

INTERNATIONAL PETROLEUM STATISTICS REPORT

January 1998



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

Preface

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

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

The International Petroleum Statistics Report presents data on international oil production, demand, imports, and stocks. The report has four sections. Section 1 contains time series data on world oil production, and on oil demand and stocks in the Organization for Economic Cooperation and Development (OECD). This section contains annual data beginning in 1985, and monthly data for the most recent two years. Section 2 presents an oil supply/demand balance for the world. This balance is presented in quarterly intervals for the most recent two years. Section 3 presents data on oil imports by OECD countries. This section contains annual data for the most recent year, quarterly data for the most recent two quarters, and monthly data for the most recent twelve months. Section 4 presents annual time series data on world oil production and oil stocks, demand, and trade in OECD countries. World oil production and OECD demand data are for the years 1970 through 1996; OECD stocks from 1973 through 1996; and OECD trade from 1986 through 1996.

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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Oil Market Chronology - December 1997

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

- December 2** Royal Dutch/Shell has been offered a lead role in building a natural gas pipeline from Turkmenistan to Turkey, according to Alan Parsley of Shell Exploration & Production. The 1,242-mile pipeline, running from Turkmenistan through Iran and into Turkey and European markets, will be designed to carry between 989 billion cubic feet and 1.06 trillion cubic feet of gas annually. (DJ)
- December 4** Canada's National Energy Board approves construction of eastern Canada's first offshore natural gas project and a pipeline to carry the gas to markets in eastern Canada and the U.S. Northeast. The combined cost for the two projects is estimated at \$2.1 billion. The Board's approval removes some of the uncertainties surrounding the Sable Offshore Energy Project, which is scheduled to start producing 460 million cubic feet of natural gas per day from offshore Nova Scotia in late 1999. (WSJ)
- Iraq's United Nations (U.N.) Ambassador Nizar Hamdoun warns that Iraq will not allow oil to flow during a third six-month phase of the U.N.'s oil-for-food sale until the U.N. approves an aid distribution plan. Despite the warning, the U.N. Security Council approves a third six-month phase following the end of the second six-month phase. Like the first two phases, the third phase allows Iraq to sell up to \$1.07 billion of oil in each of two 90-day periods. However, the sales level may be increased by the Security Council in January 1998 after U.N. Secretary-General Kofi Annan reports on Iraq's needs. (WP)
- December 5** Iraq stops pumping oil into the Iraqi-Turkish pipeline at the end of the second six-month phase of the United Nations (U.N.) oil-for-food program in spite of U.N. approval of a third six-month phase. (NYT) (DJ)
- December 7** Japan's Isuzu Motors Inc. announces that it will begin producing trucks that run on condensed natural gas in August 1998. Isuzu plans to manufacture gas-powered trucks with a two ton load capacity. The company expects to produce 150 trucks in the first year of production, and another 300 trucks in the following year. Isuzu also expects demand to increase to more than 500 per year in 2000. (DJ)
- December 8** As a result of construction delays, Malaysian Refinery Company (MRC) has delayed the start of operations at its 100,000-barrel-per-day oil refinery in Malacca from January 1998 to late March 1998. MRC is a joint venture between Petronas, Malaysia's state oil company, Conoco of the United States, and Norwegian state oil company Statoil. Petronas holds a 45 percent stake in the refinery, Conoco 40 percent and Statoil 15 percent. (DJ)
- December 9** Russian oil company AO Yukos announces that it has acquired a controlling interest in Russia's state owned Eastern Oil Company. Yukos won a 45 percent stake in the Siberian oil producer for \$775 million, adding to the 9 percent that Yukos already held. The purchase secures Yukos's position as Russia's second largest oil producer behind AO Lukoil. (WSJ)
- French oil company Elf Aquitaine confirms the discovery of a third oil field in Block 17 in the Gulf of Guinea off Angola. The oil field, named Dalia 2, has estimated reserves of 730 million barrels, which will boost Elf's world wide reserves by 15 percent. Elf holds a 35 percent stake, Exxon 20 percent, British Petroleum 16.67 percent, Norway's Statoil 13.33 percent, Norsk-Hydro 10 percent, and Belgium's Fina 5 percent. (DJ)
- December 10** The Australia Gas Light Company has reached a final agreement with Native Title claimants, opening the way for construction of a \$35 million natural gas pipeline in Australia's New South Wales state. The 140-mile pipeline will connect the towns of Dubbo and Marsden. Construction is set to commence in January 1998, with first gas deliveries expected in mid-1998. Under the agreement, the Aborigines win guarantees that selected cultural sites will be protected during construction and promises that they will be offered jobs. (DJ)

- December 10** Texaco, Brown & Root, and Syntroleum Corporation announce plans to develop a plant that will convert natural gas to synthetic crude oil. The partners state that it will be capable of turning gas into heavy and light synthetic crude which can then be processed into petroleum products. The proposed plant, the first of its kind, will have a capacity of 2,500 barrels per day and will be located outside the United States at a sight to be announced in early 1998. (NYT)
- December 11** Delegates from 150 industrial nations attending a United Nations climate conference in Kyoto, Japan reach agreement on a protocol to control heat-trapping greenhouse gases. The protocol, if ratified, would commit nations to roll back emissions of six greenhouse gases (carbon dioxide, methane, nitrous oxide, hydrofluorocarbons, perfluorocarbons, and sulphur hexafluoride) below 1990 levels. Under the protocol, the United States would be required to reduce its greenhouse gas emissions by 7 percent below 1990 levels, while Europe and Japan would make cuts of 8 percent and 9 percent, respectively. Developing countries are exempt from the emissions ceilings for the time being. (DJ)
- December 16** Talal Kanaan, an Iraqi official, states that two new oil fields have been discovered in northern and western Iraq. The field in northern Iraq, called Ismail, is expected to add to Iraq's 112 billion barrels of reserves while the western field, located in the western desert, could open a new area for development. (DJ)
- December 17** A consortium led by United Kingdom-based Premier Oil PLC signs a \$250 million contract to develop an onshore oil field in Albania. The deal involves the development of the Patos Merinze oil field where production of heavy crude is to be increased from 6,000 barrels per day to between 25,000 and 50,000 barrels per day within four years. The consortium consists of Premier with a 25 percent stake, Germany's Preussag 17.5 percent, International Finance Corporation 15 percent, and Albpetrol, Albania's state owned oil company, 42.5 percent. (DJ)
- Australia's Broken Hill Proprietary (BHP) announces that the Australian government has granted a production license to the company for the development of the deep water Blackback oil field in the Bass Strait. BHP states that it will spend about \$71 million on the field, while BHP's 50 percent partner, Esso Australia, claims that total expenditures will exceed \$128 million. Production is expected to begin in the first half of 1999, with peak production reaching 18,000 barrels of oil per day in the first year. Esso Australia, a unit of Exxon Corporation, adds that the field will also yield 35.3 million cubic feet of natural gas per day. (DJ)
- December 18** Norway's state-owned oil company, Statoil, reports that its Smoerbukk South component of the Aasgard oil field will produce more oil than originally expected. Olav Strandenaes, staff engineer for Aasgard, states that a well at Smoerbukk South produced an oil flow of about 15,700 barrels per day but could produce between 30,000 and 37,000 barrels per day. Peak output from Aasgard is estimated to reach 200,000 barrels per day. (DJ)
- Russia's giant gas company Gazprom cancels a \$750 million loan deal with the U.S. Export-Import Bank. The loan, signed in November 1994, guaranteed financing for purchases of equipment and services from American companies. Gazprom reports that it decided to turn down the loan guarantees before they could be withdrawn. The U.S. government has been considering sanctions against Gazprom for its participation in a \$2 billion project to develop Iran's South Pars gas field. (DJ)
- December 19** In a deal valued at nearly \$3.5 billion, KN Energy, a Colorado-based natural gas utility, confirms that it will purchase gas pipeline giant MidCon Corporation from Occidental Petroleum. MidCon, headquartered in Lombard, Illinois, primarily transports natural gas from the Gulf of Mexico to as far north as the Canadian Border. KN Energy's acquisition of MidCon complements its decision in August 1997 to purchase Interenergy Corporation, an energy company that processes and markets natural gas in the Rocky Mountains. (WSJ)

- December 23** After changing one word, the United Nations (U.N.) Security Council agrees to a statement criticizing, but not condemning, Iraq for refusing to grant U.N. weapons inspectors full access to suspected weapons sites. Opposition from Russia and other council members prompted the wording change. The statement comes after chief weapons inspector Richard Butler told the Security Council that Iraq would not allow access to all suspected weapons sites, including Iraqi President Saddam Hussein's palaces and homes. (DJ)
- December 24** A spokesman for Shell Nigeria confirms that loadings of Nigerian Forcados crude oil cargos are to be delayed by 1-3 days until the end of January 1998. This announcement follows the earlier closures of 20 flow stations. Two stations, Tunu and Opukushi, had been closed since November 25, 1997, after villagers attacked and occupied the facilities. Those closures forced Shell Nigeria, on December 19, 1997, to declare *force majeure* on crude exports from its Forcados terminal from December 21, 1997 to January 11, 1998. The other 18 flow stations were shut down on December 21, 1997 because of a contractual dispute. All 20 flow stations have now begun to reopen, with output of Forcados crude returning to the normal 450,000-barrel-per-day rate, and Shell Nigeria continuing talks with local communities and its contract workers. (DJ)
- December 24** Japan's Arabian Oil Company (AOC) confirms that it will begin a feasibility study in early 1998 for the development of the Dorra gas field in the Neutral Zone, shared equally by Saudi Arabia and Kuwait. The study will last for about six months and, if it shows that the project is economically viable, AOC will begin commercial production of natural gas after 2000. (DJ)
- December 29** The Presidents of Iran and Turkmenistan open a 125-mile natural gas pipeline built to transport Turkmen gas to Iranian power plants. The pipeline cost \$190 million and has an initial capacity of 4 million cubic feet per day. The line runs between the Korpedzhe field in Turkmenistan and the Iranian border village of Kurtkoy and it is the first pipeline to carry energy southward from Central Asia. (WSJ)

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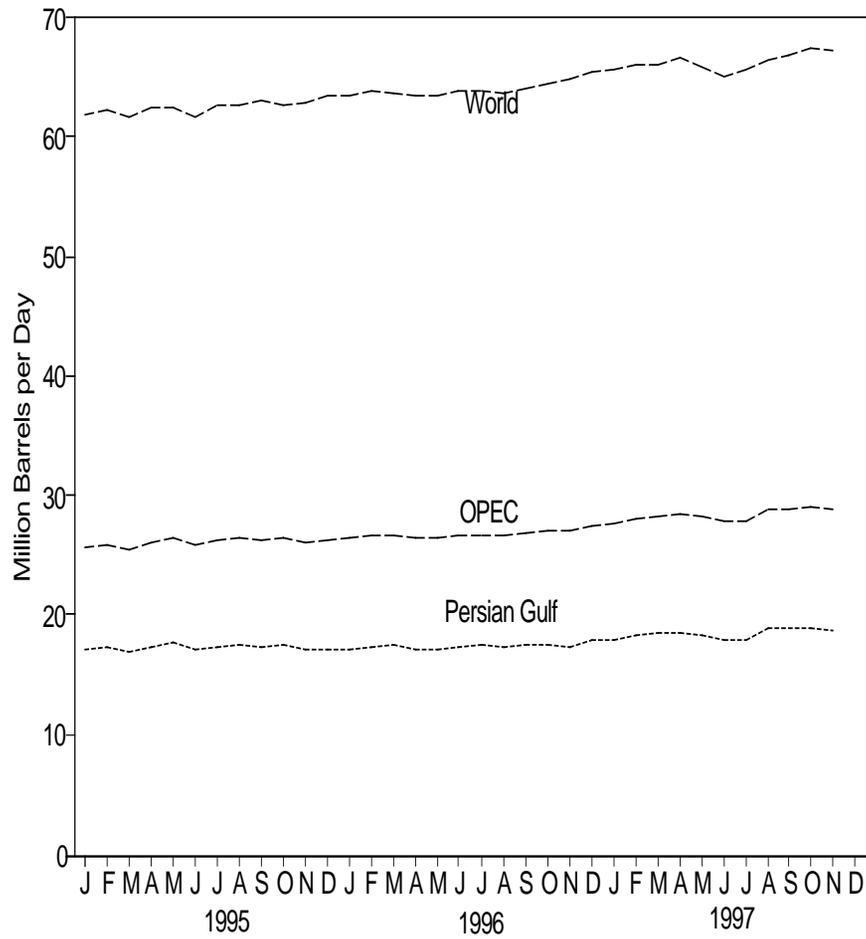
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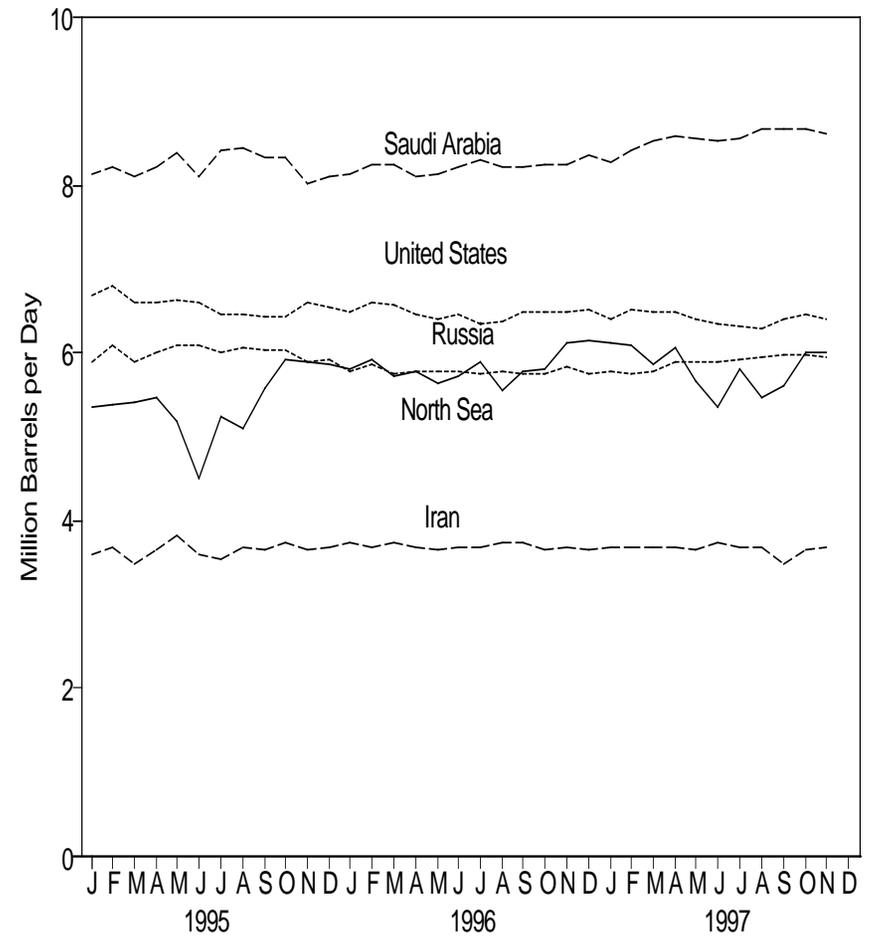
1. Annual and Monthly Oil Data

Figure 1. World Crude Oil Production, Monthly



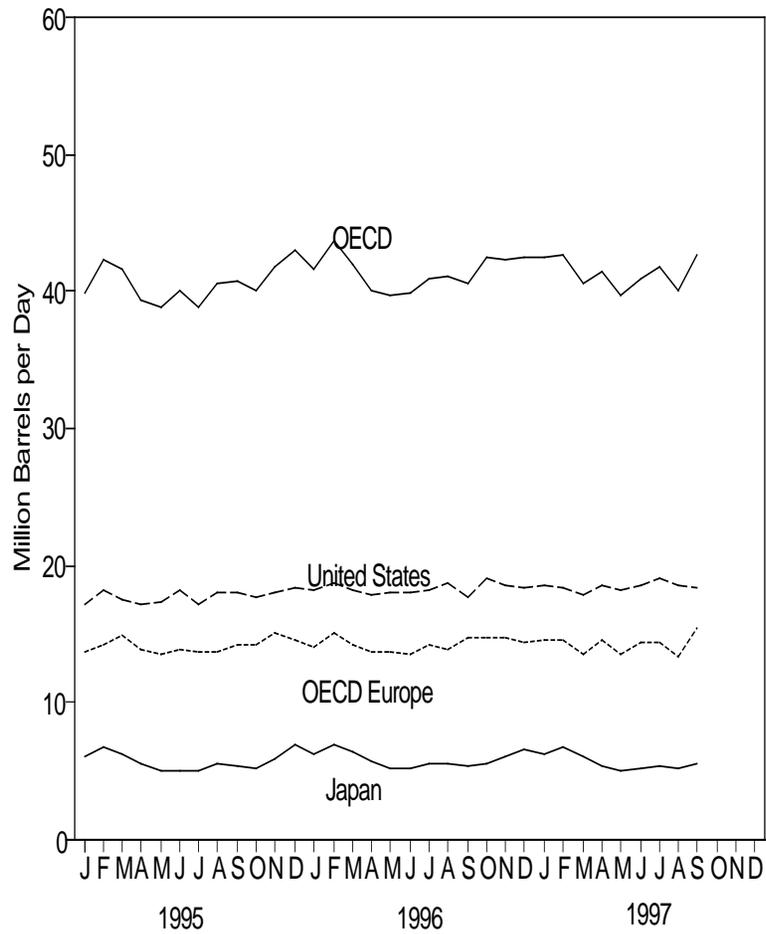
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Figure 2. Leading Crude Oil Producers, Monthly



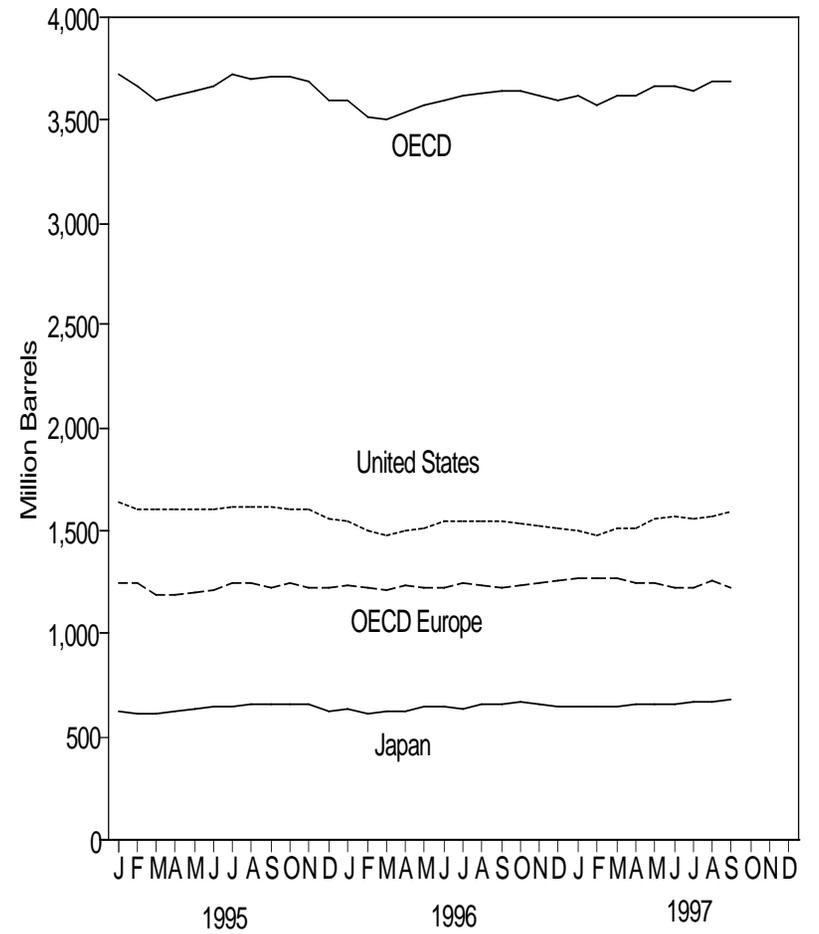
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Figure 3. OECD Oil Consumption, Monthly



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	1,175	2,105	1,440	2,240	585	8,515	2,360	3,200	28,185
April.....	1,280	1,560	3,685	1,275	2,107	1,450	2,310	585	8,568	2,360	3,220	28,400
May.....	1,280	1,580	3,635	1,325	2,027	1,450	2,270	605	8,548	2,210	3,240	28,170
June.....	1,260	1,530	3,735	605	2,050	1,450	2,330	690	8,540	2,325	3,260	27,775
July.....	1,280	1,530	3,685	605	2,070	1,450	2,400	685	8,560	2,325	3,270	27,860
August.....	1,280	1,530	3,685	1,515	2,070	1,450	2,350	685	8,660	2,325	3,390	28,940
September.....	1,280	1,490	3,485	1,735	2,075	1,450	2,300	685	8,665	2,325	3,430	28,920
October.....	1,280	1,490	3,635	1,625	2,075	1,450	2,400	685	8,665	2,325	3,430	29,060
November.....	1,280	1,540	3,685	1,390	2,075	1,450	2,360	705	8,615	2,305	3,460	28,865
1997 Average.....	1,276	1,546	3,662	1,224	2,074	1,446	2,320	644	8,547	2,317	3,299	28,354

^{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 November 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	700	800	560	800	1,922	3,165	630	385
November.....	3,210	2,743	6,118	700	800	535	830	1,875	3,190	640	385
December.....	3,198	2,760	6,130	710	800	585	830	1,891	3,115	640	385
1996 Average.....	3,104	2,568	5,822	709	756	570	795	1,823	3,131	623	387
1997 January.....	3,268	2,693	6,126	700	820	565	840	1,874	3,210	650	385
February.....	3,263	2,660	6,074	715	820	561	830	1,920	3,240	640	385
March.....	3,063	2,638	5,863	720	830	594	830	1,900	3,215	620	380
April.....	3,388	2,515	6,063	720	840	594	830	1,823	3,230	650	390
May.....	3,194	2,315	5,677	720	840	576	830	1,737	3,275	650	380
June.....	3,025	2,135	5,339	710	815	574	830	1,835	3,220	640	360
July.....	3,194	2,447	5,820	715	820	584	860	1,889	3,190	605	360
August.....	2,890	2,407	5,462	720	840	605	845	1,895	3,190	635	370
September.....	2,927	2,483	5,589	717	845	626	R830	1,930	3,195	660	390
October.....	3,209	2,610	6,000	R725	R850	616	R830	1,956	3,195	715	R385
November.....	3,192	2,602	5,992	725	850	560	830	1,970	3,195	740	385
1997 Average.....	3,146	2,500	5,817	717	834	587	835	1,884	3,214	655	379

^{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	3,422	63,375
February....	920	360	700	680	2,800	865	5,867	--	605	6,577	3,447	63,776
March.....	920	370	665	680	2,870	870	5,755	--	605	6,571	3,419	63,625
April.....	920	370	685	700	2,860	880	5,763	--	600	6,444	3,435	63,480
May.....	920	370	660	700	2,875	880	5,789	--	600	6,394	3,448	63,478
June.....	920	370	650	700	2,880	880	5,763	--	600	6,458	3,452	63,805
July.....	920	370	625	700	2,870	885	5,737	--	600	6,338	3,553	63,896
August.....	920	370	625	700	2,830	885	5,780	--	600	6,360	3,559	63,566
September...	920	370	625	700	2,860	890	5,750	--	600	6,482	3,564	64,023
October.....	920	370	625	700	2,860	900	5,737	--	600	6,481	3,632	64,379
November....	930	370	630	700	2,860	900	5,832	--	610	6,476	3,656	64,837
December....	930	370	650	700	2,900	900	5,755	--	620	6,506	3,651	65,416
1996 Average.....	922	368	651	695	2,855	883	5,774	--	604	6,465	3,520	63,972
1997 January.....	885	370	650	730	2,940	890	5,789	--	565	E6,387	3,706	65,622
February....	885	370	650	730	2,970	900	5,729	--	565	E6,514	3,685	66,031
March.....	890	370	660	730	2,970	900	5,772	--	565	E6,470	3,725	66,027
April.....	890	370	685	750	2,945	900	5,893	--	560	E6,483	3,747	66,603
May.....	880	370	685	750	2,990	890	5,902	--	560	E6,401	3,711	65,825
June.....	870	370	685	740	3,005	900	5,902	--	560	E6,341	3,716	65,008
July.....	880	370	685	740	3,035	840	5,923	--	560	E6,316	3,670	65,543
August.....	870	370	685	740	3,080	870	5,945	--	560	E6,282	3,663	66,402
September...	860	360	675	760	3,105	870	5,958	--	560	E6,388	R3,684	R66,743
October.....	860	R370	R680	760	3,087	880	5,954	--	560	RE6,435	R3,703	R67,440
November....	860	370	685	760	3,085	890	5,945	--	560	PE6,406	3,715	67,190
1997 Average.....	875	369	675	745	3,020	884	5,884	--	561	PE6,401	3,702	66,221

_{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	1,170	2,105	1,440	2,140	550	8,515	2,280	3,160	27,280
April	850	1,380	3,650	1,270	2,107	1,450	2,210	550	8,568	2,280	3,180	27,495
May	850	1,400	3,600	1,320	2,027	1,450	2,170	570	8,548	2,130	3,200	27,265
June	830	1,350	3,700	600	2,050	1,450	2,230	655	8,540	2,245	3,220	26,870
July	850	1,350	3,650	600	2,070	1,450	2,300	650	8,560	2,245	3,230	26,955
August....	850	1,350	3,650	1,510	2,070	1,450	2,250	650	8,660	2,245	3,350	28,035
September.	850	1,310	3,450	1,730	2,075	1,450	2,200	650	8,665	2,245	3,390	28,015
October...	850	1,310	3,600	1,620	2,075	1,450	2,300	650	8,665	2,245	3,390	28,155
November..	850	1,360	3,650	1,385	2,075	1,450	2,260	670	8,615	2,225	3,420	27,960
1997 Average...	846	1,366	3,627	1,219	2,074	1,446	2,220	609	8,547	2,237	3,259	27,449

^{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 November 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	--	1,716	1,075	1,267	1,445	5,538
February.....	145	545	475	700	248	--	1,680	1,085	1,277	1,455	5,483
March.....	145	615	475	700	248	--	1,814	1,085	1,277	1,455	5,679
April.....	145	615	475	690	248	--	1,845	1,075	1,267	1,445	5,687
May.....	145	565	475	690	248	--	1,806	1,075	1,267	1,445	5,609
June.....	145	560	485	695	248	--	1,833	1,080	1,272	1,450	5,625
July.....	145	610	440	705	248	--	1,829	1,090	1,282	1,460	5,642
August.....	145	618	335	700	248	--	1,858	1,085	1,277	1,455	5,549
September....	145	595	340	695	248	--	1,872	1,080	1,272	1,450	5,564
October.....	145	620	370	695	248	--	1,912	1,080	1,272	1,450	5,720
November.....	145	615	370	695	248	--	1,915	1,080	1,272	1,450	5,692
December.....	145	640	370	705	248	--	1,876	1,090	1,282	1,460	5,709
1996 Average.....	145	599	423	697	248	--	1,830	1,082	1,274	1,452	5,625
1997 January.....	145	660	370	700	248	--	1,815	1,085	1,277	1,455	5,663
February.....	145	645	375	710	248	--	1,900	1,095	1,287	1,465	5,728
March.....	145	652	385	720	248	--	1,907	1,105	1,297	1,475	5,762
April.....	145	610	360	725	248	--	1,849	1,110	1,302	1,480	5,634
May.....	145	597	380	725	248	--	1,832	1,110	1,302	1,480	5,576
June.....	145	595	370	720	248	--	1,842	1,105	1,297	1,475	5,555
July.....	145	598	370	720	248	--	1,850	1,105	1,297	1,475	5,592
August.....	145	625	370	730	248	--	1,850	1,115	1,307	1,485	5,616
September....	145	626	425	730	248	--	1,871	1,115	1,307	1,485	5,719
October.....	145	646	409	730	248	--	RE1,840	1,115	1,307	1,485	R5,709
November.....	145	655	405	725	248	--	E1,851	1,110	1,302	1,480	5,767
1997 Average.....	145	628	384	721	248	--	E1,855	1,106	1,298	1,476	5,665

^{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.....	9,346	18,382	19,059	27,996	71,040
February.....	9,348	18,467	19,196	28,101	71,342
March.....	9,503	18,517	19,207	28,201	71,413
April.....	9,430	18,297	19,034	27,961	71,299
May.....	9,357	18,307	19,104	28,026	71,236
June.....	9,369	18,427	19,179	28,171	71,500
July.....	9,328	18,527	19,279	28,261	71,690
August.....	9,365	18,452	19,179	28,276	71,253
September.....	9,516	18,547	19,254	28,351	71,741
October.....	9,515	18,507	19,319	28,451	72,213
November.....	9,636	18,477	19,259	28,471	72,766
December.....	9,620	18,977	19,833	29,036	73,355
1996 Average.....	9,445	18,491	19,243	28,277	71,738
1997 January.....	9,249	19,162	19,888	29,216	73,333
February.....	9,519	19,377	20,113	29,521	73,865
March.....	9,482	19,602	20,363	29,716	73,894
April.....	9,385	19,762	20,524	29,936	74,291
May.....	9,321	19,532	20,334	29,706	73,490
June.....	9,253	19,122	19,789	29,306	72,633
July.....	9,407	19,107	19,849	29,391	73,377
August.....	9,346	20,127	20,859	30,481	74,233
September.....	9,503	20,157	21,079	30,461	R74,707
October.....	RE9,531	20,197	20,969	30,601	R75,405
November.....	E9,458	19,957	20,679	30,401	75,158
1997 Average.....	PE9,404	19,647	20,405	29,887	74,035

^{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	1,236	1,544	104	638	73	3,596
	February.....	156	156	298	103	1,224	1,500	102	615	69	3,511
	March.....	156	153	296	106	1,212	1,482	109	627	70	3,500
	April.....	165	150	298	109	1,236	1,502	109	622	72	3,540
	May.....	163	157	295	105	1,233	1,520	107	641	75	3,575
	June.....	160	158	296	104	1,229	1,546	107	640	73	3,597
	July.....	162	155	297	105	1,242	1,550	110	637	83	3,621
	August.....	160	159	295	101	1,237	1,545	110	658	79	3,629
	September....	152	162	295	105	1,229	1,551	R113	664	83	R3,641
	October.....	156	155	296	104	1,237	1,538	111	673	82	3,640
	November.....	160	152	297	106	1,243	1,522	105	665	81	3,616
	December.....	158	152	300	108	1,256	1,507	103	651	74	3,591
1997	January.....	156	158	304	107	1,279	1,503	104	650	80	3,616
	February.....	159	156	307	105	1,269	1,482	101	642	75	3,570
	March.....	160	160	311	109	1,272	1,512	105	650	76	3,616
	April.....	159	151	300	108	1,247	1,519	108	665	80	3,619
	May.....	163	150	309	108	1,246	1,562	104	664	81	3,657
	June.....	153	151	298	111	1,231	1,577	103	662	83	3,656
	July.....	153	150	304	106	R1,227	1,559	105	670	81	R3,642
	August.....	158	151	303	108	R1,256	1,570	R108	669	R80	R3,682
	September....	157	144	291	106	1,229	1,594	109	680	77	3,688

^{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 September 1997)
(Million Barrels)

Country	Commercial	Government Owned	Total
Canada.....	109	0	109
United States ^{1/}	1,031	563	1,594
United States Territories.....	27	0	27
Japan.....	368	312	680
Australia/New Zealand.....	50	NA	50
Austria.....	22	0	22
Belgium/Luxembourg.....	31	0	31
Denmark.....	24	0	24
Finland.....	25	0	25
France.....	157	0	157
Germany ^{2/}	236	55	291
Greece.....	27	NA	27
Ireland.....	7	2	9
Italy.....	138	6	144
Netherlands.....	99	0	99
Norway.....	49	0	49
Portugal.....	20	0	20
Spain.....	100	0	100
Sweden.....	28	0	28
Switzerland.....	46	0	46
Turkey.....	51	0	51
United Kingdom.....	106	0	106
OECD Europe.....	1,166	63	1,229
Total OECD.....	2,750	938	3,688

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

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

NA=Not Available.

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

Sources: See end of Section 1.

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

		France	Italy	Germany ^{1/}	United Kingdom	OECD Europe ^{2/}	United States ^{3/}	Canada	Japan	Other ^{4/}	Total OECD
1985	Average....	1,775	1,717	2,338	1,634	11,681	15,726	1,504	4,384	976	34,271
1986	Average....	1,772	1,738	2,498	1,649	12,102	16,281	1,506	4,439	951	35,279
1987	Average....	1,789	1,855	2,424	1,603	12,255	16,665	1,548	4,484	959	35,911
1988	Average....	1,797	1,836	2,422	1,697	12,427	17,283	1,693	4,752	939	37,093
1989	Average....	1,857	1,930	2,280	1,738	12,531	17,325	1,733	4,983	998	37,570
1990	Average....	1,818	1,872	2,382	1,752	12,629	16,988	1,690	5,140	1,027	37,475
1991	Average....	1,935	1,863	2,828	1,801	13,391	16,714	1,622	5,284	1,056	38,067
1992	Average....	1,926	1,937	2,843	1,803	13,605	17,033	1,643	5,446	1,041	38,768
1993	Average....	1,875	1,852	2,900	1,815	13,523	17,237	1,688	5,401	1,118	38,967
1994	Average....	1,833	1,841	2,879	1,837	13,597	17,718	1,727	5,674	1,174	39,890
1995	Average....	1,896	2,048	2,875	1,845	14,120	17,725	1,755	5,711	1,227	40,537
1996											
	January....	1,879	2,113	2,901	1,762	14,036	18,261	1,805	6,328	1,165	41,595
	February...	2,183	2,259	3,030	1,919	15,138	18,620	1,874	6,886	1,172	43,690
	March.....	1,979	2,189	2,860	1,859	14,275	18,301	1,744	6,437	1,151	41,907
	April.....	1,919	1,961	2,743	1,853	13,676	17,885	1,667	5,748	1,154	40,130
	May.....	1,810	1,880	2,864	1,846	13,778	17,957	1,715	5,147	1,113	39,709
	June.....	1,819	1,908	2,830	1,738	13,597	18,107	1,796	5,114	1,128	39,742
	July.....	1,977	2,158	2,957	1,790	14,245	18,211	R1,802	5,502	1,084	R40,843
	August.....	1,841	1,786	3,035	1,795	13,873	18,658	R1,880	5,567	1,113	R41,091
	September..	1,929	2,074	3,095	1,877	14,775	17,655	R1,763	5,361	1,024	R40,578
	October....	1,989	2,201	2,860	1,910	R14,722	19,171	1,809	5,580	1,133	R42,414
	November...	1,880	2,083	2,975	1,966	14,700	18,535	1,941	6,114	1,064	42,354
	December...	2,021	2,088	2,796	1,836	14,458	18,334	1,771	6,648	1,192	R42,402
	Average....	1,935	2,058	2,911	1,845	14,269	18,309	R1,797	5,867	1,124	R41,366
1997											
	January....	2,165	2,037	2,901	1,828	R14,633	18,560	1,862	6,291	1,138	R42,483
	February...	2,137	2,126	2,673	1,907	R14,580	18,308	1,862	6,751	1,140	R42,641
	March.....	1,796	1,928	2,685	1,776	R13,579	17,869	1,780	6,146	1,141	R40,515
	April.....	1,910	1,999	3,225	1,823	R14,668	18,572	1,745	5,303	1,174	R41,461
	May.....	1,707	1,898	2,787	1,711	R13,513	18,244	1,823	5,076	1,065	R39,721
	June.....	1,882	1,948	3,136	1,791	R14,309	18,563	1,913	5,131	1,090	R41,007
	July.....	R2,056	R2,118	R2,904	R1,775	R14,450	19,065	R1,897	R5,336	R1,129	R41,877
	August.....	R1,719	R1,751	R2,780	R1,763	R13,352	18,506	R1,794	R5,252	R1,091	R39,996
	September..	2,073	2,147	3,321	1,782	15,404	18,480	2,031	5,662	1,187	42,765

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 1996 and Petroleum Supply Monthly, December 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 1996 and Petroleum Supply Monthly, December 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 1996 and Petroleum Supply Monthly, December 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					
	Annual 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	9.40	9.39	9.40	9.59	9.44	9.41	9.32	9.42	NA	NA
Other OECD.....	8.40	9.25	9.80	10.18	10.13	10.19	10.62	10.28	10.67	10.15	10.22	NA	NA
Total OECD.....	18.00	18.66	19.20	19.58	19.52	19.59	20.21	19.73	20.09	19.47	19.64	NA	NA
Non-OECD													
OPEC.....	26.61	27.03	27.65	28.10	28.05	28.30	28.65	28.28	29.48	29.65	30.11	NA	NA
Former USSR.....	7.96	7.27	7.15	7.10	7.08	7.06	7.08	7.08	7.07	7.23	7.28	NA	NA
Other Non-OECD.....	14.78	15.25	15.91	16.48	16.69	16.61	16.83	16.65	17.05	17.12	17.08	NA	NA
Total Non-OECD.....	49.34	49.56	50.71	51.68	51.82	51.97	52.57	52.01	53.61	54.00	54.46	NA	NA
Total World Supply.....	67.34	68.22	69.92	71.26	71.34	71.56	72.78	71.74	73.69	73.47	74.10	NA	NA
Demand^{3/}													
OECD													
United States ^{2/}	17.24	17.72	17.72	18.39	17.98	18.18	18.68	18.31	18.24	18.46	18.69	NA	NA
Other OECD.....	21.73	22.17	22.81	23.98	21.88	22.66	23.71	23.06	23.61	22.26	22.85	NA	NA
Total OECD.....	38.97	39.89	40.54	42.37	39.86	40.84	42.39	41.37	41.85	40.72	41.53	NA	NA
Non-OECD													
China.....	2.96	3.14	3.31	3.51	3.56	3.60	3.65	3.58	3.76	3.81	3.83	NA	NA
Former USSR.....	5.64	4.85	4.72	4.75	4.27	4.27	4.65	4.49	4.77	4.31	4.32	NA	NA
Other Non-OECD.....	19.48	20.43	21.62	22.49	22.41	21.73	23.21	22.46	23.55	23.47	22.75	NA	NA
Total Non-OECD.....	28.08	28.42	29.66	30.75	30.25	29.60	31.51	30.53	32.08	31.59	30.89	NA	NA
Total World Demand.....	67.04	68.31	70.19	73.12	70.11	70.44	73.90	71.89	73.94	72.31	72.43	NA	NA
Stock Draws / Discrepancy													
Net Reported Stock Draws^{4/}													
U. S. Commercial.....	-.12	.00	.25	.86	-.77	-.16	.39	.08	-.09	-.71	-.18	NA	NA
U. S. Strategic.....	-.03	-.01	.00	.03	.05	.11	.09	.07	.03	.00	.00	NA	NA
Other OECD.....	-.05	-.16	.09	.22	-.35	-.43	.06	-.12	-.22	.27	-.17	NA	NA
For Export & Afloat.....	-.04	.03	-.12	.33	-.05	-.05	-.27	-.01	-.28	.27	-.49	NA	NA
Commr. Floating Storage...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	NA	NA
Total Reported Draws.....	-.24	-.15	.22	1.44	-1.12	-.54	.27	.01	-.55	-.17	-.84	NA	NA
Other Stock Draws and Statistical Discrepancy^{5/}													
	-.06	.25	.06	.41	-.11	-.58	.86	.14	.79	-1.00	-.83	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.

NA = Not Available.

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	9.40	9.39	9.40	9.59	9.44	9.41	9.32	9.42	NA	NA
Canada.....	2.24	2.33	2.45	2.40	2.43	2.49	2.57	2.47	2.61	2.46	2.58	NA	NA
North Sea ² /.....	4.67	5.38	5.80	6.23	6.09	6.10	6.45	6.22	6.45	6.06	5.99	NA	NA
Other OECD.....	1.48	1.54	1.55	1.56	1.61	1.60	1.59	1.59	1.62	1.63	1.65	NA	NA
Total OECD.....	18.00	18.66	19.20	19.58	19.52	19.59	20.21	19.73	20.09	19.47	19.64	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	1.27	1.28	NA	NA
Indonesia.....	1.51	1.51	1.50	1.54	1.54	1.54	1.57	1.55	1.59	1.56	1.52	NA	NA
Iran.....	3.54	3.62	3.64	3.71	3.67	3.71	3.65	3.69	3.68	3.68	3.62	NA	NA
Iraq.....	.51	.55	.56	.55	.55	.55	.67	.58	1.13	1.07	1.28	NA	NA
Kuwait.....	1.85	2.02	2.06	2.05	2.06	2.06	2.08	2.06	2.09	2.06	2.07	NA	NA
Libya.....	1.36	1.38	1.39	1.40	1.40	1.40	1.40	1.40	1.43	1.45	1.45	NA	NA
Nigeria.....	1.96	1.93	1.99	2.18	2.19	2.17	2.22	2.19	2.27	2.30	2.35	NA	NA
Qatar.....	.41	.41	.48	.50	.50	.51	.53	.51	.58	.63	.68	NA	NA
Saudi Arabia..	8.20	8.12	8.23	8.20	8.14	8.24	8.29	8.22	8.40	8.55	8.63	NA	NA
United Arab Emirates... Venezuela.....	2.16 2.45	2.19 2.59	2.28 2.75	2.28 2.96	2.27 2.99	2.28 3.07	2.29 3.19	2.28 3.05	2.33 3.19	2.30 3.24	2.32 3.36	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	1.48	1.48	NA	NA
Processing Gain.	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	NA	NA
Total OPEC.....	26.61	27.03	27.65	28.10	28.05	28.30	28.65	28.28	29.48	29.65	30.11	NA	NA
Former USSR.....	7.96	7.27	7.15	7.10	7.08	7.06	7.08	7.08	7.07	7.23	7.28	NA	NA
China.....	2.89	2.94	2.99	3.09	3.14	3.14	3.16	3.13	3.22	3.24	3.19	NA	NA
Mexico.....	3.16	3.17	3.09	3.32	3.38	3.25	3.27	3.31	3.36	3.38	3.49	NA	NA
Other Non-OECD....	8.73	9.14	9.83	10.07	10.17	10.22	10.41	10.22	10.47	10.50	10.40	NA	NA
Total Non-OECD....	49.34	49.56	50.71	51.68	51.82	51.97	52.57	52.01	53.61	54.00	54.46	NA	NA
Total Supply.....	67.34	68.22	69.92	71.26	71.34	71.56	72.78	71.74	73.69	73.47	74.10	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.

NA = Not Available.

Sources: See end of Section 2.

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

	1993	1994	1995	1996				1997				
		Year End		Quarter				Quarter				
				First	Second	Third	Fourth	First	Second	Third	Fourth	
OECD												
United States ^{1/}												
Commercial.....	1,060	1,061	971	893	962	977	941	949	1,014	1,031	NA	
Strategic.....	587	592	592	589	584	574	566	563	563	563	NA	
U. S. Territories.....	25	26	24	22	23	29	25	23	27	27	NA	
Canada.....	105	119	109	109	107	113	103	105	103	109	NA	
Japan.....	618	645	630	627	640	664	651	650	662	680	NA	
OECD Europe												
France.....	158	158	159	156	160	152	158	160	153	157	NA	
Germany.....	309	312	301	296	296	295	300	311	298	291	NA	
Italy.....	163	164	162	153	158	162	152	160	151	144	NA	
United Kingdom.....	118	115	107	106	104	105	108	109	111	106	NA	
Other OECD Europe....	475	490	499	501	511	515	537	532	518	530	NA	
Total.....	1,221	1,240	1,228	1,212	1,229	1,229	1,256	1,272	1,231	1,229	NA	
Australia & New Zealand	44	43	47	48	50	54	49	53	56	50	NA	
Total OECD.....	3,661	3,726	3,601	3,500	3,597	3,641	3,591	3,616	3,656	3,688	NA	
Stocks for Export												
and Afloat ^{2/}	945	935	980	950	955	960	985	1,010	985	1,030	NA	
Commercial Floating ^{3/}	70	70	70	70	70	70	70	70	70	70	NA	

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

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

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

NA = Not Available.

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, 1993-1997
(Million Barrels Per Day)

	1993	1994	1995	1996				1997					
	Annual Average	Annual Average	Annual Average	Quarter				Annual Average	Quarter				Annual Average
				First	Second	Third	Fourth		First	Second	Third	Fourth	
OECD													
United States ¹ /.....	17.24	17.72	17.72	18.39	17.98	18.18	18.68	18.31	18.24	18.46	18.69	NA	NA
U. S. Territories.....	.24	.26	.24	.21	.19	.17	.19	.19	.20	.17	.19	NA	NA
Canada.....	1.69	1.73	1.76	1.81	1.73	1.82	1.84	1.80	1.83	1.83	1.91	NA	NA
Japan.....	5.40	5.67	5.71	6.54	5.33	5.48	6.11	5.87	6.38	5.17	5.41	NA	NA
OECD Europe²/													
France.....	1.88	1.83	1.90	2.01	1.85	1.92	1.96	1.93	2.03	1.83	1.95	NA	NA
Italy.....	1.85	1.84	2.05	2.19	1.92	2.01	2.12	2.06	2.03	1.95	2.00	NA	NA
United Kingdom.....	1.81	1.84	1.84	1.84	1.81	1.82	1.90	1.85	1.83	1.77	1.77	NA	NA
Germany ³ /.....	2.90	2.88	2.88	2.93	2.81	3.03	2.88	2.91	2.76	3.05	3.00	NA	NA
Other OECD Europe....	5.08	5.21	5.45	5.50	5.29	5.52	5.76	5.52	5.61	5.56	5.67	NA	NA
Total OECD Europe....	13.52	13.60	14.12	14.47	13.68	14.29	14.63	14.27	14.25	14.15	14.39	NA	NA
Australia & New Zealand	.88	.92	.99	.96	.94	.90	.94	.93	.94	.94	.95	NA	NA
Total OECD.....	38.97	39.89	40.54	42.37	39.86	40.84	42.39	41.37	41.85	40.72	41.53	NA	NA
Non-OECD													
China.....	2.96	3.14	3.31	3.51	3.56	3.60	3.65	3.58	3.76	3.81	3.83	NA	NA
Former USSR.....	5.64	4.85	4.72	4.75	4.27	4.27	4.65	4.49	4.77	4.31	4.32	NA	NA
Other Non-OECD.....	19.48	20.43	21.62	22.49	22.41	21.73	23.21	22.46	23.55	23.47	22.75	NA	NA
Total Non-OECD.....	28.08	28.42	29.66	30.75	30.25	29.60	31.51	30.53	32.08	31.59	30.89	NA	NA
Total World Demand.....	67.04	68.31	70.19	73.12	70.11	70.44	73.90	71.89	73.94	72.31	72.43	NA	NA

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

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

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

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

NA = Not Available.

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 1996 and Petroleum Supply Monthly, December 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 1996 and Petroleum Supply Monthly, December 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 1996 and Petroleum Supply Monthly, December 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..	21.455	7.339	-0.839	1.738	2.793	1.791	1.857	8.498	-0.803	5.790	0.632
Imports from OPEC ^{5/}	15.630	6.053	.234	.897	.660	1.244	3.018	4.194	.261	4.470	.653
Imports from Persian Gulf ^{6/}											
Total.....	9.215	3.171	.102	.573	.145	.502	1.849	1.594	.111	4.025	.313
Bahrain.....	.035	.001	.000	.001	.000	.001	.000	-.002	-	.033	.003
Iran.....	1.549	1.059	.017	.172	.018	.263	.588	.000	.039	.451	.000
Iraq.....	.007	.006	.000	.000	.000	.000	.006	.001	.000	.000	.000
Kuwait.....	1.034	.288	.032	.017	.016	.000	.223	.236	.000	.500	.010
U.A.E.....	1.474	.004	.000	.001	.000	.000	.003	-.003	.000	1.396	.077
Qatar.....	.352	.002	.000	.000	.000	.002	.000	.000	-	.335	.016
Saudi Arabia.....	4.763	1.811	.054	.381	.111	.236	1.029	1.363	.072	1.310	.207
Imports from OPEC-Africa											
Total.....	3.834	2.644	.090	.323	.462	.714	1.054	.872	.094	.032	.192
Algeria.....	1.089	.746	.023	.105	.125	.110	.383	.256	.063	.012	.012
Libya.....	1.204	1.204	.035	.051	.258	.580	.281	.000	.000	-	.000
Nigeria.....	1.541	.694	.032	.168	.079	.025	.389	.616	.031	.020	.180
Imports from OPEC-South America											
Total.....	1.987	.206	.042	.001	.053	.008	.103	1.667	.056	.003	.054
Venezuela.....	1.987	.206	.042	.001	.053	.008	.103	1.667	.056	.003	.054
Imports from OPEC-Far East											
Total.....	.630	.033	.000	.000	.000	.021	.012	.058	.000	.442	.097
Indonesia.....	.630	.033	.000	.000	.000	.021	.012	.058	.000	.442	.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, (3rd Quarter 1997)
(Million Barrels per Day)

	Total	OECD Europe					OECD Outside Europe				
		Total	United Kingdom	France	Germany ^{1/}	Italy	Other Europe ^{2/}	United States ^{3/}	Canada	Japan	Other ^{4/}
Total Net Imports..	21.991	7.637	-0.821	1.715	2.857	1.708	2.178	8.990	-0.783	5.646	0.501
Imports from OPEC ^{5/}	16.208	6.217	.233	.965	.658	1.344	3.016	4.563	.343	4.433	.652
Imports from Persian Gulf ^{6/}											
Total.....	9.728	3.512	.110	.712	.176	.606	1.909	1.804	.112	3.979	.320
Bahrain.....	.019	.000	.000	.000	.000	.000	.000	-.003	-	.016	.006
Iran.....	1.462	1.022	.000	.166	.025	.254	.576	.000	.021	.419	.000
Iraq.....	.215	.159	.000	.065	.000	.027	.066	.030	.023	.000	.003
Kuwait.....	1.119	.304	.028	.045	.013	.000	.218	.294	.000	.520	.002
U.A.E.....	1.488	.009	.000	.000	.002	.000	.007	.000	.000	1.407	.073
Qatar.....	.361	.000	.000	.000	.000	.000	.000	.000	-	.352	.009
Saudi Arabia.....	5.064	2.019	.082	.436	.135	.324	1.041	1.484	.068	1.266	.227
Imports from OPEC-Africa											
Total.....	3.759	2.453	.090	.253	.423	.697	.989	1.012	.100	.066	.129
Algeria.....	1.012	.647	.018	.118	.081	.078	.352	.270	.067	.027	.000
Libya.....	1.257	1.257	.062	.068	.264	.599	.264	.000	.000	-	.000
Nigeria.....	1.490	.549	.010	.068	.078	.020	.373	.741	.032	.039	.129
Imports from OPEC-South America											
Total.....	2.156	.231	.034	.000	.059	.027	.110	1.688	.131	.000	.106
Venezuela.....	2.156	.231	.034	.000	.059	.027	.110	1.688	.131	.000	.106
Imports from OPEC-Far East											
Total.....	.584	.021	.000	.000	.000	.013	.008	.056	.000	.404	.103
Indonesia.....	.584	.021	.000	.000	.000	.013	.008	.056	.000	.404	.103

^{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, (2nd Quarter 1997)
(Million Barrels per Day)

	Total	OECD Europe					OECD Outside Europe				
		Total	United Kingdom	France	Germany ^{1/}	Italy	Other Europe ^{2/}	United States ^{3/}	Canada	Japan	Other ^{4/}
Total Net Imports..	21.573	7.001	-0.614	1.626	2.800	1.599	1.590	9.324	-0.761	5.374	0.635
Imports from OPEC ^{5/}	15.942	5.810	.198	.792	.644	1.278	2.897	4.734	.233	4.329	.836
Imports from Persian Gulf ^{6/}											
Total.....	9.501	3.328	.103	.572	.178	.545	1.931	1.773	.135	3.939	.325
Bahrain.....	.028	.000	.000	.000	.000	.000	.000	.000	-	.028	.000
Iran.....	1.392	1.001	.000	.129	.027	.257	.587	.000	.065	.327	.000
Iraq.....	.445	.305	.000	.080	.000	.017	.209	.095	.000	.040	.003
Kuwait.....	1.014	.235	.028	.001	.014	.000	.192	.230	.000	.542	.007
U.A.E.....	1.425	.003	.000	.000	.002	.000	.000	-.007	.000	1.322	.107
Qatar.....	.347	.000	.000	.000	.000	.000	.000	.005	-	.330	.012
Saudi Arabia.....	4.850	1.784	.075	.362	.134	.271	.942	1.450	.070	1.350	.195
Imports from OPEC-Africa											
Total.....	3.665	2.218	.062	.220	.413	.718	.805	1.132	.023	.054	.239
Algeria.....	.978	.595	.022	.125	.077	.100	.270	.319	.023	.034	.006
Libya.....	1.246	1.246	.040	.077	.254	.596	.279	.000	.000	-	.000
Nigeria.....	1.441	.376	.000	.018	.082	.022	.255	.812	.000	.019	.233
Imports from OPEC-South America											
Total.....	2.241	.253	.033	.000	.053	.005	.162	1.769	.074	.000	.145
Venezuela.....	2.241	.253	.033	.000	.053	.005	.162	1.769	.074	.000	.145
Imports from OPEC-Far East											
Total.....	.563	.011	.000	.000	.000	.010	.000	.060	.000	.364	.127
Indonesia.....	.563	.011	.000	.000	.000	.010	.000	.060	.000	.364	.127

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								
	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	August	Sept
Total.....	22.474	21.572	21.757	23.010	21.897	21.350	21.382	21.866	21.462	21.789	21.731	22.469
United States ¹ /....	8.792	8.220	8.404	8.595	8.460	8.780	8.997	9.565	9.402	8.691	9.081	9.204
Canada.....	-.792	-1.022	-.981	-.752	-.919	-.724	-.724	-.796	-.763	-.774	-.776	-.799
OECD Europe ² /.....	8.172	8.096	7.710	8.183	7.219	6.460	6.477	7.245	7.274	7.588	7.534	7.795
Main European Importers												
France.....	1.781	1.861	1.804	1.919	1.892	1.586	1.633	1.766	1.475	1.696	1.697	1.753
Germany ³ /.....	2.807	2.880	2.805	2.939	2.665	2.626	2.729	2.963	2.703	2.827	2.826	2.921
Italy.....	1.858	1.873	1.911	2.036	1.853	1.690	1.359	1.794	1.638	1.690	1.690	1.746
Spain.....	1.204	1.294	1.252	1.239	1.284	1.124	1.253	1.216	1.132	1.350	1.304	1.349
Netherlands.....	.824	.931	.801	.765	.747	.633	.980	.611	.790	.824	.824	.851
European Net Exporters												
Norway.....	-2.840	-3.482	-3.108	-3.157	-3.182	-3.331	-3.642	-3.301	-2.931	-3.069	-3.070	-3.172
United Kingdom....	-.737	-.712	-.995	-.952	-.856	-.810	-.795	-.661	-.385	-.813	-.812	-.840
Smaller European Importers												
Austria.....	.226	.218	.215	.206	.220	.178	.219	.223	.198	.216	.216	.223
Belgium.....	.582	.530	.665	.727	.510	.661	.569	.556	.521	.560	.560	.579
Denmark.....	.056	.038	-.030	-.005	.062	-.034	-.062	.017	-.015	.003	.003	.004
Ireland.....	.131	.106	.143	.140	.139	.093	.165	.104	.134	.128	.127	.132
Finland.....	.188	.253	.255	.243	.147	.109	.136	.187	.180	.178	.177	.184
Greece.....	.410	.438	.355	.411	.353	.335	.332	.316	.335	.366	.365	.378
Iceland.....	.018	.022	.008	.018	.010	.020	.007	.022	.012	.021	.021	.021
Luxembourg.....	.042	.041	.038	.039	.046	.043	.040	.038	.036	.038	.037	.039
Portugal.....	.228	.381	.222	.374	.217	.315	.285	.255	.293	.282	.281	.291
Sweden.....	.510	.498	.449	.363	.332	.440	.423	.344	.319	.353	.351	.365
Switzerland.....	.270	.281	.290	.236	.270	.259	.250	.269	.293	.291	.291	.301
Turkey.....	.613	.645	.630	.640	.509	.521	.596	.527	.545	.648	.647	.670
Japan.....	5.582	5.769	6.013	6.196	6.531	6.298	5.995	5.218	4.914	5.585	5.584	5.771
Other OECD.....	.720	.509	.610	.788	.605	.536	.637	.633	.635	.698	.308	.498

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					
	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	August	Sept
Total.....	15.466	15.926	15.893	16.623	16.233	15.848	16.278	16.048	15.496	16.035	16.030	16.571
United States ¹ /....	4.267	3.961	3.920	4.066	4.109	4.251	4.538	4.886	4.774	4.273	4.691	4.730
Canada.....	.247	.274	.323	.313	.364	.274	.201	.241	.255	.340	.339	.351
OECD Europe ² /.....	5.814	6.613	6.213	6.398	5.994	5.446	5.801	6.029	5.594	6.151	6.148	6.356
Main European Importers												
France.....	.795	1.003	.888	.820	1.095	.809	.802	.753	.824	.955	.954	.987
Germany ³ /.....	.616	.653	.645	.605	.618	.660	.668	.683	.581	.651	.651	.673
Italy.....	1.232	1.325	1.372	1.429	1.281	1.270	1.142	1.484	1.202	1.329	1.331	1.373
Spain.....	.887	.926	.864	.960	.773	.630	.707	.703	.693	.774	.773	.801
Netherlands.....	.777	.883	.911	.744	.620	.598	.938	.812	.684	.789	.788	.815
European Net Exporters												
Norway.....	.000	.000	.000	.009	.007	.000	.000	.000	.000	.000	.000	.000
United Kingdom....	.185	.310	.188	.179	.215	.176	.176	.199	.219	.231	.230	.239
Smaller European Importers												
Austria.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Belgium.....	.294	.346	.238	.298	.223	.157	.290	.315	.309	.304	.304	.314
Denmark.....	.049	.032	.044	.025	.052	.000	.025	.049	.033	.033	.033	.034
Ireland.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Finland.....	.011	.000	.000	.000	.000	.000	.000	.010	.000	.000	.000	.000
Greece.....	.280	.302	.297	.362	.293	.275	.284	.286	.294	.308	.307	.318
Portugal.....	.080	.161	.145	.197	.168	.220	.142	.180	.179	.177	.178	.183
Sweden.....	.054	.070	.105	.145	.104	.150	.127	.093	.092	.060	.060	.062
Switzerland.....	.108	.093	.079	.103	.109	.097	.063	.087	.093	.100	.100	.103
Turkey.....	.447	.509	.436	.522	.435	.404	.436	.377	.390	.440	.439	.454
Japan.....	4.394	4.502	4.620	5.026	5.137	5.236	4.839	4.175	3.977	4.385	4.385	4.531
Other OECD.....	.744	.577	.817	.820	.629	.642	.900	.717	.896	.887	.467	.602

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								
	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	August	Sept
Total.....	8.941	9.652	9.622	9.986	9.914	9.569	10.003	9.565	8.931	9.623	9.622	9.945
United States ¹ /....	1.632	1.519	1.673	1.548	1.533	1.625	1.858	1.701	1.763	1.712	1.836	1.867
Canada.....	.127	.090	.128	.130	.144	.067	.133	.137	.136	.111	.111	.115
OECD Europe ² /.....	2.907	3.557	3.133	3.322	3.159	2.857	3.223	3.584	3.169	3.474	3.474	3.591
Main European Importers												
France.....	.459	.642	.569	.535	.753	.404	.599	.555	.563	.705	.704	.728
Germany ³ /.....	.193	.167	.106	.088	.094	.131	.189	.153	.192	.174	.173	.180
Italy.....	.459	.543	.532	.550	.589	.507	.458	.646	.526	.599	.600	.619
Spain.....	.350	.327	.288	.340	.301	.355	.388	.413	.287	.362	.363	.375
Netherlands.....	.538	.644	.661	.568	.499	.456	.569	.642	.515	.539	.539	.557
European Net Exporters												
Norway.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
United Kingdom....	.097	.122	.067	.066	.059	.084	.078	.107	.124	.108	.108	.112
Smaller European Importers												
Austria.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Belgium.....	.277	.331	.219	.250	.191	.119	.233	.285	.250	.280	.280	.289
Denmark.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.007	.008	.008
Finland.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Greece.....	.239	.270	.245	.317	.250	.232	.251	.254	.243	.270	.269	.279
Portugal.....	.023	.088	.100	.091	.057	.164	.052	.161	.138	.088	.088	.091
Sweden.....	.017	.070	.061	.132	.074	.132	.070	.064	.067	.044	.044	.046
Switzerland.....	.009	.005	.000	.000	.005	.005	.010	.014	.014	.008	.008	.008
Turkey.....	.244	.348	.286	.385	.287	.267	.327	.289	.249	.290	.290	.300
Japan.....	3.975	4.223	4.219	4.616	4.750	4.705	4.499	3.816	3.505	3.936	3.936	4.068
Other OECD.....	.300	.264	.469	.369	.328	.315	.291	.327	.357	.389	.264	.304

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								
	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	August	Sept
Total Net Imports..	8.792	8.220	8.404	8.595	8.460	8.780	8.997	9.565	9.402	8.691	9.081	9.204
Imports from OPEC ^{1/}	4.267	3.961	3.920	4.066	4.109	4.251	4.538	4.886	4.774	4.273	4.691	4.730
Imports from Persian Gulf ^{2/}												
Total.....	1.632	1.519	1.673	1.548	1.533	1.625	1.858	1.701	1.763	1.712	1.836	1.867
Bahrain.....	.000	-.003	.000	-.003	.000	-.003	.000	.000	.000	-.003	-.003	-.003
Iran.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Iraq.....	.000	.000	.014	.000	.000	.035	.069	.102	.115	.088	.000	.000
Kuwait.....	.260	.228	.262	.209	.172	.315	.204	.128	.361	.331	.229	.322
U.A.E.....	.015	-.003	-.003	.000	.000	-.014	-.003	-.003	-.016	.011	-.009	-.003
Qatar.....	.000	.000	.000	.000	.000	.000	.015	.000	.000	.000	.000	.000
Saudi Arabia.....	1.357	1.297	1.400	1.342	1.361	1.292	1.573	1.474	1.303	1.285	1.619	1.551
Imports from OPEC-Africa												
Total.....	.729	.679	.534	.813	.943	.867	1.025	1.249	1.117	.871	1.143	1.022
Algeria.....	.209	.214	.214	.282	.319	.309	.320	.290	.349	.291	.261	.259
Libya.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Nigeria.....	.520	.465	.320	.531	.624	.558	.705	.959	.768	.580	.882	.763
Imports from OPEC-South America												
Total.....	1.781	1.724	1.635	1.629	1.584	1.738	1.615	1.850	1.840	1.614	1.695	1.756
Venezuela.....	1.781	1.724	1.635	1.629	1.584	1.738	1.615	1.850	1.840	1.614	1.695	1.756
Imports from OPEC-Far East												
Total.....	.125	.036	.078	.073	.049	.018	.040	.086	.054	.073	.014	.082
Indonesia.....	.125	.036	.078	.073	.049	.018	.040	.086	.054	.073	.014	.082

^{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								
	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	August	Sept
Total Net Imports..	5.582	5.769	6.013	6.196	6.531	6.298	5.995	5.218	4.914	5.585	5.584	5.771
Imports from OPEC ^{1/}	4.394	4.502	4.620	5.026	5.137	5.236	4.839	4.175	3.977	4.385	4.385	4.531
Imports from Persian Gulf ^{2/}												
Total.....	3.975	4.223	4.219	4.616	4.750	4.705	4.499	3.816	3.505	3.936	3.936	4.068
Bahrain.....	.014	.041	.053	.037	.009	.029	.045	.031	.008	.016	.016	.017
Iran.....	.446	.642	.456	.465	.742	.669	.316	.409	.253	.415	.414	.428
Iraq.....	.000	.000	.000	.000	.067	.000	.061	.059	.000	.000	.000	.000
Kuwait.....	.516	.487	.519	.642	.571	.548	.640	.464	.523	.514	.514	.531
U.A.E.....	1.409	1.530	1.419	1.706	1.449	1.488	1.570	1.220	1.180	1.391	1.392	1.438
Qatar.....	.348	.181	.276	.239	.402	.397	.349	.350	.291	.348	.348	.360
Saudi Arabia.....	1.242	1.342	1.496	1.527	1.510	1.574	1.516	1.284	1.251	1.252	1.252	1.294
Imports from OPEC-Africa												
Total.....	.060	.000	.000	.033	.000	.000	.016	.046	.100	.065	.066	.067
Algeria.....	.000	.000	.000	.000	.000	.000	.016	.046	.041	.027	.027	.028
Nigeria.....	.060	.000	.000	.033	.000	.000	.000	.000	.059	.038	.038	.040
Imports from OPEC-South America												
Total.....	.000	.000	.014	.019	.000	.011	.000	.000	.000	.000	.000	.000
Venezuela.....	.000	.000	.014	.019	.000	.011	.000	.000	.000	.000	.000	.000
Imports from OPEC-Far East												
Total.....	.373	.319	.439	.395	.397	.549	.369	.344	.380	.400	.399	.413
Indonesia.....	.373	.319	.439	.395	.397	.549	.369	.344	.380	.400	.399	.413

^{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								
	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	August	Sept
Total Net Imports..	8.172	8.096	7.710	8.183	7.219	6.460	6.477	7.245	7.274	7.588	7.534	7.795
Imports from OPEC ^{1/}	5.814	6.613	6.213	6.398	5.994	5.446	5.801	6.029	5.594	6.151	6.148	6.356
Imports from Persian Gulf ^{2/}												
Total.....	2.907	3.557	3.133	3.322	3.159	2.857	3.223	3.584	3.169	3.474	3.474	3.591
Bahrain.....	.000	.007	.000	.003	.002	.000	.000	.000	.000	.000	.000	.000
Iran.....	.960	1.012	.957	.866	.754	.813	.875	1.157	.964	1.011	1.011	1.045
Iraq.....	.000	.000	.065	.308	.342	.344	.404	.471	.036	.157	.157	.162
Kuwait.....	.221	.368	.218	.309	.322	.222	.217	.248	.240	.301	.301	.311
U.A.E.....	.000	.008	.004	.001	.000	.002	.003	.002	.002	.008	.008	.009
Qatar.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Saudi Arabia.....	1.726	2.162	1.889	1.835	1.738	1.475	1.723	1.705	1.927	1.997	1.997	2.064
Imports from OPEC-Africa												
Total.....	2.703	2.768	2.898	2.915	2.614	2.457	2.254	2.210	2.190	2.427	2.425	2.508
Algeria.....	.767	.703	.749	.807	.660	.641	.699	.555	.533	.640	.639	.662
Libya.....	1.249	1.168	1.243	1.303	1.179	1.271	1.110	1.296	1.332	1.243	1.243	1.285
Nigeria.....	.687	.896	.906	.806	.776	.545	.445	.360	.324	.543	.543	.561
Imports from OPEC-South America												
Total.....	.188	.252	.162	.147	.204	.132	.324	.209	.229	.228	.228	.236
Venezuela.....	.188	.252	.162	.147	.204	.132	.324	.209	.229	.228	.228	.236
Imports from OPEC-Far East												
Total.....	.016	.043	.021	.017	.019	.000	.000	.026	.006	.021	.021	.022
Indonesia.....	.016	.043	.021	.017	.019	.000	.000	.026	.006	.021	.021	.022

^{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								
	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	August	Sept
Total Net Imports..	1.781	1.861	1.804	1.919	1.892	1.586	1.633	1.766	1.475	1.696	1.697	1.753
Imports from OPEC ^{1/}	.795	1.003	.888	.820	1.095	.809	.802	.753	.824	.955	.954	.987
Imports from Persian Gulf ^{2/}												
Total.....	.459	.642	.569	.535	.753	.404	.599	.555	.563	.705	.704	.728
Bahrain.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Iran.....	.121	.186	.123	.061	.122	.107	.153	.102	.131	.165	.164	.170
Iraq.....	.000	.000	.000	.065	.159	.102	.082	.154	.002	.064	.064	.066
Kuwait.....	.000	.018	.000	.002	.070	.002	.003	.000	.000	.044	.044	.046
U.A.E.....	.000	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000
Qatar.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Saudi Arabia.....	.338	.437	.444	.407	.401	.194	.361	.299	.429	.431	.431	.446
Imports from OPEC-Africa												
Total.....	.335	.356	.319	.285	.342	.405	.204	.196	.261	.251	.250	.259
Algeria.....	.140	.110	.068	.177	.216	.187	.124	.115	.138	.117	.116	.120
Libya.....	.027	.069	.068	.014	.044	.063	.080	.051	.102	.067	.067	.069
Nigeria.....	.168	.177	.183	.094	.083	.154	.000	.030	.022	.067	.067	.069
Imports from OPEC-South America												
Total.....	.000	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Venezuela.....	.000	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Imports from OPEC-Far East												
Total.....	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.000	.000
Indonesia.....	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.000	.000

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

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

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

Sources: See end of Section 3.

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

	1996			1997								
	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	August	Sept
Total Net Imports..	2.807	2.880	2.805	2.939	2.665	2.626	2.729	2.963	2.703	2.827	2.826	2.921
Imports from OPEC ^{1/}	.616	.653	.645	.605	.618	.660	.668	.683	.581	.651	.651	.673
Imports from Persian Gulf ^{2/}												
Total.....	.193	.167	.106	.088	.094	.131	.189	.153	.192	.174	.173	.180
Bahrain.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Iran.....	.016	.018	.000	.012	.011	.028	.029	.016	.037	.025	.025	.026
Iraq.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Kuwait.....	.025	.028	.011	.009	.009	.010	.020	.009	.013	.013	.013	.014
U.A.E.....	.000	.000	.000	.000	.000	.000	.002	.002	.002	.002	.001	.002
Qatar.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Saudi Arabia.....	.152	.122	.094	.068	.074	.094	.137	.125	.140	.134	.134	.138
Imports from OPEC-Africa												
Total.....	.398	.428	.511	.503	.505	.485	.416	.470	.352	.418	.418	.432
Algeria.....	.045	.084	.139	.108	.100	.108	.108	.054	.070	.080	.080	.083
Libya.....	.281	.232	.250	.276	.216	.256	.182	.318	.261	.261	.261	.270
Nigeria.....	.072	.112	.121	.118	.189	.121	.126	.097	.021	.077	.077	.080
Imports from OPEC-South America												
Total.....	.024	.058	.029	.014	.018	.043	.064	.059	.037	.059	.059	.061
Venezuela.....	.024	.058	.029	.014	.018	.043	.064	.059	.037	.059	.059	.061
Imports from OPEC-Far East												
Total.....	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.000	.000
Indonesia.....	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.000	.000

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

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

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •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								
	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	August	Sept
Total Net Imports..	1.858	1.873	1.911	2.036	1.853	1.690	1.359	1.794	1.638	1.690	1.690	1.746
Imports from OPEC ^{1/}	1.232	1.325	1.372	1.429	1.281	1.270	1.142	1.484	1.202	1.329	1.331	1.373
Imports from Persian Gulf ^{2/}												
Total.....	.459	.543	.532	.550	.589	.507	.458	.646	.526	.599	.600	.619
Bahrain.....	.000	.007	.000	.003	.002	.000	.000	.000	.000	.000	.000	.000
Iran.....	.268	.209	.238	.241	.249	.250	.147	.365	.256	.252	.252	.260
Iraq.....	.000	.000	.000	.048	.000	.032	.000	.049	.000	.027	.027	.028
Kuwait.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
U.A.E.....	.000	.000	.000	.000	.000	.002	.000	.000	.000	.000	.000	.000
Qatar.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Saudi Arabia.....	.192	.327	.294	.258	.338	.223	.311	.232	.270	.321	.321	.331
Imports from OPEC-Africa												
Total.....	.756	.742	.820	.848	.672	.756	.669	.814	.669	.690	.691	.713
Algeria.....	.121	.094	.122	.110	.084	.073	.141	.101	.059	.077	.078	.079
Libya.....	.618	.576	.637	.632	.524	.617	.492	.684	.610	.593	.593	.612
Nigeria.....	.017	.071	.061	.105	.065	.066	.036	.029	.000	.020	.020	.021
Imports from OPEC-South America												
Total.....	.000	.029	.000	.017	.004	.007	.016	.000	.000	.027	.027	.028
Venezuela.....	.000	.029	.000	.017	.004	.007	.016	.000	.000	.027	.027	.028
Imports from OPEC-Far East												
Total.....	.016	.018	.021	.017	.018	.000	.000	.024	.006	.013	.013	.014
Indonesia.....	.016	.018	.021	.017	.018	.000	.000	.024	.006	.013	.013	.014

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

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

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •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								
	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	August	Sept
Total.....	0.000	0.000	0.080	0.308	0.409	0.380	0.537	0.636	0.155	0.212	0.212	0.219
United States ¹ /.....	.000	.000	.014	.000	.000	.035	.069	.102	.115	.088	.000	.000
Canada.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.023	.023	.024
OECD Europe ² /.....	.000	.000	.065	.308	.342	.344	.404	.471	.036	.157	.157	.162
Main European Importers												
France.....	.000	.000	.000	.065	.159	.102	.082	.154	.002	.064	.064	.066
Germany ³ /.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Italy.....	.000	.000	.000	.048	.000	.032	.000	.049	.000	.027	.027	.028
Spain.....	.000	.000	.029	.094	.021	.097	.131	.066	.033	.066	.065	.068
Netherlands.....	.000	.000	.000	.006	.000	.000	.094	.031	.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	.020	.029	.008	.014	.053	.000	.000	.000	.000
Denmark.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Greece.....	.000	.000	.000	.011	.000	.000	.000	.000	.000	.000	.000	.000
Portugal.....	.000	.000	.000	.000	.000	.034	.000	.031	.000	.000	.000	.000
Sweden.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Switzerland.....	.000	.000	.000	.000	.000	.000	.010	.005	.000	.000	.000	.000
Turkey.....	.000	.000	.037	.064	.133	.071	.074	.081	.000	.000	.000	.000
Japan.....	.000	.000	.000	.000	.067	.000	.061	.059	.000	.000	.000	.000
Other OECD.....	.000	.000	.000	.000	.000	.001	.003	.004	.004	-.056	.032	.033

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								
	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	August	Sept
Total.....	1.008	1.085	1.009	1.170	1.075	1.096	1.064	0.853	1.131	1.107	1.108	1.144
United States ^{1/}.....	.260	.228	.262	.209	.172	.315	.204	.128	.361	.331	.229	.322
Canada.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
OECD Europe ^{2/}.....	.221	.368	.218	.309	.322	.222	.217	.248	.240	.301	.301	.311
Main European Importers												
France.....	.000	.018	.000	.002	.070	.002	.003	.000	.000	.044	.044	.046
Germany ^{3/}.....	.025	.028	.011	.009	.009	.010	.020	.009	.013	.013	.013	.014
Italy.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Spain.....	.000	.000	.000	.000	.000	.003	.000	.000	.000	.000	.000	.000
Netherlands.....	.180	.237	.164	.255	.148	.158	.125	.205	.184	.189	.189	.196
European Net Exporters												
Norway.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
United Kingdom....	.000	.057	.028	.028	.059	.029	.029	.027	.028	.028	.027	.028
Smaller European Importers												
Austria.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Belgium.....	.000	.014	.000	.000	.015	.008	.024	.007	.000	.000	.000	.000
Denmark.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.007	.008	.008
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	.015	.015	.020	.012	.016	.000	.016	.019	.019	.020
Japan.....	.516	.487	.519	.642	.571	.548	.640	.464	.523	.514	.514	.531
Other OECD.....	.011	.002	.011	.010	.011	.011	.002	.013	.006	-.039	.064	-.020

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 1996 and Petroleum Supply Monthly, December 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 / ₁	Libya	Nigeria	Qatar	Saudi Arabia ¹ / 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	709	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	5,774	--	604	6,465	3,520	63,972

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

-- = Not applicable. P=Preliminary.

Sources: See end of Section 4.

Table 4.2 OPEC Crude Oil Production (Excluding Condensate), 1980-1996
(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	--	1,830	1,082	1,274	1,452	5,625

^{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.....	9,445	18,491	19,243	28,277	71,738

^{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	152	300	108	1,256	1,507	103	651	74	3,591

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

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

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

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

P=Preliminary.

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

Sources: See end of Section 4.

Table 4.6 World Oil Demand, 1970-1996
(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	1,118	--	--	38,967	67,043
1994 Average...	1,833	1,841	2,879	1,837	13,597	17,718	1,727	5,674	1,174	--	--	39,890	68,313
1995 Average...	1,896	2,048	2,875	1,845	14,120	17,725	1,755	5,711	1,227	--	--	40,537	70,193
1996 Average P.	1,935	2,058	2,911	1,845	14,269	18,309	R1,797	5,867	1,124	--	--	R41,366	R71,894

^{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. --=Not Applicable. R=Revised data.

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	21.455
United States ¹ /....	5.439	5.914	6.587	7.202	7.161	6.626	6.938	7.618	8.054	7.886	8.498
Canada.....	-.391	-.358	-.585	-.462	-.425	-.479	-.546	-.586	-.623	-.756	-.803
OECD Europe ² /.....	7.893	7.742	7.774	7.994	8.210	8.588	8.459	8.127	7.355	7.226	7.339
Main European Importers											
France.....	1.682	1.742	1.718	1.711	1.750	1.869	1.784	1.761	1.615	1.721	1.738
Germany ³ /.....	2.380	2.281	2.279	2.112	2.202	2.664	2.739	2.723	2.731	2.699	2.793
Italy.....	1.642	1.718	1.590	1.716	1.788	1.769	1.839	1.747	1.778	1.820	1.791
Netherlands.....	.632	.562	.646	.635	.677	.690	.713	.688	.720	.700	.763
Spain.....	.747	.803	.869	.952	.950	.951	.998	1.066	1.119	1.202	1.183
European Net Exporters											
Norway.....	-.718	-.866	-1.036	-1.420	-1.543	-1.825	-2.102	-2.254	-2.586	-2.794	-3.150
United Kingdom....	-1.067	-1.015	-.760	-.200	-.214	-.158	-.221	-.355	-.850	-.969	-.839
Smaller European Importers											
Austria.....	.188	.194	.185	.191	.201	.212	.209	.205	.210	.194	.213
Belgium.....	.456	.443	.451	.454	.442	.506	.517	.503	.517	.495	.572
Denmark.....	.150	.122	.107	.078	.063	.048	.032	.023	.027	.039	.028
Ireland.....	.098	.081	.076	.079	.095	.094	.097	.102	.109	.116	.124
Finland.....	.229	.242	.200	.220	.208	.211	.188	.182	.234	.145	.180
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	.274
Sweden.....	.379	.309	.313	.290	.324	.312	.320	.335	.362	.356	.405
Switzerland.....	.290	.254	.258	.254	.273	.273	.277	.250	.262	.248	.260
Turkey.....	.342	.402	.397	.384	.425	.366	.413	.500	.490	.569	.600
Japan.....	4.392	4.418	4.680	5.035	5.239	5.286	5.464	5.467	5.766	5.716	5.790
Other OECD.....	.338	.291	.250	.313	.270	.392	.467	.599	.580	.644	.632

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	15.630
United States ¹ /....	2.724	2.988	3.439	3.986	4.172	3.918	3.888	4.103	4.036	3.979	4.194
Canada.....	.158	.154	.161	.205	.199	.210	.210	.268	.285	.257	.261
OECD Europe ² /.....	6.073	5.597	5.842	6.188	6.633	6.728	6.758	6.794	6.385	6.154	6.053
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	.660
Italy.....	1.361	1.307	1.191	1.260	1.375	1.393	1.343	1.222	1.117	1.203	1.244
Netherlands.....	.768	.767	.850	.892	.850	.900	.914	.982	.906	.791	.779
Spain.....	.584	.543	.604	.686	.652	.700	.632	.582	.668	.781	.775
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	.284
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	.177
Sweden.....	.086	.062	.074	.064	.073	.105	.116	.123	.126	.109	.091
Switzerland.....	.068	.069	.051	.021	.036	.052	.051	.063	.082	.083	.098
Turkey.....	.344	.411	.439	.384	.388	.365	.412	.452	.475	.477	.483
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	.653

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	9.215
United States ¹ /...	.909	1.072	1.526	1.857	1.961	1.835	1.774	1.775	1.722	1.563	1.594
Canada.....	.054	.054	.056	.069	.081	.084	.092	.105	.119	.070	.111
OECD Europe ² /.....	3.513	3.330	3.428	3.754	3.908	3.660	3.666	4.048	3.506	3.365	3.171
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	.502
Netherlands.....	.509	.516	.587	.663	.647	.609	.650	.744	.662	.563	.566
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	.263
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	.083
Sweden.....	.036	.029	.045	.043	.039	.064	.068	.088	.076	.068	.067
Switzerland.....	.008	.008	.007	.007	.007	.007	.007	.008	.012	.007	.006
Turkey.....	.289	.348	.411	.323	.307	.324	.349	.429	.405	.336	.320
Japan.....	2.557	2.637	2.691	3.173	3.394	3.370	3.586	3.721	3.946	3.979	4.025
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	8.054	7.886	8.498
Imports from OPEC ^{1/}	2.724	2.988	3.439	3.986	4.172	3.918	3.888	4.103	4.036	3.979	4.194
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	1.594
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	.236
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	.872
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	.616
Imports from OPEC-South America											
Total.....	.788	.801	.790	.861	1.016	1.020	1.161	1.295	1.322	1.468	1.667
Venezuela.....	.788	.801	.790	.861	1.016	1.020	1.161	1.295	1.322	1.468	1.667
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	5.790
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	4.025
Bahrain.....	.034	.037	.036	.042	.037	.037	.029	.025	.028	.029	.033
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	.500
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	.335
Saudi Arabia.....	.789	1.005	.930	.984	1.240	1.367	1.420	1.327	1.303	1.296	1.310
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	.003
Venezuela.....	.012	.012	.011	.011	.011	.010	.010	.009	.009	.002	.003
Imports from OPEC-Far East											
Total.....	.486	.563	.599	.631	.682	.673	.624	.533	.551	.488	.442
Indonesia.....	.486	.563	.599	.631	.682	.673	.624	.533	.551	.488	.442

^{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	7.339
Imports from OPEC ^{1/}	6.073	5.597	5.842	6.188	6.633	6.728	6.758	6.794	6.385	6.154	6.053
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	3.171
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	1.059
Iraq.....	.717	.905	.959	.897	.591	.000	.000	.001	.000	.000	.006
Kuwait.....	.456	.469	.474	.452	.346	.019	.142	.461	.302	.269	.288
U.A.E.....	.164	.206	.134	.214	.446	.281	.199	.092	.067	.011	.004
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	1.811
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	2.644
Algeria.....	.615	.627	.646	.648	.683	.757	.772	.693	.690	.724	.746
Libya.....	.967	.962	1.071	1.044	1.267	1.332	1.361	1.193	1.233	1.201	1.204
Nigeria.....	.727	.469	.481	.532	.559	.729	.686	.605	.721	.575	.694
Imports from OPEC-South America											
Total.....	.252	.208	.220	.212	.227	.249	.268	.240	.219	.273	.206
Venezuela.....	.252	.208	.220	.212	.227	.249	.268	.240	.219	.273	.206
Imports from OPEC-Far East											
Total.....	.002	.002	.005	.004	.008	.002	.009	.019	.019	.017	.033
Indonesia.....	.002	.002	.005	.004	.008	.002	.009	.019	.019	.017	.033

^{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	1.738
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	2.793
Imports from OPEC ^{1/}	.830	.675	.761	.739	.771	.859	.957	.948	.838	.711	.660
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	.462
Algeria.....	.137	.146	.141	.106	.098	.126	.183	.195	.161	.135	.125
Libya.....	.152	.160	.237	.235	.244	.262	.252	.244	.244	.234	.258
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	1.791
Imports from OPEC ^{1/}	1.361	1.307	1.191	1.260	1.375	1.393	1.343	1.222	1.117	1.203	1.244
Imports from Persian Gulf ^{2/}											
Total.....	.817	.782	.643	.619	.626	.595	.573	.548	.430	.494	.502
Bahrain.....	.001	.000	-	.001	.000	.001	.001	.000	.000	.000	.001
Iran.....	.135	.141	.093	.124	.192	.231	.239	.221	.143	.233	.263
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	.236
Imports from OPEC-Africa											
Total.....	.505	.489	.516	.626	.740	.793	.757	.653	.660	.679	.714
Algeria.....	.087	.109	.108	.150	.155	.155	.140	.096	.099	.100	.110
Libya.....	.309	.342	.389	.430	.556	.581	.584	.542	.543	.562	.580
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	.021
Indonesia.....	-	-	.002	.002	.003	.001	.009	.019	.019	.015	.021

^{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	0.007
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	.006
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	.003
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	1.034
United States ¹ /.....	.068	.082	.092	.157	.086	.006	.051	.353	.312	.218	.236
Canada.....	-	-	-	-	.004	-	-	.000	.027	.000	.000
OECD Europe ² /.....	.456	.469	.474	.452	.346	.019	.142	.461	.302	.269	.288
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	.193
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	.015
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	.015
Japan.....	.278	.347	.341	.458	.291	.014	.220	.368	.430	.501	.500
Other OECD.....	.028	.026	.029	.017	.013	.000	.000	.009	.011	.009	.010

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 1996; • 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 1996.

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 1996.

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 1996.

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

Appendix A

Organizational and Geographical Definitions

Appendix A. Organizational and Geographical Definitions

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

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

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

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

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

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

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

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

Appendix B

Explanatory Notes

Appendix B. Explanatory Notes

Note 1: World Oil Supply

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

Note 2: Oil Stocks

The International Energy Agency (IEA) assembles and reports total oil stock data for the member countries of the Organization for Economic Cooperation and Development (OECD). Oil stocks include crude oil (including strategic reserves), unfinished oils, natural gas plant liquids, and refined petroleum products. In its report titled Quarterly Oil Statistics and Energy Balances of OECD Countries, the IEA defines oil stocks as follows: "All non-military stocks held by importers (including all final consumers directly), refiners, Governments, major non-importing final consumers eligible under IEA/OECD commitments and by foreign entities in the following facilities: bulk terminals, refinery tanks, pipeline tankage, barges, intercoastal tankers (when port of departure and destination are in the reporting country), tankers in port (to the extent that their cargo is to be unloaded in the reporting country), and inland ship bunkers. Oil is reported regardless of the ownership of such storage facilities." IEA data exclude "oil held in pipelines, rail and truck tank cars, sea-going ships' bunkers, service stations, retail stores and tankers at sea." Also the IEA defines the United States to be the 50 States and the District of Columbia, and the U.S. Territories (Guam, Puerto Rico, and the U.S. Virgin Islands). The Energy Information Administration (EIA) does not include the United States Territories in its statistical definition of the United States. Further, the EIA includes oil in oil pipelines as part of its stock data. Tables 1.5, 1.6, 2.3, and 4.4 include oil stocks for the United States according to EIA definitions. Using IEA definitions, at the end of September 1997 United States (including territories) oil stocks totaled 1,450 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).