

INTERNATIONAL PETROLEUM STATISTICS REPORT

May 1997



**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 1995; OECD stocks from 1973 through 1995; and OECD trade from 1985 through 1995.

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 Statistics Branch 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.

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Notes: As of December 31, 1994, Gabon withdrew its membership in the Organization of Petroleum Exporting Countries (OPEC). For consistency, Gabon is excluded in the historical series of OPEC totals.

Historical revisions reflect changes to data that were published in the International Energy Annual 1995, which is also available on the EIA Home Page (<http://www.eia.doe.gov/iea95/contents.html>).

Oil Market Chronology -- April 1997

The following chronology lists international events of potential significance for world petroleum markets. Sources include: Dow Jones (DJ), New York Times (NYT), Reuters (REUT), U.S. Department of Energy press releases (DOE), the Wall Street Journal (WSJ), and the Washington Post (WP).

- April 1** A Shell spokesman confirms the company will declare force majeure at its Nigerian Bonny terminal due to local protests which disrupted 210,000 barrels per day of the company's oil production. Although the protests have ended and production is returning to normal, the backlog is temporarily delaying loadings by 3 days. (DJ)
- Enron begins producing natural gas from the Tapti field offshore India. Production is expected to reach 150 million cubic feet per day by the end of 1997 and continue for 25 years. (DJ)
- April 2** The U.S. Department of Energy announces plans to offer two types of interest in the sale of the government portion of the giant Elk Hills oil and gas field near Bakersfield, California: a single "operating working interest" (representing about three quarters of the government's interest) and separate "non-operating working interests" (each representing 2 percent of the government's interests). The sale, scheduled to be completed by February 10, 1998, is one of the largest divestitures of federal property in the nation's history. Current ownership is divided between the U.S. government and Chevron. (DOE)
- The Potential Gas Committee of the American Gas Association estimates that 1996 U.S. natural gas reserves had risen 6 percent from 1994 -- to 1,039 trillion cubic feet (representing about 55 times the current yearly U.S. production levels). The estimate includes: 165.1 trillion cubic feet of proven gas reserves as estimated by the U.S. Department of Energy; 190.9 trillion cubic feet of probable gas reserves from current fields; 240.7 trillion cubic feet of possible gas reserves from new fields; 309.8 trillion cubic feet of speculative gas reserves from frontier fields; 13.4 trillion cubic feet of probable coalbed-methane reserves; 36.3 trillion cubic feet of possible coalbed-methane reserves; and 82.6 trillion cubic feet of speculative coalbed-methane reserves. The committee also presents a higher estimate (1,232 trillion cubic feet) calculated using the statistically aggregated mean values for reserves rather than its traditional methodology. (DJ)
- EssoProduction Malaysia announces the start-up of production and sales from the Lawit gas field (150 miles offshore Malaysia), whose production is expected to reach about 450 million cubic feet per day upon completion of development drilling later this year. The company plans to install compression facilities in 1998 to achieve design capacity of 700 million cubic feet a day. (DJ)
- April 3** Colombia Gas System announces plans to build a \$600 million natural gas pipeline to carry Canadian natural gas to U.S. markets in the northeast. The 380-mile Millennium Pipeline would carry at least 650 million cubic feet per day beginning in early 1999. (NYT)
- TransCanada PipeLines and Northern States Power Co. announce plans to build a \$1 billion pipeline to pump natural gas from Alberta, Canada to the U.S. Midwest. The 800-mile Viking Voyageur Gas Transmission project would carry up to 1.2 billion cubic feet per day of natural gas through Minnesota, Wisconsin, and Illinois. (WSJ)
- April 7** Express Pipeline begins shipments of Canadian crude oil from Hardisty, Alberta to the Platte Pipe Line in Casper, Wyoming. The 785-mile pipeline gives Canadian producers access to U.S. markets in the Rocky Mountain and Midwest regions. Initial design capacity is 172,000 barrels per day. (DJ)
- April 8** Nigeria's military government approves the first gasoline imports since September 1996, in response to a 2-week-old fuels shortage. A dusk-to-dawn curfew in response to communal troubles near the country's Warri refinery is impeding fuel deliveries. (WP)
- Turkmenistan President Saparmurat Niyazov names Deputy Prime Minister Batyr Sardjaev as the new oil and gas minister. (REUT)

- April 9** Romanian Prime Minister Victor Ciorbea announces plans to close 10 large state companies in the next few weeks, including two oil refineries -- Petromidia Navodari in the Black Sea port of Constanza and the Darmanesti Rafinaria in Bacau. The closures are expected to reduce 1997 refining capacity by about 47 percent, to about 363,000 barrels per day. (DJ)
- April 11** China and Vietnam conclude three days of expert-level talks with no resolution over rights to potentially oil-rich waters claimed by both countries in the South China Sea. Earlier in the week, a Chinese oil rig left an offshore area between Vietnam's north coast and China's Hainan Island after completing one month of exploration and drilling. (DJ)
- April 14** Australia's minister for resources and energy, Warwick Parer, announces the release of 34 new offshore oil and gas exploration areas -- including 11 areas adjacent to the Zone of Cooperation between Australia and Indonesia in the Timor Sea and 6 areas in the Browse Basin offshore Western Australia. The minister notes that this action "is in keeping with the government's strategy to encourage more intensive exploration in Australia's vast continental shelf." (DJ)
- An Iraqi Oil Ministry official reports that Iraq expects to earn more than \$80 billion from its contract with Russia for the development of the West Qurna oil field in southern Iraq. The contract, which was initialed in March and approved by Iraq's National Assembly on April 13, calls for 560 wells which will produce 4.4 billion barrels over 23 years. According to the official, the part of the field being developed with Russia has 11.5 billion barrels in reserves and the entire West Qurna field has reserves of 38 billion barrels. The official states that production will begin "soon" (initially about 250,000 barrels per day, increasing to 600,000 barrels per day). (DJ)
- April 17** Royal Dutch/Shell Group estimates Nigeria's proven oil reserves rose to 24 billion barrels at the end of 1996 (8.3 percent higher than the 22 billion barrels estimated in 1995) and reports that Nigerian production could reach 3 million barrels per day by 2002 (and 4 million barrels per day by 2010) with an annual investment of \$4-\$6 billion (DJ)
- April 18** An annual ranking of the world's top oil companies by the Price Waterhouse World Energy Group and *Petroleum Intelligence Weekly* indicates state-owned oil companies continue to dominate the upstream sector of the world oil industry and are beginning to catch up to the major publicly traded companies in the downstream sector. Based on 1995 data, state-owned companies accounted for 17 of the top 20 companies in terms of oil reserves, 8 of the top 10 companies in terms of oil production, and 4 of the top 10 companies in terms of refining capacity. However, 4 state-owned companies (Petroleos de Venezuela S.A., Saudi Aramco, Indonesia's Pertamina, and Kuwait's KPC) increased their refining capacity by more than 1 million barrels per day in the 1993-1995 period, accounting for about half of the net global increase in refining capacity during that time. (DJ)
- April 19** A senior Iranian oil industry official reports that Iran and Russia signed three agreements on cooperation in the oil and gas industries: 1) an agreement whereby Russia's Gazprom would invest directly in joint operations in the development of Iranian gas fields, production capacity, refining, liquidation, and transport of natural gas and associated extraction industries in the Persian Gulf and other areas; 2) an agreement between a newly formed Russian consortium and the National Iranian Oil company (NIOC) for drilling in Iran's continental shelf; and 3) an agreement between NIOC and the oil company of Tatarstan for cooperation in pre-extraction and post-extraction industries. (DJ)
- April 21** Occidental Petroleum reports that Colombia's main oil pipeline (Cano Limon-Covenas) was bombed 21 times in the first quarter of 1997 (compared with a total of 45 attacks in all of 1996) and that the leftist National Liberation Army (ELN) is growing increasingly active in the region near its operations. Occidental operates the Cano Limon field in partnership with Ecopetrol (Colombia's national oil company) and Shell. As a result of the repeated attacks, Occidental plans to spend \$20 million on security in 1997, including a cooperation contract with the Colombian armed forces. (DJ)

- April 22** U.S. Secretary of State Madeline Albright announces sanctions to bar new U.S. investment in Burma (also known as Myanmar) because of the continued oppression of opposition activists by the country's military rulers. About 20 U.S. companies have direct investment or employees in Burma, and the eight largest investors are oil or mining companies: Atlantic Richfield, Baker Hughes, East Asia Gold, Halliburton, McDermott International, Newmont Mining, Texaco Inc., and Unocal. U.S. companies have a total of \$240 million in investment in Burma. Unocal, the single largest investor, is a partner in a \$1.2 billion joint venture led by Total of France to develop several offshore blocks with significant natural gas reserves. (DJ)
- April 23** Pakistan's government approves a plan to privatize 13 state-owned companies (including its electrical and natural-gas holdings) over the next 6 months. (DJ)
- April 24** Russian President Boris Yeltsin names reformist First Deputy Prime Minister Boris Nemtsov to the additional post of minister of fuel and energy. Nemtsov, who has called for radical liberalization of the energy sector, replaces Pyotr Rodionov, who resigned in March. (DJ)
- Norwegian and British authorities agree on a natural gas treaty covering the Frigg pipeline running from the North Sea to St. Fergus in northern Scotland, reopening the way for exports of Norwegian gas to the United Kingdom and Ireland. Disagreement between the two governments on the use of the pipeline had previously stopped Norway from making new gas sales. The Frigg pipeline currently transports 230 billion cubic feet of gas per year, but capacity can be boosted to 424 billion cubic feet per year. In addition, the two governments reached a framework agreement on the use of connector pipelines to facilitate the use of new oil and gas pipelines which tie installations together on both sides of the British and Norwegian gas sectors. (DJ)
- April 25** Shell Nigeria declares force majeure on loadings of Forcados crude oil, effective April 29-May 20, due to the loss of about 90,000 barrels per day from the usual daily production of 450,000-460,000 barrels per day of Forcados crude oil production. The disruption is the result of an escalation of fighting between local communities in the Warri region of Nigeria. (DJ)
- Russian President Boris Yeltsin signs a decree in support of the Caspian Pipeline Consortium (CPC). The decree gives CPC a 16-year special exemption from rules mandating it must convert foreign-exchange revenues into rubles as part of a package of support for the venture -- on condition that the company reinvest its revenues in the project. The CPC is a \$2 billion joint project of the governments of Russia, Kazakstan, and Oman and a group of private oil companies set up to build a 932-mile pipeline (planned capacity is 1.5 million barrels per day) from Kazak oilfields on the eastern shore of the Caspian Sea across southern Russia to an export terminal near the Black Sea port of Novorossisk. (DJ)
- April 28** The *Middle East Economic Survey* reports that Iraq's State Oil Marketing Organization (SOMO) is continuing to hold negotiations with international oil companies, despite the fact that the 50 sales contracts approved so far have reached the \$2 billion target for the first 180 days under the oil-for-food agreement with the United Nations. According to United Nations statistics, Iraq has sold 121.164 million barrels (averaging 673,000 barrels per day for the 6-month period ending June 7) worth a projected \$2.142 billion (including \$142 million in pipeline fees for Turkey). (DJ)
- Russian President Boris Yeltsin signs a decree ordering sweeping reforms in the country's natural gas, electric, rail and telecommunications sectors aimed at reducing rates and stimulating investment. At a news conference announcing the decree, First Deputy Prime Minister Boris Nemtsov explains that the state will retain control over these key natural monopolies and will not break up their national supply networks. With respect to natural gas, the government will retain its 40-percent equity stake in the monopoly RAO Gazprom indefinitely and work to strengthen Gazprom's international position and boost its share price. Gazprom will lose its monopoly right to develop new gas deposits (which instead will be allocated at tenders open to competitors), will offer equal access and competitive rates on its national pipeline network to all producers (giving oil and other companies the opportunity to compete in the gas business), and will be required to ensure transparency of its finances with detailed annual financial reports. (DJ)

April 28 Turkey signs a \$12 billion agreement to boost its imports of Russian natural gas (from the current level of 212 billion cubic feet) by 18 billion cubic feet in 1997, 71 billion cubic feet in 1998, 106 billion cubic feet in 1999, and 159 billion cubic feet in 2000. By the year 2001, Turkey's total gas purchases from Russia will reach 494 billion cubic feet per year. The gas will be shipped through the existing pipeline, which will be expanded by two new joint ventures which will invest \$1.5 billion to add compressor stations and new stretches of pipe to double the capacity. (DJ)

April 29 The U.S. Department of Energy begins soliciting public comment regarding the future of the Strategic Petroleum Reserve (SPR), which will be incorporated into a Statement of Administration Policy on the SPR to be issued in September 1997. (DJ)

In a report to Congress, the U.S. State Department estimates that the Caspian Sea basin contains proven recoverable oil reserves of 15.6 billion barrels and possible reserves of an additional 163 billion barrels (compared with more generally used estimates of 27.5 billion barrels of proven oil reserves and an additional 40-60 billion barrels of estimated reserves). According to the report, Kazakstan has the largest reserves in the region (10 billion barrels proven, 85 billion barrels possible), followed by Turkmenistan (1.5 billion barrels proven, 32 billion barrels possible), Azerbaijan (3.6 billion barrels proven, 27 billion barrels possible), Iran (no proven reserves, 12 billion barrels possible) and Russia (no proven reserves, 5 billion barrels possible). (WSJ)

April 30 For the fourth year in a row, three Organization of Petroleum Exporting Countries (Iran, Iraq, and Libya) are named on the U.S. State Department's list of the top sponsors of international terrorism (other countries on the list are Cuba, North Korea, Sudan and Syria). Appearance on the list automatically triggers U.S. government sanctions, including: a ban on military sales and aid; controls over export of dual-use items that can be used for either military or civilian purposes; prohibitions on economic aid, and miscellaneous financial and other sanctions. (DJ)

Shell Nigeria reports that four out of the five flow stations that had shut in 80,000 barrels per day of Forcados crude oil production in the Western Delta area of Nigeria since April 25 have been re-opened. The Warri River flow station is the only one that is still shut-in. (DJ)

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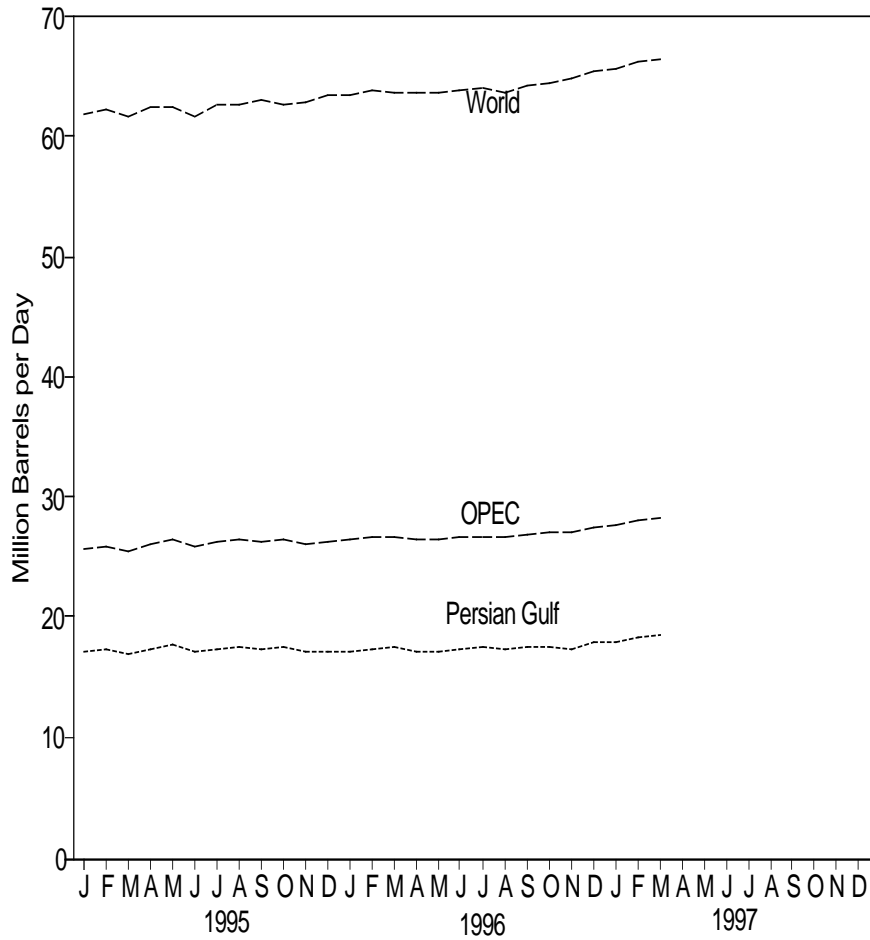
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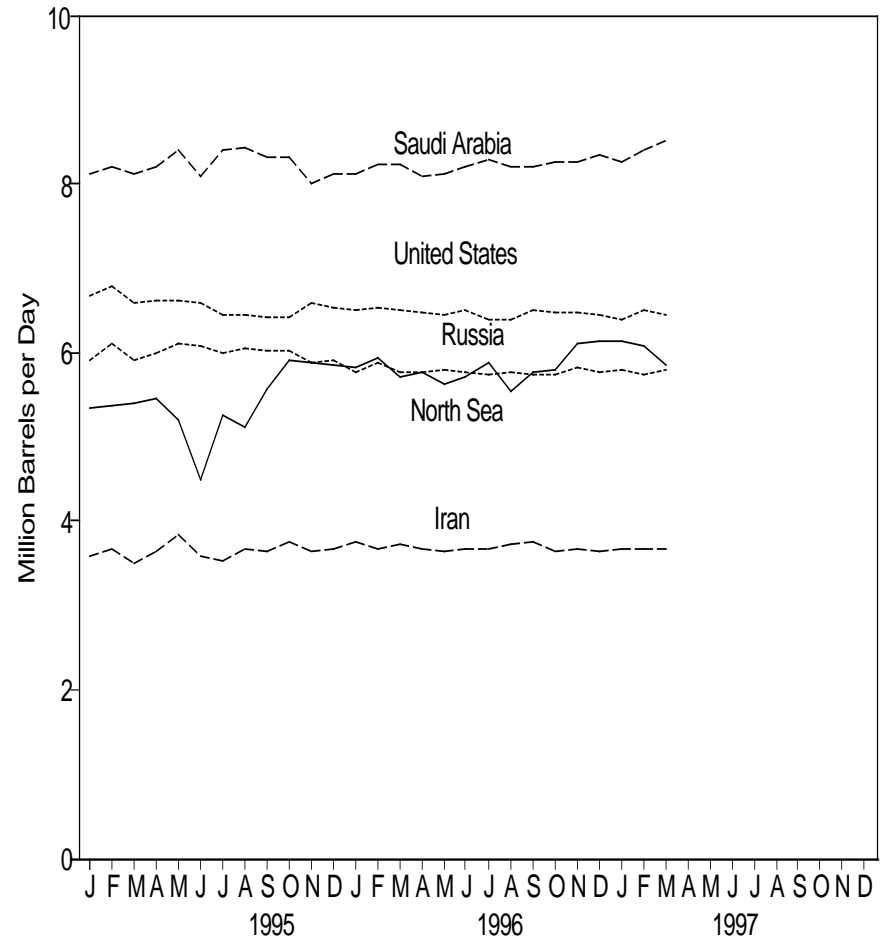
1. Annual and Monthly Oil Data

Figure 1. World Crude Oil Production, Monthly



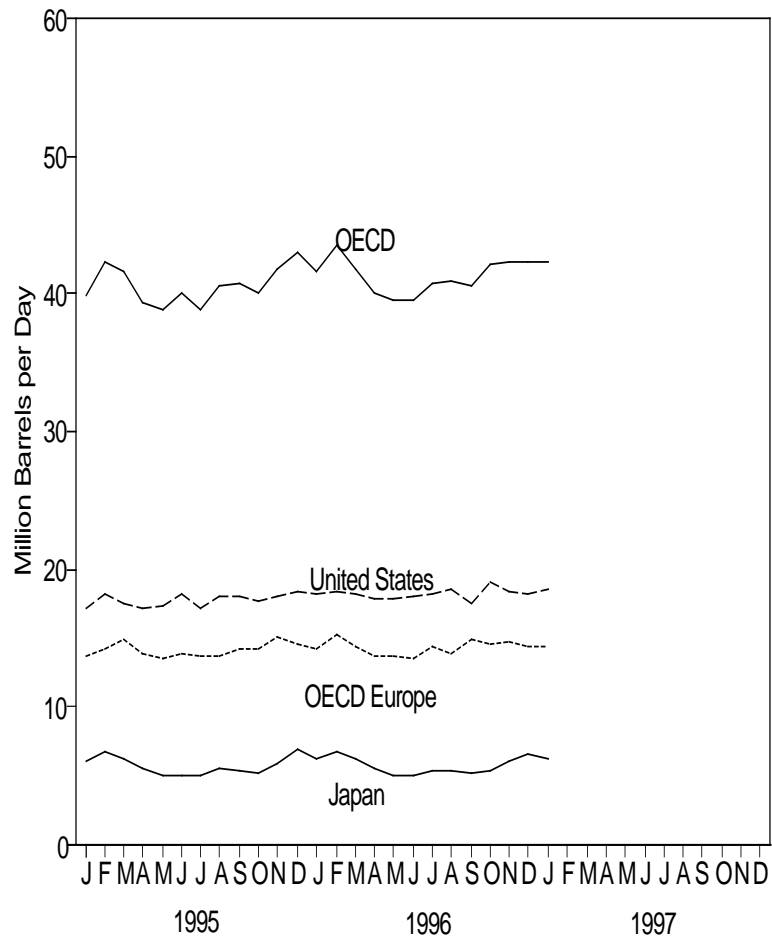
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Figure 2. Leading Crude Oil Producers, Monthly



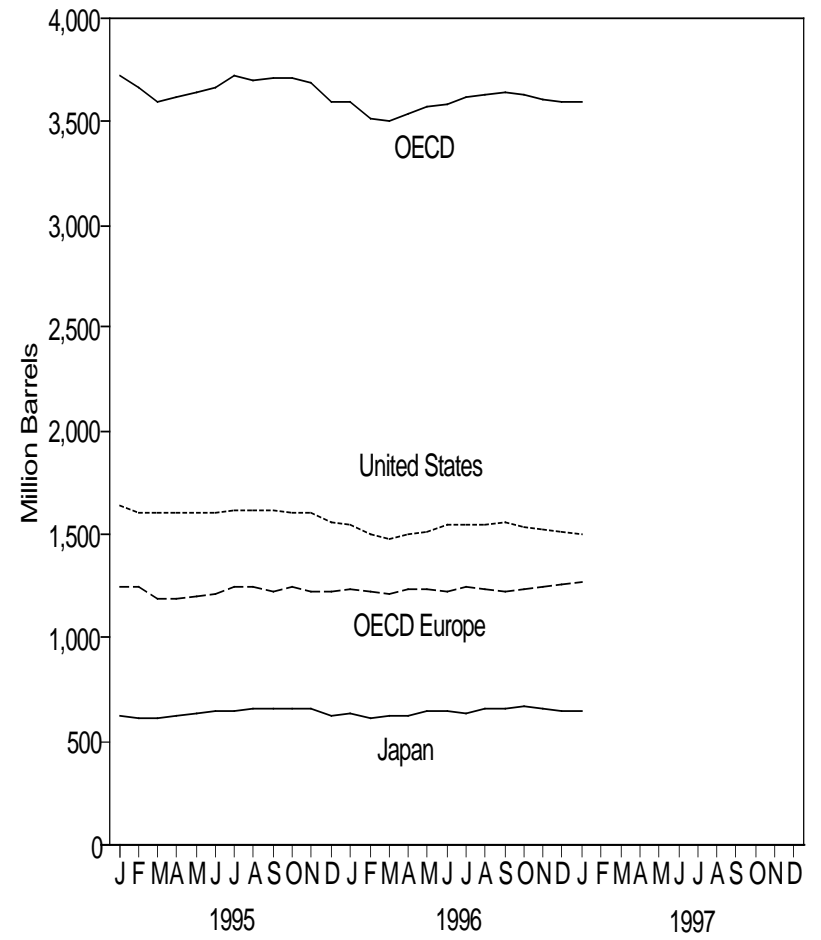
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Figure 3. OECD Oil Consumption, Monthly



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	483	8,231	2,279	2,750	26,092
1996 January.....	1,220	1,540	3,735	555	2,038	1,400	2,160	500	8,118	2,290	2,940	26,495
February.....	1,220	1,540	3,685	555	2,057	1,400	2,180	500	8,248	2,265	2,940	26,590
March.....	1,210	1,540	3,715	555	2,057	1,400	2,190	500	8,248	2,285	2,990	26,690
April.....	1,230	1,530	3,685	555	2,067	1,400	2,160	505	8,088	2,250	2,990	26,460
May.....	1,245	1,530	3,635	555	2,055	1,400	2,200	505	8,135	2,275	2,990	26,525
June.....	1,250	1,550	3,685	555	2,065	1,400	2,200	505	8,195	2,270	2,990	26,665
July.....	1,250	1,520	3,685	555	2,065	1,400	2,170	505	8,295	2,260	3,040	26,745
August.....	1,250	1,540	3,715	555	2,040	1,400	2,190	505	8,220	2,260	3,090	26,765
September.....	1,250	1,560	3,735	555	2,070	1,400	2,150	525	8,200	2,310	3,090	26,845
October.....	1,260	1,580	3,635	555	2,075	1,400	2,210	525	8,255	2,310	3,140	26,945
November.....	1,260	1,570	3,685	555	2,075	1,400	2,220	505	8,255	2,250	3,190	26,965
December.....	1,260	1,570	3,635	895	2,077	1,410	2,225	545	8,358	2,305	3,240	27,520
1996 Average.....	1,242	1,547	3,686	584	2,062	1,401	2,188	510	8,218	2,278	3,053	26,769
1997 January.....	1,260	1,570	3,685	1,085	2,085	1,430	2,250	585	8,265	2,300	3,190	27,705
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	1,335	2,105	1,440	2,240	585	8,515	2,360	3,200	28,345
1997 Average.....	1,270	1,587	3,685	1,184	2,089	1,433	2,265	585	8,396	2,330	3,193	28,017

^{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 March 1997, Neutral Zone production by both Kuwait and Saudi Arabia totaled about 530 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 January.....	3,085	2,600	5,819	705	710	530	770	1,775	3,115	620	390
February.....	3,165	2,625	5,935	705	710	560	785	1,705	3,100	620	390
March.....	2,990	2,570	5,715	700	720	580	775	1,800	3,050	635	390
April.....	3,160	2,467	5,768	715	750	610	805	1,840	3,020	605	390
May.....	2,980	2,512	5,636	715	750	610	805	1,755	3,195	605	390
June.....	3,150	2,457	5,719	715	750	575	805	1,815	3,205	605	390
July.....	3,201	2,537	5,884	720	760	590	795	1,795	3,150	615	390
August.....	3,022	2,385	5,559	720	760	540	751	1,858	3,130	630	375
September.....	3,095	2,517	5,774	700	760	560	790	1,840	3,140	630	385
October.....	3,005	2,642	5,814	735	800	560	800	1,922	3,165	630	385
November.....	3,210	2,743	6,118	735	800	535	830	1,875	3,190	640	385
December.....	3,198	2,760	6,130	735	800	585	830	1,891	3,115	640	385
1996 Average.....	3,104	2,568	5,822	717	756	570	795	1,823	3,131	623	387
1997 January.....	3,268	2,693	6,126	740	R820	565	840	1,874	3,210	650	385
February.....	3,263	2,660	6,074	740	R820	561	840	1,920	R3,240	640	385
March.....	3,063	2,638	5,862	740	830	594	840	1,900	3,250	620	380
1997 Average.....	3,196	2,664	6,019	740	823	574	840	1,897	3,233	637	383

^{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	3,233	60,216
1993 Average.....	890	313	534	640	2,673	776	6,730	--	554	6,847	3,290	60,247
1994 Average.....	896	329	590	645	2,685	810	6,135	--	560	6,662	3,393	61,003
1995 Average.....	920	345	703	682	2,618	851	5,995	--	610	6,560	3,423	62,446
1996 January.....	920	360	675	680	2,795	865	5,763	--	605	6,495	3,432	63,385
February....	920	360	700	680	2,800	865	5,867	--	605	6,550	3,457	63,759
March.....	920	370	665	680	2,870	870	5,755	--	605	6,516	3,429	63,579
April.....	920	370	685	700	2,860	880	5,763	--	600	6,479	3,445	63,525
May.....	920	370	660	700	2,875	880	5,789	--	600	6,443	3,458	63,537
June.....	920	370	650	700	2,880	880	5,763	--	600	6,502	3,467	63,864
July.....	920	370	625	700	2,870	885	5,737	--	600	6,383	3,568	63,956
August.....	920	370	625	700	2,830	885	5,780	--	600	6,389	3,574	63,609
September...	920	370	625	700	2,860	890	5,750	--	600	6,503	3,579	64,059
October.....	920	370	625	700	2,860	900	5,737	--	600	6,490	3,647	64,438
November....	930	370	630	700	2,860	900	5,832	--	610	6,465	3,671	64,876
December....	930	370	650	700	2,900	900	5,755	--	620	6,448	3,666	65,398
1996 Average.....	922	368	651	695	2,855	883	5,774	--	604	6,471	3,533	63,999
1997 January.....	R885	370	650	730	2,940	890	5,789	--	620	E6,387	R3,721	R65,732
February....	R885	370	650	730	2,970	910	R5,729	--	620	RE6,514	R3,705	R66,151
March.....	875	370	650	730	2,970	910	5,806	--	620	RE6,431	3,755	66,317
1997 Average.....	882	370	650	730	2,960	903	5,776	--	620	PE6,442	3,728	66,064

^{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	Indonesia	Iran	Iraq	Kuwait ^{1/}	Libya	Nigeria	Qatar	Saudi Arabia ^{1/}	United Arab Emirates	Venezuela	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 January...	790	1,360	3,700	550	2,038	1,400	2,010	465	8,118	2,210	2,900	25,540
February..	790	1,360	3,650	550	2,057	1,400	2,030	465	8,248	2,185	2,900	25,635
March.....	780	1,360	3,680	550	2,057	1,400	2,040	465	8,248	2,205	2,950	25,735
April.....	800	1,350	3,650	550	2,067	1,400	2,010	470	8,088	2,170	2,950	25,505
May.....	815	1,350	3,600	550	2,055	1,400	2,050	470	8,135	2,195	2,950	25,570
June.....	820	1,370	3,650	550	2,065	1,400	2,050	470	8,195	2,190	2,950	25,710
July.....	820	1,340	3,650	550	2,065	1,400	2,020	470	8,295	2,180	3,000	25,790
August....	820	1,360	3,680	550	2,040	1,400	2,040	470	8,220	2,180	3,050	25,810
September.	820	1,380	3,700	550	2,070	1,400	2,000	490	8,200	2,230	3,050	25,890
October...	830	1,400	3,600	550	2,075	1,400	2,110	490	8,255	2,230	3,100	26,040
November..	830	1,390	3,650	550	2,075	1,400	2,120	470	8,255	2,170	3,150	26,060
December..	830	1,390	3,600	890	2,077	1,410	2,125	510	8,358	2,225	3,200	26,615
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	2,150	550	8,265	2,220	3,150	26,800
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	1,330	2,105	1,440	2,140	550	8,515	2,280	3,160	27,440
1997 Average...	840	1,407	3,650	1,179	2,089	1,433	2,165	550	8,396	2,250	3,153	27,112

^{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 March 1997, Neutral Zone production by both Kuwait and Saudi Arabia totaled about 530 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	4,973
1993 Average.....	145	506	459	704	220	--	1,736	1,040	1,238	1,435	5,169
1994 Average.....	140	529	461	698	200	--	1,727	1,071	1,267	1,465	5,282
1995 Average.....	145	581	447	701	180	--	1,762	1,106	1,301	1,506	5,474
1996 January.....	145	585	470	690	248	--	1,718	1,075	1,267	1,445	5,486
February.....	145	545	475	700	248	--	1,675	1,085	1,277	1,455	5,423
March.....	145	615	475	700	248	--	1,810	1,085	1,277	1,455	5,620
April.....	145	615	475	690	248	--	1,836	1,075	1,267	1,445	5,624
May.....	145	565	475	690	248	--	1,810	1,075	1,267	1,445	5,558
June.....	145	560	485	695	248	--	1,836	1,080	1,272	1,450	5,574
July.....	145	610	440	705	248	--	1,834	1,090	1,282	1,460	5,592
August.....	145	618	335	700	248	--	1,867	1,085	1,277	1,455	5,503
September.....	145	595	340	695	248	--	1,878	1,080	1,272	1,450	5,516
October.....	145	620	370	695	248	--	1,908	1,080	1,272	1,450	5,661
November.....	145	615	370	695	248	--	1,915	1,080	1,272	1,450	5,638
December.....	145	640	370	705	248	--	1,876	1,090	1,282	1,460	5,654
1996 Average.....	145	599	423	697	248	--	1,831	1,082	1,274	1,452	5,571
1997 January.....	145	660	370	700	248	--	1,815	1,085	1,277	1,455	5,608
February.....	145	645	375	710	248	--	R1,900	1,095	1,287	1,465	R5,673
March.....	145	652	375	720	248	--	E1,854	1,105	1,297	1,475	5,644
1997 Average.....	145	653	373	710	248	--	E1,855	1,095	1,287	1,465	5,640

^{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	59,264
1986 Average.....	10,905	12,441	13,653	19,310	61,771
1987 Average.....	10,648	12,869	13,992	19,589	62,429
1988 Average.....	10,473	14,310	15,662	21,465	64,707
1989 Average.....	9,880	15,733	16,658	23,323	65,894
1990 Average.....	9,677	16,249	17,232	24,536	66,756
1991 Average.....	9,883	15,704	16,747	24,625	66,634
1992 Average.....	9,768	17,010	17,871	25,818	66,937
1993 Average.....	9,602	17,792	18,505	26,610	67,345
1994 Average.....	9,413	18,072	18,745	27,031	68,218
1995 Average.....	9,400	18,439	19,192	27,654	69,916
1996 January.....	9,327	18,382	19,059	27,996	70,976
February.....	9,299	18,467	19,196	28,101	71,247
March.....	9,437	18,517	19,207	28,201	71,301
April.....	9,451	18,297	19,034	27,961	71,275
May.....	9,411	18,307	19,104	28,026	71,244
June.....	9,414	18,427	19,179	28,171	71,505
July.....	9,351	18,527	19,279	28,261	71,673
August.....	9,393	18,452	19,179	28,276	71,240
September.....	9,535	18,547	19,254	28,351	71,720
October.....	9,523	18,507	19,319	28,451	72,215
November.....	9,641	18,477	19,259	28,471	72,766
December.....	9,493	18,977	19,833	29,036	73,212
1996 Average.....	9,440	18,491	19,243	28,277	71,699
1997 January.....	9,249	19,162	R19,943	29,216	R73,379
February.....	RE9,519	19,377	R20,168	29,521	R73,921
March.....	RE9,447	19,762	20,563	29,876	74,116
1997 Average.....	PE9,401	19,436	20,227	29,538	73,801

^{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										
January.....	154	157	301	107	R1,237	1,543	R104	638	71	3,594
February.....	156	156	298	103	R1,227	1,500	105	615	67	R3,513
March.....	157	153	296	106	R1,214	1,482	108	627	71	R3,501
April.....	165	150	298	109	1,236	1,501	108	622	72	3,539
May.....	163	157	295	105	1,234	1,519	104	641	75	3,573
June.....	160	158	296	R104	R1,228	1,546	104	R640	R71	R3,589
July.....	162	155	R297	105	R1,241	1,550	107	637	78	3,612
August.....	160	159	295	101	R1,235	1,547	108	658	75	R3,624
September....	R152	162	295	105	R1,228	1,554	R110	R664	R82	R3,639
October.....	156	155	296	104	R1,237	1,540	110	673	R73	R3,633
November.....	160	154	296	106	R1,244	1,524	104	665	R72	R3,608
December.....	158	154	R300	108	R1,257	1,510	104	651	R68	R3,590
1997										
January.....	156	158	304	107	1,266	1,503	108	650	68	3,595

^{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 December 1996)
(Million Barrels)

Country	Commercial	Government Owned	Total
Canada.....	104	0	104
United States ¹ /.....	944	566	1510
United States Territories.....	25	0	25
Japan.....	351	300	651
Australia/New Zealand.....	43	NA	43
Austria.....	22	0	22
Belgium/Luxembourg.....	30	0	30
Denmark.....	25	0	25
Finland.....	26	0	26
France.....	158	0	158
Germany ² /.....	245	55	300
Greece.....	24	NA	24
Ireland.....	6	2	8
Italy.....	148	6	154
Netherlands.....	94	0	94
Norway.....	59	0	59
Portugal.....	22	0	22
Spain.....	98	0	98
Sweden.....	34	0	34
Switzerland.....	45	0	45
Turkey.....	50	0	50
United Kingdom.....	108	0	108
OECD Europe.....	1,195	63	1,257
Total OECD.....	2,661	929	3,590

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	R1,118	R38,967
1994	Average....	1,833	1,841	2,879	1,837	13,597	17,718	1,727	5,674	R1,174	R39,890
1995	Average....	1,896	2,048	2,875	1,845	14,120	17,725	1,755	5,711	1,227	40,537
1996	January....	R1,889	2,082	R2,903	1,760	R14,127	18,212	R1,795	6,211	R1,182	R41,526
	February...	R2,193	2,227	R3,031	1,915	R15,222	18,498	R1,853	6,762	R1,190	R43,524
	March.....	1,990	2,158	R2,861	1,857	R14,370	18,180	R1,694	6,320	R1,168	R41,733
	April.....	R1,929	1,921	R2,741	R1,851	R13,729	17,837	R1,629	R5,625	1,172	R39,991
	May.....	R1,819	1,842	R2,861	R1,841	R13,739	17,857	R1,704	R5,030	R1,128	R39,459
	June.....	1,829	1,868	R2,827	R1,735	R13,586	18,049	R1,734	R4,995	R1,144	R39,508
	July.....	R1,987	2,119	R2,960	R1,786	R14,311	18,143	R1,795	R5,387	R1,097	R40,734
	August....	R1,850	R1,748	R3,039	R1,789	R13,949	18,513	R1,862	R5,452	1,127	R40,904
	September..	R1,941	2,033	R3,098	1,873	R14,818	17,605	R1,767	R5,242	R1,038	R40,470
	October....	1,999	2,121	R2,844	R1,905	R14,675	19,103	R1,769	R5,460	R1,144	R42,151
	November...	1,889	R2,023	R2,960	R1,960	R14,729	18,496	R1,901	R5,992	R1,076	R42,192
	December...	2,031	2,046	R2,780	R1,832	R14,447	18,300	R1,735	R6,529	R1,203	R42,215
	Average....	R1,945	2,015	2,908	R1,841	R14,304	18,234	R1,770	R5,748	R1,139	R41,195
1997	January....	2,164	2,036	2,901	1,828	14,448	18,560	1,844	6,320	1,136	42,308

^{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 1995 and Petroleum Supply Monthly, April 1997.

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 1995 and Petroleum Supply Monthly, April 1997.

Other OECD Countries: • Organization for Economic Cooperation and Development (OECD), Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Monthly Oil Statistics data base, 1985-1997.

Oil Demand

United States: EIA, Petroleum Supply Annual 1995 and Petroleum Supply Monthly, April 1997.

Other OECD Countries: • OECD, Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Monthly Oil Statistics data base, 1985-1997.

2. International Oil Balance Data

Table 2.1 World Oil Balance, 1993-1997
(Million Barrels Per Day)

	1993	1994	1995	1996				1997					
	Average	Annual		Quarter				Annual	Quarter				Annual
		First	Second	Third	Fourth	Average	First	Second	Third	Fourth	Average		
Supply^{1/}													
OECD													
United States ^{2/}	9.60	9.41	9.40	9.36	9.43	9.43	9.55	9.44	9.40	NA	NA	NA	NA
Other OECD.....	8.40	9.25	9.80	10.18	10.13	10.19	10.62	10.28	10.66	NA	NA	NA	NA
Total OECD.....	18.00	18.66	19.20	19.53	19.56	19.62	20.17	19.72	20.06	NA	NA	NA	NA
Non-OECD													
OPEC.....	26.61	27.03	27.65	28.10	28.05	28.30	28.65	28.28	29.54	NA	NA	NA	NA
Former USSR.....	7.96	7.27	7.15	7.10	7.08	7.06	7.08	7.08	7.09	NA	NA	NA	NA
Other Non-OECD.....	14.78	15.25	15.91	16.43	16.65	16.57	16.83	16.62	17.11	NA	NA	NA	NA
Total Non-OECD.....	49.34	49.56	50.71	51.64	51.78	51.93	52.56	51.98	53.74	NA	NA	NA	NA
Total World Supply.....	67.34	68.22	69.92	71.17	71.34	71.54	72.73	71.70	73.80	NA	NA	NA	NA
Demand^{3/}													
OECD													
United States ^{2/}	17.24	17.72	17.72	18.29	17.91	18.09	18.63	18.23	NA	NA	NA	NA	NA
Other OECD.....	21.73	22.17	22.81	23.94	21.74	22.61	23.55	22.96	NA	NA	NA	NA	NA
Total OECD.....	38.97	39.89	40.54	42.23	39.65	40.70	42.19	41.20	NA	NA	NA	NA	NA
Non-OECD													
China.....	2.96	3.14	3.31	3.51	3.56	3.60	3.65	3.58	NA	NA	NA	NA	NA
Former USSR.....	5.64	4.85	4.72	4.75	4.27	4.27	4.65	4.49	NA	NA	NA	NA	NA
Other Non-OECD.....	19.48	20.43	21.62	22.49	22.41	21.73	23.21	22.46	NA	NA	NA	NA	NA
Total Non-OECD.....	28.08	28.42	29.66	30.75	30.25	29.60	31.51	30.53	NA	NA	NA	NA	NA
Total World Demand.....	67.04	68.31	70.19	72.98	69.90	70.30	73.70	71.72	NA	NA	NA	NA	NA
Stock Draws / Discrepancy													
Net Reported Stock Draws^{4/}													
U. S. Commercial.....	-.12	.00	.25	.86	-.75	-.20	.39	.07	NA	NA	NA	NA	NA
U. S. Strategic.....	-.03	-.01	.00	.03	.05	.11	.09	.07	NA	NA	NA	NA	NA
Other OECD.....	-.05	-.16	.09	.21	-.26	-.46	.06	-.12	NA	NA	NA	NA	NA
For Export & Afloat.....	-.04	.03	-.12	-.49	-.11	-.16	-.54	-.33	NA	NA	NA	NA	NA
Commr. Floating Storage...	.00	.00	.00	.00	.00	.00	.00	.00	NA	NA	NA	NA	NA
Total Reported Draws.....	-.24	-.15	.22	.60	-1.07	-.71	-.01	-.30	NA	NA	NA	NA	NA
Other Stock Draws and Statistical Discrepancy^{5/}													
	-.06	.25	.06	1.21	-.37	-.53	.98	.32	NA	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, 1993-1997
(Million Barrels Per Day)

	1993	1994	1995	1996				1997					
	Average	Annual	Average	Quarter				Annual	Quarter				Annual
				First	Second	Third	Fourth	Average	First	Second	Third	Fourth	Average
OECD													
United States ¹ /...	9.60	9.41	9.40	9.36	9.43	9.43	9.55	9.44	9.40	NA	NA	NA	NA
Canada.....	2.24	2.33	2.45	2.40	2.43	2.49	2.57	2.47	2.60	NA	NA	NA	NA
North Sea ² /.....	4.67	5.38	5.80	6.23	6.09	6.10	6.45	6.22	6.45	NA	NA	NA	NA
Other OECD.....	1.48	1.54	1.55	1.56	1.61	1.60	1.59	1.59	1.62	NA	NA	NA	NA
Total OECD.....	18.00	18.66	19.20	19.53	19.56	19.62	20.17	19.72	20.06	NA	NA	NA	NA
Non-OECD													
OPEC													
Crude													
Algeria.....	1.16	1.18	1.20	1.22	1.24	1.25	1.26	1.24	1.27	NA	NA	NA	NA
Indonesia.....	1.51	1.51	1.50	1.54	1.54	1.54	1.57	1.55	1.59	NA	NA	NA	NA
Iran.....	3.54	3.62	3.64	3.71	3.67	3.71	3.65	3.69	3.68	NA	NA	NA	NA
Iraq.....	.51	.55	.56	.55	.55	.55	.67	.58	1.18	NA	NA	NA	NA
Kuwait.....	1.85	2.02	2.06	2.05	2.06	2.06	2.08	2.06	2.09	NA	NA	NA	NA
Libya.....	1.36	1.38	1.39	1.40	1.40	1.40	1.40	1.40	1.43	NA	NA	NA	NA
Nigeria.....	1.96	1.93	1.99	2.18	2.19	2.17	2.22	2.19	2.27	NA	NA	NA	NA
Qatar.....	.41	.41	.48	.50	.50	.51	.53	.51	.58	NA	NA	NA	NA
Saudi Arabia..	8.20	8.12	8.23	8.20	8.14	8.24	8.29	8.22	8.40	NA	NA	NA	NA
United Arab													
Emirates...	2.16	2.19	2.28	2.28	2.27	2.28	2.29	2.28	2.33	NA	NA	NA	NA
Venezuela.....	2.45	2.59	2.75	2.96	2.99	3.07	3.19	3.05	3.19	NA	NA	NA	NA
Natural Gas													
Plant Liquids	1.44	1.46	1.51	1.45	1.45	1.46	1.45	1.45	1.46	NA	NA	NA	NA
Processing Gain.	.06	.06	.06	.06	.06	.06	.06	.06	.06	NA	NA	NA	NA
Total OPEC.....	26.61	27.03	27.65	28.10	28.05	28.30	28.65	28.28	29.54	NA	NA	NA	NA
Former USSR.....	7.96	7.27	7.15	7.10	7.08	7.06	7.08	7.08	7.09	NA	NA	NA	NA
China.....	2.89	2.94	2.99	3.09	3.14	3.14	3.16	3.13	3.23	NA	NA	NA	NA
Mexico.....	3.16	3.17	3.09	3.32	3.38	3.25	3.27	3.31	3.36	NA	NA	NA	NA
Other Non-OECD....	8.73	9.14	9.83	10.02	10.13	10.18	10.40	10.18	10.52	NA	NA	NA	NA
Total Non-OECD....	49.34	49.56	50.71	51.64	51.78	51.93	52.56	51.98	53.74	NA	NA	NA	NA
Total Supply.....	67.34	68.22	69.92	71.17	71.34	71.54	72.73	71.70	73.80	NA	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)

	1992	1993	1994	1995				1996				
		Year End		Quarter				Quarter				
				First	Second	Third	Fourth	First	Second	Third	Fourth	
OECD												
United States ^{1/}												
Commercial.....	1,017	1,060	1,061	1,009	1,017	1,028	971	893	962	980	944	
Strategic.....	575	587	592	592	592	592	592	589	584	574	566	
U. S. Territories.....	24	25	26	23	26	25	24	22	23	29	25	
Canada.....	107	105	119	124	128	120	109	108	104	110	104	
Japan.....	603	618	645	619	640	658	630	627	640	664	651	
OECD Europe												
France.....	146	158	158	152	166	162	159	157	160	152	158	
Germany.....	310	309	312	304	301	301	301	296	296	295	300	
Italy.....	174	163	164	159	168	163	162	153	158	162	154	
United Kingdom.....	113	118	115	105	102	110	107	106	104	105	108	
Other OECD Europe....	476	475	490	469	471	497	499	502	510	514	538	
Total.....	1,219	1,221	1,240	1,189	1,208	1,232	1,228	1,214	1,228	1,228	1,257	
Australia & New Zealand	43	44	43	45	47	52	47	49	48	53	43	
Total OECD.....	3,588	3,661	3,726	3,601	3,658	3,707	3,601	3,501	3,589	3,639	3,590	
Stocks for Export												
and Afloat ^{2/}	930	945	935	955	950	1,000	980	1,025	1,035	1,050	1,100	
Commercial Floating ^{3/}	70	70	70	70	70	70	70	70	70	70	70	

^{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, 1992-1996
(Million Barrels Per Day)

	1992	1993	1994	1995				1996					
	Annual Average	Annual Average	Annual Average	Quarter				Annual Average	Quarter				Annual Average
				First	Second	Third	Fourth		First	Second	Third	Fourth	
OECD													
United States ¹ /.....	17.03	17.24	17.72	17.64	17.52	17.74	18.00	17.72	18.29	17.91	18.09	18.63	18.23
U. S. Territories.....	.22	.24	.26	.24	.26	.25	.20	.24	.21	.19	.17	.19	.19
Canada.....	1.64	1.69	1.73	1.74	1.66	1.79	1.82	1.76	1.78	1.69	1.81	1.80	1.77
Japan.....	5.45	5.40	5.67	6.37	5.18	5.34	5.96	5.71	6.42	5.21	5.36	5.99	5.75
OECD Europe ² /													
France.....	1.93	1.88	1.83	1.95	1.81	1.87	1.95	1.90	2.02	1.86	1.93	1.97	1.94
Italy.....	1.94	1.85	1.84	2.11	1.94	1.94	2.21	2.05	2.15	1.88	1.97	2.06	2.02
United Kingdom.....	1.80	1.81	1.84	1.90	1.80	1.79	1.88	1.84	1.84	1.81	1.82	1.90	1.84
Germany ³ /.....	2.84	2.90	2.88	2.90	2.90	2.90	2.80	2.88	2.93	2.81	3.03	2.86	2.91
Other OECD Europe....	5.10	5.08	5.21	5.38	5.32	5.37	5.75	5.45	5.61	5.33	5.62	5.82	5.60
Total OECD Europe....	13.60	13.52	13.60	14.24	13.77	13.87	14.59	14.12	14.56	13.69	14.35	14.62	14.30
Australia & New Zealand	.82	.88	.92	.97	.99	.99	1.00	.99	.97	.95	.92	.95	.95
Total OECD.....	38.77	38.97	39.89	41.20	39.39	39.98	41.58	40.54	42.23	39.65	40.70	42.19	41.20
Non-OECD													
China.....	2.66	2.96	3.14	3.25	3.30	3.33	3.38	3.31	3.51	3.56	3.60	3.65	3.58
Former USSR.....	6.81	5.64	4.85	5.00	4.50	4.50	4.90	4.72	4.75	4.27	4.27	4.65	4.49
Other Non-OECD.....	18.50	19.48	20.43	21.61	21.30	21.18	22.44	21.62	22.49	22.41	21.73	23.21	22.46
Total Non-OECD.....	27.97	28.08	28.42	29.86	29.10	29.01	30.72	29.66	30.75	30.25	29.60	31.51	30.53
Total World Demand.....	66.74	67.04	68.31	71.06	68.49	68.99	72.30	70.19	72.98	69.90	70.30	73.70	71.72

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 1995 and Petroleum Supply Monthly, April 1997.

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 1995 and Petroleum Supply Monthly, April 1997.

Other OECD Countries: • Organization for Economic Cooperation and Development (OECD), Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Monthly Oil Statistics data base, 1990-1997. 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 1995 and Petroleum Supply Monthly, April 1997.

Other OECD Countries: • OECD, Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Monthly Oil Statistics data base, 1990-1997.

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, (1996 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..	21.388	7.333	-0.844	1.736	2.787	1.761	1.891	7.482	-0.775	5.784	1.565
Imports from OPEC ^{5/}	15.683	6.130	.234	.897	.659	1.234	3.106	4.171	.262	4.470	.651
Imports from Persian Gulf ^{6/}											
Total.....	9.261	3.211	.102	.573	.145	.497	1.894	1.593	.117	4.027	.313
Bahrain.....	.035	.001	.000	.001	.000	.001	.000	-.002	-	.032	.003
Iran.....	1.596	1.109	.017	.172	.018	.264	.638	.000	.035	.451	.000
Iraq.....	.004	.002	.000	.000	.000	.000	.002	.001	.000	.000	.000
Kuwait.....	1.043	.292	.032	.017	.016	.000	.227	.235	.010	.495	.011
U.A.E.....	1.472	.003	.000	.001	.000	.000	.002	-.003	.000	1.396	.077
Qatar.....	.351	.002	.000	.000	.000	.002	.000	.000	-	.334	.016
Saudi Arabia.....	4.760	1.801	.054	.381	.111	.231	1.023	1.363	.072	1.318	.206
Imports from OPEC-Africa											
Total.....	3.851	2.665	.090	.323	.461	.708	1.082	.869	.093	.032	.192
Algeria.....	1.093	.750	.023	.105	.125	.109	.388	.256	.064	.012	.012
Libya.....	1.203	1.203	.035	.051	.257	.575	.286	.000	.000	-	.000
Nigeria.....	1.555	.713	.032	.168	.079	.025	.408	.613	.030	.020	.180
Imports from OPEC-South America											
Total.....	1.980	.224	.042	.001	.053	.008	.121	1.648	.051	.002	.054
Venezuela.....	1.980	.224	.042	.001	.053	.008	.121	1.648	.051	.002	.054
Imports from OPEC-Far East											
Total.....	.626	.030	.000	.000	.000	.020	.010	.058	.000	.441	.097
Indonesia.....	.626	.030	.000	.000	.000	.020	.010	.058	.000	.441	.097

^{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, (4th Quarter 1996)
(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..	21.594	7.743	-0.835	1.815	2.817	1.765	2.182	8.410	-0.925	5.763	0.603
Imports from OPEC ^{5/}	15.729	6.217	.227	.894	.637	1.267	3.192	4.043	.261	4.503	.704
Imports from Persian Gulf ^{6/}											
Total.....	9.381	3.188	.095	.556	.155	.494	1.888	1.609	.101	4.144	.338
Bahrain.....	.036	.002	.000	.000	.000	.002	.000	-.001	-	.034	.001
Iran.....	1.560	1.011	.003	.143	.011	.242	.611	.000	.034	.514	.001
Iraq.....	.014	.010	.000	.000	.000	.000	.010	.005	.000	.000	.000
Kuwait.....	1.029	.284	.028	.006	.021	.000	.230	.250	.000	.486	.008
U.A.E.....	1.546	.000	.000	.000	.000	.000	.000	.003	.000	1.451	.092
Qatar.....	.269	.000	.000	.000	.000	.000	.000	.000	-	.265	.005
Saudi Arabia.....	4.926	1.881	.064	.406	.123	.250	1.037	1.352	.067	1.395	.232
Imports from OPEC-Africa											
Total.....	3.772	2.801	.101	.337	.444	.749	1.171	.647	.104	.020	.200
Algeria.....	1.050	.750	.032	.106	.090	.110	.413	.212	.084	.000	.003
Libya.....	1.210	1.210	.032	.055	.253	.589	.281	.000	.000	-	.000
Nigeria.....	1.512	.841	.038	.176	.102	.050	.476	.435	.020	.020	.196
Imports from OPEC-South America											
Total.....	2.030	.214	.031	.002	.038	.009	.134	1.705	.056	.000	.056
Venezuela.....	2.030	.214	.031	.002	.038	.009	.134	1.705	.056	.000	.056
Imports from OPEC-Far East											
Total.....	.582	.017	.000	.000	.000	.017	.000	.081	.000	.373	.111
Indonesia.....	.582	.017	.000	.000	.000	.017	.000	.081	.000	.373	.111

^{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, (3rd Quarter 1996)
(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..	21.654	7.466	-0.816	1.699	2.893	1.762	1.928	8.523	-0.599	5.591	0.673
Imports from OPEC ^{5/}	15.682	6.051	.226	.922	.678	1.229	2.995	4.450	.244	4.269	.667
Imports from Persian Gulf ^{6/}											
Total.....	9.145	3.148	.077	.566	.176	.509	1.820	1.714	.129	3.825	.329
Bahrain.....	.021	.003	.000	.003	.000	.000	.000	-.004	-	.018	.004
Iran.....	1.651	1.195	.006	.175	.032	.315	.666	.000	.064	.392	.000
Iraq.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Kuwait.....	1.049	.277	.020	.043	.017	.000	.198	.258	.000	.497	.017
U.A.E.....	1.457	.010	.000	.003	.000	.000	.007	-.001	.000	1.365	.083
Qatar.....	.361	.000	.000	.000	.000	.000	.000	.000	-	.340	.021
Saudi Arabia.....	4.607	1.664	.051	.343	.127	.194	.949	1.460	.065	1.212	.205
Imports from OPEC-Africa											
Total.....	3.915	2.606	.096	.359	.431	.688	1.031	1.005	.067	.023	.214
Algeria.....	1.104	.740	.025	.108	.087	.124	.398	.272	.057	.013	.022
Libya.....	1.220	1.220	.039	.070	.291	.550	.270	.000	.000	-	.000
Nigeria.....	1.590	.645	.032	.181	.054	.015	.364	.733	.010	.010	.192
Imports from OPEC-South America											
Total.....	2.028	.237	.053	.000	.071	.008	.105	1.683	.048	.003	.057
Venezuela.....	2.028	.237	.053	.000	.071	.008	.105	1.683	.048	.003	.057
Imports from OPEC-Far East											
Total.....	.614	.063	.000	.000	.000	.024	.039	.044	.000	.436	.071
Indonesia.....	.614	.063	.000	.000	.000	.024	.039	.044	.000	.436	.071

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)

	1996											1997
	Feb	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan
Total.....	20.500	21.782	21.721	21.330	20.239	21.896	22.112	20.931	22.104	21.141	21.558	22.413
United States ¹ /....	7.240	8.101	8.381	9.023	9.025	8.608	8.970	7.974	8.702	8.119	8.400	8.595
Canada.....	-.704	-.660	-.831	-.803	-.816	-.373	-.757	-.669	-.791	-1.013	-.975	-.930
OECD Europe ² /.....	7.358	7.081	7.745	6.793	6.267	7.795	6.831	7.782	7.931	7.811	7.526	7.744
Main European Importers												
France.....	1.822	1.815	1.998	1.557	1.489	1.910	1.533	1.652	1.781	1.861	1.805	1.920
Germany ³ /.....	2.849	2.689	2.630	2.666	2.698	2.869	2.886	2.925	2.793	2.868	2.792	2.939
Italy.....	1.764	1.822	1.691	1.729	1.611	1.749	1.757	1.780	1.743	1.741	1.809	2.036
Spain.....	1.139	1.090	1.206	1.119	1.257	1.045	1.394	1.115	1.203	1.294	1.252	1.239
Netherlands.....	.629	.546	.769	.776	.741	.825	.671	.893	.835	.944	.812	.760
European Net Exporters												
Norway.....	-3.319	-2.972	-3.180	-2.954	-3.391	-2.954	-3.398	-3.162	-2.840	-3.482	-3.108	-3.184
United Kingdom....	-.970	-.785	-.721	-.865	-.846	-.912	-.859	-.672	-.756	-.732	-1.014	-.952
Smaller European Importers												
Austria.....	.219	.182	.251	.202	.199	.245	.153	.162	.191	.192	.211	.196
Belgium.....	.702	.542	.583	.537	.485	.560	.447	.667	.543	.490	.623	.531
Denmark.....	.044	.033	.074	.013	.059	.029	.004	.014	.067	.049	-.019	.037
Ireland.....	.105	.111	.135	.142	.108	.147	.102	.138	.131	.106	.143	.140
Finland.....	.228	.138	.209	.030	.157	.260	.144	.221	.188	.202	.209	.101
Greece.....	.359	.353	.425	.311	.270	.224	.380	.347	.410	.438	.355	.333
Iceland.....	.011	.014	.005	.005	.026	.014	.019	.019	.018	.022	.008	.018
Luxembourg.....	.042	.037	.041	.039	.037	.039	.035	.036	.042	.041	.038	.039
Portugal.....	.272	.215	.320	.242	.201	.383	.260	.290	.250	.404	.244	.274
Sweden.....	.508	.574	.479	.454	.429	.518	.394	.374	.452	.450	.451	.447
Switzerland.....	.258	.235	.238	.233	.251	.264	.265	.282	.269	.281	.289	.249
Turkey.....	.694	.442	.590	.559	.485	.578	.645	.701	.610	.642	.626	.622
Japan.....	6.081	6.596	5.769	5.589	5.172	5.059	6.362	5.343	5.557	5.743	5.989	6.215
Other OECD.....	.524	.664	.657	.728	.591	.807	.706	.501	.705	.482	.618	.788

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)

	1996											1997
	Feb	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan
Total.....	15.853	16.230	15.794	15.491	14.773	15.407	16.290	15.337	15.527	15.830	15.833	16.348
United States ¹ /....	3.675	4.120	3.969	4.461	4.239	4.566	4.610	4.165	4.255	3.915	3.955	4.066
Canada.....	.333	.321	.191	.203	.264	.240	.235	.257	.238	.261	.284	.293
OECD Europe ² /.....	6.628	6.173	6.363	5.909	5.725	6.027	5.909	6.223	5.905	6.570	6.189	6.211
Main European Importers												
France.....	.885	1.009	.958	.928	.753	1.142	.720	.904	.795	1.003	.888	.820
Germany ³ /.....	.638	.665	.684	.648	.623	.713	.619	.703	.614	.652	.646	.605
Italy.....	1.365	1.341	1.199	1.072	1.182	1.128	1.241	1.322	1.208	1.284	1.310	1.429
Spain.....	.699	.835	.761	.639	.777	.648	.812	.746	.887	.926	.864	.960
Netherlands.....	.914	.612	.840	.806	.658	.817	.724	.709	.705	.712	.854	.623
European Net Exporters												
Norway.....	.000	.000	.000	.000	.000	.000	.000	.006	.000	.000	.000	.009
United Kingdom....	.222	.220	.216	.305	.247	.158	.234	.288	.185	.310	.188	.179
Smaller European Importers												
Austria.....	.171	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.107
Belgium.....	.329	.267	.260	.287	.284	.249	.251	.288	.319	.372	.263	.328
Denmark.....	.026	.025	.051	.024	.000	.000	.024	.025	.049	.032	.044	.025
Ireland.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	-
Finland.....	.003	.001	.000	.000	.000	.000	.000	.000	.011	.000	.000	.001
Greece.....	.254	.289	.292	.313	.315	.198	.314	.309	.280	.302	.297	.196
Portugal.....	.194	.173	.313	.150	.134	.222	.240	.172	.099	.182	.164	.147
Sweden.....	.246	.242	.203	.170	.196	.209	.121	.116	.149	.142	.142	.143
Switzerland.....	.114	.086	.084	.082	.110	.097	.105	.113	.108	.093	.079	.107
Turkey.....	.567	.408	.502	.486	.445	.445	.502	.522	.496	.561	.448	.533
Japan.....	4.660	5.059	4.589	4.309	3.921	3.862	4.805	4.136	4.400	4.520	4.590	4.962
Other OECD.....	.557	.557	.682	.609	.625	.712	.731	.555	.729	.565	.815	.816

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)

	1996											1997
	Feb	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan
Total.....	9.421	9.662	9.493	9.020	8.526	8.779	9.612	9.042	8.987	9.607	9.556	9.648
United States ¹ /....	1.341	1.543	1.467	1.743	1.521	1.812	1.746	1.580	1.632	1.512	1.681	1.548
Canada.....	.111	.162	.145	.122	.068	.130	.127	.132	.114	.076	.114	.128
OECD Europe ² /.....	3.585	3.230	3.438	2.898	3.090	3.035	3.069	3.347	2.963	3.519	3.092	3.059
Main European Importers												
France.....	.637	.604	.656	.545	.465	.705	.459	.533	.459	.642	.569	.535
Germany ³ /.....	.080	.118	.125	.134	.187	.178	.153	.199	.193	.167	.106	.088
Italy.....	.546	.601	.501	.307	.516	.447	.513	.569	.459	.515	.508	.550
Spain.....	.312	.353	.289	.217	.250	.298	.294	.353	.350	.327	.288	.340
Netherlands.....	.724	.457	.643	.554	.520	.543	.508	.489	.461	.558	.597	.452
European Net Exporters												
Norway.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
United Kingdom....	.095	.116	.086	.113	.120	.038	.083	.111	.097	.122	.067	.066
Smaller European Importers												
Austria.....	.047	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Belgium.....	.301	.242	.233	.254	.256	.233	.228	.265	.300	.354	.242	.319
Denmark.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Finland.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Greece.....	.221	.250	.259	.287	.283	.076	.270	.266	.239	.270	.245	.164
Portugal.....	.110	.051	.143	.036	.019	.102	.137	.105	.033	.099	.110	.081
Sweden.....	.165	.162	.137	.115	.132	.141	.081	.078	.100	.095	.096	.096
Switzerland.....	.000	.005	.005	.009	.010	.009	.009	.010	.009	.005	.000	.004
Turkey.....	.348	.270	.361	.326	.332	.265	.333	.370	.261	.365	.265	.363
Japan.....	4.103	4.514	4.089	3.930	3.528	3.421	4.310	3.740	3.986	4.242	4.206	4.543
Other OECD.....	.281	.212	.355	.326	.318	.381	.360	.242	.293	.258	.462	.369

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)

	1996											1997
	Feb	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan
Total Net Imports..	7.240	8.101	8.381	9.023	9.025	8.608	8.970	7.974	8.702	8.119	8.400	8.595
Imports from OPEC ^{1/}	3.675	4.120	3.969	4.461	4.239	4.566	4.610	4.165	4.255	3.915	3.955	4.066
Imports from Persian Gulf ^{2/}												
Total.....	1.341	1.543	1.467	1.743	1.521	1.812	1.746	1.580	1.632	1.512	1.681	1.548
Bahrain.....	-.003	-.001	-.003	.000	.000	-.004	.000	-.007	.000	-.003	.000	-.003
Iran.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Iraq.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.014	.000
Kuwait.....	.216	.127	.201	.230	.388	.266	.271	.236	.260	.228	.262	.209
U.A.E.....	.000	-.002	-.019	-.005	-.005	.002	-.002	-.002	.015	-.003	-.003	.000
Qatar.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Saudi Arabia.....	1.128	1.419	1.288	1.518	1.138	1.548	1.477	1.353	1.357	1.290	1.408	1.342
Imports from OPEC-Africa												
Total.....	.833	.835	.729	1.038	1.023	1.032	1.100	.879	.729	.679	.534	.813
Algeria.....	.200	.241	.211	.333	.313	.312	.315	.186	.209	.214	.214	.282
Libya.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Nigeria.....	.633	.594	.518	.705	.710	.720	.785	.693	.520	.465	.320	.531
Imports from OPEC-South America												
Total.....	1.457	1.683	1.716	1.631	1.626	1.662	1.714	1.673	1.769	1.685	1.659	1.629
Venezuela.....	1.457	1.683	1.716	1.631	1.626	1.662	1.714	1.673	1.769	1.685	1.659	1.629
Imports from OPEC-Far East												
Total.....	.041	.058	.054	.049	.069	.056	.050	.026	.125	.036	.081	.073
Indonesia.....	.041	.058	.054	.049	.069	.056	.050	.026	.125	.036	.081	.073

^{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)

	1996											1997
	Feb	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan
Total Net Imports..	6.081	6.596	5.769	5.589	5.172	5.059	6.362	5.343	5.557	5.743	5.989	6.215
Imports from OPEC ^{1/}	4.660	5.059	4.589	4.309	3.921	3.862	4.805	4.136	4.400	4.520	4.590	4.962
Imports from Persian Gulf ^{2/}												
Total.....	4.103	4.514	4.089	3.930	3.528	3.421	4.310	3.740	3.986	4.242	4.206	4.543
Bahrain.....	.022	.032	.026	.046	.042	.015	.016	.023	.015	.041	.046	.045
Iran.....	.564	.496	.477	.394	.326	.191	.447	.542	.446	.642	.456	.465
Iraq.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Kuwait.....	.455	.545	.500	.467	.458	.505	.523	.462	.500	.471	.487	.640
U.A.E.....	1.314	1.538	1.498	1.235	1.288	1.283	1.529	1.281	1.408	1.529	1.417	1.669
Qatar.....	.353	.452	.342	.400	.314	.277	.415	.330	.341	.182	.269	.276
Saudi Arabia.....	1.395	1.452	1.245	1.389	1.100	1.150	1.381	1.103	1.276	1.377	1.530	1.449
Imports from OPEC-Africa												
Total.....	.029	.078	.047	.018	.031	.011	.023	.035	.060	.000	.000	.033
Algeria.....	.008	.018	.031	.006	.031	.011	.010	.018	.000	.000	.000	.000
Nigeria.....	.021	.060	.016	.012	.000	.000	.013	.017	.060	.000	.000	.033
Imports from OPEC-South America												
Total.....	.000	.000	.000	.010	.000	.000	.000	.010	.000	.000	.000	.025
Venezuela.....	.000	.000	.000	.010	.000	.000	.000	.010	.000	.000	.000	.025
Imports from OPEC-Far East												
Total.....	.549	.499	.479	.397	.404	.446	.488	.373	.369	.319	.430	.406
Indonesia.....	.549	.499	.479	.397	.404	.446	.488	.373	.369	.319	.430	.406

^{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)

	1996											1997
	Feb	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan
Total Net Imports..	7.358	7.081	7.745	6.793	6.267	7.795	6.831	7.782	7.931	7.811	7.526	7.744
Imports from OPEC ^{1/}	6.628	6.173	6.363	5.909	5.725	6.027	5.909	6.223	5.905	6.570	6.189	6.211
Imports from Persian Gulf ^{2/}												
Total.....	3.585	3.230	3.438	2.898	3.090	3.035	3.069	3.347	2.963	3.519	3.092	3.059
Bahrain.....	.000	.000	.000	.000	.000	.000	.000	.008	.000	.005	.000	.003
Iran.....	1.308	1.205	1.121	.859	1.128	1.040	1.169	1.381	1.016	1.062	.956	.849
Iraq.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.029	.207
Kuwait.....	.447	.301	.299	.268	.234	.291	.205	.337	.232	.380	.244	.276
U.A.E.....	.004	.000	.000	.000	.000	.021	.000	.008	.000	.000	.001	.005
Qatar.....	.000	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Saudi Arabia.....	1.826	1.706	2.017	1.771	1.728	1.683	1.695	1.613	1.714	2.072	1.862	1.720
Imports from OPEC-Africa												
Total.....	2.789	2.677	2.669	2.709	2.420	2.640	2.616	2.559	2.735	2.776	2.891	2.984
Algeria.....	.863	.729	.777	.759	.674	.726	.708	.788	.791	.688	.771	.833
Libya.....	1.220	1.256	1.186	1.179	1.062	1.226	1.323	1.108	1.235	1.169	1.224	1.322
Nigeria.....	.706	.692	.706	.772	.683	.688	.585	.663	.709	.919	.896	.828
Imports from OPEC-South America												
Total.....	.237	.238	.249	.285	.197	.243	.207	.262	.191	.262	.189	.154
Venezuela.....	.237	.238	.249	.285	.197	.243	.207	.262	.191	.262	.189	.154
Imports from OPEC-Far East												
Total.....	.018	.028	.007	.017	.018	.108	.017	.063	.016	.018	.016	.017
Indonesia.....	.018	.028	.007	.017	.018	.108	.017	.063	.016	.018	.016	.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.

•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)

	1996											1997
	Feb	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan
Total Net Imports..	1.822	1.815	1.998	1.557	1.489	1.910	1.533	1.652	1.781	1.861	1.805	1.920
Imports from OPEC ^{1/}	.885	1.009	.958	.928	.753	1.142	.720	.904	.795	1.003	.888	.820
Imports from Persian Gulf ^{2/}												
Total.....	.637	.604	.656	.545	.465	.705	.459	.533	.459	.642	.569	.535
Bahrain.....	.000	.000	.000	.000	.000	.000	.000	.008	.000	.000	.000	.000
Iran.....	.129	.254	.192	.145	.164	.246	.153	.124	.121	.186	.123	.061
Iraq.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.065
Kuwait.....	.000	.000	.062	.000	.000	.063	.000	.065	.000	.018	.000	.002
U.A.E.....	.001	.000	.000	.000	.000	.000	.000	.008	.000	.000	.001	.000
Qatar.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Saudi Arabia.....	.507	.351	.402	.401	.301	.395	.306	.327	.338	.437	.444	.407
Imports from OPEC-Africa												
Total.....	.248	.405	.303	.382	.288	.437	.261	.379	.335	.356	.319	.285
Algeria.....	.039	.134	.138	.112	.123	.089	.106	.128	.140	.110	.068	.177
Libya.....	.037	.065	.026	.032	.028	.075	.079	.057	.027	.069	.068	.014
Nigeria.....	.172	.206	.138	.238	.137	.273	.076	.194	.168	.177	.183	.094
Imports from OPEC-South America												
Total.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.006	.000	.000
Venezuela.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.006	.000	.000
Imports from OPEC-Far East												
Total.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Indonesia.....	.000	.000	.000	.000	.000	.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. •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)

	1996											1997
	Feb	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan
Total Net Imports..	2.849	2.689	2.630	2.666	2.698	2.869	2.886	2.925	2.793	2.868	2.792	2.939
Imports from OPEC ^{1/}	.638	.665	.684	.648	.623	.713	.619	.703	.614	.652	.646	.605
Imports from Persian Gulf ^{2/}												
Total.....	.080	.118	.125	.134	.187	.178	.153	.199	.193	.167	.106	.088
Bahrain.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Iran.....	.001	.018	.007	.004	.038	.033	.029	.034	.016	.018	.000	.012
Iraq.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Kuwait.....	.006	.018	.021	.012	.005	.016	.015	.021	.025	.028	.011	.009
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.....	.073	.082	.097	.117	.144	.129	.109	.144	.152	.122	.094	.068
Imports from OPEC-Africa												
Total.....	.509	.533	.468	.440	.394	.459	.418	.417	.395	.426	.511	.503
Algeria.....	.197	.148	.184	.162	.079	.115	.055	.089	.045	.084	.139	.108
Libya.....	.262	.257	.263	.185	.214	.317	.292	.264	.278	.229	.250	.276
Nigeria.....	.050	.128	.021	.092	.101	.027	.071	.064	.072	.112	.121	.118
Imports from OPEC-South America												
Total.....	.049	.014	.091	.073	.042	.076	.049	.087	.025	.059	.030	.014
Venezuela.....	.049	.014	.091	.073	.042	.076	.049	.087	.025	.059	.030	.014
Imports from OPEC-Far East												
Total.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Indonesia.....	.000	.000	.000	.000	.000	.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. •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)

	1996											1997
	Feb	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan
Total Net Imports..	1.764	1.822	1.691	1.729	1.611	1.749	1.757	1.780	1.743	1.741	1.809	2.036
Imports from OPEC ^{1/}	1.365	1.341	1.199	1.072	1.182	1.128	1.241	1.322	1.208	1.284	1.310	1.429
Imports from Persian Gulf ^{2/}												
Total.....	.546	.601	.501	.307	.516	.447	.513	.569	.459	.515	.508	.550
Bahrain.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.005	.000	.003
Iran.....	.336	.295	.228	.115	.297	.281	.301	.364	.268	.209	.247	.241
Iraq.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.048
Kuwait.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
U.A.E.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Qatar.....	.000	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Saudi Arabia.....	.211	.287	.273	.192	.219	.165	.211	.205	.192	.300	.261	.258
Imports from OPEC-Africa												
Total.....	.801	.713	.681	.715	.648	.665	.687	.714	.732	.727	.785	.848
Algeria.....	.147	.089	.081	.116	.096	.123	.095	.153	.121	.088	.120	.110
Libya.....	.591	.623	.600	.561	.552	.541	.592	.515	.594	.568	.605	.632
Nigeria.....	.063	.000	.000	.039	.000	.000	.000	.047	.017	.071	.061	.105
Imports from OPEC-South America												
Total.....	.000	.000	.010	.034	.000	.000	.024	.000	.000	.029	.000	.017
Venezuela.....	.000	.000	.010	.034	.000	.000	.024	.000	.000	.029	.000	.017
Imports from OPEC-Far East												
Total.....	.018	.028	.007	.017	.018	.017	.017	.039	.016	.018	.016	.017
Indonesia.....	.018	.028	.007	.017	.018	.017	.017	.039	.016	.018	.016	.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. •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)

	1996											1997
	Feb	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan
Total.....	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.043	0.207
United States ^{2/}.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.014	.000
Canada.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
OECD Europe ^{3/}.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.029	.207
Main European Importers												
France.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.065
Germany ^{4/}.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Italy.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.048
Spain.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.029	.094
Netherlands.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
European Net Exporters												
United Kingdom....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Smaller European Importers												
Austria.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Belgium.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Denmark.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	-
Greece.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Portugal.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Sweden.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	-
Switzerland.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	-
Turkey.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Japan.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Other OECD.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

^{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)

	1996											1997
	Feb	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan
Total.....	1.169	1.020	1.002	0.974	1.083	1.091	1.019	1.037	1.004	1.081	1.004	1.135
United States ¹ /.....	.216	.127	.201	.230	.388	.266	.271	.236	.260	.228	.262	.209
Canada.....	.040	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
OECD Europe ² /.....	.447	.301	.299	.268	.234	.291	.205	.337	.232	.380	.244	.276
Main European Importers												
France.....	.000	.000	.062	.000	.000	.063	.000	.065	.000	.018	.000	.002
Germany ³ /.....	.006	.018	.021	.012	.005	.016	.015	.021	.025	.028	.011	.009
Italy.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Spain.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Netherlands.....	.350	.158	.147	.209	.153	.212	.144	.205	.170	.227	.170	.168
European Net Exporters												
Norway.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
United Kingdom....	.033	.057	.030	.029	.059	.000	.029	.030	.000	.057	.028	.028
Smaller European Importers												
Austria.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	-
Belgium.....	.042	.052	.025	.001	.000	.000	.000	.000	.015	.029	.015	.053
Denmark.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Greece.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Portugal.....	.000	.000	.000	.000	.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.....	.016	.016	.016	.016	.016	.000	.016	.016	.021	.022	.021	.016
Japan.....	.455	.545	.500	.467	.458	.505	.523	.462	.500	.471	.487	.640
Other OECD.....	.011	.010	.002	.010	.003	.029	.019	.002	.011	.002	.011	.010

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 1995 and Petroleum Supply Monthly, April 1997.
Other OECD Countries: • Organization for Economic Cooperation and Development (OECD), Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Monthly Oil Statistics data base, 1991-1997.

4. Historical Oil Data Series

1970-1996

Table 4.1a World Crude Oil Production (Including Lease Condensate), 1970-1996
(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	483	8,231	2,279	2,750	26,092
1996 Average P.....	1,242	1,547	3,686	584	2,062	1,401	2,188	510	8,218	2,278	3,053	26,769

^{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), 1970-1996
(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 P.....	3,104	2,568	5,822	717	756	570	795	1,823	3,131	623	387

^{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), 1970-1996
(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	3,233	60,216
1993 Average.....	890	313	534	640	2,673	776	6,730	--	554	6,847	3,290	60,247
1994 Average.....	896	329	590	645	2,685	810	6,135	--	560	6,662	3,393	61,003
1995 Average.....	920	345	703	682	2,618	851	5,995	--	610	6,560	3,423	62,446
1996 Average P....	922	368	651	695	2,855	883	R5,774	--	604	6,471	R3,533	63,999

^{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. R=Revised data.

Sources: See end of Section 4.

Table 4.2 OPEC Crude Oil Production (Excluding Condensate), 1980-1996
(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 P.	812	1,367	3,651	579	2,062	1,401	2,051	475	8,218	2,198	3,013	25,826

^{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, 1970-1996
(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	4,973
1993 Average.....	145	506	459	704	220	--	1,736	1,040	1,238	1,435	5,169
1994 Average.....	140	529	461	698	200	--	1,727	1,071	1,267	1,465	5,282
1995 Average.....	145	581	447	701	180	--	1,762	1,106	1,301	1,506	5,474
1996 Average P....	145	599	423	697	248	--	1,831	1,082	1,274	1,452	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, 1970-1996
(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	64,153
1981 Average.....	10,739	15,894	17,619	23,393	60,763
1982 Average.....	10,783	12,815	13,786	19,702	58,226
1983 Average.....	10,788	11,676	12,416	18,352	58,056
1984 Average.....	11,107	11,433	12,619	18,389	59,645
1985 Average.....	11,192	10,320	11,498	17,151	59,264
1986 Average.....	10,905	12,441	13,653	19,310	61,771
1987 Average.....	10,648	12,869	13,992	19,589	62,429
1988 Average.....	10,473	14,310	15,662	21,465	64,707
1989 Average.....	9,880	15,733	16,658	23,323	65,894
1990 Average.....	9,677	16,249	17,232	24,536	66,756
1991 Average.....	9,883	15,704	16,747	24,625	66,634
1992 Average.....	9,768	17,010	17,871	25,818	66,937
1993 Average.....	9,602	17,792	18,505	26,610	67,345
1994 Average.....	9,413	18,072	18,745	27,031	68,218
1995 Average.....	9,400	18,439	19,192	27,654	69,916
1996 Average P.....	9,440	18,491	19,243	28,277	71,699

_{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 P....	158	154	R300	108	R1,257	1,510	104	651	R68	R3,590

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. R=Revised data.

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

Sources: See end of Section 4.

Table 4.6 World Oil Demand, 1970-1996
(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	954	33,793	336	34,129	58,744
1984 Average...	1,754	1,646	2,322	1,849	11,736	15,726	1,472	4,576	989	34,500	340	34,840	59,836
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	301	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	283	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	R1,118	--	--	R38,967	R67,043
1994 Average...	1,833	1,841	2,879	1,837	13,597	17,718	1,727	5,674	R1,174	--	--	R39,890	R68,313
1995 Average...	1,896	2,048	2,875	1,845	14,120	17,725	1,755	5,711	1,227	--	--	40,537	R70,193
1996 Average P.	R1,945	2,015	2,908	R1,841	R14,304	18,234	R1,770	R5,748	R1,139	--	--	R41,195	R71,723

^{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, 1986-1996
(Million Barrels per Day)

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
	Average										
Total.....	17.670	18.008	18.706	20.082	20.456	20.414	20.783	21.226	21.133	20.717	21.388
United States ¹ /....	5.439	5.914	6.587	7.202	7.161	6.626	6.938	7.618	7.986	7.883	7.482
Canada.....	-.391	-.358	-.585	-.462	-.425	-.479	-.546	-.586	-.623	-.756	-.775
OECD Europe ² /.....	7.893	7.742	7.774	7.994	8.210	8.588	8.459	8.127	7.355	7.226	7.333
Main European Importers											
France.....	1.682	1.742	1.718	1.711	1.750	1.869	1.784	1.761	1.615	1.721	1.736
Germany ³ /.....	2.380	2.281	2.279	2.112	2.202	2.664	2.739	2.723	2.731	2.699	2.787
Italy.....	1.642	1.718	1.590	1.716	1.788	1.769	1.839	1.747	1.778	1.820	1.761
Netherlands.....	.632	.562	.646	.635	.677	.690	.713	.688	.720	.700	.767
Spain.....	.747	.803	.869	.952	.950	.951	.998	1.066	1.119	1.202	1.181
European Net Exporters											
Norway.....	-.718	-.866	-1.036	-1.420	-1.543	-1.825	-2.102	-2.254	-2.586	-2.794	-3.149
United Kingdom....	-1.067	-1.015	-.760	-.200	-.214	-.158	-.221	-.355	-.850	-.969	-.844
Smaller European Importers											
Austria.....	.188	.194	.185	.191	.201	.212	.209	.205	.210	.194	.200
Belgium.....	.456	.443	.451	.454	.442	.506	.517	.503	.517	.495	.558
Denmark.....	.150	.122	.107	.078	.063	.048	.032	.023	.027	.039	.031
Ireland.....	.098	.081	.076	.079	.095	.094	.097	.102	.109	.116	.124
Finland.....	.229	.242	.200	.220	.208	.211	.188	.182	.234	.145	.174
Greece.....	.245	.230	.242	.252	.273	.297	.326	.327	.292	.343	.350
Iceland.....	.011	.013	.012	.011	.011	.012	.011	.014	.015	.015	.015
Luxembourg.....	.024	.028	.028	.031	.034	.039	.040	.039	.040	.036	.039
Portugal.....	.183	.199	.198	.246	.250	.258	.279	.272	.270	.291	.279
Sweden.....	.379	.309	.313	.290	.324	.312	.320	.335	.362	.356	.467
Switzerland.....	.290	.254	.258	.254	.273	.273	.277	.250	.262	.248	.260
Turkey.....	.342	.402	.397	.384	.425	.366	.413	.500	.490	.569	.596
Japan.....	4.392	4.418	4.680	5.035	5.239	5.286	5.464	5.467	5.766	5.716	5.784
Other OECD.....	.338	.291	.250	.313	.270	.392	.467	.599	.648	.647	1.565

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, 1986-1996
(Million Barrels per Day)

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
	Average										
Total.....	12.280	12.327	13.049	14.521	15.576	15.360	15.567	16.018	15.765	15.469	15.683
United States ¹ /....	2.724	2.988	3.439	3.986	4.172	3.918	3.888	4.103	4.036	3.979	4.171
Canada.....	.158	.154	.161	.205	.199	.210	.210	.268	.285	.257	.262
OECD Europe ² /.....	6.073	5.597	5.842	6.188	6.633	6.728	6.758	6.794	6.385	6.154	6.130
Main European Importers											
France.....	.882	.684	.737	.875	1.101	1.021	.932	1.006	.956	.911	.897
Germany ³ /.....	.830	.675	.761	.739	.771	.859	.957	.948	.838	.711	.659
Italy.....	1.361	1.307	1.191	1.260	1.375	1.393	1.343	1.222	1.117	1.203	1.234
Netherlands.....	.768	.767	.850	.892	.850	.900	.914	.982	.906	.791	.756
Spain.....	.584	.543	.604	.686	.652	.700	.632	.582	.668	.781	.776
European Net Exporters											
Norway.....	.008	.002	.002	.003	.007	.014	.004	.005	.003	.003	.001
United Kingdom....	.324	.277	.322	.342	.406	.377	.390	.439	.306	.254	.234
Smaller European Importers											
Austria.....	.090	.087	.082	.086	.097	.108	.115	.128	.119	.057	.023
Belgium.....	.288	.257	.302	.353	.313	.362	.359	.359	.284	.276	.291
Denmark.....	.025	.053	.067	.069	.044	.006	.001	.006	.008	.022	.027
Ireland.....	.001	.001	-	-	.000	.000	.000	.000	.000	.000	.000
Finland.....	.021	.023	.011	.013	.013	.029	.033	.007	.004	.004	.001
Greece.....	.273	.279	.233	.244	.340	.298	.346	.303	.266	.263	.280
Portugal.....	.120	.101	.118	.156	.166	.139	.152	.166	.227	.209	.182
Sweden.....	.086	.062	.074	.064	.073	.105	.116	.123	.126	.109	.180
Switzerland.....	.068	.069	.051	.021	.036	.052	.051	.063	.082	.083	.098
Turkey.....	.344	.411	.439	.384	.388	.365	.412	.452	.475	.477	.493
Japan.....	3.036	3.198	3.309	3.788	4.062	4.026	4.198	4.245	4.495	4.467	4.470
Other OECD.....	.288	.389	.298	.355	.510	.478	.512	.609	.563	.612	.651

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, 1986-1996
(Million Barrels per Day)

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
	Average										
Imports from Persian Gulf											
Total.....	7.228	7.392	7.941	9.121	9.667	9.249	9.456	10.029	9.609	9.310	9.261
United States ¹ /...	.909	1.072	1.526	1.857	1.961	1.835	1.774	1.775	1.722	1.563	1.593
Canada.....	.054	.054	.056	.069	.081	.084	.092	.105	.119	.070	.117
OECD Europe ² /.....	3.513	3.330	3.428	3.754	3.908	3.660	3.666	4.048	3.506	3.365	3.211
Main European Importers											
France.....	.586	.459	.484	.647	.864	.708	.640	.757	.651	.647	.573
Germany ³ /.....	.232	.187	.197	.216	.217	.227	.215	.250	.217	.172	.145
Italy.....	.817	.782	.643	.619	.626	.595	.573	.548	.430	.494	.497
Netherlands.....	.509	.516	.587	.663	.647	.609	.650	.744	.662	.563	.548
Spain.....	.328	.295	.306	.352	.291	.281	.231	.287	.275	.324	.304
European Net Exporters											
Norway.....	.006	.002	-	-	.000	.011	.000	.000	.000	.000	.000
United Kingdom...	.173	.164	.212	.240	.250	.222	.220	.303	.174	.135	.102
Smaller European Importers											
Austria.....	.011	.026	.025	.022	.016	.021	.031	.036	.038	.035	.004
Belgium.....	.182	.162	.224	.277	.250	.279	.292	.291	.232	.252	.269
Denmark.....	.024	.047	.063	.067	.043	.004	.000	.002	.000	.000	.000
Finland.....	.021	.022	.011	.012	.011	.021	.023	.002	.002	.002	.000
Greece.....	.204	.211	.146	.181	.268	.219	.291	.253	.214	.223	.235
Portugal.....	.088	.069	.066	.085	.073	.067	.074	.050	.117	.107	.085
Sweden.....	.036	.029	.045	.043	.039	.064	.068	.088	.076	.068	.121
Switzerland.....	.008	.008	.007	.007	.007	.007	.007	.008	.012	.007	.006
Turkey.....	.289	.348	.411	.323	.307	.324	.349	.429	.405	.336	.321
Japan.....	2.557	2.637	2.691	3.173	3.394	3.370	3.586	3.721	3.946	3.979	4.027
Other OECD.....	.195	.299	.241	.267	.322	.300	.338	.381	.316	.334	.313

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, 1986-1996
(Million Barrels per Day)

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
	Average										
Total Net Imports..	5.439	5.914	6.587	7.202	7.161	6.626	6.938	7.618	7.986	7.883	7.482
Imports from OPEC ^{1/}	2.724	2.988	3.439	3.986	4.172	3.918	3.888	4.103	4.036	3.979	4.171
Imports from Persian Gulf ^{2/}											
Total.....	.909	1.072	1.526	1.857	1.961	1.835	1.774	1.775	1.722	1.563	1.593
Bahrain.....	.001	-.001	.000	-.001	-.001	-.001	-.002	-.002	-.002	-.003	-.002
Iran.....	.019	.098	.000	.000	.000	.032	.000	.000	.000	.000	.000
Iraq.....	.081	.083	.343	.449	.518	.000	.000	.000	.000	.000	.001
Kuwait.....	.068	.082	.092	.157	.086	.006	.051	.353	.312	.218	.235
U.A.E.....	.043	.059	.028	.027	.016	.001	.004	.009	.011	.004	-.003
Qatar.....	.013	.000	.000	.002	.004	.000	.001	.001	.000	.000	.000
Saudi Arabia.....	.685	.751	1.063	1.224	1.339	1.797	1.720	1.414	1.402	1.344	1.363
Imports from OPEC-Africa											
Total.....	.711	.830	.918	1.084	1.080	.956	.876	.956	.880	.859	.869
Algeria.....	.271	.295	.300	.269	.280	.253	.196	.220	.243	.234	.256
Libya.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Nigeria.....	.440	.535	.618	.815	.800	.703	.680	.736	.637	.625	.613
Imports from OPEC-South America											
Total.....	.788	.801	.790	.861	1.016	1.020	1.161	1.295	1.322	1.468	1.648
Venezuela.....	.788	.801	.790	.861	1.016	1.020	1.161	1.295	1.322	1.468	1.648
Imports from OPEC-Far East											
Total.....	.317	.284	.205	.182	.113	.106	.075	.074	.109	.087	.058
Indonesia.....	.317	.284	.205	.182	.113	.106	.075	.074	.109	.087	.058

^{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, 1986-1996
(Million Barrels per Day)

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
	Average										
Total Net Imports..	4.392	4.418	4.680	5.035	5.239	5.286	5.464	5.467	5.766	5.716	5.784
Imports from OPEC ^{1/}	3.036	3.198	3.309	3.788	4.062	4.026	4.198	4.245	4.495	4.467	4.470
Imports from Persian Gulf ^{2/}											
Total.....	2.557	2.637	2.691	3.173	3.394	3.370	3.586	3.721	3.946	3.979	4.027
Bahrain.....	.034	.037	.036	.042	.037	.037	.029	.025	.028	.029	.032
Iran.....	.220	.230	.187	.291	.385	.383	.362	.384	.459	.399	.451
Iraq.....	.164	.105	.173	.219	.146	.000	.000	.000	.000	.000	.000
Kuwait.....	.278	.347	.341	.458	.291	.014	.220	.368	.430	.501	.495
U.A.E.....	.890	.773	.822	.929	1.032	1.285	1.256	1.287	1.398	1.420	1.396
Qatar.....	.183	.139	.203	.250	.263	.285	.300	.330	.328	.335	.334
Saudi Arabia.....	.789	1.005	.930	.984	1.240	1.367	1.420	1.327	1.303	1.296	1.318
Imports from OPEC-Africa											
Total.....	.016	.023	.044	.015	.011	.011	.007	.008	.017	.026	.032
Algeria.....	.015	.023	.044	.015	.010	.010	.007	.008	.012	.011	.012
Libya.....	.001	-	-	-	-	-	-	-	-	-	-
Nigeria.....	-	-	-	-	.001	.001	.000	.000	.005	.016	.020
Imports from OPEC-South America											
Total.....	.012	.012	.011	.011	.011	.010	.010	.009	.009	.002	.002
Venezuela.....	.012	.012	.011	.011	.011	.010	.010	.009	.009	.002	.002
Imports from OPEC-Far East											
Total.....	.486	.563	.599	.631	.682	.673	.624	.533	.551	.488	.441
Indonesia.....	.486	.563	.599	.631	.682	.673	.624	.533	.551	.488	.441

^{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, 1986-1996
(Million Barrels per Day)

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
	Average										
Total Net Imports..	7.893	7.742	7.774	7.994	8.210	8.588	8.459	8.127	7.355	7.226	7.333
Imports from OPEC ^{1/}	6.073	5.597	5.842	6.188	6.633	6.728	6.758	6.794	6.385	6.154	6.130
Imports from Persian Gulf ^{2/}											
Total.....	3.513	3.330	3.428	3.754	3.908	3.660	3.666	4.048	3.506	3.365	3.211
Bahrain.....	.002	.001	.009	.005	.020	.002	.003	.004	.003	.000	.001
Iran.....	.511	.732	.850	1.076	1.190	1.132	1.113	1.253	1.074	1.149	1.109
Iraq.....	.717	.905	.959	.897	.591	.000	.000	.001	.000	.000	.002
Kuwait.....	.456	.469	.474	.452	.346	.019	.142	.461	.302	.269	.292
U.A.E.....	.164	.206	.134	.214	.446	.281	.199	.092	.067	.011	.003
Qatar.....	.054	.040	.021	.024	.026	.009	.006	.000	.000	.002	.002
Saudi Arabia.....	1.609	.978	.981	1.086	1.290	2.217	2.203	2.237	2.060	1.933	1.801
Imports from OPEC-Africa											
Total.....	2.309	2.058	2.198	2.224	2.509	2.818	2.818	2.491	2.644	2.500	2.665
Algeria.....	.615	.627	.646	.648	.683	.757	.772	.693	.690	.724	.750
Libya.....	.967	.962	1.071	1.044	1.267	1.332	1.361	1.193	1.233	1.201	1.203
Nigeria.....	.727	.469	.481	.532	.559	.729	.686	.605	.721	.575	.713
Imports from OPEC-South America											
Total.....	.252	.208	.220	.212	.227	.249	.268	.240	.219	.273	.224
Venezuela.....	.252	.208	.220	.212	.227	.249	.268	.240	.219	.273	.224
Imports from OPEC-Far East											
Total.....	.002	.002	.005	.004	.008	.002	.009	.019	.019	.017	.030
Indonesia.....	.002	.002	.005	.004	.008	.002	.009	.019	.019	.017	.030

^{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, 1986-1996
(Million Barrels per Day)

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
	Average										
Total Net Imports..	1.682	1.742	1.718	1.711	1.750	1.869	1.784	1.761	1.615	1.721	1.736
Imports from OPEC ^{1/}	.882	.684	.737	.875	1.101	1.021	.932	1.006	.956	.911	.897
Imports from Persian Gulf ^{2/}											
Total.....	.586	.459	.484	.647	.864	.708	.640	.757	.651	.647	.573
Bahrain.....	.001	-	.007	.002	.011	.000	.001	.002	.000	.000	.001
Iran.....	.065	.088	.012	.158	.182	.171	.151	.243	.156	.208	.172
Iraq.....	.109	.151	.143	.128	.062	.000	.000	.000	.000	.000	.000
Kuwait.....	.023	.044	.017	.021	.015	.011	.029	.032	.016	.022	.017
U.A.E.....	.035	-	.017	.040	.233	.064	.033	.025	.003	.002	.001
Qatar.....	.030	.002	.017	.009	.022	.003	.002	.000	.000	.000	.000
Saudi Arabia.....	.324	.175	.271	.288	.339	.459	.424	.454	.477	.416	.381
Imports from OPEC-Africa											
Total.....	.279	.212	.249	.218	.233	.296	.281	.242	.301	.262	.323
Algeria.....	.089	.072	.079	.089	.092	.107	.105	.066	.089	.103	.105
Libya.....	.061	.064	.090	.065	.079	.104	.087	.063	.059	.043	.051
Nigeria.....	.129	.076	.079	.064	.062	.084	.090	.112	.153	.115	.168
Imports from OPEC-South America											
Total.....	.019	.012	.011	.012	.015	.017	.011	.010	.003	.002	.001
Venezuela.....	.019	.012	.011	.012	.015	.017	.011	.010	.003	.002	.001
Imports from OPEC-Far East											
Total.....	.000	-	-	.000	.000	.001	.001	.000	.000	.000	.000
Indonesia.....	.000	-	-	.000	.000	.001	.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. •Data for 1995 are preliminary.

Sources: See end of Section 4.

Table 4.14 Germany--Net Oil Imports, 1986-1996
(Million Barrels per Day)

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
	Average										
Total Net Imports..	2.380	2.281	2.279	2.112	2.202	2.664	2.739	2.723	2.731	2.699	2.787
Imports from OPEC ^{1/}	.830	.675	.761	.739	.771	.859	.957	.948	.838	.711	.659
Imports from Persian Gulf ^{2/}											
Total.....	.232	.187	.197	.216	.217	.227	.215	.250	.217	.172	.145
Bahrain.....	-	-	-	-	-	-	-	.000	.001	.000	.000
Iran.....	.041	.020	.051	.041	.055	.053	.021	.053	.040	.031	.018
Iraq.....	.016	.052	.032	.009	.004	.000	.000	.000	.000	.000	.000
Kuwait.....	.021	.017	.013	.022	.013	.000	.009	.022	.026	.015	.016
U.A.E.....	.004	.024	.006	.023	.016	.012	.002	.002	.001	.000	.000
Qatar.....	-	.001	.001	.002	.003	.002	.001	.000	.000	.000	.000
Saudi Arabia.....	.151	.072	.095	.119	.125	.161	.182	.173	.149	.125	.111
Imports from OPEC-Africa											
Total.....	.484	.401	.472	.436	.465	.524	.614	.594	.543	.461	.461
Algeria.....	.137	.146	.141	.106	.098	.126	.183	.195	.161	.135	.125
Libya.....	.152	.160	.237	.235	.244	.262	.252	.244	.244	.234	.257
Nigeria.....	.195	.095	.095	.095	.123	.136	.179	.154	.139	.093	.079
Imports from OPEC-South America											
Total.....	.113	.086	.091	.086	.088	.107	.128	.105	.079	.078	.053
Venezuela.....	.113	.086	.091	.086	.088	.107	.128	.105	.079	.078	.053
Imports from OPEC-Far East											
Total.....	.001	.002	-	-	.002	.000	.000	.000	.000	.000	.000
Indonesia.....	.001	.002	-	-	.002	.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, 1986-1996
(Million Barrels per Day)

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
	Average										
Total Net Imports..	1.642	1.718	1.590	1.716	1.788	1.769	1.839	1.747	1.778	1.820	1.761
Imports from OPEC ^{1/}	1.361	1.307	1.191	1.260	1.375	1.393	1.343	1.222	1.117	1.203	1.234
Imports from Persian Gulf ^{2/}											
Total.....	.817	.782	.643	.619	.626	.595	.573	.548	.430	.494	.497
Bahrain.....	.001	.000	-	.001	.000	.001	.001	.000	.000	.000	.001
Iran.....	.135	.141	.093	.124	.192	.231	.239	.221	.143	.233	.264
Iraq.....	.114	.167	.198	.138	.079	.000	.000	.000	.000	.000	.000
Kuwait.....	.147	.142	.118	.093	.063	.000	.007	.012	.001	.000	.000
U.A.E.....	.051	.109	.060	.085	.075	.044	.013	.002	.000	.000	.000
Qatar.....	.004	.029	.002	.008	.000	.004	.001	.000	.000	.002	.002
Saudi Arabia.....	.364	.194	.171	.171	.216	.315	.312	.313	.286	.260	.231
Imports from OPEC-Africa											
Total.....	.505	.489	.516	.626	.740	.793	.757	.653	.660	.679	.708
Algeria.....	.087	.109	.108	.150	.155	.155	.140	.096	.099	.100	.109
Libya.....	.309	.342	.389	.430	.556	.581	.584	.542	.543	.562	.575
Nigeria.....	.110	.038	.019	.045	.029	.057	.034	.015	.018	.017	.025
Imports from OPEC-South America											
Total.....	.039	.037	.029	.014	.007	.004	.005	.002	.007	.014	.008
Venezuela.....	.039	.037	.029	.014	.007	.004	.005	.002	.007	.014	.008
Imports from OPEC-Far East											
Total.....	-	-	.002	.002	.003	.001	.009	.019	.019	.015	.020
Indonesia.....	-	-	.002	.002	.003	.001	.009	.019	.019	.015	.020

^{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, 1986-1996
(Million Barrels per Day)

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
	Average										
Total.....	0.964	1.103	1.489	1.581	1.276	0.000	0.000	0.001	0.000	0.000	0.004
United States ¹ /....	.081	.083	.343	.449	.518	.000	.000	.000	.000	.000	.001
Canada.....	-	.010	.001	.013	.011	.000	.000	.000	.000	.000	.000
OECD Europe ² /.....	.717	.905	.959	.897	.591	.000	.000	.001	.000	.000	.002
Main European Importers											
France.....	.109	.151	.143	.128	.062	.000	.000	.000	.000	.000	.000
Germany ³ /.....	.016	.052	.032	.009	.004	.000	.000	.000	.000	.000	.000
Italy.....	.114	.167	.198	.138	.079	.000	.000	.000	.000	.000	.000
Netherlands.....	.067	.034	.039	.101	.117	.000	.000	.000	.000	.000	.000
Spain.....	.117	.080	.092	.109	.063	.000	.000	.000	.000	.000	.002
European Net Exporters											
United Kingdom....	.071	.082	.070	.034	.027	.000	.000	.000	.000	.000	.000
Smaller European Importers											
Austria.....	-	.015	.007	.000	.000	.000	.000	.001	.000	.000	.000
Belgium.....	.026	.049	.037	.047	.029	.000	.000	.000	.000	.000	.000
Denmark.....	-	.001	-	-	.000	.000	.000	.000	.000	.000	.000
Greece.....	.030	.065	.059	.052	.044	.000	.000	.000	.000	.000	.000
Portugal.....	.024	.019	.029	.024	.019	.000	.000	.000	.000	.000	.000
Sweden.....	-	.003	.003	.005	.000	.000	.000	.000	.000	.000	.000
Switzerland.....	-	.000	-	.000	.000	.000	.000	.000	.000	.000	.000
Turkey.....	.143	.188	.250	.250	.146	.000	.000	.000	.000	.000	.000
Japan.....	.164	.105	.173	.219	.146	.000	.000	.000	.000	.000	.000
Other OECD.....	.002	.000	.013	.003	.011	.000	.000	.000	.000	.000	.000

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, 1986-1996
(Million Barrels per Day)

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
	Average										
Total.....	0.829	0.925	0.936	1.084	0.740	0.039	0.414	1.191	1.081	0.997	1.043
United States ¹ /....	.068	.082	.092	.157	.086	.006	.051	.353	.312	.218	.235
Canada.....	-	-	-	-	.004	-	-	.000	.027	.000	.010
OECD Europe ² /.....	.456	.469	.474	.452	.346	.019	.142	.461	.302	.269	.292
Main European Importers											
France.....	.023	.044	.017	.021	.015	.011	.029	.032	.016	.022	.017
Germany ³ /.....	.021	.017	.013	.022	.013	.000	.009	.022	.026	.015	.016
Italy.....	.147	.142	.118	.093	.063	.000	.007	.012	.001	.000	.000
Netherlands.....	.122	.150	.189	.194	.151	.002	.052	.254	.179	.176	.192
Spain.....	.020	.015	.030	.015	.010	.003	.000	.015	.000	.000	.000
European Net Exporters											
Norway.....	-	-	-	-	-	-	-	.000	.000	.000	.000
United Kingdom....	.014	.011	.006	.006	.045	.002	.027	.049	.058	.039	.032
Smaller European Importers											
Austria.....	-	-	.004	.002	.000	.000	.000	.000	.000	.000	.000
Belgium.....	.006	.000	-	-	.000	.001	.006	.056	.005	.004	.019
Denmark.....	.020	.045	.060	.066	.034	.000	.000	.000	.000	.000	.000
Finland.....	-	-	-	-	-	.000	-	-	-	-	-
Greece.....	.038	.030	.015	.009	.000	.000	.002	.005	.001	.000	.000
Portugal.....	-	.001	.003	.003	.002	.000	.000	.000	.000	.000	.000
Sweden.....	-	-	-	.001	.001	.000	.000	.002	.000	.000	.000
Switzerland.....	-	-	-	-	-	.000	.000	.000	.000	.000	.000
Turkey.....	.046	.013	.019	.019	.011	.000	.010	.016	.016	.014	.016
Japan.....	.278	.347	.341	.458	.291	.014	.220	.368	.430	.501	.495
Other OECD.....	.028	.026	.029	.017	.013	.000	.000	.009	.011	.009	.011

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 1995; • 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 1995.

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 1995.

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 1995.

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, South Korea, and Mexico 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 September 1996 United States (including territories) oil stocks totaled 1,419 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 1995 and earlier years, for all countries, may be found in EIA's International Energy Annual 1995, published in December 1996, 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 1994, and preliminary demand data for all countries for 1995. Instructions for downloading this database may be found on EIA's home page (<http://www.eia.doe.gov/emeu/world/contents.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 tapes from the International Energy Agency.

For countries outside of the OECD, the following approach is used. The numbers for 1994 and earlier years match the demand numbers in the WORLD ENERGY database on EIA's home page. Numbers for 1995 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, 1986-1995

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
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	--	--	--	--	--	7.330	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
Serbia and Montenegro	--	--	--	--	--	--	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 1995. DOE/EIA-0219(95) (96/12) (December 1996).

Table E2. Barrels of Crude Oil per Metric Ton, 1986-1995 (continued)

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
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
Slovakia	--	--	--	--	--	--	--	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	7.270	--	--	--	--
Azerbaijan	--	--	--	--	--	--	7.270	7.270	7.270	7.270
Belarus	--	--	--	--	--	--	7.270	7.270	7.270	7.270
Georgia	--	--	--	--	--	--	7.270	7.270	7.270	7.270
Lithuania	--	--	--	--	--	--	--	7.270	7.270	7.270
Kazakstan	--	--	--	--	--	--	7.270	7.270	7.270	7.270
Kyrgyzstan	--	--	--	--	--	--	7.270	7.270	7.270	7.270
Russia	--	--	--	--	--	--	7.270	7.270	7.270	7.270
Tajikistan	--	--	--	--	--	--	7.270	7.270	7.270	7.270
Turkmenistan	--	--	--	--	--	--	7.270	7.270	7.270	7.270
Ukraine	--	--	--	--	--	--	7.270	7.270	7.270	7.270
Uzbekistan	--	--	--	--	--	--	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 1995. DOE/EIA-0219(95) (96/12) (December 1996).

Table E2. Barrels of Crude Oil per Metric Ton, 1986-1995 (continued)

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
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 1995. DOE/EIA-0219(95) (96/12) (December 1996).