |
| Greece..... | .279 | .233 | .244 | .340 | .298 | .346 | .303 | .266 | .263 | .280 | .319 |
| Portugal..... | .101 | .118 | .156 | .166 | .139 | .152 | .166 | .227 | .209 | .177 | .188 |
| Sweden..... | .062 | .074 | .064 | .073 | .105 | .116 | .123 | .126 | .109 | .091 | .096 |
| Switzerland..... | .069 | .051 | .021 | .036 | .052 | .051 | .063 | .082 | .083 | .098 | .096 |
| Turkey..... | .411 | .439 | .384 | .388 | .365 | .412 | .452 | .475 | .477 | .483 | .443 |
| Japan..... | 3.198 | 3.309 | 3.788 | 4.062 | 4.026 | 4.198 | 4.245 | 4.495 | 4.467 | 4.470 | 4.699 |
| Other OECD..... | .389 | .298 | .355 | .510 | .478 | .512 | .609 | .563 | .612 | .653 | .642 |

¹/ U.S. geographic coverage is the 50 States and District of Columbia.

²/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

³/ Data through 1990 are for the former West Germany.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development; OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in these groups. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1995 are preliminary.

Sources: See end of Section 4.

Table 4.9 OECD Imports from Persian Gulf, 1987-1997
(Million Barrels per Day)

| | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|-----------------------------------|---------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|
| | Average | | | | | | | | | | |
| Imports from Persian Gulf | | | | | | | | | | | |
| Total..... | 7.392 | 7.941 | 9.121 | 9.667 | 9.249 | 9.456 | 10.029 | 9.609 | 9.310 | 9.215 | 9.932 |
| United States ^{1/} ... | 1.072 | 1.526 | 1.857 | 1.961 | 1.835 | 1.774 | 1.775 | 1.722 | 1.563 | 1.594 | 1.747 |
| Canada..... | .054 | .056 | .069 | .081 | .084 | .092 | .105 | .119 | .070 | .111 | .120 |
| OECD Europe ^{2/} | 3.330 | 3.428 | 3.754 | 3.908 | 3.660 | 3.666 | 4.048 | 3.506 | 3.365 | 3.171 | 3.470 |
| Main European Importers | | | | | | | | | | | |
| France..... | .459 | .484 | .647 | .864 | .708 | .640 | .757 | .651 | .647 | .573 | .617 |
| Germany ^{3/} | .187 | .197 | .216 | .217 | .227 | .215 | .250 | .217 | .172 | .145 | .157 |
| Italy..... | .782 | .643 | .619 | .626 | .595 | .573 | .548 | .430 | .494 | .502 | .583 |
| Netherlands..... | .516 | .587 | .663 | .647 | .609 | .650 | .744 | .662 | .563 | .566 | .584 |
| Spain..... | .295 | .306 | .352 | .291 | .281 | .231 | .287 | .275 | .324 | .304 | .359 |
| European Net Exporters | | | | | | | | | | | |
| Norway..... | .002 | - | - | .000 | .011 | .000 | .000 | .000 | .000 | .000 | .000 |
| United Kingdom... | .164 | .212 | .240 | .250 | .222 | .220 | .303 | .174 | .135 | .102 | .094 |
| Smaller European Importers | | | | | | | | | | | |
| Austria..... | .026 | .025 | .022 | .016 | .021 | .031 | .036 | .038 | .035 | .004 | .045 |
| Belgium..... | .162 | .224 | .277 | .250 | .279 | .292 | .291 | .232 | .252 | .263 | .259 |
| Denmark..... | .047 | .063 | .067 | .043 | .004 | .000 | .002 | .000 | .000 | .000 | .002 |
| Finland..... | .022 | .011 | .012 | .011 | .021 | .023 | .002 | .002 | .002 | .000 | .000 |
| Greece..... | .211 | .146 | .181 | .268 | .219 | .291 | .253 | .214 | .223 | .235 | .282 |
| Portugal..... | .069 | .066 | .085 | .073 | .067 | .074 | .050 | .117 | .107 | .083 | .106 |
| Sweden..... | .029 | .045 | .043 | .039 | .064 | .068 | .088 | .076 | .068 | .067 | .073 |
| Switzerland..... | .008 | .007 | .007 | .007 | .007 | .007 | .008 | .012 | .007 | .006 | .008 |
| Turkey..... | .348 | .411 | .323 | .307 | .324 | .349 | .429 | .405 | .336 | .320 | .303 |
| Japan..... | 2.637 | 2.691 | 3.173 | 3.394 | 3.370 | 3.586 | 3.721 | 3.946 | 3.979 | 4.025 | 4.304 |
| Other OECD..... | .299 | .241 | .267 | .322 | .300 | .338 | .381 | .316 | .334 | .313 | .291 |

^{1/} U.S. geographic coverage is the 50 States and District of Columbia.

^{2/} "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

^{3/} Data through 1990 are for the former West Germany.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •"Persian Gulf" consists of Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab Emirates. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day.

•Data for 1995 are preliminary.

Sources: See end of Section 4.

Table 4.10 United States--Net Oil Imports, 1987-1997
(Million Barrels per Day)

| | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|---|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Average | | | | | | | | | | |
| Total Net Imports.. | 5.914 | 6.587 | 7.202 | 7.161 | 6.626 | 6.938 | 7.618 | 8.054 | 7.886 | 8.498 | 9.158 |
| Imports from OPEC ^{1/} | 2.988 | 3.439 | 3.986 | 4.172 | 3.918 | 3.888 | 4.103 | 4.036 | 3.979 | 4.194 | 4.542 |
| Imports from Persian Gulf ^{2/} | | | | | | | | | | | |
| Total..... | 1.072 | 1.526 | 1.857 | 1.961 | 1.835 | 1.774 | 1.775 | 1.722 | 1.563 | 1.594 | 1.747 |
| Bahrain..... | -.001 | .000 | -.001 | -.001 | -.001 | -.002 | -.002 | -.002 | -.003 | -.002 | -.002 |
| Iran..... | .098 | .000 | .000 | .000 | .032 | .000 | .000 | .000 | .000 | .000 | .000 |
| Iraq..... | .083 | .343 | .449 | .518 | .000 | .000 | .000 | .000 | .000 | .001 | .089 |
| Kuwait..... | .082 | .092 | .157 | .086 | .006 | .051 | .353 | .312 | .218 | .236 | .253 |
| U.A.E..... | .059 | .028 | .027 | .016 | .001 | .004 | .009 | .011 | .004 | -.003 | -.003 |
| Qatar..... | .000 | .000 | .002 | .004 | .000 | .001 | .001 | .000 | .000 | .000 | .004 |
| Saudi Arabia..... | .751 | 1.063 | 1.224 | 1.339 | 1.797 | 1.720 | 1.414 | 1.402 | 1.344 | 1.363 | 1.406 |
| Imports from OPEC-Africa | | | | | | | | | | | |
| Total..... | .830 | .918 | 1.084 | 1.080 | .956 | .876 | .956 | .880 | .859 | .872 | .979 |
| Algeria..... | .295 | .300 | .269 | .280 | .253 | .196 | .220 | .243 | .234 | .256 | .285 |
| Libya..... | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| Nigeria..... | .535 | .618 | .815 | .800 | .703 | .680 | .736 | .637 | .625 | .616 | .694 |
| Imports from OPEC-South America | | | | | | | | | | | |
| Total..... | .801 | .790 | .861 | 1.016 | 1.020 | 1.161 | 1.295 | 1.322 | 1.468 | 1.667 | 1.758 |
| Venezuela..... | .801 | .790 | .861 | 1.016 | 1.020 | 1.161 | 1.295 | 1.322 | 1.468 | 1.667 | 1.758 |
| Imports from OPEC-Far East | | | | | | | | | | | |
| Total..... | .284 | .205 | .182 | .113 | .106 | .075 | .074 | .109 | .087 | .058 | .057 |
| Indonesia..... | .284 | .205 | .182 | .113 | .106 | .075 | .074 | .109 | .087 | .058 | .057 |

1/ OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

2/ The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •U.S. geographic coverage is the 50 States and District of Columbia. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1995 are preliminary.

Sources: See end of Section 4.

Table 4.11 Japan--Net Oil Imports, 1987-1997
(Million Barrels per Day)

| | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|---|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Average | | | | | | | | | | |
| Total Net Imports.. | 4.418 | 4.680 | 5.035 | 5.239 | 5.286 | 5.464 | 5.467 | 5.766 | 5.716 | 5.790 | 5.819 |
| Imports from OPEC ^{1/} | 3.198 | 3.309 | 3.788 | 4.062 | 4.026 | 4.198 | 4.245 | 4.495 | 4.467 | 4.470 | 4.699 |
| Imports from Persian Gulf ^{2/} | | | | | | | | | | | |
| Total..... | 2.637 | 2.691 | 3.173 | 3.394 | 3.370 | 3.586 | 3.721 | 3.946 | 3.979 | 4.025 | 4.304 |
| Bahrain..... | .037 | .036 | .042 | .037 | .037 | .029 | .025 | .028 | .029 | .033 | .023 |
| Iran..... | .230 | .187 | .291 | .385 | .383 | .362 | .384 | .459 | .399 | .451 | .461 |
| Iraq..... | .105 | .173 | .219 | .146 | .000 | .000 | .000 | .000 | .000 | .000 | .015 |
| Kuwait..... | .347 | .341 | .458 | .291 | .014 | .220 | .368 | .430 | .501 | .500 | .557 |
| U.A.E..... | .773 | .822 | .929 | 1.032 | 1.285 | 1.256 | 1.287 | 1.398 | 1.420 | 1.396 | 1.441 |
| Qatar..... | .139 | .203 | .250 | .263 | .285 | .300 | .330 | .328 | .335 | .335 | .364 |
| Saudi Arabia..... | 1.005 | .930 | .984 | 1.240 | 1.367 | 1.420 | 1.327 | 1.303 | 1.296 | 1.310 | 1.441 |
| Imports from OPEC-Africa | | | | | | | | | | | |
| Total..... | .023 | .044 | .015 | .011 | .011 | .007 | .008 | .017 | .026 | .032 | .036 |
| Algeria..... | .023 | .044 | .015 | .010 | .010 | .007 | .008 | .012 | .011 | .012 | .014 |
| Nigeria..... | - | - | - | .001 | .001 | .000 | .000 | .005 | .016 | .020 | .023 |
| Imports from OPEC-South America | | | | | | | | | | | |
| Total..... | .012 | .011 | .011 | .011 | .010 | .010 | .009 | .009 | .002 | .003 | .003 |
| Venezuela..... | .012 | .011 | .011 | .011 | .010 | .010 | .009 | .009 | .002 | .003 | .003 |
| Imports from OPEC-Far East | | | | | | | | | | | |
| Total..... | .563 | .599 | .631 | .682 | .673 | .624 | .533 | .551 | .488 | .442 | .380 |
| Indonesia..... | .563 | .599 | .631 | .682 | .673 | .624 | .533 | .551 | .488 | .442 | .380 |

^{1/} OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

^{2/} The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include Crude Oil, Natural Gas Liquids, and Refined Products, and are on a direct basis. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1995 are preliminary.

Sources: See end of Section 4.

Table 4.12 OECD Europe--Net Oil Imports, 1987-1997
(Million Barrels per Day)

| | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|-----------------------------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Average | | | | | | | | | | |
| Total Net Imports.. | 7.742 | 7.774 | 7.994 | 8.210 | 8.588 | 8.459 | 8.127 | 7.355 | 7.226 | 7.339 | 7.340 |
| Imports from OPEC ^{1/} / | 5.597 | 5.842 | 6.188 | 6.633 | 6.728 | 6.758 | 6.794 | 6.385 | 6.154 | 6.053 | 6.264 |
| Imports from | | | | | | | | | | | |
| Persian Gulf ^{2/} | | | | | | | | | | | |
| Total..... | 3.330 | 3.428 | 3.754 | 3.908 | 3.660 | 3.666 | 4.048 | 3.506 | 3.365 | 3.171 | 3.470 |
| Bahrain..... | .001 | .009 | .005 | .020 | .002 | .003 | .004 | .003 | .000 | .001 | .001 |
| Iran..... | .732 | .850 | 1.076 | 1.190 | 1.132 | 1.113 | 1.253 | 1.074 | 1.149 | 1.059 | .942 |
| Iraq..... | .905 | .959 | .897 | .591 | .000 | .000 | .001 | .000 | .000 | .006 | .336 |
| Kuwait..... | .469 | .474 | .452 | .346 | .019 | .142 | .461 | .302 | .269 | .288 | .249 |
| U.A.E..... | .206 | .134 | .214 | .446 | .281 | .199 | .092 | .067 | .011 | .004 | .009 |
| Qatar..... | .040 | .021 | .024 | .026 | .009 | .006 | .000 | .000 | .002 | .002 | .000 |
| Saudi Arabia..... | .978 | .981 | 1.086 | 1.290 | 2.217 | 2.203 | 2.237 | 2.060 | 1.933 | 1.811 | 1.933 |
| Imports from OPEC-Africa | | | | | | | | | | | |
| Total..... | 2.058 | 2.198 | 2.224 | 2.509 | 2.818 | 2.818 | 2.491 | 2.644 | 2.500 | 2.644 | 2.572 |
| Algeria..... | .627 | .646 | .648 | .683 | .757 | .772 | .693 | .690 | .724 | .746 | .683 |
| Libya..... | .962 | 1.071 | 1.044 | 1.267 | 1.332 | 1.361 | 1.193 | 1.233 | 1.201 | 1.204 | 1.269 |
| Nigeria..... | .469 | .481 | .532 | .559 | .729 | .686 | .605 | .721 | .575 | .694 | .620 |
| Imports from | | | | | | | | | | | |
| OPEC-South America | | | | | | | | | | | |
| Total..... | .208 | .220 | .212 | .227 | .249 | .268 | .240 | .219 | .273 | .206 | .206 |
| Venezuela..... | .208 | .220 | .212 | .227 | .249 | .268 | .240 | .219 | .273 | .206 | .206 |
| Imports from OPEC-Far East | | | | | | | | | | | |
| Total..... | .002 | .005 | .004 | .008 | .002 | .009 | .019 | .019 | .017 | .033 | .017 |
| Indonesia..... | .002 | .005 | .004 | .008 | .002 | .009 | .019 | .019 | .017 | .033 | .017 |

1/ OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

2/ The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •"OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom. •Negative numbers represent net exports.

•A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1995 are preliminary.

Sources: See end of Section 4.

Table 4.13 France--Net Oil Imports, 1987-1997
(Million Barrels per Day)

| | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|---|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Average | | | | | | | | | | |
| Total Net Imports.. | 1.742 | 1.718 | 1.711 | 1.750 | 1.869 | 1.784 | 1.761 | 1.615 | 1.721 | 1.738 | 1.769 |
| Imports from OPEC ^{1/} | .684 | .737 | .875 | 1.101 | 1.021 | .932 | 1.006 | .956 | .911 | .897 | .899 |
| Imports from Persian Gulf ^{2/} | | | | | | | | | | | |
| Total..... | .459 | .484 | .647 | .864 | .708 | .640 | .757 | .651 | .647 | .573 | .617 |
| Bahrain..... | - | .007 | .002 | .011 | .000 | .001 | .002 | .000 | .000 | .001 | .000 |
| Iran..... | .088 | .012 | .158 | .182 | .171 | .151 | .243 | .156 | .208 | .172 | .127 |
| Iraq..... | .151 | .143 | .128 | .062 | .000 | .000 | .000 | .000 | .000 | .000 | .078 |
| Kuwait..... | .044 | .017 | .021 | .015 | .011 | .029 | .032 | .016 | .022 | .017 | .017 |
| U.A.E..... | - | .017 | .040 | .233 | .064 | .033 | .025 | .003 | .002 | .001 | .000 |
| Qatar..... | .002 | .017 | .009 | .022 | .003 | .002 | .000 | .000 | .000 | .000 | .000 |
| Saudi Arabia..... | .175 | .271 | .288 | .339 | .459 | .424 | .454 | .477 | .416 | .381 | .394 |
| Imports from OPEC-Africa | | | | | | | | | | | |
| Total..... | .212 | .249 | .218 | .233 | .296 | .281 | .242 | .301 | .262 | .323 | .282 |
| Algeria..... | .072 | .079 | .089 | .092 | .107 | .105 | .066 | .089 | .103 | .105 | .131 |
| Libya..... | .064 | .090 | .065 | .079 | .104 | .087 | .063 | .059 | .043 | .051 | .060 |
| Nigeria..... | .076 | .079 | .064 | .062 | .084 | .090 | .112 | .153 | .115 | .168 | .091 |
| Imports from OPEC-South America | | | | | | | | | | | |
| Total..... | .012 | .011 | .012 | .015 | .017 | .011 | .010 | .003 | .002 | .001 | .000 |
| Venezuela..... | .012 | .011 | .012 | .015 | .017 | .011 | .010 | .003 | .002 | .001 | .000 |
| Imports from OPEC-Far East | | | | | | | | | | | |
| Total..... | - | - | .000 | .000 | .001 | .001 | .000 | .000 | .000 | .000 | .000 |
| Indonesia..... | - | - | .000 | .000 | .001 | .001 | .000 | .000 | .000 | .000 | .000 |

1/ OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

2/ The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include Crude Oil, Natural Gas Liquids, and Refined Products, and are on a direct basis. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1995 are preliminary.

Sources: See end of Section 4.

Table 4.14 Germany--Net Oil Imports, 1987-1997
(Million Barrels per Day)

| | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|---|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Average | | | | | | | | | | |
| Total Net Imports.. | 2.281 | 2.279 | 2.112 | 2.202 | 2.664 | 2.739 | 2.723 | 2.731 | 2.699 | 2.793 | 2.804 |
| Imports from OPEC ^{1/} | .675 | .761 | .739 | .771 | .859 | .957 | .948 | .838 | .711 | .660 | .645 |
| Imports from Persian Gulf ^{2/} | | | | | | | | | | | |
| Total..... | .187 | .197 | .216 | .217 | .227 | .215 | .250 | .217 | .172 | .145 | .157 |
| Bahrain..... | - | - | - | - | - | - | .000 | .001 | .000 | .000 | .000 |
| Iran..... | .020 | .051 | .041 | .055 | .053 | .021 | .053 | .040 | .031 | .018 | .023 |
| Iraq..... | .052 | .032 | .009 | .004 | .000 | .000 | .000 | .000 | .000 | .000 | .001 |
| Kuwait..... | .017 | .013 | .022 | .013 | .000 | .009 | .022 | .026 | .015 | .016 | .012 |
| U.A.E..... | .024 | .006 | .023 | .016 | .012 | .002 | .002 | .001 | .000 | .000 | .001 |
| Qatar..... | .001 | .001 | .002 | .003 | .002 | .001 | .000 | .000 | .000 | .000 | .000 |
| Saudi Arabia..... | .072 | .095 | .119 | .125 | .161 | .182 | .173 | .149 | .125 | .111 | .120 |
| Imports from OPEC-Africa | | | | | | | | | | | |
| Total..... | .401 | .472 | .436 | .465 | .524 | .614 | .594 | .543 | .461 | .462 | .442 |
| Algeria..... | .146 | .141 | .106 | .098 | .126 | .183 | .195 | .161 | .135 | .125 | .095 |
| Libya..... | .160 | .237 | .235 | .244 | .262 | .252 | .244 | .244 | .234 | .258 | .246 |
| Nigeria..... | .095 | .095 | .095 | .123 | .136 | .179 | .154 | .139 | .093 | .079 | .101 |
| Imports from OPEC-South America | | | | | | | | | | | |
| Total..... | .086 | .091 | .086 | .088 | .107 | .128 | .105 | .079 | .078 | .053 | .046 |
| Venezuela..... | .086 | .091 | .086 | .088 | .107 | .128 | .105 | .079 | .078 | .053 | .046 |
| Imports from OPEC-Far East | | | | | | | | | | | |
| Total..... | .002 | - | - | .002 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| Indonesia..... | .002 | - | - | .002 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

1/ OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

2/ The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •Data through 1990 are for the former West Germany. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1995 are preliminary.

Sources: See end of Section 4.

Table 4.15 Italy--Net Oil Imports, 1987-1997
(Million Barrels per Day)

| | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|---|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Average | | | | | | | | | | |
| Total Net Imports.. | 1.718 | 1.590 | 1.716 | 1.788 | 1.769 | 1.839 | 1.747 | 1.778 | 1.820 | 1.791 | 1.795 |
| Imports from OPEC ^{1/} | 1.307 | 1.191 | 1.260 | 1.375 | 1.393 | 1.343 | 1.222 | 1.117 | 1.203 | 1.244 | 1.353 |
| Imports from Persian Gulf ^{2/} | | | | | | | | | | | |
| Total..... | .782 | .643 | .619 | .626 | .595 | .573 | .548 | .430 | .494 | .502 | .583 |
| Bahrain..... | .000 | - | .001 | .000 | .001 | .001 | .000 | .000 | .000 | .001 | .000 |
| Iran..... | .141 | .093 | .124 | .192 | .231 | .239 | .221 | .143 | .233 | .263 | .258 |
| Iraq..... | .167 | .198 | .138 | .079 | .000 | .000 | .000 | .000 | .000 | .000 | .033 |
| Kuwait..... | .142 | .118 | .093 | .063 | .000 | .007 | .012 | .001 | .000 | .000 | .000 |
| U.A.E..... | .109 | .060 | .085 | .075 | .044 | .013 | .002 | .000 | .000 | .000 | .000 |
| Qatar..... | .029 | .002 | .008 | .000 | .004 | .001 | .000 | .000 | .002 | .002 | .000 |
| Saudi Arabia..... | .194 | .171 | .171 | .216 | .315 | .312 | .313 | .286 | .260 | .236 | .291 |
| Imports from OPEC-Africa | | | | | | | | | | | |
| Total..... | .489 | .516 | .626 | .740 | .793 | .757 | .653 | .660 | .679 | .714 | .745 |
| Algeria..... | .109 | .108 | .150 | .155 | .155 | .140 | .096 | .099 | .100 | .110 | .086 |
| Libya..... | .342 | .389 | .430 | .556 | .581 | .584 | .542 | .543 | .562 | .580 | .609 |
| Nigeria..... | .038 | .019 | .045 | .029 | .057 | .034 | .015 | .018 | .017 | .025 | .050 |
| Imports from OPEC-South America | | | | | | | | | | | |
| Total..... | .037 | .029 | .014 | .007 | .004 | .005 | .002 | .007 | .014 | .008 | .012 |
| Venezuela..... | .037 | .029 | .014 | .007 | .004 | .005 | .002 | .007 | .014 | .008 | .012 |
| Imports from OPEC-Far East | | | | | | | | | | | |
| Total..... | - | .002 | .002 | .003 | .001 | .009 | .019 | .019 | .015 | .021 | .014 |
| Indonesia..... | - | .002 | .002 | .003 | .001 | .009 | .019 | .019 | .015 | .021 | .014 |

1/ OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

2/ The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include Crude Oil, Natural Gas Liquids, and Refined Products, and are on a direct basis. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1995 are preliminary.

Sources: See end of Section 4.

Table 4.16 OECD Imports from Iraq, 1987-1997
(Million Barrels per Day)

| | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|----------------------------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Average | | | | | | | | | | |
| Total..... | 1.103 | 1.489 | 1.581 | 1.276 | 0.000 | 0.000 | 0.001 | 0.000 | 0.000 | 0.007 | 0.457 |
| United States ¹ /.... | .083 | .343 | .449 | .518 | .000 | .000 | .000 | .000 | .000 | .001 | .089 |
| Canada..... | .010 | .001 | .013 | .011 | .000 | .000 | .000 | .000 | .000 | .000 | .014 |
| OECD Europe ² /..... | .905 | .959 | .897 | .591 | .000 | .000 | .001 | .000 | .000 | .006 | .336 |
| Main European Importers | | | | | | | | | | | |
| France..... | .151 | .143 | .128 | .062 | .000 | .000 | .000 | .000 | .000 | .000 | .078 |
| Germany ³ /..... | .052 | .032 | .009 | .004 | .000 | .000 | .000 | .000 | .000 | .000 | .001 |
| Italy..... | .167 | .198 | .138 | .079 | .000 | .000 | .000 | .000 | .000 | .000 | .033 |
| Netherlands..... | .034 | .039 | .101 | .117 | .000 | .000 | .000 | .000 | .000 | .000 | .024 |
| Spain..... | .080 | .092 | .109 | .063 | .000 | .000 | .000 | .000 | .000 | .002 | .074 |
| European Net Exporters | | | | | | | | | | | |
| United Kingdom.... | .082 | .070 | .034 | .027 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| Smaller European Importers | | | | | | | | | | | |
| Austria..... | .015 | .007 | .000 | .000 | .000 | .000 | .001 | .000 | .000 | .000 | .017 |
| Belgium..... | .049 | .037 | .047 | .029 | .000 | .000 | .000 | .000 | .000 | .000 | .010 |
| Denmark..... | .001 | - | - | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| Greece..... | .065 | .059 | .052 | .044 | .000 | .000 | .000 | .000 | .000 | .000 | .013 |
| Portugal..... | .019 | .029 | .024 | .019 | .000 | .000 | .000 | .000 | .000 | .000 | .011 |
| Sweden..... | .003 | .003 | .005 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| Switzerland..... | .000 | - | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .001 |
| Turkey..... | .188 | .250 | .250 | .146 | .000 | .000 | .000 | .000 | .000 | .003 | .074 |
| Japan..... | .105 | .173 | .219 | .146 | .000 | .000 | .000 | .000 | .000 | .000 | .015 |
| Other OECD..... | .000 | .013 | .003 | .011 | .000 | .000 | .000 | .000 | .000 | .000 | .003 |

¹/ U.S. geographic coverage is the 50 States and District of Columbia.

²/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

³/ Data through 1990 are for the former West Germany.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1995 are preliminary.

Sources: See end of Section 4.

Table 4.17 OECD Imports from Kuwait, 1987-1997
(Million Barrels per Day)

| | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|-----------------------------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Average | | | | | | | | | | |
| Total..... | 0.925 | 0.936 | 1.084 | 0.740 | 0.039 | 0.414 | 1.191 | 1.081 | 0.997 | 1.034 | 1.065 |
| United States ¹ /..... | .082 | .092 | .157 | .086 | .006 | .051 | .353 | .312 | .218 | .236 | .253 |
| Canada..... | - | - | - | .004 | - | - | .000 | .027 | .000 | .000 | .000 |
| OECD Europe ² /..... | .469 | .474 | .452 | .346 | .019 | .142 | .461 | .302 | .269 | .288 | .249 |
| Main European Importers | | | | | | | | | | | |
| France..... | .044 | .017 | .021 | .015 | .011 | .029 | .032 | .016 | .022 | .017 | .017 |
| Germany ³ /..... | .017 | .013 | .022 | .013 | .000 | .009 | .022 | .026 | .015 | .016 | .012 |
| Italy..... | .142 | .118 | .093 | .063 | .000 | .007 | .012 | .001 | .000 | .000 | .000 |
| Netherlands..... | .150 | .189 | .194 | .151 | .002 | .052 | .254 | .179 | .176 | .193 | .168 |
| Spain..... | .015 | .030 | .015 | .010 | .003 | .000 | .015 | .000 | .000 | .000 | .000 |
| European Net Exporters | | | | | | | | | | | |
| Norway..... | - | - | - | - | - | - | .000 | .000 | .000 | .000 | .000 |
| United Kingdom.... | .011 | .006 | .006 | .045 | .002 | .027 | .049 | .058 | .039 | .032 | .031 |
| Smaller European Importers | | | | | | | | | | | |
| Austria..... | - | .004 | .002 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| Belgium..... | .000 | - | - | .000 | .001 | .006 | .056 | .005 | .004 | .015 | .004 |
| Denmark..... | .045 | .060 | .066 | .034 | .000 | .000 | .000 | .000 | .000 | .000 | .002 |
| Finland..... | - | - | - | - | .000 | - | - | - | - | - | - |
| Greece..... | .030 | .015 | .009 | .000 | .000 | .002 | .005 | .001 | .000 | .000 | .000 |
| Portugal..... | .001 | .003 | .003 | .002 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| Sweden..... | - | - | .001 | .001 | .000 | .000 | .002 | .000 | .000 | .000 | .000 |
| Switzerland..... | - | - | - | - | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| Turkey..... | .013 | .019 | .019 | .011 | .000 | .010 | .016 | .016 | .014 | .015 | .014 |
| Japan..... | .347 | .341 | .458 | .291 | .014 | .220 | .368 | .430 | .501 | .500 | .557 |
| Other OECD..... | .026 | .029 | .017 | .013 | .000 | .000 | .009 | .011 | .009 | .010 | .006 |

¹/ U.S. geographic coverage is the 50 States and District of Columbia.

²/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

³/ Data through 1990 are for the former West Germany.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1995 are preliminary.

Sources: See end of Section 4.

Sources for Section 4 (Historical Oil Data)

Crude Oil Production, Natural Gas Liquids Production, Other Liquids, and Refinery Gain

United States: • Energy Information Administration (EIA), Petroleum Supply Annual 1997; • Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Annual, various issues.

Other Countries: • EIA, International Energy Annual, various issues. • EIA, International Petroleum Annual, 1978. • United Nations, Yearbook of World Energy Statistics, 1979. Refinery Gains: National Petroleum Council, U.S. Petroleum Refinery Study, October 1986.

Oil Stocks

United States: EIA, Petroleum Supply Annual 1997.

Other OECD Countries: • 1973-1982: Organization for Economic Cooperation and Development (OECD), Quarterly Oil Statistics and Energy Balances, various issues. • 1983-1997: OECD, Monthly Oil Statistics in the EIA, International Energy Database.

Oil Demand

United States: EIA, Petroleum Supply Annual 1997.

Other OECD Countries: • 1973-1981: OECD, Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Annual Oil Statistics data base, 1970-1979. • 1982-1997: OECD, Monthly Oil Statistics in the EIA International Energy Database.

Oil Imports

United States: Energy Information Administration (EIA), Petroleum Supply Annual 1997.

Other OECD Countries: • Organization for Economic Cooperation and Development (OECD), Quarterly Oil Statistics and Energy Balances, various issues. • OECD Monthly Oil Statistics database, 1991-1997.

Appendix A

Organizational and Geographical Definitions

Appendix A. Organizational and Geographical Definitions

International Energy Agency (IEA) countries are: Australia, Austria, Belgium, Canada, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Japan, Luxembourg, Netherlands, New Zealand, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, United Kingdom, and United States.

Organization for Economic Cooperation and Development (OECD) countries are: Australia, Austria, Belgium, Canada, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Japan, Luxembourg, Mexico, Netherlands, New Zealand, Norway, Poland, Portugal, South Korea, Spain, Sweden, Switzerland, Turkey, United Kingdom, and United States. Total OECD includes the United States Territories (Guam, Puerto Rico, and the U.S. Virgin Islands). Total OECD excludes data for Czech Republic, Hungary, Mexico, Poland, and South Korea which are not yet available.

OECD Europe countries are: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Poland, Portugal, Spain, Sweden, Switzerland, Turkey, and United Kingdom. OECD Europe excludes data for Czech Republic, Hungary, and Poland which are not yet available.

Organization of Petroleum Exporting Countries (OPEC) members are: Algeria, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, the United Arab Emirates, and Venezuela. As of December 31, 1992, Ecuador withdrew its membership in OPEC, and as of December 31, 1994, Gabon withdrew its membership. For consistency, Ecuador and Gabon are excluded in the historical series of OPEC totals.

Arab members of OPEC are: Algeria, Iraq, Kuwait, Libya, Qatar, Saudi Arabia and the United Arab Emirates.

Organization of Arab Petroleum Exporting Countries (OAPEC) are: Algeria, Bahrain, Egypt, Iraq, Kuwait, Libya, Neutral Zone, Qatar, Saudi Arabia, Syria, Tunisia, and the United Arab Emirates. In April 1979 Egypt was suspended from OAPEC membership. In May 1989 Egypt rejoined OAPEC. For consistency, Egypt is included in the historical series of the OAPEC totals.

Persian (Arabian) Gulf countries are: Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab Emirates.

The term "Former USSR" is being used in the International Petroleum Statistics Report as a purely geographical expression, referring to the Commonwealth of Independent States (CIS), Georgia, and the three Baltic States (Estonia, Latvia, and Lithuania).

Appendix B

Explanatory Notes

Appendix B. Explanatory Notes

Note 1: World Oil Supply

Supply includes production of crude oil (including lease condensate), natural gas plant liquids, other hydrogen and hydrocarbons for refinery feedstocks, refinery gain, alcohol, and liquids produced from coal and other sources. Beginning in 1993, U.S. data includes fuel ethanol blended into finished motor gasoline and oxygenate production from merchant MTBE plants.

Note 2: Oil Stocks

The International Energy Agency (IEA) assembles and reports total oil stock data for the member countries of the Organization for Economic Cooperation and Development (OECD). Oil stocks include crude oil (including strategic reserves), unfinished oils, natural gas plant liquids, and refined petroleum products. In its report titled Quarterly Oil Statistics and Energy Balances of OECD Countries, the IEA defines oil stocks as follows: "All non-military stocks held by importers (including all final consumers directly), refiners, Governments, major non-importing final consumers eligible under IEA/OECD commitments and by foreign entities in the following facilities: bulk terminals, refinery tanks, pipeline tankage, barges, intercoastal tankers (when port of departure and destination are in the reporting country), tankers in port (to the extent that their cargo is to be unloaded in the reporting country), and inland ship bunkers. Oil is reported regardless of the ownership of such storage facilities." IEA data exclude "oil held in pipelines, rail and truck tank cars, sea-going ships' bunkers, service stations, retail stores and tankers at sea." Also the IEA defines the United States to be the 50 States and the District of Columbia, and the U.S. Territories (Guam, Puerto Rico, and the U.S. Virgin Islands). The Energy Information Administration (EIA) does not include the United States Territories in its statistical definition of the United States. Further, the EIA includes oil in oil pipelines as part of its stock data. Tables 1.5, 1.6, 2.3, and 4.4 include oil stocks for the United States according to EIA definitions. Using IEA definitions, at the end of March 1998 United States (including territories) oil stocks totaled 1,438 million barrels.

Note 3: A Change to the Oil Balance in Section 2.

Prior to August 1992, Section 2 of the International Petroleum Statistics Report presented a balance of oil supply, demand, and stock change for the Market Economies, at quarterly time intervals. The communist countries, or Centrally Planned Economies (CPEs) were not included in the balance, mainly because good quarterly data for oil demand in these countries were not available. Net imports from the CPEs were included in the balance as part of total Market Economies supply. At present, the former Soviet Union and most of the countries of Eastern Europe are in transition from communism to market economies; because of this there are no longer good political or economic reasons to publish an oil balance only for the countries that have traditionally been market economies. Beginning with the August 1992 edition, Section 2 of the International Petroleum Statistics Report was changed from a Market Economies oil balance to a world oil balance.

The main data issues related to this change may be summarized as follows:

Supply Data. Monthly oil supply data are available for all countries of the world. These data are used to generate Tables 1.1 to 1.4; they were used to expand the Section 2 supply table (Table 2.2) to the whole world.

Demand Data. EIA has now developed quarterly figures for world oil demand, including demand in the former CPEs; these are published in Table 4 of EIA's Short-Term Energy Outlook. The procedures involved in developing quarterly world demand numbers may be summarized as follows:

Complete monthly data are available for the 24 OECD countries. Annual demand data for all countries (about 200 countries) are presented in EIA's International Energy Annual. In 1993, the OECD accounted for about three-fifths of total world demand, the 25 largest consumers outside of the OECD accounted for about one-third of the world total, and the remaining countries (about 150 countries) accounted for less than one-tenth of the total. The key problem, therefore, is to develop good figures for the 25 largest consumers outside the OECD.

Of these 25 countries, by far the largest consumer is Russia, which in 1993 accounted for about one-sixth of the demand in the group of 25. The next largest consumer is China, which in 1993 accounted for about one-seventh of the demand in the group. Thus in 1993 Russia and China accounted for one-third of the demand in the group of 25. For these 2 countries, data are available on oil production and net exports. The demand numbers shown in Section 2 are computed as production minus net exports. This is the same procedure used in the EIA Short-Term Energy Outlook, by the International Energy Agency in their Monthly Oil Market Report, and in other respected publications that deal with international oil markets. Note, however, that this method of computing demand ignores both refinery gain and stock changes.

For other major consuming countries outside of the OECD, quarterly demand data are developed based upon the latest available annual data, analytic judgment about current trends, and some seasonal adjustments. These are the same procedures used for the Short-Term Energy Outlook.

Stocks Data. Reliable stocks data are available for the OECD countries. Estimates of stocks for export and afloat, and of commercial floating stocks, are available. (See sources at the end of Section 2.)

For on-land stocks outside the OECD, there is little reliable data. Most estimates of on-land stocks outside the OECD are based on the theory that stocks are approximately equal to some number of days of demand. Demand figures (which themselves involve some degree of estimation) are then used to compute estimates of stock levels.

In the International Petroleum Statistics Report, it had been the practice for some time to estimate that on-land stocks in the traditional market economies outside of the OECD were equal to 55 days of demand. This was acceptable, mainly because the rule was used only to estimate a relatively small part of total stocks (about 16 percent).

When Section 2 was converted from a Market Economies oil balance to a world oil balance, there were important changes in the conditions that made it reasonable to estimate on-land stocks outside of the OECD using the rule of 55 days of demand. When the CPEs are included, the stocks that must be estimated are a considerably larger part of the total. In 1990, total oil demand in the former CPEs was more than 80 percent as large as demand in all of the non-OECD traditional market economies. Thus the quantity of stocks that would have to be estimated using a 55-day rule would nearly double, and the estimated components of stock levels and stock changes would become relatively large parts of the total. One consequence of this is that the statistical discrepancy (as shown in Table 2.1) would become less useful as an indicator of the overall consistency of the data. The statistical discrepancy is computed from supply, demand, and stock change. If a large part of the stock change is estimated, then the statistical discrepancy loses much of its significance.

As already noted, quarterly demands in the former Soviet Union and in China are computed as production minus net exports. This computation implicitly assumes a zero stock change. Demand in the former Soviet Union is falling. If we were to use a 55-day rule to compute stock levels, falling demand would imply falling stock levels. This would contradict the assumption of zero stock change which was used in computing demand.

In view of all this, the following approach has been adopted. Table 2.3 now shows levels of stocks for the OECD countries, levels of stocks for export and afloat, and levels of commercial floating storage. Stock changes based on these stock levels are shown in Table 2.1. At this time, no other stock levels are shown. Table 2.1 now has a single line labelled "Other Stock Draw and Statistical Discrepancy", which contains the computed values needed to make the table balance.

It may become possible in the future to obtain reliable information on certain categories of on-land stocks outside the OECD. If such data become available, they will be added to Table 2.3, and the corresponding stock change information will be added to Table 2.1.

Changes in Formats and Sign Conventions. There were several changes in Section 2 to make the International Petroleum Statistics Report more consistent with other EIA publications, especially with the Short-Term Energy Outlook. The numbers were changed from 1 decimal place to 2 decimal places. The word "consumption", as used before August 1992, was changed to "demand". The sign convention for stock changes in Table 2.1 was changed. Stock draws are now indicated by positive numbers, and stock additions are indicated by negative numbers. Table 2.1 also uses a new sign convention for the line labelled "Other Stock Draw and Statistical Discrepancy". The values in this line are now computed as Total Demand minus the sum of Total Supply and Total Reported Stock Draw. This is the reverse of the sign convention used before August 1992.

Summary. Section 2 was expanded from a Market Economies oil balance to a world oil balance. Supply data are tracked for all producing countries. Demand data are tracked for the 24 OECD countries, and for 25 large consumers outside of the OECD. Demand for the remaining countries (less than 10 percent of total demand) is estimated, for years that are not yet available in the International Energy Annual. The stock levels in these tables are based on reported data for the OECD and for stocks at sea. The line in Table 2.1 labelled "Other Stock Draw and Statistical Discrepancy" is a balancing item.

Appendix C

Glossary

Appendix C. Glossary

Alcohol. The family name of a group of organic chemical compounds composed of carbon, hydrogen, and oxygen. The molecules in the series vary in chain length and are composed of a hydrocarbon plus a hydroxyl group. Alcohol includes methanol and ethanol.

Demand (Consumption/Petroleum Products Supplied). Total petroleum products supplied is the sum of all petroleum products supplied. For each product, the amount supplied is calculated by summing production, crude oil burned directly, imports, and net withdrawals from primary stocks and subtracting exports.

Crude Oil. A mixture of hydrocarbons that existed in liquid phase in underground reservoirs and remains liquid at atmospheric pressure after passing through surface-separating facilities. Crude oil production is measured at the wellhead and includes lease condensate.

Government-Owned Stocks. Oil stocks owned by the national government and held for national security. In the United States these stocks are known as the Strategic Petroleum Reserve.

Lease Condensate. A liquid recovered from natural gas at the well or at small gas/oil separators in the field. Consists primarily of pentanes and heavier hydrocarbons (also called field condensate).

Natural Gas Plant Liquids. Products obtained from processing natural gas at natural gas processing plants, including natural gasoline plants, cycling plants, and fractionators. Products obtained include ethane, liquefied petroleum gases, (propanes, butane, propane-butane mixtures, and ethane-propane mixtures), isopentane, natural gasoline, unfractionated streams, plant condensate, and other minor quantities of finished products, such as motor gasoline, special naphthas, jet fuel, kerosene, and distillate fuel oil.

Oil Stocks. Oil stocks include crude oil (including strategic reserves), unfinished oils, natural gas plant liquids, and refined petroleum products. See Explanatory Note 2.

Other Hydrocarbons. Other materials processed at refineries. Includes coal tar derivatives, hydrogen, gilsonite, and natural gas received by the refinery for reforming into hydrogen.

Oxygenates. Any substance which, when added to gasoline, increases the amount of oxygen in that gasoline blend. They include: Fuel Ethanol, Methanol, and MTBE (Methyl tertiary butyl ether).

Petroleum Products. Petroleum products are obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products include unfinished oils, aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type jet fuel, kerosene, distillate fuel oil, residual fuel oil, ethane, liquefied petroleum gases, petrochemical feedstocks, special naphthas, lubricants, paraffin wax, petroleum coke, asphalt road oil, still gas, and other miscellaneous products.

Processing Gain. The amount by which the total volume of refinery output is greater than the volume of input for given period of time. The processing gain arises when crude oil and other hydrocarbons are processed into products that are, on average, less dense than the input.

Processing Loss. The amount by which the total volume of refinery output is less than the volume of input for given period of time. The processing loss arises when crude oil and other hydrocarbons are processed into products that are, on average, more dense than the input.

Appendix D

Estimation Procedures

Appendix D. Estimation Procedures

Estimation procedures are used for demand numbers in many of the countries outside of the OECD, in cases where data from EIA's International Energy Annual are not yet available. Demand numbers for 1996 and earlier years, for all countries, may be found in EIA's International Energy Annual 1996, published in February 1998, which is the most recent published edition of the International Energy Annual. EIA's WORLD ENERGY database contains final demand data for all countries of the world for 1995, and preliminary demand data for all countries for 1996. Instructions for downloading this database may be found on EIA's home page (<http://www.eia.doe.gov/emeu/world/main1.html>). The status of the demand numbers shown in Section 2 of this current International Petroleum Statistics Report may be summarized as follows.

The OECD demand numbers are, as usual, based on the latest Quarterly Oil Statistics and Monthly Oil Statistics data from the International Energy Agency.

For countries outside of the OECD, the following approach is used. The numbers for 1996 and earlier years match the demand numbers in the WORLD ENERGY database on EIA's home page. Numbers for 1997 forward are the best available EIA estimates, based upon the best annual data currently available, analytic judgment about current trends, and some seasonal adjustments. These are the same numbers that appear in the international oil balance table in EIA's Short-Term Energy Outlook.

The two largest non-OECD oil consumers are the former Soviet Union and China. For these two countries, published data are available on production and net exports. Demand is computed as production minus net exports. This is the same approach used in the Short-Term Energy Outlook, by the International Energy Agency in their Monthly Oil Market Report, and in other major publications dealing with international oil data. Note, however, that because of this computation, the demand numbers for the former Soviet Union and China implicitly exclude stock draw and refinery gain.

Appendix E

Conversions

Table E1. Refined Petroleum Products Conversion Factors

| Product | Barrels per Metric Ton |
|---|------------------------|
| Asphalt | 6.06 |
| Distillate Fuel Oil | 7.46 |
| Gasoline, Aviation | 8.90 |
| Gasoline, Motor | 8.53 |
| Greases | 6.30 |
| Jet Fuel, Kerosene-type | 7.93 |
| Jet Fuel, Naptha-type | 8.27 |
| Kerosene | 7.73 |
| Liquefied Petroleum Gas (LPG) | 11.60 |
| Lubricants | 7.00 |
| Miscellaneous Products | 8.04 |
| Naphthas | 8.22 |
| Natural Gas Liquids (NGL) | 10.40 |
| Natural Gasoline | 10.00 |
| Paraffin Oil | 7.14 |
| Paraffin Wax | 7.87 |
| Petrolatum | 7.87 |
| Petroleum Coke | 5.51 |
| Residual Fuel Oil | 6.66 |
| White Spirits | 8.50 |

Table E2. Barrels of Crude Oil per Metric Ton, 1987-1996

| | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| North America | | | | | | | | | | |
| Canada | 7.453 | 7.453 | 7.453 | 7.453 | 7.186 | 7.186 | 7.186 | 7.186 | 7.186 | 7.186 |
| Mexico | 6.965 | 6.965 | 6.965 | 6.965 | 6.965 | 6.965 | 6.965 | 6.965 | 6.965 | 6.965 |
| United States | 7.333 | 7.333 | 7.333 | 7.333 | 7.333 | 7.333 | 7.333 | 7.333 | 7.333 | 7.333 |
| Central & South America | | | | | | | | | | |
| Argentina | 7.149 | 7.149 | 7.149 | 7.149 | 7.120 | 7.120 | 7.120 | 7.120 | 7.120 | 7.120 |
| Bolivia | 7.881 | 7.881 | 7.881 | 7.881 | 7.881 | 7.881 | 7.881 | 7.881 | 7.881 | 7.881 |
| Brazil | 7.268 | 7.268 | 7.268 | 7.268 | 7.056 | 7.056 | 7.056 | 7.056 | 7.056 | 7.056 |
| Chile | 7.506 | 7.506 | 7.506 | 7.506 | 7.506 | 7.506 | 7.506 | 7.506 | 7.506 | 7.506 |
| Colombia | 7.084 | 7.084 | 7.084 | 7.084 | 7.080 | 7.080 | 7.080 | 7.080 | 7.080 | 7.080 |
| Cuba | 6.449 | 6.449 | 6.449 | 6.449 | 6.449 | 6.449 | 6.449 | 6.449 | 6.449 | 6.449 |
| Ecuador | 7.130 | 7.130 | 7.130 | 7.130 | 7.130 | 7.130 | 7.130 | 7.130 | 7.130 | 7.130 |
| Peru | 7.407 | 7.407 | 7.407 | 7.407 | 7.407 | 7.407 | 7.407 | 7.407 | 7.407 | 7.407 |
| Trinidad and Tobago | 7.084 | 7.084 | 7.084 | 7.084 | 7.084 | 7.084 | 7.084 | 7.084 | 7.084 | 7.084 |
| Venezuela | 6.880 | 6.880 | 6.880 | 6.880 | 6.890 | 6.890 | 6.890 | 6.890 | 6.890 | 6.890 |
| Western Europe | | | | | | | | | | |
| Austria | 7.082 | 7.082 | 7.082 | 7.082 | 7.200 | 7.200 | 7.200 | 7.200 | 7.200 | 7.200 |
| Denmark | 7.689 | 7.689 | 7.689 | 7.689 | 7.405 | 7.405 | 7.405 | 7.405 | 7.405 | 7.405 |
| France | 7.332 | 7.332 | 7.332 | 7.332 | 7.332 | 7.332 | 7.332 | 7.332 | 7.332 | 7.332 |
| Germany | -- | -- | -- | -- | 7.300 | 7.330 | 7.330 | 7.330 | 7.330 | 7.330 |
| Germany, East | 7.340 | 7.340 | 7.340 | 7.340 | 7.340 | -- | -- | -- | -- | -- |
| Germany, West | 7.247 | 7.247 | 7.247 | 7.247 | 7.247 | -- | -- | -- | -- | -- |
| Greece | 7.178 | 7.178 | 7.178 | 7.178 | 7.231 | 7.231 | 7.231 | 7.231 | 7.231 | 7.231 |
| Italy | 6.853 | 6.853 | 6.853 | 6.853 | 7.300 | 7.300 | 7.300 | 7.300 | 7.300 | 7.300 |
| Netherlands | 6.853 | 6.853 | 6.853 | 6.853 | 7.239 | 7.239 | 7.239 | 7.239 | 7.239 | 7.239 |
| Norway | 7.810 | 7.810 | 7.810 | 7.810 | 7.644 | 7.644 | 7.644 | 7.644 | 7.644 | 7.644 |
| Spain | 7.506 | 7.506 | 7.506 | 7.506 | 7.506 | 7.506 | 7.506 | 7.506 | 7.506 | 7.506 |
| Sweden | 7.247 | 7.247 | 7.247 | 7.247 | 7.247 | 7.247 | 7.247 | 7.247 | 7.247 | 7.247 |
| Turkey | 7.150 | 7.150 | 7.150 | 7.150 | 7.200 | 7.200 | 7.200 | 7.200 | 7.200 | 7.200 |
| United Kingdom | 7.466 | 7.466 | 7.466 | 7.466 | 7.523 | 7.523 | 7.523 | 7.523 | 7.523 | 7.523 |
| Former Yugoslavia | 7.418 | 7.418 | 7.418 | 7.418 | 7.418 | 7.418 | -- | -- | -- | -- |
| Croatia | -- | -- | -- | -- | -- | 7.418 | 7.418 | 7.418 | 7.418 | 7.418 |
| Serbia and Montenegro | -- | -- | -- | -- | -- | 7.418 | 7.418 | 7.418 | 7.418 | 7.418 |
| Slovenia | -- | -- | -- | -- | -- | -- | -- | 7.418 | 7.418 | 7.418 |

-- = No Production of this form of energy.

Sources: International Energy Annual 1996. DOE/EIA-0219(96) (February 1998).

Table E2. Barrels of Crude Oil per Metric Ton, 1987-1996 (continued)

| | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Eastern Europe & Former U.S.S.R. | | | | | | | | | | |
| Albania | 6.594 | 6.594 | 6.594 | 6.594 | 6.594 | 6.594 | 6.594 | 6.594 | 6.594 | 6.594 |
| Bulgaria | 7.332 | 7.332 | 7.332 | 7.332 | 7.332 | 7.332 | 7.332 | 7.332 | 7.332 | 7.332 |
| Former Czechoslovakia | 6.780 | 6.780 | 6.780 | 6.780 | 6.780 | 6.780 | 6.780 | -- | -- | -- |
| Czech Republic | -- | -- | -- | -- | -- | -- | 6.780 | 6.780 | 6.780 | 6.780 |
| Slovakia | -- | -- | -- | -- | -- | -- | 6.780 | 6.780 | 6.780 | 6.780 |
| Hungary | 6.690 | 6.690 | 6.690 | 6.690 | 6.690 | 6.690 | 6.690 | 6.690 | 6.690 | 6.690 |
| Poland | 7.418 | 7.418 | 7.418 | 7.418 | 7.418 | 7.418 | 7.418 | 7.418 | 7.418 | 7.418 |
| Romania | 7.506 | 7.506 | 7.506 | 7.506 | 7.506 | 7.506 | 7.506 | 7.506 | 7.506 | 7.506 |
| Former U.S.S.R. | 7.270 | 7.270 | 7.270 | 7.270 | 7.270 | -- | -- | -- | -- | -- |
| Azerbaijan | -- | -- | -- | -- | -- | 7.270 | 7.270 | 7.270 | 7.270 | 7.270 |
| Belarus | -- | -- | -- | -- | -- | 7.270 | 7.270 | 7.270 | 7.270 | 7.270 |
| Georgia | -- | -- | -- | -- | -- | 7.270 | 7.270 | 7.270 | 7.270 | 7.270 |
| Lithuania | -- | -- | -- | -- | -- | -- | -- | 7.270 | 7.270 | 7.270 |
| Kazakstan | -- | -- | -- | -- | -- | 7.270 | 7.270 | 7.270 | 7.270 | 7.270 |
| Kyrgyzstan | -- | -- | -- | -- | -- | 7.270 | 7.270 | 7.270 | 7.270 | 7.270 |
| Russia | -- | -- | -- | -- | -- | 7.270 | 7.270 | 7.270 | 7.270 | 7.270 |
| Tajikistan | -- | -- | -- | -- | -- | 7.270 | 7.270 | 7.270 | 7.270 | 7.270 |
| Turkmenistan | -- | -- | -- | -- | -- | 7.270 | 7.270 | 7.270 | 7.270 | 7.270 |
| Ukraine | -- | -- | -- | -- | -- | 7.270 | 7.270 | 7.270 | 7.270 | 7.270 |
| Uzbekistan | -- | -- | -- | -- | -- | 7.270 | 7.270 | 7.270 | 7.270 | 7.270 |
| Middle East | | | | | | | | | | |
| Bahrain | 7.320 | 7.320 | 7.320 | 7.320 | 7.320 | 7.320 | 7.320 | 7.320 | 7.320 | 7.320 |
| Iran | 7.305 | 7.305 | 7.305 | 7.305 | 7.305 | 7.305 | 7.305 | 7.305 | 7.305 | 7.305 |
| Iraq | 7.426 | 7.426 | 7.426 | 7.426 | 7.430 | 7.430 | 7.430 | 7.430 | 7.430 | 7.430 |
| Israel | 7.247 | 7.247 | 7.247 | 7.247 | 7.247 | 7.247 | 7.247 | 7.247 | 7.247 | 7.247 |
| Jordan | 7.190 | 7.190 | 7.190 | 7.190 | 7.190 | 7.190 | 7.190 | 7.190 | 7.190 | 7.190 |
| Kuwait | 7.245 | 7.245 | 7.245 | 7.245 | 7.250 | 7.250 | 7.250 | 7.250 | 7.250 | 7.250 |
| Oman | 7.332 | 7.332 | 7.332 | 7.332 | 7.330 | 7.330 | 7.330 | 7.330 | 7.330 | 7.330 |
| Qatar | 7.500 | 7.500 | 7.500 | 7.500 | 7.500 | 7.500 | 7.500 | 7.500 | 7.500 | 7.500 |
| Saudi Arabia | 7.268 | 7.268 | 7.268 | 7.268 | 7.323 | 7.323 | 7.323 | 7.323 | 7.323 | 7.323 |
| Syria | 6.836 | 6.836 | 6.836 | 6.836 | 6.836 | 6.836 | 6.836 | 6.836 | 6.836 | 6.836 |
| United Arab Emirates | 7.480 | 7.480 | 7.480 | 7.480 | 7.480 | 7.480 | 7.480 | 7.480 | 7.480 | 7.480 |
| Yemen | 7.627 | 7.636 | 7.632 | 7.632 | 7.631 | 7.631 | 7.631 | 7.631 | 7.631 | 7.631 |

-- = No Production of this form of energy.

Sources: International Energy Annual 1996. DOE/EIA-0219(96) February 1998).

Table E2. Barrels of Crude Oil per Metric Ton, 1987-1996 (continued)

| | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 |
|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Africa | | | | | | | | | | |
| Algeria | 7.936 | 7.936 | 7.936 | 7.936 | 8.130 | 8.130 | 8.130 | 8.130 | 8.130 | 8.130 |
| Angola | 7.409 | 7.409 | 7.409 | 7.409 | 7.409 | 7.409 | 7.409 | 7.409 | 7.409 | 7.409 |
| Benin | 6.870 | 6.870 | 6.870 | 6.870 | 6.870 | 6.870 | 6.870 | 6.870 | 6.870 | 6.870 |
| Cameroon | 7.205 | 7.205 | 7.205 | 7.205 | 7.205 | 7.205 | 7.205 | 7.205 | 7.205 | 7.205 |
| Congo | 7.506 | 7.506 | 7.506 | 7.506 | 7.506 | 7.506 | 7.506 | 7.506 | 7.506 | 7.506 |
| Cote d'Ivoire (Ivory Coast) | 7.285 | 7.285 | 7.285 | 7.285 | 7.285 | 7.285 | 7.285 | 7.285 | 7.285 | 7.285 |
| Egypt | 7.256 | 7.256 | 7.256 | 7.256 | 7.256 | 7.256 | 7.256 | 7.256 | 7.256 | 7.256 |
| Equatorial Guinea | -- | -- | -- | -- | -- | 8.077 | 8.077 | 8.077 | 8.077 | 8.077 |
| Gabon | 7.305 | 7.305 | 7.305 | 7.305 | 7.305 | 7.305 | 7.305 | 7.305 | 7.305 | 7.305 |
| Ghana | 7.285 | -- | -- | -- | -- | -- | 7.285 | 7.285 | 7.285 | 7.285 |
| Libya | 7.515 | 7.515 | 7.515 | 7.515 | 7.580 | 7.580 | 7.580 | 7.580 | 7.580 | 7.580 |
| Morocco | 7.600 | 7.600 | 7.600 | 7.600 | 7.600 | 7.600 | 7.600 | 7.600 | 7.600 | 7.600 |
| Nigeria | 7.315 | 7.315 | 7.315 | 7.315 | 7.315 | 7.315 | 7.315 | 7.315 | 7.315 | 7.315 |
| South Africa | -- | -- | -- | -- | -- | -- | 9.853 | 9.853 | 9.853 | 9.853 |
| Sudan | -- | -- | -- | -- | -- | -- | 7.452 | 7.452 | 7.452 | 7.452 |
| Tunisia | 7.689 | 7.689 | 7.689 | 7.689 | 7.689 | 7.689 | 7.689 | 7.689 | 7.689 | 7.689 |
| Zaire | 7.320 | 7.320 | 7.320 | 7.320 | 7.320 | 7.320 | 7.320 | 7.320 | 7.320 | 7.320 |
| Far East & Oceania | | | | | | | | | | |
| Australia | 7.855 | 7.855 | 7.855 | 7.855 | 7.868 | 7.868 | 7.868 | 7.868 | 7.868 | 7.868 |
| Bangladesh | 7.453 | 7.453 | 7.453 | 7.453 | 7.453 | 7.453 | 7.453 | 7.453 | 7.453 | 7.453 |
| Brunei | 7.340 | 7.340 | 7.340 | 7.340 | 7.340 | 7.340 | 7.340 | 7.340 | 7.340 | 7.340 |
| Burma | 7.084 | 7.084 | 7.084 | 7.084 | 7.084 | 7.084 | 7.084 | 7.084 | 7.084 | 7.084 |
| China | 7.320 | 7.320 | 7.320 | 7.320 | 7.320 | 7.320 | 7.320 | 7.320 | 7.320 | 7.320 |
| India | 7.600 | 7.600 | 7.600 | 7.600 | 7.600 | 7.600 | 7.600 | 7.600 | 7.600 | 7.600 |
| Indonesia | 7.558 | 7.558 | 7.558 | 7.558 | 7.558 | 7.558 | 7.558 | 7.558 | 7.558 | 7.558 |
| Japan | 7.285 | 7.285 | 7.285 | 7.285 | 7.357 | 7.357 | 7.357 | 7.357 | 7.357 | 7.357 |
| Malaysia | 7.641 | 7.641 | 7.641 | 7.641 | 7.641 | 7.641 | 7.641 | 7.641 | 7.641 | 7.641 |
| New Zealand | 8.127 | 8.127 | 8.127 | 8.127 | 8.127 | 8.127 | 8.127 | 8.127 | 8.127 | 8.127 |
| Pakistan | 7.500 | 7.500 | 7.500 | 7.500 | 7.500 | 7.500 | 7.500 | 7.500 | 7.500 | 7.500 |
| Papua New Guinea | -- | -- | -- | -- | -- | 7.809 | 7.809 | 7.809 | 7.809 | 7.809 |
| Philippines | 7.285 | 7.285 | 7.285 | 7.285 | 7.285 | 7.285 | 7.285 | 7.285 | 7.285 | 7.285 |
| Taiwan | 6.568 | 6.568 | 6.568 | 6.568 | 6.568 | 6.568 | 6.568 | 6.568 | 6.568 | 6.568 |
| Thailand | 6.758 | 6.758 | 6.758 | 6.758 | 6.758 | 6.758 | 6.758 | 6.758 | 6.758 | 6.758 |
| Vietnam | 7.082 | 7.082 | 7.082 | 7.082 | 7.082 | 7.082 | 7.082 | 7.082 | 7.082 | 7.082 |

-- = No Production of this form of energy.

Sources: International Energy Annual 1996. DOE/EIA-0219(96) (February 1998).