

INTERNATIONAL PETROLEUM STATISTICS REPORT

April 1998



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

Preface

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

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

The International Petroleum Statistics Report presents data on international oil production, demand, imports, and stocks. The report has four sections. Section 1 contains time series data on world oil production, and on oil demand and stocks in the Organization for Economic Cooperation and Development (OECD). This section contains annual data beginning in 1985, and monthly data for the most recent two years. Section 2 presents an oil supply/demand balance for the world. This balance is presented in quarterly intervals for the most recent two years. Section 3 presents data on oil imports by OECD countries. This section contains annual data for the most recent year, quarterly data for the most recent two quarters, and monthly data for the most recent twelve months. Section 4 presents annual time series data on world oil production and oil stocks, demand, and trade in OECD countries. World oil production and OECD demand data are for the years 1970 through 1997; OECD stocks from 1973 through 1997; and OECD trade from 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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Historical revisions reflect changes to data that were published in the *International Energy Annual 1996*, which is also available on the EIA Home Page (<http://www.eia.doe.gov/emeu/iea/contents.html>).

Oil Market Chronology -- March 1998

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), the Wall Street Journal (WSJ), and the Middle East Economic Survey (MEES).

- March 1** The Jordanian government announces that it has signed an agreement with the Royal Dutch/Shell group allowing the company to extract crude from oil shales in Jordan. A recent study by Jordan's Natural Resources Authority indicates that there are 40 billion tons of oil shale reserves in the southwestern regions of the Kingdom. Jordan also announced that it has received offers from an international consortium to build a refinery in Aqaba, located 217 miles south of the Jordanian capital Amman. The refinery is expected to cost \$2 billion, with a capacity of 250,000 barrels per day. (DJ)
- Iraqi officials and independent experts report that Iraq's oil production system has fallen into such disrepair that Iraq cannot take full advantage of a recent United Nations (U.N.) Security Council resolution that more than doubled U.N.-authorized Iraqi oil sales to \$5.26 billion every six months. Iraq says that, under current conditions, it can sell only \$4 billion worth of oil over the next six months, unless it is allowed to purchase more equipment. Experts say that Iraq's production system needs \$800 million of repairs, and that these repairs could take a year or more to complete. (NYT)
- March 2** The United Nations Security Council unanimously approves a resolution endorsing Secretary Kofi Annan's agreement with Iraq on weapons inspections which includes the controversial presidential palaces. The resolution threatens any Iraqi violation of the agreement with the "severest consequences," but does not authorize an automatic military response. (NYT) (DJ)
- March 3** The Independent Petroleum Association of America (IPAA) announces that it has filed a lawsuit against the U.S. Department of the Interior, challenging the validity of a natural gas transportation regulation that went into effect on February 1, 1998. The IPAA contends that under the new law, independent oil and gas producers will no longer be allowed to deduct the full cost of transporting gas to the marketplace, which effectively adds these costs to the wellhead price. This, in turn, allegedly will drive up the cost of gas and increase royalty payments required by the government for that production. IPAA claims that this situation will threaten future natural gas production on federal lands. (DJ)
- March 4** The Hungarian government announces that it will sell 1 percent, or 984,000 ordinary shares, in state-owned oil and gas company MOL Rt. The stake may be increased to 2 percent if demand from domestic small investors is greater than the 1 percent offer. The offer is part of the government's plan to privatize MOL and reduce its ownership from 36.2 percent to 25 percent. (DJ)
- March 6** Ford Motor Company and Mobil Corporation form an alliance to develop fuel and vehicle technologies to increase efficiency and reduce emissions. This announcement follows a similar agreement between General Motors Corporation and Amoco Corporation. Ford and Mobil will focus on developing a direct-injection diesel system that substantially improves fuel efficiency and fuel cell processors for use in passenger vehicles. Ford expects to introduce a fuel-cell vehicle in 2004. (WSJ)
- French petroleum company Total SA signs an agreement with the Nigerian National Petroleum Corporation to rehabilitate the Kaduna refinery in northern Nigeria. The 110,000-barrel-per-day refinery has been shut since July 1997. Currently, the 125,000-barrel-per-day unit in Warri is the only functional refinery in the country. All other refineries have been shut for safety reasons. The rehabilitation is estimated to cost around \$200 million, and some units at the refinery may resume production in six months. (DJ)
- March 11** The United States Mineral Management Service decides to exclude an area offshore of the Arctic National Wildlife Refuge in Alaska from an oil-drilling lease sale scheduled for August 1998. The decision is a victory for environmental groups, such as the Alaska Wilderness League. (DJ)

- March 12** Amoco Corporation reports that it will invest \$230 million to develop the Amherstia field offshore Trinidad and Tobago. The field contains 2 trillion cubic feet of natural gas reserves and first production is expected in the first quarter of 2000. Amoco also expects Amherstia to yield crude oil and condensate. (DJ)
- As the United States Bureau of Land Management considers proposals that would allow drilling for crude oil and natural gas on a 4.6-million-acre portion of the National Petroleum Reserve-Alaska, the American Petroleum Institute (API) announces its support for a proposal that would open it all up to drilling. However, API also wants the drilling to be conducted in an environmentally sound manner. API maintains that the oil industry has the technology to design and build facilities that minimize the industry's impact on fish, birds, and other wildlife. (DJ)
- March 16** State-owned China National Petroleum Corporation signs a 25-year, \$325 million contract with Monde Group LLC of Houston, Texas, for an oil recovery program in China. Under the contract, Monde will take over operation of 800 wells in five sections of the Zhongyuan oil field near Puyang, Henan Province. Monde will attempt to reduce recent production declines from the field using enhanced oil recovery systems such as improved drilling techniques and 3D seismic surveys. (DJ)
- March 17** Following a long-time dispute over transit fees, Russia and Turkmenistan reach an agreement to transport 706 billion cubic feet of Turkmen natural gas to Ukraine via Russian territory. (DJ)
- March 18** The U.S. Interior Department's Minerals Management Service holds its semiannual lease sale in New Orleans, Louisiana, receiving bids on 794 of 4,180 tracts offered in the sale. The tracts cover about 4.3 million acres all of which are located in the central region of the Gulf of Mexico. Oil producers submit bids totaling \$810.4 million. Conoco submits the most bids, with 122 valued at \$48.7 million, and Shell Oil Company is second with 119 at \$46.9 million. Other major bidders include Mobil Corporation, Chevron Corporation, Elf Aquitaine SA, and Oryx Energy Company. The next lease sale is scheduled for August 1998 covering western blocks in the Gulf. (WSJ)
- March 19** Sergei Volchkov, deputy manager for construction for the Caspian Pipeline Consortium (CPC), reports that further delays are expected in the construction of a 838-mile oil pipeline running from Kazakhstan's Tengiz oil field to the Russian Black Sea port of Novorosiisk. Earlier this year, CPC reported that construction on the \$4.5 billion pipeline would begin in the third quarter of 1998, but that date now has been pushed to the fourth quarter of 1998, and start-up has been pushed to early 2000. Securing land permits for construction has proved slower than expected. The planned capacity for the pipeline is approximately 500 million barrels per year. (DJ)
- Shell Exploration and Production Company announces that it plans to spend \$1 billion developing the Angus, Europa, and Macaroni oil and gas discoveries located in the Gulf of Mexico. The Angus development is expected to yield 40,000 barrels of oil per day and 60 million cubic feet of gas per day by the end of 1999. The Europa development is expected to produce 60,000 barrels of oil per day and 45 million cubic feet of gas per day by early 2001. The Macaroni development is anticipated to yield 35,000 barrels of oil per day and 65 million cubic feet of gas per day by late 1999. The three discoveries will add 300 million barrels of oil equivalent to the Gulf of Mexico's deep water inventory. (DJ)
- March 20** In the continuing battle for market share in the United States (U.S.), Mexico and Saudi Arabia each move ahead of Venezuela as the biggest exporters of crude oil to the U.S. for January 1998, according to the U.S. Energy Information Administration. Venezuela has been the biggest foreign oil source for the U.S. on an annual basis for the past two years. (DJ)

- March 20** Russia's RAO Gazprom and the Bulgarian government reach a preliminary agreement providing for increased natural gas deliveries from Gazprom to Bulgaria in exchange for increased transit of Russian gas through Bulgaria to neighboring countries. Under the agreement, annual gas deliveries to Bulgaria will rise from 212 billion cubic feet in 1997 to 283 billion cubic feet in 1998. Transit of Russian gas through Bulgaria to other countries, such as Turkey, Greece, and The Former Yugoslav Republic of Macedonia, will increase to 671 billion cubic feet per year by 2010. (DJ)
- March 21** Russia announces plans for the sale of state-owned Rosneft, the Russian government's last major holding in the oil industry. The government is offering a 75 percent stake in the firm at a starting price of \$2.1 billion. Buyers will be required to invest \$400 million in the company within three months of the sale. (WP)
- March 22** In a joint statement, three major oil exporters, Saudi Arabia, Venezuela, and Mexico, pledge to reduce their own oil output in an attempt to boost sagging oil prices. Mexico and Venezuela indicate that they will cut production by 100,000 barrels per day and 200,000 barrels per day, respectively, while Saudi Arabia will cut 300,000 barrels per day. The three countries also are trying to get commitments from other Organization of Petroleum Exporting Countries (OPEC) member states and non-OPEC countries for further cuts to ultimately reduce worldwide oil production by 1.6 million to 2 million barrels per day. (NYT) (WSJ)
- March 24** After a dispute with Mobil Corporation, Elf Nigeria, a subsidiary of France's Elf Aquitaine SA, receives approval from Nigeria's Department of Petroleum Resources to develop the Amenam oil field. The field, located in Elf's OML99 area, contains estimated reserves of 400 million barrels of oil and is expected to produce 90,000 barrels per day. In a related story, France's Total SA and Brazil's Petrobras have been awarded block OPL246 in Nigeria's deep offshore zone. Some estimates put the block's reserves at one billion barrels of oil. (DJ)
- France's Elf Aquitaine SA acquires a 5 percent stake for \$528 million in the newly formed Russian oil company AO Yuksi. Yuksi was formed earlier this year in a merger of Russian oil producers AO Yukos and AO Sibneft. Elf will help Yuksi finance new equipment and development projects. The deal also covers joint development of the Sugmut field, located in western Siberia, which contains estimated reserves of more than 700 million barrels. Elf and Yuksi will each hold a 50 percent stake in the field, with total development costs estimated at \$1.5 billion. (WSJ)
- March 26** In response to the recent drop in oil prices, Russia's second largest oil company, AO Lukoil, announces that it will reduce its exports of oil products by more than 7 million barrels for 1998. However, Lukoil's president, Vagit Alekperov states that the cuts will not include crude oil exports. To compensate for the cuts, Alekperov says that Lukoil will boost sales of oil products in Russia's domestic market. (DJ)
- March 30** The U.S. Environmental Protection Agency (EPA) sues Mobil Corporation alleging that Mobil violated the Clean Water Act by spilling more than one million gallons of oil and contaminated water into tributaries of the San Juan River. The lawsuit cites 73 spills occurring between December 1991 and January 1998 at oil and gas production fields Mobil operates on Navajo Nation lands near Aneth, Utah. EPA also alleges that Mobil violated EPA regulations by not having containment equipment in the event of a spill and by failing to report some spills. The maximum penalty under the Clean Water Act is more than \$5 million. (DJ)
- March 31** The Organization of Petroleum Exporting Countries (OPEC) releases an official communique from its 104th (extraordinary) meeting convened in Vienna, Austria, on March 30, 1998. The communique states that member countries have agreed to voluntary cuts from each country's current production levels in an attempt to boost oil prices. OPEC has agreed to cuts totaling 1.245 million barrels per day effective April 1, 1998. The cuts, in barrels per day, break down as follows: Algeria 50,000; Indonesia 70,000; Iran 140,000; Kuwait 125,000; Libya 80,000; Nigeria 125,000; Qatar 30,000; Saudi Arabia 300,000; United Arab Emirates 125,000; and Venezuela 200,000. In addition, non-OPEC oil-producing countries Mexico, Oman, and Yemen have agreed to cut production by 100,000, 30,000, and 20,000 barrels per day, respectively. Moreover, a third non-OPEC country, Norway, the world's third largest oil exporter, has pledged to reduce its oil production by 3 percent, or approximately 100,000 barrels per day. However, Norway's cuts will not take effect until mid-April 1998. (Cuts are from February production based on secondary sources.) (DJ) (WSJ)(NYT)

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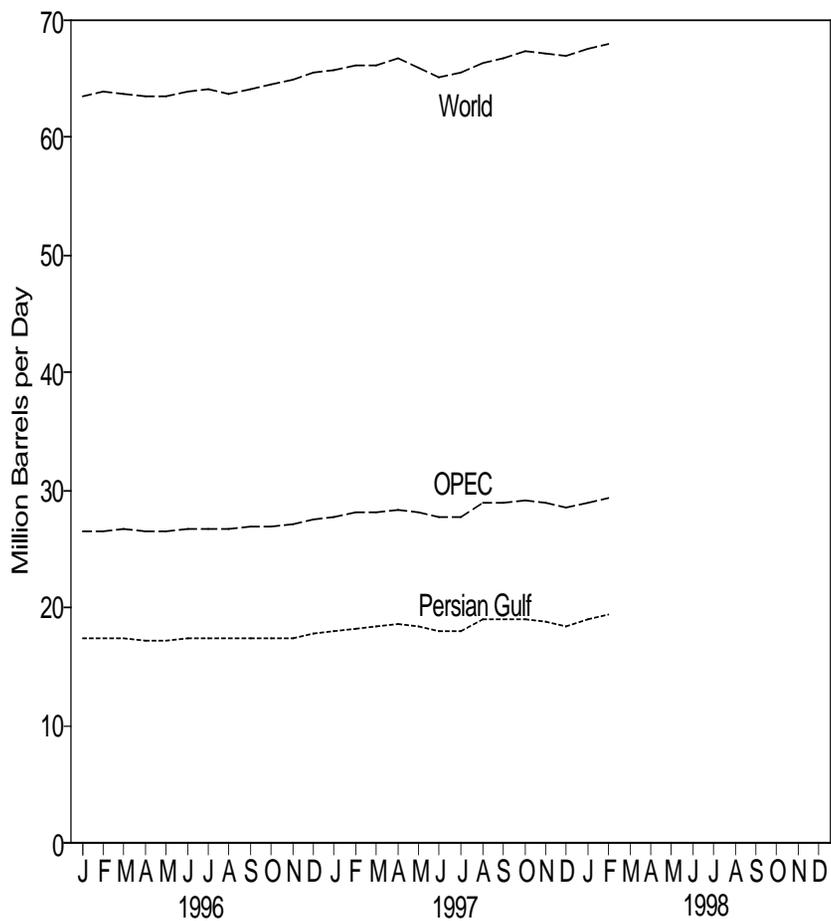
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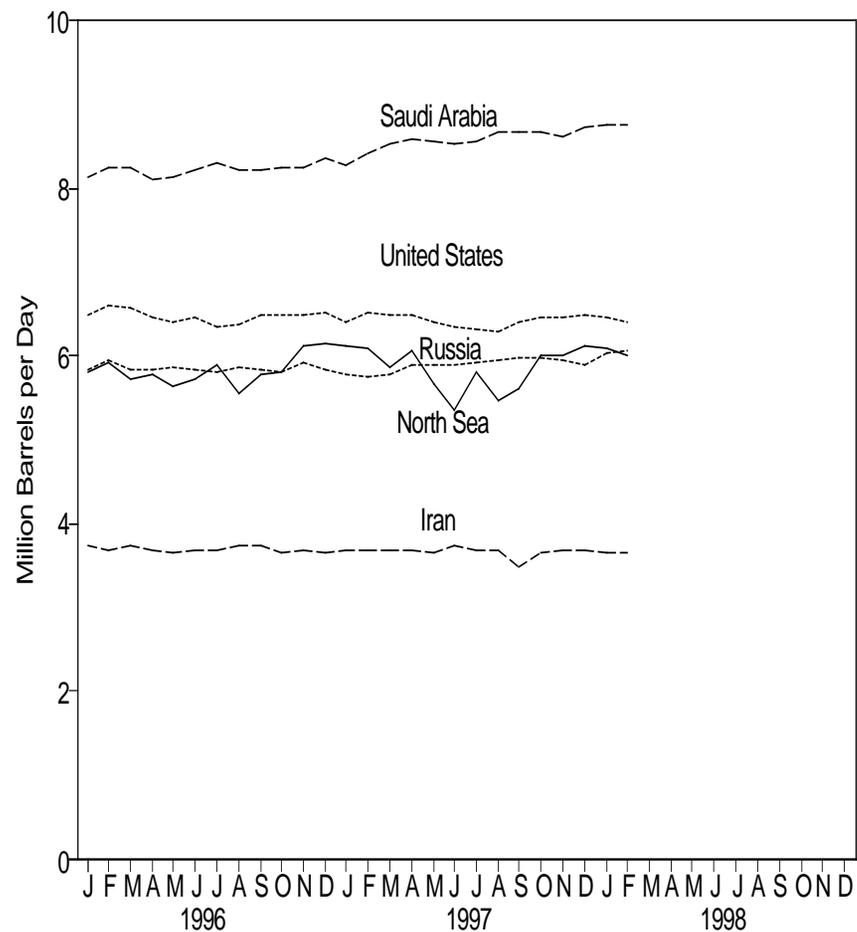
1. Annual and Monthly Oil Data

Figure 1. World Crude Oil Production, Monthly



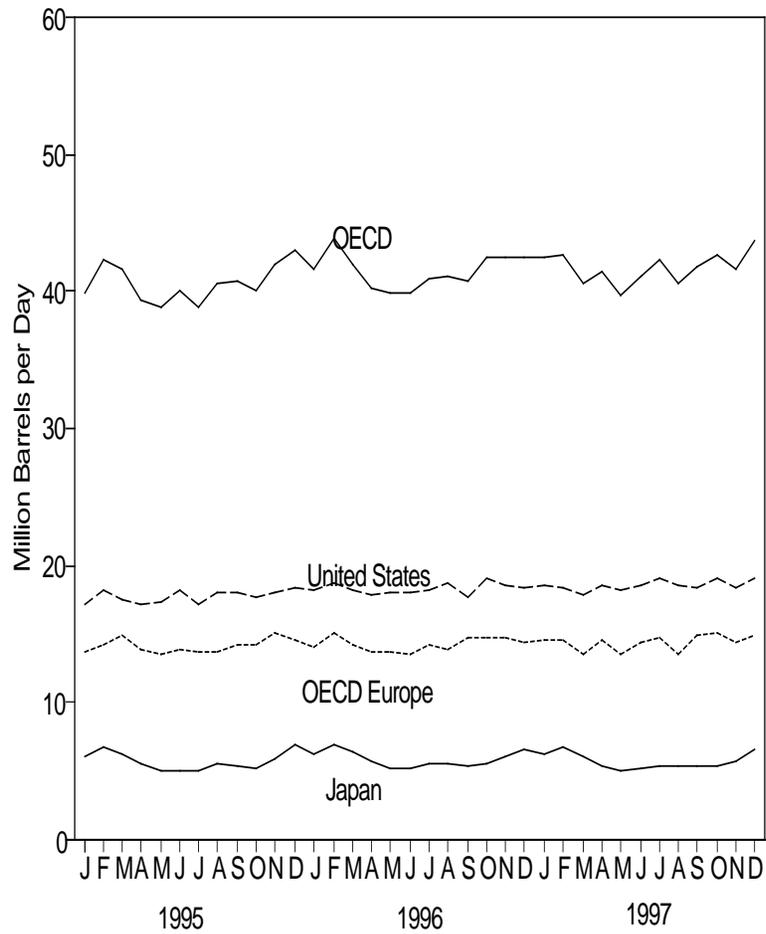
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Figure 2. Leading Crude Oil Producers, Monthly



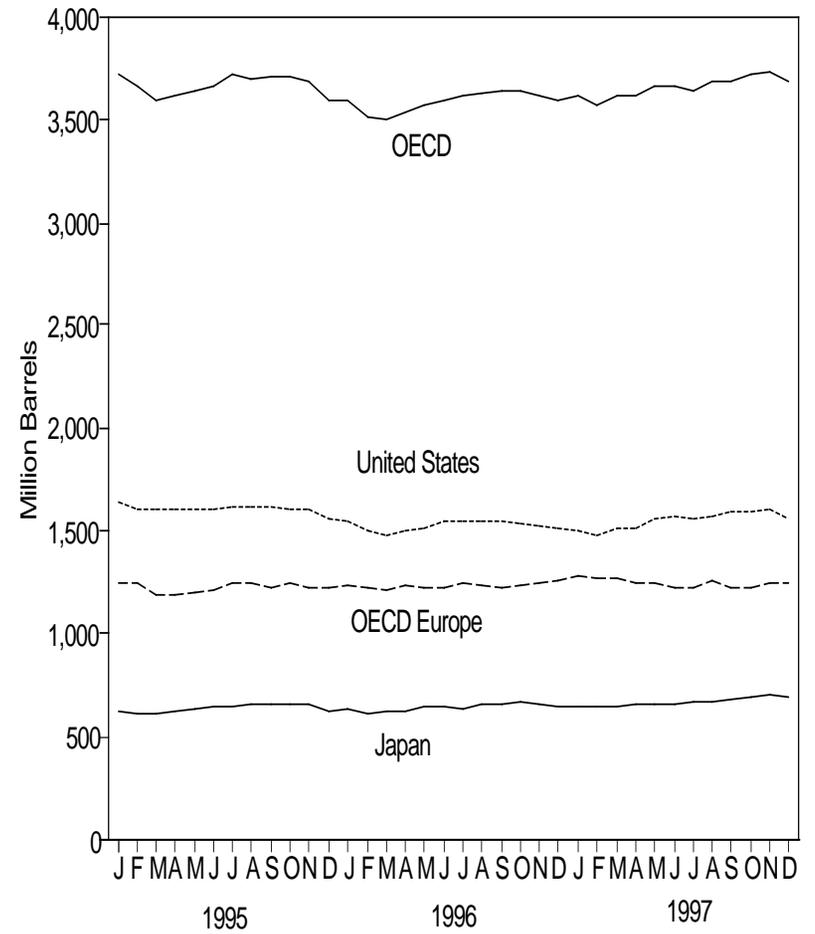
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Figure 3. OECD Oil Consumption, Monthly



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	442	8,231	2,233	2,750	26,004
1996 Average.....	1,242	1,547	3,686	579	2,062	1,401	2,188	510	8,218	2,278	3,053	26,764
1997 January.....	1,260	1,570	3,685	1,085	2,085	1,430	2,280	585	8,265	2,300	3,190	27,735
February.....	1,270	1,590	3,685	1,125	2,077	1,430	2,310	585	8,408	2,330	3,190	28,000
March.....	1,280	1,600	3,685	1,175	2,105	1,440	2,240	585	8,515	2,360	3,200	28,185
April.....	1,280	1,560	3,685	1,275	2,107	1,450	2,310	585	8,568	2,360	3,220	28,400
May.....	1,280	1,580	3,635	1,325	2,027	1,450	2,270	605	8,548	2,210	3,240	28,170
June.....	1,260	1,530	3,735	605	2,050	1,450	2,340	690	8,540	2,325	3,260	27,785
July.....	1,280	1,530	3,685	605	2,070	1,450	2,330	685	8,560	2,325	3,270	27,790
August.....	1,280	1,530	3,685	1,515	2,070	1,450	2,350	685	8,660	2,325	3,390	28,940
September.....	1,280	1,490	3,485	1,735	2,075	1,450	2,300	685	8,665	2,325	3,430	28,920
October.....	1,280	1,490	3,635	1,625	2,075	1,450	2,400	685	8,665	2,325	3,430	29,060
November.....	1,280	1,540	3,685	1,390	2,075	1,450	2,360	705	8,615	2,305	3,460	28,865
December.....	1,290	1,540	3,685	781	2,175	1,450	2,320	705	8,725	2,310	3,490	28,471
1997 Average.....	1,277	1,546	3,664	1,187	2,083	1,446	2,317	649	8,562	2,316	3,315	28,362
1998 January.....	1,290	1,520	3,635	1,261	2,215	1,450	2,208	715	8,765	2,435	3,440	28,934
February.....	1,290	1,520	3,635	1,703	2,210	1,450	2,253	735	8,760	2,435	3,410	29,401
1998 Average.....	1,290	1,520	3,635	1,471	2,213	1,450	2,229	724	8,763	2,435	3,426	29,156

^{1/} Includes about one-half of the production in the Kuwait-Saudi Arabia Neutral Zone from 1980 through July 1990 and beginning in June 1991. Kuwaiti Neutral Zone output was discontinued following Iraq's invasion of Kuwait on August 2, 1990, but was resumed in June 1991. From August 1990 through May 1991, all production in the Neutral Zone was included in the data for Saudi Arabia. In February 1998, Neutral Zone production by both Kuwait and Saudi Arabia totaled about 520 thousand barrels per day.

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

Sources: See end of Section 1.

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

	Norway	United Kingdom	North Sea ₁ /	Angola	Argentina	Australia	Brazil	Canada	China	Colombia	Ecuador
1985 Average.....	788	2,530	3,417	231	460	575	564	1,471	2,505	176	281
1986 Average.....	870	2,539	3,547	282	434	520	572	1,474	2,620	305	293
1987 Average.....	1,022	2,406	3,584	360	428	547	566	1,535	2,690	385	174
1988 Average.....	1,158	2,232	3,540	452	449	538	554	1,616	2,730	378	302
1989 Average.....	1,554	1,802	3,515	455	460	490	596	1,560	2,757	403	279
1990 Average.....	1,704	1,820	3,667	475	483	575	631	1,553	2,774	440	285
1991 Average.....	1,890	1,797	3,811	500	485	545	630	1,548	2,835	419	299
1992 Average.....	2,229	1,825	4,182	526	553	535	626	1,605	2,845	433	321
1993 Average.....	2,350	1,915	4,403	509	594	503	643	1,679	2,890	456	344
1994 Average.....	2,521	2,375	5,058	536	650	536	671	1,746	2,939	450	365
1995 Average.....	2,768	2,489	5,400	646	715	562	695	1,805	2,990	585	392
1996 Average.....	3,104	2,568	5,822	709	756	570	795	1,837	3,131	623	396
1997 January.....	3,268	2,693	6,126	700	820	565	840	1,874	3,210	650	385
February.....	3,263	2,660	6,074	715	820	561	830	1,920	3,240	640	385
March.....	3,063	2,638	5,863	720	830	594	830	1,900	3,215	620	380
April.....	3,388	2,515	6,063	720	840	594	830	1,823	3,230	650	390
May.....	3,194	2,315	5,677	720	840	576	830	1,737	3,275	650	380
June.....	3,025	2,135	5,339	710	815	574	830	1,835	3,220	640	360
July.....	3,194	2,447	5,820	715	820	584	860	1,889	3,190	605	360
August.....	2,890	2,407	5,462	720	840	605	845	1,895	3,190	635	370
September.....	2,927	2,483	5,589	717	845	626	830	1,930	3,195	660	390
October.....	3,209	2,610	6,000	725	850	616	740	1,956	3,195	715	385
November.....	3,192	2,602	5,992	725	850	565	R810	1,970	3,158	745	395
December.....	3,229	2,700	6,116	750	845	590	R920	1,985	3,090	730	390
1997 Average.....	3,153	2,517	5,843	720	835	588	R833	1,893	3,200	662	381
1998 January.....	3,293	2,597	6,082	760	R840	528	R886	1,912	3,240	R730	390
February.....	3,230	2,583	5,989	760	840	542	890	1,944	3,155	740	390
1998 Average.....	3,263	2,590	6,038	760	840	535	888	1,927	3,200	735	390

1/ North Sea includes the United Kingdom Offshore, Norway, Denmark, Netherlands Offshore, and Germany Offshore.
R=Revised data.

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

Sources: See end of Section 1.

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

	Egypt	Gabon	India	Malaysia	Mexico	Oman	Russia	Former U.S.S.R.	Syria	United States	Other ^{1/}	World
1985 Average.....	887	172	620	440	2,745	498	--	11,585	178	8,971	2,124	53,982
1986 Average.....	813	166	630	504	2,435	560	--	11,895	194	8,680	2,166	56,227
1987 Average.....	896	155	609	497	2,548	582	--	12,050	230	8,349	2,120	56,666
1988 Average.....	848	159	635	540	2,512	617	--	12,053	265	8,140	2,235	58,737
1989 Average.....	865	208	700	585	2,520	641	--	11,715	340	7,613	2,249	59,863
1990 Average.....	873	270	660	619	2,553	685	--	10,975	388	7,355	2,253	60,566
1991 Average.....	874	294	615	646	2,680	700	--	9,992	492	7,417	2,274	60,207
1992 Average.....	881	298	561	653	2,669	740	7,632	--	481	7,171	3,228	60,212
1993 Average.....	890	313	534	640	2,673	776	6,730	--	554	6,847	3,280	60,238
1994 Average.....	896	329	590	645	2,685	810	6,135	--	560	6,662	3,382	60,992
1995 Average.....	920	365	703	682	2,618	851	5,995	--	575	6,560	3,410	62,331
1996 Average.....	922	368	651	695	2,855	883	5,850	--	604	6,465	3,509	64,054
1997 January.....	885	370	650	730	2,940	890	5,789	--	565	6,387	R3,715	R65,661
February.....	885	370	650	730	2,970	900	5,729	--	565	6,514	R3,694	R66,040
March.....	890	370	660	730	2,970	900	5,772	--	565	6,470	R3,734	R66,036
April.....	890	370	685	750	2,945	900	5,893	--	560	6,483	R3,756	R66,612
May.....	880	370	685	750	2,990	890	5,902	--	560	6,401	R3,720	R65,834
June.....	870	370	685	740	3,005	900	5,902	--	560	6,341	R3,725	R65,027
July.....	880	370	685	740	3,035	840	5,923	--	560	6,316	R3,679	R65,482
August.....	870	370	685	740	3,080	870	5,945	--	560	6,282	R3,669	R66,408
September...	860	360	675	760	3,105	870	5,958	--	560	6,388	R3,670	R66,729
October.....	860	370	678	760	3,087	880	5,954	--	560	6,435	R3,684	R67,329
November....	860	370	681	760	3,085	890	5,945	--	560	6,450	R3,720	R67,198
December....	860	360	675	760	3,056	910	5,893	--	560	6,475	R3,702	R66,951
1997 Average.....	874	368	675	746	3,023	887	5,884	--	561	6,411	R3,706	R66,276
1998 January.....	860	360	R680	R740	3,085	910	R6,023	--	R550	RE6,438	R3,738	R67,494
February....	860	360	680	730	3,140	910	6,049	--	550	PE6,407	3,722	67,883
1998 Average.....	860	360	680	735	3,111	910	6,035	--	550	PE6,423	3,730	67,678

^{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 Average...	812	1,367	3,651	579	2,062	1,401	2,051	475	8,218	2,198	3,013	25,826
1997 January...	830	1,390	3,650	1,080	2,085	1,430	2,180	550	8,265	2,220	3,150	26,830
February...	840	1,410	3,650	1,120	2,077	1,430	2,210	550	8,408	2,250	3,150	27,095
March	850	1,420	3,650	1,170	2,105	1,440	2,140	550	8,515	2,280	3,160	27,280
April	850	1,380	3,650	1,270	2,107	1,450	2,210	550	8,568	2,280	3,180	27,495
May	850	1,400	3,600	1,320	2,027	1,450	2,170	570	8,548	2,130	3,200	27,265
June	830	1,350	3,700	600	2,050	1,450	2,240	655	8,540	2,245	3,220	26,880
July	850	1,350	3,650	600	2,070	1,450	2,230	650	8,560	2,245	3,230	26,885
August....	850	1,350	3,650	1,510	2,070	1,450	2,250	650	8,660	2,245	3,350	28,035
September.	850	1,310	3,450	1,730	2,075	1,450	2,200	650	8,665	2,245	3,390	28,015
October...	850	1,310	3,600	1,620	2,075	1,450	2,300	650	8,665	2,245	3,390	28,155
November..	850	1,360	3,650	1,385	2,075	1,450	2,260	670	8,615	2,225	3,420	27,960
December..	860	1,360	3,650	776	2,175	1,450	2,220	670	8,725	2,230	3,450	27,566
1997 Average...	847	1,366	3,629	1,182	2,083	1,446	2,217	614	8,562	2,236	3,275	27,457
1998 January...	860	1,340	3,600	1,256	2,215	1,450	2,108	680	8,765	2,355	3,400	28,029
February..	860	1,340	3,600	1,698	2,210	1,450	2,153	700	8,760	2,355	3,370	28,496
1998 Average ..	860	1,340	3,600	1,466	2,213	1,450	2,129	689	8,763	2,355	3,386	28,251

^{1/} Includes about one-half of the production in the Kuwait-Saudi Arabia Neutral Zone from 1980 through July 1990 and beginning in June 1991. Kuwaiti Neutral Zone output was discontinued following Iraq's invasion of Kuwait on August 2, 1990, but was resumed in June 1991. From August 1990 through May 1991, all production in the Neutral Zone was included in the data for Saudi Arabia. In February 1998, Neutral Zone production by both Kuwait and Saudi Arabia totaled about 520 thousand barrels per day.

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

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

Sources: See end of Section 1.

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

	Algeria	Canada	Mexico	Saudi Arabia	Russia	Former USSR	United States ^{1/}	Persian Gulf ^{2/}	OAPEC ^{3/}	OPEC ^{3/}	World
1985 Average.....	120	337	271	375	--	350	1,609	645	808	892	3,938
1986 Average.....	120	328	352	385	--	440	1,551	700	860	969	4,150
1987 Average.....	140	367	338	418	--	430	1,595	721	900	1,006	4,279
1988 Average.....	120	381	370	499	--	450	1,625	808	979	1,077	4,481
1989 Average.....	130	410	384	503	--	425	1,546	851	1,041	1,188	4,502
1990 Average.....	130	426	428	620	--	425	1,559	930	1,107	1,281	4,632
1991 Average.....	140	431	457	680	--	420	1,659	931	1,113	1,299	4,827
1992 Average.....	140	460	454	713	230	--	1,697	1,003	1,185	1,364	4,975
1993 Average.....	145	506	459	704	220	--	1,736	1,040	1,238	1,435	5,181
1994 Average.....	140	529	461	698	200	--	1,727	1,071	1,267	1,465	5,293
1995 Average.....	145	581	447	701	180	--	1,762	1,106	1,301	1,506	5,485
1996 Average.....	150	596	423	697	185	--	1,830	1,082	1,295	1,501	5,582
1997 January.....	145	660	370	700	200	--	1,815	1,085	1,287	1,465	5,595
February.....	145	645	375	710	200	--	1,900	1,095	1,297	1,475	5,660
March.....	145	652	385	720	200	--	1,907	1,105	1,307	1,485	5,694
April.....	145	610	360	725	200	--	1,849	1,110	1,312	1,490	5,566
May.....	145	597	380	725	200	--	1,832	1,110	1,312	1,490	5,508
June.....	145	595	370	720	200	--	1,842	1,105	1,307	1,485	5,487
July.....	145	598	370	720	200	--	1,850	1,105	1,307	1,485	5,524
August.....	145	625	370	730	200	--	1,850	1,115	1,317	1,495	5,548
September....	145	626	425	730	200	--	1,871	1,115	1,317	1,495	5,651
October.....	145	646	409	730	200	--	1,840	1,115	1,317	1,495	5,641
November.....	145	655	405	725	200	--	1,753	1,110	1,312	1,490	5,601
December.....	145	665	418	735	200	--	1,798	1,120	1,322	1,500	5,678
1997 Average.....	145	631	386	723	200	--	1,842	1,108	1,310	1,488	5,596
1998 January.....	145	665	385	735	200	--	RE1,826	1,120	1,322	1,500	R5,659
February.....	145	680	415	735	200	--	E1,763	1,120	1,322	1,500	5,643
1998 Average.....	145	672	399	735	200	--	E1,796	1,120	1,322	1,500	5,651

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

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

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

R=Revised data. E=Estimated.

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

Sources: See end of Section 1.

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

	United States ^{1/}	Persian Gulf ^{2/}	OAPEC ^{3/}	OPEC ^{3/}	World
1985 Average.....	11,192	10,320	11,498	17,151	59,262
1986 Average.....	10,905	12,441	13,653	19,310	61,769
1987 Average.....	10,648	12,869	13,992	19,589	62,427
1988 Average.....	10,473	14,310	15,662	21,465	64,705
1989 Average.....	9,880	15,733	16,658	23,323	65,892
1990 Average.....	9,677	16,249	17,232	24,536	66,754
1991 Average.....	9,883	15,704	16,747	24,625	66,632
1992 Average.....	9,768	17,010	17,871	25,818	66,960
1993 Average.....	9,602	17,792	18,505	26,610	67,361
1994 Average.....	9,413	18,072	18,745	27,031	68,250
1995 Average.....	9,400	18,351	19,069	27,566	69,860
1996 Average.....	9,445	18,486	19,259	28,321	71,764
1997 January.....	9,249	19,162	19,898	29,256	R73,314
February.....	9,519	19,377	20,123	29,531	R73,816
March.....	9,482	19,602	20,373	29,726	R73,845
April.....	9,385	19,762	20,534	29,946	R74,242
May.....	9,321	19,532	20,344	29,716	R73,441
June.....	9,253	19,122	19,799	29,326	R72,595
July.....	9,407	19,107	19,859	29,331	R73,258
August.....	9,346	20,127	20,869	30,491	R74,181
September.....	9,503	20,157	21,089	30,471	R74,635
October.....	9,531	20,197	20,979	30,611	R75,237
November.....	9,458	19,957	20,689	30,411	R75,065
December.....	9,540	19,573	20,315	30,027	R74,907
1997 Average.....	9,416	19,641	20,407	29,905	R74,046
1998 January.....	RE9,462	20,218	R21,000	30,490	R75,362
February.....	E9,358	20,670	21,452	30,957	75,725
1998 Average.....	PE9,413	20,433	21,215	30,712	75,534

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	113	664	83	3,641
	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	R306	107	R1,280	1,503	R106	650	80	R3,619
	February.....	159	156	R309	105	R1,271	1,482	101	642	75	R3,571
	March.....	160	160	311	109	1,272	1,512	105	650	76	3,616
	April.....	159	151	R301	108	R1,248	1,519	108	665	80	R3,620
	May.....	163	150	R311	108	R1,248	1,562	104	664	81	R3,659
	June.....	153	151	298	111	R1,229	1,577	103	662	83	R3,654
	July.....	153	150	R303	106	1,225	1,559	105	670	81	R3,639
	August.....	158	151	R302	108	R1,253	1,570	113	669	80	R3,685
	September....	157	144	291	106	R1,226	1,594	R108	682	77	R3,687
	October.....	152	144	R289	106	R1,230	1,598	R111	693	R83	R3,714
	November.....	163	150	291	106	R1,249	1,599	R111	699	R76	R3,734
	December.....	164	147	298	103	1,250	1,562	114	685	72	3,683

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

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

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

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

R=Revised data.

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

Sources: See end of Section 1.

Table 1.6 Commercial and Government-Owned Oil Stocks in OECD Countries (End of December 1997)
(Million Barrels)

Country	Commercial	Government Owned	Total
Canada.....	114	0	114
United States ₁ /.....	999	563	1,562
United States Territories.....	23	0	23
Japan.....	370	315	685
Australia/New Zealand.....	49	NA	49
Austria.....	20	0	20
Belgium/Luxembourg.....	32	0	32
Denmark.....	23	0	23
Finland.....	25	0	25
France.....	164	0	164
Germany ₂ /.....	243	55	298
Greece.....	27	NA	27
Ireland.....	7	2	9
Italy.....	141	6	147
Netherlands.....	95	0	95
Norway.....	58	0	58
Portugal.....	22	0	22
Spain.....	102	0	102
Sweden.....	31	0	31
Switzerland.....	45	0	45
Turkey.....	51	0	51
United Kingdom.....	103	0	103
OECD Europe.....	1,189	63	1,250
Total OECD.....	2,744	941	3,683

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

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

NA=Not Available.

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

•OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group.

Sources: See end of Section 1.

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

	France	Italy	Germany ^{1/}	United Kingdom	OECD Europe ^{2/}	United States ^{3/}	Canada	Japan	Other ^{4/}	Total OECD
1985 Average....	1,775	1,717	2,338	1,634	11,681	15,726	1,504	4,384	976	34,271
1986 Average....	1,772	1,738	2,498	1,649	12,102	16,281	1,506	4,439	951	35,279
1987 Average....	1,789	1,855	2,424	1,603	12,255	16,665	1,548	4,484	959	35,911
1988 Average....	1,797	1,836	2,422	1,697	12,427	17,283	1,693	4,752	939	37,093
1989 Average....	1,857	1,930	2,280	1,738	12,531	17,325	1,733	4,983	998	37,570
1990 Average....	1,818	1,872	2,382	1,752	12,629	16,988	1,690	5,140	1,027	37,475
1991 Average....	1,935	1,863	2,828	1,801	13,391	16,714	1,622	5,284	1,056	38,067
1992 Average....	1,926	1,937	2,843	1,803	13,605	17,033	1,643	5,446	1,041	38,768
1993 Average....	1,875	1,852	2,900	1,815	13,523	17,237	1,688	5,401	1,118	38,967
1994 Average....	1,833	1,841	2,879	1,837	13,597	17,718	1,727	5,674	1,174	39,890
1995 Average....	1,896	2,048	2,875	1,845	14,120	17,725	1,755	5,711	R1,243	R40,553
1996										
January....	1,879	2,113	2,901	1,762	14,036	18,261	1,805	6,328	R1,241	R41,672
February...	2,183	2,259	3,030	1,919	15,138	18,620	1,874	6,886	R1,242	R43,760
March.....	1,979	2,189	2,860	1,859	14,275	18,301	1,744	6,437	R1,219	R41,976
April.....	1,919	1,961	2,743	1,853	13,676	17,885	1,667	5,748	R1,227	R40,203
May.....	1,810	1,880	2,864	1,846	13,778	17,957	1,715	5,147	R1,167	R39,763
June.....	1,819	1,908	2,830	1,738	13,597	18,107	1,796	5,114	R1,205	R39,819
July.....	1,977	2,158	2,957	1,790	14,245	18,211	1,802	5,502	R1,139	R40,899
August.....	1,841	1,786	3,035	1,795	13,873	18,658	1,880	5,567	R1,190	R41,168
September..	1,929	2,074	3,095	1,877	14,775	17,655	1,763	5,361	R1,071	R40,624
October....	1,989	2,201	2,860	1,910	14,722	19,171	1,809	5,580	R1,198	R42,479
November...	1,880	2,083	2,975	1,966	14,700	18,535	1,941	6,114	R1,109	R42,399
December...	2,021	2,088	2,796	1,836	14,458	18,334	1,771	6,648	R1,278	R42,489
Average....	1,935	2,058	2,911	1,845	14,269	18,309	1,797	5,867	R1,191	R41,432
1997										
January....	2,165	2,037	R2,906	1,828	R14,639	18,560	R1,839	6,291	1,138	R42,465
February...	2,137	2,126	R2,657	1,907	R14,564	18,308	R1,875	6,751	1,140	R42,638
March.....	1,796	1,928	R2,694	1,776	R13,589	17,869	R1,792	6,146	1,141	R40,537
April.....	1,910	1,999	R3,234	1,823	R14,673	18,572	1,745	5,303	1,174	R41,465
May.....	1,707	1,898	R2,776	1,711	R13,491	18,244	1,823	5,076	1,065	R39,699
June.....	R1,872	1,948	R3,138	1,791	14,340	18,563	1,913	5,131	1,090	R41,038
July.....	R2,072	2,029	R3,079	1,766	R14,724	19,065	R1,951	R5,447	1,142	R42,330
August.....	R1,790	1,808	R2,753	1,724	R13,505	18,506	R1,915	R5,400	1,106	R40,431
September..	R1,994	2,181	R3,168	R1,832	R14,960	18,480	R1,874	R5,419	1,158	R41,891
October....	R2,139	2,216	R2,869	R1,848	R15,055	19,121	R1,936	R5,416	R1,152	R42,679
November...	R1,727	R2,184	R2,885	R1,816	R14,388	18,491	R1,833	R5,729	R1,161	R41,601
December...	2,101	2,308	2,762	1,824	14,971	19,177	1,878	6,463	1,164	43,653
Average....	1,950	2,054	2,910	1,803	14,405	18,582	1,865	5,709	1,136	41,697

^{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, March 1998.

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

Oil Stocks

United States: EIA, Petroleum Supply Annual 1996 and Petroleum Supply Monthly, March 1998.

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

Oil Demand

United States: EIA, Petroleum Supply Annual 1996 and Petroleum Supply Monthly, March 1998.

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

2. International Oil Balance Data

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

	1993	1994	1995	1996				1997						
	Average	Annual		Quarter				Annual		Quarter				Annual
				First	Second	Third	Fourth	Average	First	Second	Third	Fourth	Average	
Supply^{1/}														
OECD														
United States ^{2/}	9.60	9.41	9.40	9.40	9.39	9.40	9.59	9.44	9.41	9.32	9.42	9.51	9.42	
Other OECD.....	8.40	9.25	9.80	10.19	10.15	10.20	10.63	10.29	10.67	10.15	10.22	10.78	10.46	
Total OECD.....	18.00	18.66	19.20	19.59	19.53	19.61	20.22	19.74	20.08	19.47	19.63	20.29	19.87	
Non-OECD														
OPEC.....	26.61	27.03	27.57	28.14	28.10	28.34	28.70	28.32	29.50	29.66	30.09	30.35	29.91	
Former USSR.....	7.96	7.27	7.14	7.07	7.05	7.03	7.05	7.05	6.99	7.15	7.20	7.18	7.13	
Other Non-OECD.....	14.80	15.29	15.95	16.47	16.69	16.61	16.84	16.65	17.07	17.15	17.09	17.24	17.14	
Total Non-OECD.....	49.36	49.59	50.66	51.69	51.83	51.98	52.59	52.02	53.57	53.96	54.38	54.77	54.17	
Total World Supply.....	67.36	68.25	69.86	71.29	71.37	71.59	72.81	71.76	73.65	73.43	74.02	75.07	74.05	
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	18.93	18.58	
Other OECD.....	21.73	22.17	22.83	24.05	21.94	22.72	23.77	23.12	23.61	22.27	22.86	23.72	23.11	
Total OECD.....	38.97	39.89	40.55	42.44	39.93	40.90	42.46	41.43	41.85	40.72	41.55	42.66	41.70	
Non-OECD														
China.....	2.96	3.14	3.33	3.48	3.53	3.56	3.62	3.55	3.83	3.88	3.92	3.98	3.90	
Former USSR.....	5.64	4.85	4.62	4.63	4.17	4.17	4.54	4.38	4.77	4.31	4.32	4.75	4.54	
Other Non-OECD.....	19.48	20.43	21.43	22.20	22.11	21.44	22.90	22.16	23.24	23.13	22.41	23.92	23.18	
Total Non-OECD.....	28.08	28.42	29.38	30.31	29.81	29.17	31.06	30.09	31.84	31.33	30.65	32.65	31.61	
Total World Demand.....	67.04	68.31	69.93	72.75	69.74	70.07	73.51	71.52	73.69	72.05	72.19	75.30	73.31	
Stock Draws / Discrepancy														
Net Reported Stock Draws^{4/}														
U. S. Commercial.....	-.12	.00	.25	.86	-.77	-.16	.39	.08	-.09	-.71	-.18	.35	-.16	
U. S. Strategic.....	-.03	-.01	.00	.03	.05	.11	.09	.07	.03	.00	.00	.00	.01	
Other OECD.....	-.05	-.16	.09	.22	-.35	-.43	.06	-.12	-.22	.28	-.17	-.31	-.10	
For Export & Afloat.....	-.04	.03	-.12	.33	-.05	-.05	-.27	-.01	-.28	.27	-.49	.00	-.08	
Commr. Floating Storage...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
Total Reported Draws.....	-.24	-.15	.22	1.44	-1.12	-.54	.27	.01	-.55	-.15	-.84	.04	-.33	
Other Stock Draws and Statistical Discrepancy^{5/}														
	-.08	.21	-.15	.02	-.51	-.97	.43	-.26	.59	-1.23	-.98	.20	-.40	

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

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

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

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

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

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

Sources: See end of Section 2.

Table 2.2 World Oil Supply, 1993-1997
(Million Barrels Per Day)

	1993	1994	1995	1996				1997					
	Average	Annual	Average	Quarter				Annual	Quarter				Annual
				First	Second	Third	Fourth	Average	First	Second	Third	Fourth	Average
OECD													
United States ¹ /...	9.60	9.41	9.40	9.40	9.39	9.40	9.59	9.44	9.41	9.32	9.42	9.51	9.42
Canada.....	2.24	2.33	2.45	2.42	2.45	2.51	2.59	2.49	2.61	2.46	2.58	2.69	2.58
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	6.46	6.24
Other OECD.....	1.48	1.54	1.55	1.55	1.60	1.59	1.59	1.58	1.61	1.63	1.65	1.64	1.63
Total OECD.....	18.00	18.66	19.20	19.59	19.53	19.61	20.22	19.74	20.08	19.47	19.63	20.29	19.87
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	1.28	1.28
Indonesia.....	1.51	1.51	1.50	1.54	1.54	1.54	1.57	1.55	1.59	1.56	1.52	1.52	1.55
Iran.....	3.54	3.62	3.64	3.71	3.67	3.71	3.65	3.69	3.68	3.68	3.62	3.67	3.66
Iraq.....	.51	.55	.56	.55	.55	.55	.66	.58	1.13	1.07	1.28	1.26	1.19
Kuwait.....	1.85	2.02	2.06	2.05	2.06	2.06	2.08	2.06	2.09	2.06	2.07	2.11	2.08
Libya.....	1.36	1.38	1.39	1.40	1.40	1.40	1.40	1.40	1.43	1.45	1.45	1.45	1.45
Nigeria.....	1.96	1.93	1.99	2.18	2.19	2.17	2.22	2.19	2.28	2.31	2.33	2.36	2.32
Qatar.....	.41	.41	.44	.50	.50	.51	.53	.51	.58	.63	.68	.70	.65
Saudi Arabia..	8.20	8.12	8.23	8.20	8.14	8.24	8.29	8.22	8.40	8.55	8.63	8.67	8.56
United Arab Emirates...	2.16	2.19	2.23	2.28	2.27	2.28	2.29	2.28	2.33	2.30	2.32	2.31	2.32
Venezuela.....	2.45	2.59	2.75	2.96	2.99	3.07	3.19	3.05	3.19	3.24	3.36	3.46	3.31
Natural Gas													
Plant Liquids	1.44	1.46	1.51	1.50	1.50	1.50	1.50	1.50	1.47	1.49	1.49	1.50	1.49
Processing Gain.	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06
Total OPEC.....	26.61	27.03	27.57	28.14	28.10	28.34	28.70	28.32	29.50	29.66	30.09	30.35	29.91
Former USSR.....	7.96	7.27	7.14	7.07	7.05	7.03	7.05	7.05	6.99	7.15	7.20	7.18	7.13
China.....	2.89	2.94	2.99	3.09	3.14	3.14	3.16	3.13	3.22	3.24	3.19	3.15	3.20
Mexico.....	3.16	3.17	3.09	3.32	3.38	3.25	3.27	3.31	3.36	3.38	3.49	3.51	3.44
Other Non-OECD....	8.75	9.17	9.86	10.06	10.17	10.21	10.41	10.21	10.49	10.52	10.41	10.58	10.50
Total Non-OECD....	49.36	49.59	50.66	51.69	51.83	51.98	52.59	52.02	53.57	53.96	54.38	54.77	54.17
Total Supply.....	67.36	68.25	69.86	71.29	71.37	71.59	72.81	71.76	73.65	73.43	74.02	75.07	74.05

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

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

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

Sources: See end of Section 2.

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

	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	999	
Strategic.....	587	592	592	589	584	574	566	563	563	563	563	
U. S. Territories.....	25	26	24	22	23	29	25	23	27	27	23	
Canada.....	105	119	109	109	107	113	103	105	103	108	114	
Japan.....	618	645	630	627	640	664	651	650	662	682	685	
OECD Europe												
France.....	158	158	159	156	160	152	158	160	153	157	164	
Germany.....	309	312	301	296	296	295	300	311	298	291	298	
Italy.....	163	164	162	153	158	162	152	160	151	144	147	
United Kingdom.....	118	115	107	106	104	105	108	109	111	106	103	
Other OECD Europe....	475	490	499	501	511	515	537	532	516	527	539	
Total.....	1,221	1,240	1,228	1,212	1,229	1,229	1,256	1,272	1,229	1,226	1,250	
Australia & New Zealand	44	43	47	48	50	54	49	53	56	50	49	
Total OECD.....	3,661	3,726	3,601	3,500	3,597	3,641	3,591	3,616	3,654	3,687	3,683	
Stocks for Export												
and Afloat ^{2/}	945	935	980	950	955	960	985	1,010	985	1,030	1,030	
Commercial Floating ^{3/}	70	70	70	70	70	70	70	70	70	70	70	

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

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

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

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

Sources: See end of Section 2.

Table 2.4 World Oil Demand, 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	18.93	18.58
U. S. Territories.....	.24	.26	.25	.28	.26	.23	.25	.26	.20	.17	.19	.20	.19
Canada.....	1.69	1.73	1.76	1.81	1.73	1.82	1.84	1.80	1.83	1.83	1.91	1.88	1.86
Japan.....	5.40	5.67	5.71	6.54	5.33	5.48	6.11	5.87	6.38	5.17	5.42	5.87	5.71
OECD Europe^{2/}													
France.....	1.88	1.83	1.90	2.01	1.85	1.92	1.96	1.93	2.03	1.83	1.95	1.99	1.95
Italy.....	1.85	1.84	2.05	2.19	1.92	2.01	2.12	2.06	2.03	1.95	2.00	2.24	2.05
United Kingdom.....	1.81	1.84	1.84	1.84	1.81	1.82	1.90	1.85	1.83	1.77	1.77	1.83	1.80
Germany ^{3/}	2.90	2.88	2.88	2.93	2.81	3.03	2.88	2.91	2.76	3.05	3.00	2.84	2.91
Other OECD Europe....	5.08	5.21	5.45	5.50	5.29	5.52	5.76	5.52	5.61	5.56	5.66	5.91	5.69
Total OECD Europe....	13.52	13.60	14.12	14.47	13.68	14.29	14.63	14.27	14.25	14.16	14.39	14.81	14.40
Australia & New Zealand	.88	.92	.99	.96	.94	.90	.94	.93	.94	.94	.95	.96	.94
Total OECD.....	38.97	39.89	40.55	42.44	39.93	40.90	42.46	41.43	41.85	40.72	41.55	42.66	41.70
Non-OECD													
China.....	2.96	3.14	3.33	3.48	3.53	3.56	3.62	3.55	3.83	3.88	3.92	3.98	3.90
Former USSR.....	5.64	4.85	4.62	4.63	4.17	4.17	4.54	4.38	4.77	4.31	4.32	4.75	4.54
Other Non-OECD.....	19.48	20.43	21.43	22.20	22.11	21.44	22.90	22.16	23.24	23.13	22.41	23.92	23.18
Total Non-OECD.....	28.08	28.42	29.38	30.31	29.81	29.17	31.06	30.09	31.84	31.33	30.65	32.65	31.61
Total World Demand.....	67.04	68.31	69.93	72.75	69.74	70.07	73.51	71.52	73.69	72.05	72.19	75.30	73.31

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

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

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

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

Sources: See end of Section 2.

Sources for Section 2 (International Oil Balance Data)

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

United States: Energy Information Administration (EIA), Petroleum Supply Annual 1996 and Petroleum Supply Monthly, March 1998.

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

Oil Stocks

United States: EIA, Petroleum Supply Annual 1996 and Petroleum Supply Monthly, March 1998.

Other OECD Countries: • Organization for Economic Cooperation and Development (OECD), Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Monthly Oil Statistics data base, 1990-1997. 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, March 1998.

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, (1997 Average)
(Million Barrels per Day)

	Total	OECD Europe					OECD Outside Europe				
		Total	United Kingdom	France	Germany ^{1/}	Italy	Other Europe ^{2/}	United States ^{3/}	Canada	Japan	Other ^{4/}
Total Net Imports..	21.966	7.484	-0.821	1.758	2.807	1.795	1.945	8.904	-0.810	5.820	0.568
Imports from OPEC ^{1/}	16.327	6.137	.198	.899	.643	1.353	3.044	4.461	.308	4.696	.725
Imports from Persian Gulf ^{2/}											
Total.....	9.872	3.412	.094	.617	.156	.583	1.962	1.730	.120	4.300	.310
Bahrain.....	.023	.001	.000	.000	.000	.000	.000	-.002	-	.021	.002
Iran.....	1.447	.955	.000	.127	.023	.258	.546	.000	.032	.460	.000
Iraq.....	.413	.291	.000	.078	.001	.033	.179	.088	.014	.015	.004
Kuwait.....	1.065	.252	.031	.017	.012	.000	.191	.253	.000	.554	.006
U.A.E.....	1.518	.007	.000	.000	.001	.000	.005	-.003	.000	1.441	.074
Qatar.....	.378	.000	.000	.000	.000	.000	.000	.004	-	.365	.008
Saudi Arabia.....	5.029	1.906	.062	.393	.118	.291	1.042	1.390	.074	1.443	.215
Imports from OPEC-Africa											
Total.....	3.756	2.503	.074	.282	.441	.745	.961	.958	.082	.036	.176
Algeria.....	1.014	.654	.019	.131	.094	.086	.324	.285	.059	.014	.003
Libya.....	1.243	1.243	.051	.060	.246	.609	.278	.000	.000	-	.000
Nigeria.....	1.499	.606	.004	.091	.101	.050	.360	.673	.024	.023	.174
Imports from OPEC-South America											
Total.....	2.152	.206	.031	.000	.046	.012	.118	1.714	.106	.002	.124
Venezuela.....	2.152	.206	.031	.000	.046	.012	.118	1.714	.106	.002	.124
Imports from OPEC-Far East											
Total.....	.570	.017	.000	.000	.000	.014	.002	.057	.000	.378	.117
Indonesia.....	.570	.017	.000	.000	.000	.014	.002	.057	.000	.378	.117

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

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

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

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

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

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

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

Sources: See end of Section 3.

Table 3.2 Net Oil Imports into OECD Countries, (4th Quarter 1997)
(Million Barrels per Day)

	Total	OECD Europe						OECD Outside Europe			
		Total	United Kingdom	France	Germany ^{1/}	Italy	Other Europe ^{2/}	United States ^{3/}	Canada	Japan	Other ^{4/}
Total Net Imports..	22.204	8.001	-0.974	1.894	2.822	2.013	2.247	8.771	-0.887	5.915	0.404
Imports from OPEC ^{1/}	16.806	6.471	.172	.935	.641	1.460	3.263	4.395	.339	4.884	.718
Imports from Persian Gulf ^{2/}											
Total.....	10.309	3.591	.093	.624	.164	.631	2.079	1.767	.121	4.570	.261
Bahrain.....	.010	.001	.000	.001	.000	.000	.000	-.001	-	.009	.001
Iran.....	1.443	.966	.002	.118	.023	.273	.549	.000	.000	.477	.000
Iraq.....	.534	.278	.000	.062	.003	.061	.153	.212	.032	.000	.012
Kuwait.....	1.050	.225	.031	.000	.013	.000	.180	.253	.000	.568	.005
U.A.E.....	1.531	.002	.002	.000	.000	.000	.000	-.003	.000	1.488	.044
Qatar.....	.456	.002	.000	.002	.000	.000	.000	.010	-	.438	.006
Saudi Arabia.....	5.285	2.118	.058	.442	.125	.297	1.196	1.295	.088	1.591	.193
Imports from OPEC-Africa											
Total.....	3.772	2.675	.058	.311	.432	.801	1.073	.817	.100	.021	.160
Algeria.....	1.020	.691	.018	.089	.113	.077	.394	.249	.079	.000	.002
Libya.....	1.207	1.207	.041	.053	.215	.646	.252	.000	.000	-	.000
Nigeria.....	1.545	.777	.000	.168	.103	.078	.427	.568	.021	.021	.158
Imports from OPEC-South America											
Total.....	2.199	.182	.021	.000	.045	.004	.111	1.743	.118	.000	.155
Venezuela.....	2.199	.182	.021	.000	.045	.004	.111	1.743	.118	.000	.155
Imports from OPEC-Far East											
Total.....	.536	.023	.000	.000	.000	.023	.000	.067	.000	.302	.144
Indonesia.....	.536	.023	.000	.000	.000	.023	.000	.067	.000	.302	.144

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

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

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

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

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

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

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

Sources: See end of Section 3.

Table 3.3 Net Oil Imports into OECD Countries, (3rd Quarter 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..	21.999	7.641	-0.821	1.715	2.857	1.708	2.181	8.990	-0.798	5.661	0.505
Imports from OPEC ^{5/}	16.319	6.313	.233	.965	.658	1.344	3.112	4.563	.346	4.444	.652
Imports from Persian Gulf ^{6/}											
Total.....	9.854	3.610	.110	.712	.176	.606	2.006	1.804	.112	4.008	.320
Bahrain.....	.026	.000	.000	.000	.000	.000	.000	-.003	-	.023	.006
Iran.....	1.474	1.037	.000	.166	.025	.254	.591	.000	.021	.416	.000
Iraq.....	.307	.251	.000	.065	.000	.027	.159	.030	.023	.000	.003
Kuwait.....	1.083	.266	.028	.045	.013	.000	.180	.294	.000	.521	.002
U.A.E.....	1.498	.021	.000	.000	.002	.000	.019	.000	.000	1.404	.073
Qatar.....	.358	.000	.000	.000	.000	.000	.000	.000	-	.349	.009
Saudi Arabia.....	5.108	2.035	.082	.436	.135	.324	1.058	1.484	.068	1.294	.227
Imports from OPEC-Africa											
Total.....	3.754	2.454	.090	.253	.423	.697	.990	1.012	.100	.059	.129
Algeria.....	.983	.625	.018	.118	.081	.078	.330	.270	.067	.021	.000
Libya.....	1.266	1.266	.062	.068	.264	.599	.273	.000	.000	-	.000
Nigeria.....	1.505	.564	.010	.068	.078	.020	.388	.741	.032	.039	.129
Imports from OPEC-South America											
Total.....	2.157	.229	.034	.000	.059	.027	.108	1.688	.134	.000	.106
Venezuela.....	2.157	.229	.034	.000	.059	.027	.108	1.688	.134	.000	.106
Imports from OPEC-Far East											
Total.....	.580	.021	.000	.000	.000	.013	.008	.056	.000	.400	.103
Indonesia.....	.580	.021	.000	.000	.000	.013	.008	.056	.000	.400	.103

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

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

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

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

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

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

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

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

Sources: See end of Section 3.

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

	1997											
	Jan	Feb	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec
Total.....	22.978	21.903	21.376	21.395	21.852	21.444	21.869	21.967	22.198	22.915	22.289	21.412
United States ¹ /....	8.595	8.460	8.780	8.997	9.565	9.402	8.691	9.081	9.204	9.347	8.705	8.260
Canada.....	-.787	-.900	-.705	-.724	-.796	-.763	-.640	-.860	-.896	-.706	-1.008	-.951
OECD Europe ² /.....	8.186	7.207	6.467	6.490	7.232	7.256	7.746	7.597	7.609	8.058	8.093	7.855
Main European Importers												
France.....	1.919	1.892	1.586	1.633	1.766	1.475	1.785	1.695	1.663	1.977	1.865	1.837
Germany ³ /.....	2.942	2.653	2.634	2.747	2.957	2.692	3.132	2.662	2.775	2.705	2.829	2.932
Italy.....	2.036	1.853	1.690	1.359	1.794	1.638	1.666	1.662	1.800	1.882	2.047	2.110
Spain.....	1.239	1.284	1.124	1.253	1.216	1.132	1.443	1.225	1.334	1.331	1.335	1.364
Netherlands.....	.765	.747	.633	.977	.609	.795	.755	.999	.756	.668	.726	.827
European Net Exporters												
Norway.....	-3.157	-3.182	-3.331	-3.642	-3.301	-2.931	-3.353	-2.731	-3.224	-2.810	-3.149	-3.306
United Kingdom....	-.952	-.856	-.810	-.795	-.661	-.385	-.768	-.951	-.741	-.998	-.857	-1.064
Smaller European Importers												
Austria.....	.206	.220	.178	.217	.222	.200	.233	.219	.211	.226	.218	.215
Belgium.....	.727	.510	.661	.569	.556	.521	.523	.629	.547	.589	.627	.645
Denmark.....	-.005	.062	-.034	-.062	.017	-.015	-.026	.014	.021	.017	.009	-.065
Ireland.....	.140	.139	.093	.165	.104	.134	.129	.096	.162	.160	.123	.157
Finland.....	.243	.147	.109	.136	.187	.180	.214	.106	.211	.234	.146	.275
Greece.....	.411	.353	.335	.332	.316	.335	.355	.407	.294	.420	.418	.353
Iceland.....	.018	.010	.020	.007	.022	.012	.020	.020	.023	.023	.014	.006
Luxembourg.....	.039	.046	.043	.040	.038	.036	.039	.037	.037	.042	.039	.045
Portugal.....	.374	.217	.315	.285	.250	.279	.318	.246	.380	.304	.215	.358
Sweden.....	.363	.332	.440	.423	.344	.319	.328	.347	.394	.353	.545	.286
Switzerland.....	.236	.270	.259	.250	.269	.293	.301	.294	.287	.269	.244	.264
Turkey.....	.640	.509	.521	.596	.527	.545	.651	.623	.678	.665	.697	.616
Japan.....	6.196	6.531	6.298	5.995	5.218	4.914	5.588	5.592	5.807	5.758	5.908	6.078
Other OECD.....	.788	.605	.536	.637	.633	.635	.484	.557	.474	.456	.590	.171

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

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

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

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

Sources: See end of Section 3.

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

	1997											
	Jan	Feb	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec
Total.....	16.627	16.231	15.846	16.289	16.024	15.510	15.733	16.354	16.889	17.092	16.675	16.647
United States ¹ /....	4.066	4.109	4.251	4.538	4.886	4.774	4.273	4.691	4.730	4.800	4.277	4.104
Canada.....	.313	.364	.274	.201	.241	.255	.296	.459	.282	.398	.260	.355
OECD Europe ² /.....	6.402	5.992	5.444	5.811	6.005	5.608	6.177	6.150	6.622	6.510	6.565	6.341
Main European Importers												
France.....	.820	1.095	.809	.802	.753	.824	1.020	.797	1.084	1.131	.846	.826
Germany ³ /.....	.609	.616	.658	.668	.683	.581	.656	.682	.636	.649	.647	.627
Italy.....	1.429	1.281	1.270	1.142	1.484	1.202	1.379	1.276	1.379	1.353	1.491	1.535
Spain.....	.960	.773	.630	.707	.703	.693	.764	.722	.864	.820	.794	1.032
Netherlands.....	.744	.620	.598	.948	.787	.699	.735	.946	.711	.778	.800	.803
European Net Exporters												
Norway.....	.009	.007	.000	.000	.000	.000	.000	.000	.000	.007	.008	.005
United Kingdom....	.179	.215	.176	.176	.199	.219	.271	.190	.239	.170	.219	.129
Smaller European Importers												
Austria.....	.000	.000	.000	.000	.000	.000	.096	.047	.034	.000	.000	.000
Belgium.....	.298	.223	.157	.290	.315	.309	.244	.326	.352	.328	.293	.285
Denmark.....	.025	.052	.000	.025	.049	.033	.006	.027	.067	.024	.049	.024
Ireland.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Finland.....	.000	.000	.000	.000	.010	.000	.000	.000	.008	.003	.003	.009
Greece.....	.362	.293	.275	.284	.286	.294	.296	.330	.328	.377	.381	.290
Portugal.....	.197	.168	.220	.142	.180	.179	.207	.159	.291	.135	.164	.208
Sweden.....	.145	.104	.150	.127	.093	.092	.067	.089	.025	.126	.212	.048
Switzerland.....	.103	.109	.097	.063	.087	.093	.094	.101	.107	.111	.098	.093
Turkey.....	.522	.435	.404	.436	.377	.390	.342	.458	.497	.498	.561	.426
Japan.....	5.026	5.137	5.236	4.839	4.175	3.977	4.366	4.417	4.553	4.774	4.798	5.077
Other OECD.....	.820	.629	.642	.900	.717	.896	.621	.636	.702	.611	.774	.770

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

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

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

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

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

Sources: See end of Section 3.

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

	1997											
	Jan	Feb	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec
Total.....	9.986	9.914	9.569	10.003	9.565	8.931	9.395	9.899	10.281	10.618	10.208	10.098
United States ¹ /....	1.548	1.533	1.625	1.858	1.701	1.763	1.712	1.836	1.867	1.876	1.682	1.740
Canada.....	.130	.144	.067	.133	.137	.136	.066	.198	.071	.168	.065	.128
OECD Europe ² /.....	3.322	3.159	2.857	3.223	3.584	3.169	3.316	3.610	3.913	3.830	3.662	3.283
Main European Importers												
France.....	.535	.753	.404	.599	.555	.563	.640	.644	.857	.842	.525	.503
Germany ³ /.....	.088	.094	.131	.189	.153	.192	.176	.187	.164	.205	.155	.131
Italy.....	.550	.589	.507	.458	.646	.526	.618	.571	.629	.645	.603	.645
Spain.....	.340	.301	.355	.388	.413	.287	.318	.358	.425	.411	.336	.373
Netherlands.....	.568	.499	.456	.569	.642	.515	.562	.679	.488	.602	.699	.598
European Net Exporters												
Norway.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
United Kingdom....	.066	.059	.084	.078	.107	.124	.123	.091	.115	.081	.129	.069
Smaller European Importers												
Austria.....	.000	.000	.000	.000	.000	.000	.064	.003	.014	.000	.000	.000
Belgium.....	.250	.191	.119	.233	.285	.250	.228	.292	.331	.309	.278	.265
Denmark.....	.000	.000	.000	.000	.000	.000	.000	.000	.023	.000	.000	.000
Finland.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Greece.....	.317	.250	.232	.251	.254	.243	.264	.287	.292	.332	.334	.264
Portugal.....	.091	.057	.164	.052	.161	.138	.069	.094	.190	.051	.085	.121
Sweden.....	.132	.074	.132	.070	.064	.067	.067	.065	.000	.094	.165	.028
Switzerland.....	.000	.005	.005	.010	.014	.014	.009	.009	.005	.014	.005	.000
Turkey.....	.385	.287	.267	.327	.289	.249	.178	.330	.378	.244	.348	.286
Japan.....	4.616	4.750	4.705	4.499	3.816	3.505	3.909	3.972	4.147	4.515	4.528	4.666
Other OECD.....	.369	.328	.315	.291	.327	.357	.392	.282	.284	.229	.272	.281

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

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

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

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

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

Sources: See end of Section 3.

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

	1997											
	Jan	Feb	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec
Total Net Imports..	8.595	8.460	8.780	8.997	9.565	9.402	8.691	9.081	9.204	9.347	8.705	8.260
Imports from OPEC ^{1/}	4.066	4.109	4.251	4.538	4.886	4.774	4.273	4.691	4.730	4.800	4.277	4.104
Imports from Persian Gulf ^{2/}												
Total.....	1.548	1.533	1.625	1.858	1.701	1.763	1.712	1.836	1.867	1.876	1.682	1.740
Bahrain.....	-.003	.000	-.003	.000	.000	.000	-.003	-.003	-.003	-.003	.000	.000
Iran.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Iraq.....	.000	.000	.035	.069	.102	.115	.088	.000	.000	.177	.220	.240
Kuwait.....	.209	.172	.315	.204	.128	.361	.331	.229	.322	.349	.220	.188
U.A.E.....	.000	.000	-.014	-.003	-.003	-.016	.011	-.009	-.003	-.002	-.003	-.003
Qatar.....	.000	.000	.000	.015	.000	.000	.000	.000	.000	.016	.000	.015
Saudi Arabia.....	1.342	1.361	1.292	1.573	1.474	1.303	1.285	1.619	1.551	1.339	1.245	1.300
Imports from OPEC-Africa												
Total.....	.813	.943	.867	1.025	1.249	1.117	.871	1.143	1.022	.949	.891	.612
Algeria.....	.282	.319	.309	.320	.290	.349	.291	.261	.259	.272	.267	.208
Libya.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Nigeria.....	.531	.624	.558	.705	.959	.768	.580	.882	.763	.677	.624	.404
Imports from OPEC-South America												
Total.....	1.629	1.584	1.738	1.615	1.850	1.840	1.614	1.695	1.756	1.930	1.628	1.668
Venezuela.....	1.629	1.584	1.738	1.615	1.850	1.840	1.614	1.695	1.756	1.930	1.628	1.668
Imports from OPEC-Far East												
Total.....	.073	.049	.018	.040	.086	.054	.073	.014	.082	.042	.076	.084
Indonesia.....	.073	.049	.018	.040	.086	.054	.073	.014	.082	.042	.076	.084

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

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

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

Sources: See end of Section 3.

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

	1997											
	Jan	Feb	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec
Total Net Imports..	6.196	6.531	6.298	5.995	5.218	4.914	5.588	5.592	5.807	5.758	5.908	6.078
Imports from OPEC ^{1/}	5.026	5.137	5.236	4.839	4.175	3.977	4.366	4.417	4.553	4.774	4.798	5.077
Imports from Persian Gulf ^{2/}												
Total.....	4.616	4.750	4.705	4.499	3.816	3.505	3.909	3.972	4.147	4.515	4.528	4.666
Bahrain.....	.037	.009	.029	.045	.031	.008	.017	.015	.037	.008	.001	.018
Iran.....	.465	.742	.669	.316	.409	.253	.466	.319	.464	.401	.505	.525
Iraq.....	.000	.067	.000	.061	.059	.000	.000	.000	.000	.000	.000	.000
Kuwait.....	.642	.571	.548	.640	.464	.523	.473	.515	.578	.531	.551	.621
U.A.E.....	1.706	1.449	1.488	1.570	1.220	1.180	1.366	1.420	1.428	1.390	1.605	1.474
Qatar.....	.239	.402	.397	.349	.350	.291	.319	.410	.316	.431	.410	.471
Saudi Arabia.....	1.527	1.510	1.574	1.516	1.284	1.251	1.267	1.294	1.323	1.755	1.455	1.558
Imports from OPEC-Africa												
Total.....	.033	.000	.000	.016	.046	.100	.073	.032	.074	.000	.000	.062
Algeria.....	.000	.000	.000	.016	.046	.041	.013	.032	.018	.000	.000	.000
Nigeria.....	.033	.000	.000	.000	.000	.059	.060	.000	.057	.000	.000	.062
Imports from OPEC-South America												
Total.....	.019	.000	.011	.000	.000	.000	.000	.000	.000	.000	.000	.000
Venezuela.....	.019	.000	.011	.000	.000	.000	.000	.000	.000	.000	.000	.000
Imports from OPEC-Far East												
Total.....	.395	.397	.549	.369	.344	.380	.401	.428	.369	.267	.271	.367
Indonesia.....	.395	.397	.549	.369	.344	.380	.401	.428	.369	.267	.271	.367

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

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

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

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

Sources: See end of Section 3.

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

	1997											
	Jan	Feb	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec
Total Net Imports..	8.186	7.207	6.467	6.490	7.232	7.256	7.746	7.597	7.609	8.058	8.093	7.855
Imports from OPEC ^{1/}	6.402	5.992	5.444	5.811	6.005	5.608	6.177	6.150	6.622	6.510	6.565	6.341
Imports from Persian Gulf ^{2/}												
Total.....	3.322	3.159	2.857	3.223	3.584	3.169	3.316	3.610	3.913	3.830	3.662	3.283
Bahrain.....	.003	.002	.000	.000	.000	.000	.000	.001	.000	.000	.001	.001
Iran.....	.866	.754	.813	.875	1.157	.964	.913	1.169	1.028	1.043	.966	.889
Iraq.....	.308	.342	.344	.404	.471	.036	.000	.186	.578	.458	.186	.188
Kuwait.....	.309	.322	.222	.217	.248	.240	.248	.210	.343	.263	.226	.184
U.A.E.....	.001	.000	.002	.003	.002	.002	.056	.004	.001	.005	.000	.000
Qatar.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.005
Saudi Arabia.....	1.835	1.738	1.475	1.723	1.705	1.927	2.098	2.041	1.963	2.061	2.283	2.015
Imports from OPEC-Africa												
Total.....	2.919	2.612	2.455	2.264	2.187	2.204	2.640	2.275	2.447	2.510	2.689	2.827
Algeria.....	.811	.657	.639	.694	.551	.542	.660	.653	.559	.643	.709	.721
Libya.....	1.303	1.179	1.271	1.109	1.295	1.333	1.296	1.264	1.236	1.212	1.212	1.197
Nigeria.....	.806	.776	.545	.461	.341	.328	.684	.358	.652	.655	.767	.908
Imports from OPEC-South America												
Total.....	.147	.204	.132	.324	.208	.229	.210	.250	.226	.166	.183	.198
Venezuela.....	.147	.204	.132	.324	.208	.229	.210	.250	.226	.166	.183	.198
Imports from OPEC-Far East												
Total.....	.017	.019	.000	.000	.026	.006	.011	.017	.037	.003	.032	.034
Indonesia.....	.017	.019	.000	.000	.026	.006	.011	.017	.037	.003	.032	.034

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

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

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

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

•See Section 4 for annual data.

Sources: See end of Section 3.

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

	1997											
	Jan	Feb	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec
Total Net Imports..	1.919	1.892	1.586	1.633	1.766	1.475	1.785	1.695	1.663	1.977	1.865	1.837
Imports from OPEC ^{1/}	.820	1.095	.809	.802	.753	.824	1.020	.797	1.084	1.131	.846	.826
Imports from Persian Gulf ^{2/}												
Total.....	.535	.753	.404	.599	.555	.563	.640	.644	.857	.842	.525	.503
Bahrain.....	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.001	.001
Iran.....	.061	.122	.107	.153	.102	.131	.127	.206	.166	.172	.104	.079
Iraq.....	.065	.159	.102	.082	.154	.002	.000	.064	.133	.149	.033	.002
Kuwait.....	.002	.070	.002	.003	.000	.000	.063	.003	.069	.000	.000	.000
U.A.E.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Qatar.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.005
Saudi Arabia.....	.407	.401	.194	.361	.299	.429	.450	.370	.489	.521	.388	.416
Imports from OPEC-Africa												
Total.....	.285	.342	.405	.204	.196	.261	.379	.153	.227	.288	.321	.323
Algeria.....	.177	.216	.187	.124	.115	.138	.195	.091	.065	.060	.116	.092
Libya.....	.014	.044	.063	.080	.051	.102	.110	.027	.066	.058	.060	.043
Nigeria.....	.094	.083	.154	.000	.030	.022	.074	.035	.096	.170	.146	.189
Imports from OPEC-South America												
Total.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Venezuela.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Imports from OPEC-Far East												
Total.....	.000	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000	.001
Indonesia.....	.000	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000	.001

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

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

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

Sources: See end of Section 3.

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

	1997											
	Jan	Feb	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec
Total Net Imports..	2.942	2.653	2.634	2.747	2.957	2.692	3.132	2.662	2.775	2.705	2.829	2.932
Imports from OPEC ^{1/}	.609	.616	.658	.668	.683	.581	.656	.682	.636	.649	.647	.627
Imports from Persian Gulf ^{2/}												
Total.....	.088	.094	.131	.189	.153	.192	.176	.187	.164	.205	.155	.131
Bahrain.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Iran.....	.012	.011	.028	.029	.016	.037	.022	.037	.017	.041	.019	.010
Iraq.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.009	.000
Kuwait.....	.009	.009	.010	.020	.009	.013	.014	.009	.016	.012	.014	.013
U.A.E.....	.000	.000	.000	.002	.002	.002	.005	.000	.000	.000	.000	.000
Qatar.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Saudi Arabia.....	.068	.074	.094	.137	.125	.140	.135	.141	.130	.152	.113	.108
Imports from OPEC-Africa												
Total.....	.507	.503	.483	.416	.470	.352	.378	.459	.431	.401	.449	.446
Algeria.....	.112	.098	.106	.108	.054	.070	.061	.092	.091	.106	.087	.146
Libya.....	.276	.216	.256	.182	.318	.261	.252	.273	.267	.215	.261	.172
Nigeria.....	.118	.189	.121	.126	.097	.021	.066	.095	.073	.080	.102	.128
Imports from OPEC-South America												
Total.....	.014	.018	.043	.064	.059	.037	.101	.036	.041	.043	.043	.051
Venezuela.....	.014	.018	.043	.064	.059	.037	.101	.036	.041	.043	.043	.051
Imports from OPEC-Far East												
Total.....	.000	.000	.000	.000	.001	.000	.001	.000	.000	.000	.000	.000
Indonesia.....	.000	.000	.000	.000	.001	.000	.001	.000	.000	.000	.000	.000

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

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

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

Sources: See end of Section 3.

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

	1997											
	Jan	Feb	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec
Total Net Imports..	2.036	1.853	1.690	1.359	1.794	1.638	1.666	1.662	1.800	1.882	2.047	2.110
Imports from OPEC ^{1/}	1.429	1.281	1.270	1.142	1.484	1.202	1.379	1.276	1.379	1.353	1.491	1.535
Imports from Persian Gulf ^{2/}												
Total.....	.550	.589	.507	.458	.646	.526	.618	.571	.629	.645	.603	.645
Bahrain.....	.003	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Iran.....	.241	.249	.250	.147	.365	.256	.232	.259	.272	.261	.242	.316
Iraq.....	.048	.000	.032	.000	.049	.000	.000	.021	.062	.095	.022	.063
Kuwait.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000
U.A.E.....	.000	.000	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000
Qatar.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Saudi Arabia.....	.258	.338	.223	.311	.232	.270	.386	.291	.295	.288	.338	.266
Imports from OPEC-Africa												
Total.....	.848	.672	.756	.669	.814	.669	.699	.670	.723	.705	.850	.851
Algeria.....	.110	.084	.073	.141	.101	.059	.058	.073	.104	.056	.128	.049
Libya.....	.632	.524	.617	.492	.684	.610	.612	.597	.588	.600	.611	.725
Nigeria.....	.105	.065	.066	.036	.029	.000	.030	.000	.031	.048	.111	.077
Imports from OPEC-South America												
Total.....	.017	.004	.007	.016	.000	.000	.051	.018	.013	.000	.006	.007
Venezuela.....	.017	.004	.007	.016	.000	.000	.051	.018	.013	.000	.006	.007
Imports from OPEC-Far East												
Total.....	.017	.018	.000	.000	.024	.006	.010	.017	.013	.003	.032	.032
Indonesia.....	.017	.018	.000	.000	.024	.006	.010	.017	.013	.003	.032	.032

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

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

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

Sources: See end of Section 3.

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

	1997											
	Jan	Feb	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec
Total.....	0.308	0.409	0.380	0.537	0.636	0.155	0.097	0.186	0.649	0.673	0.478	0.450
United States ¹ /.....	.000	.000	.035	.069	.102	.115	.088	.000	.000	.177	.220	.240
Canada.....	.000	.000	.000	.000	.000	.000	.000	.000	.071	.033	.065	.000
OECD Europe ² /.....	.308	.342	.344	.404	.471	.036	.000	.186	.578	.458	.186	.188
Main European Importers												
France.....	.065	.159	.102	.082	.154	.002	.000	.064	.133	.149	.033	.002
Germany ³ /.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.009	.000
Italy.....	.048	.000	.032	.000	.049	.000	.000	.021	.062	.095	.022	.063
Spain.....	.094	.021	.097	.131	.066	.033	.000	.066	.135	.150	.030	.058
Netherlands.....	.006	.000	.000	.094	.031	.000	.000	.017	.000	.063	.072	.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.....	.020	.029	.008	.014	.053	.000	.000	.000	.000	.000	.000	.000
Denmark.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Greece.....	.011	.000	.000	.000	.000	.000	.000	.000	.032	.000	.020	.028
Portugal.....	.000	.000	.034	.000	.031	.000	.000	.000	.063	.000	.000	.000
Sweden.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Switzerland.....	.000	.000	.000	.010	.005	.000	.000	.000	.000	.000	.000	.000
Turkey.....	.064	.133	.071	.074	.081	.000	.000	.017	.152	.000	.000	.037
Japan.....	.000	.067	.000	.061	.059	.000	.000	.000	.000	.000	.000	.000
Other OECD.....	.000	.000	.001	.003	.004	.004	.009	.000	.000	.006	.007	.022

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

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

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

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

Sources: See end of Section 3.

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

	1997											
	Jan	Feb	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec
Total.....	1.170	1.075	1.096	1.064	0.853	1.131	1.054	0.955	1.244	1.146	0.998	1.004
United States ^{1/}.....	.209	.172	.315	.204	.128	.361	.331	.229	.322	.349	.220	.188
Canada.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
OECD Europe ^{2/}.....	.309	.322	.222	.217	.248	.240	.248	.210	.343	.263	.226	.184
Main European Importers												
France.....	.002	.070	.002	.003	.000	.000	.063	.003	.069	.000	.000	.000
Germany ^{3/}.....	.009	.009	.010	.020	.009	.013	.014	.009	.016	.012	.014	.013
Italy.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000
Spain.....	.000	.000	.003	.000	.000	.000	.000	.000	.000	.000	.000	.000
Netherlands.....	.255	.148	.158	.125	.205	.184	.117	.156	.205	.206	.160	.128
European Net Exporters												
Norway.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
United Kingdom....	.028	.059	.029	.029	.027	.028	.028	.027	.029	.029	.036	.028
Smaller European Importers												
Austria.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Belgium.....	.000	.015	.008	.024	.007	.000	.000	.000	.000	.000	.000	.000
Denmark.....	.000	.000	.000	.000	.000	.000	.000	.000	.023	.000	.000	.000
Greece.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Portugal.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Sweden.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Switzerland.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Turkey.....	.015	.020	.012	.016	.000	.016	.025	.014	.001	.016	.016	.015
Japan.....	.642	.571	.548	.640	.464	.523	.473	.515	.578	.531	.551	.621
Other OECD.....	.010	.011	.011	.002	.013	.006	.002	.002	.002	.003	.002	.011

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

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

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

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

Sources: See end of Section 3.

Sources for Section 3 (International Oil Imports)

Oil Imports

United States: • Energy Information Administration (EIA), Petroleum Supply Annual 1996 and Petroleum Supply Monthly, March 1998. Other OECD Countries: • Organization for Economic Cooperation and Development (OECD), Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Monthly Oil Statistics data base, 1991-1997.

4. Historical Oil Data Series

1970-1997

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

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

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

P=Preliminary.

Notes: •OPEC=Organization of Petroleum Exporting Countries.

Sources: See end of Section 4.

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

	Norway	United Kingdom	North Sea ^{1/}	Angola	Argentina	Australia	Brazil	Canada	China	Colombia	Ecuador
1970 Average.....	0	2	0	112	393	178	167	1,263	600	219	4
1971 Average.....	6	2	6	93	423	309	174	1,348	780	214	4
1972 Average.....	33	2	35	140	433	327	167	1,532	900	196	78
1973 Average.....	32	2	36	162	420	369	169	1,798	1,090	184	209
1974 Average.....	35	2	38	169	414	388	176	1,551	1,315	168	177
1975 Average.....	189	12	202	165	395	409	177	1,430	1,490	157	161
1976 Average.....	279	245	525	108	398	426	167	1,314	1,670	146	188
1977 Average.....	280	768	1,055	194	431	431	161	1,321	1,874	138	183
1978 Average.....	356	1,082	1,446	131	453	432	160	1,316	2,082	131	202
1979 Average.....	403	1,568	1,976	147	473	441	166	1,500	2,122	124	214
1980 Average.....	528	1,622	2,151	150	491	380	182	1,435	2,114	126	204
1981 Average.....	501	1,811	2,322	130	496	394	213	1,285	2,012	125	211
1982 Average.....	520	2,065	2,617	122	491	370	260	1,271	2,045	141	211
1983 Average.....	614	2,291	2,965	177	491	416	339	1,356	2,120	152	237
1984 Average.....	697	2,480	3,250	208	478	492	475	1,438	2,296	168	258
1985 Average.....	788	2,530	3,417	231	460	575	564	1,471	2,505	176	281
1986 Average.....	870	2,539	3,547	282	434	520	572	1,474	2,620	305	293
1987 Average.....	1,022	2,406	3,584	360	428	547	566	1,535	2,690	385	174
1988 Average.....	1,158	2,232	3,540	452	449	538	554	1,616	2,730	378	302
1989 Average.....	1,554	1,802	3,515	455	460	490	596	1,560	2,757	403	279
1990 Average.....	1,704	1,820	3,667	475	483	575	631	1,553	2,774	440	285
1991 Average.....	1,890	1,797	3,811	500	485	545	630	1,548	2,835	419	299
1992 Average.....	2,229	1,825	4,182	526	553	535	626	1,605	2,845	433	321
1993 Average.....	2,350	1,915	4,403	509	594	503	643	1,679	2,890	456	344
1994 Average.....	2,521	2,375	5,058	536	650	536	671	1,746	2,939	450	365
1995 Average.....	2,768	2,489	5,400	646	715	562	695	1,805	2,990	585	392
1996 Average.....	3,104	2,568	5,822	709	756	570	795	1,837	3,131	623	396
1997 Average P.....	3,153	2,517	5,843	720	835	588	R833	1,893	3,200	662	381

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

P=Preliminary. R=Revised.

Sources: See end of Section 4.

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

	Egypt	Gabon	India	Malaysia	Mexico	Oman	Russia	Former U.S.S.R.	Syria	United States	Other _{1/}	World
1970 Average.....	326	109	144	18	487	332	--	6,985	80	9,637	1,529	45,886
1971 Average.....	293	115	143	69	486	294	--	7,475	100	9,463	1,518	48,518
1972 Average.....	231	125	156	93	505	282	--	7,890	124	9,441	1,592	51,138
1973 Average.....	165	150	147	91	465	293	--	8,324	105	9,208	1,667	55,679
1974 Average.....	150	202	156	81	571	290	--	8,912	124	8,774	1,711	55,716
1975 Average.....	235	223	165	98	705	343	--	9,523	170	8,375	1,636	52,828
1976 Average.....	330	223	175	165	831	366	--	10,060	175	8,132	1,620	57,344
1977 Average.....	415	222	199	184	981	341	--	10,603	188	8,245	1,655	59,707
1978 Average.....	485	209	226	217	1,209	315	--	11,105	170	8,707	1,706	60,158
1979 Average.....	525	203	245	283	1,461	295	--	11,384	166	8,552	1,821	62,674
1980 Average.....	595	175	182	283	1,936	282	--	11,706	164	8,597	1,842	59,600
1981 Average.....	598	151	325	264	2,313	319	--	11,850	166	8,572	1,859	56,076
1982 Average.....	670	156	390	306	2,748	324	--	11,912	160	8,649	1,892	53,481
1983 Average.....	727	157	480	365	2,689	375	--	11,972	167	8,688	1,946	53,256
1984 Average.....	822	157	519	440	2,780	414	--	11,861	170	8,879	2,015	54,489
1985 Average.....	887	172	620	440	2,745	498	--	11,585	178	8,971	2,124	53,982
1986 Average.....	813	166	630	504	2,435	560	--	11,895	194	8,680	2,166	56,227
1987 Average.....	896	155	609	497	2,548	582	--	12,050	230	8,349	2,120	56,666
1988 Average.....	848	159	635	540	2,512	617	--	12,053	265	8,140	2,235	58,737
1989 Average.....	865	208	700	585	2,520	641	--	11,715	340	7,613	2,249	59,863
1990 Average.....	873	270	660	619	2,553	685	--	10,975	388	7,355	2,253	60,566
1991 Average.....	874	294	615	646	2,680	700	--	9,992	492	7,417	2,274	60,207
1992 Average.....	881	298	561	653	2,669	740	7,632	--	481	7,171	3,228	60,212
1993 Average.....	890	313	534	640	2,673	776	6,730	--	554	6,847	3,280	60,238
1994 Average.....	896	329	590	645	2,685	810	6,135	--	560	6,662	3,382	60,992
1995 Average.....	920	365	703	682	2,618	851	5,995	--	575	6,560	3,410	62,331
1996 Average.....	922	368	651	695	2,855	883	5,850	--	604	6,465	3,509	64,054
1997 Average P....	874	368	675	746	3,023	887	5,884	--	561	6,411	R3,706	R66,276

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

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

Sources: See end of Section 4.

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

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

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

P=Preliminary.

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

Sources: See end of Section 4.

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

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

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

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

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

P=Preliminary.

Sources: See end of Section 4.

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

	United States ^{1/}	Persian Gulf ^{2/}	OAPEC ^{3/}	OPEC ^{3/}	World
1970 Average.....	11,673	13,541	14,571	23,567	48,986
1971 Average.....	11,554	15,940	15,427	25,514	51,766
1972 Average.....	11,601	17,734	16,451	27,228	54,574
1973 Average.....	11,428	20,895	18,656	31,015	59,300
1974 Average.....	10,978	21,550	18,399	30,762	59,391
1975 Average.....	10,505	19,223	16,831	27,218	56,511
1976 Average.....	10,251	21,847	19,563	30,841	61,121
1977 Average.....	10,437	22,098	20,372	31,443	63,665
1978 Average.....	10,820	21,067	19,819	30,120	64,225
1979 Average.....	10,707	21,569	22,575	31,300	66,973
1980 Average.....	10,809	18,541	20,715	27,419	64,152
1981 Average.....	10,739	15,894	17,619	23,393	60,761
1982 Average.....	10,783	12,815	13,786	19,702	58,225
1983 Average.....	10,788	11,676	12,416	18,352	58,054
1984 Average.....	11,107	11,433	12,619	18,389	59,644
1985 Average.....	11,192	10,320	11,498	17,151	59,262
1986 Average.....	10,905	12,441	13,653	19,310	61,769
1987 Average.....	10,648	12,869	13,992	19,589	62,427
1988 Average.....	10,473	14,310	15,662	21,465	64,705
1989 Average.....	9,880	15,733	16,658	23,323	65,892
1990 Average.....	9,677	16,249	17,232	24,536	66,754
1991 Average.....	9,883	15,704	16,747	24,625	66,632
1992 Average.....	9,768	17,010	17,871	25,818	66,960
1993 Average.....	9,602	17,792	18,505	26,610	67,361
1994 Average.....	9,413	18,072	18,745	27,031	68,250
1995 Average.....	9,400	18,351	19,069	27,566	69,860
1996 Average.....	9,445	18,486	19,259	28,321	71,764
1997 Average P.....	9,416	19,641	20,407	29,905	R74,046

^{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. R=Revised data.

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

Sources: See end of Section 4.

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

	France	Italy	Germany ^{1/}	United Kingdom	OECD Europe ^{2/}	United States ^{3/}	Canada	Japan	Other ^{4/}	Total OECD
1973 December.....	201	152	181	156	1,070	1,008	140	303	67	2,588
1974 December.....	249	167	213	191	1,227	1,074	145	370	64	2,880
1975 December.....	225	143	187	165	1,154	1,133	174	375	67	2,903
1976 December.....	234	143	208	165	1,205	1,112	153	380	68	2,918
1977 December.....	239	161	225	148	1,268	1,312	167	409	68	3,224
1978 December.....	201	154	238	157	1,219	1,278	144	413	68	3,122
1979 December.....	226	163	272	169	1,353	1,341	150	460	75	3,379
1980 December.....	243	170	319	168	1,464	1,392	164	495	72	3,587
1981 December.....	214	167	297	143	1,337	1,484	161	482	67	3,531
1982 December.....	193	179	272	125	1,258	1,430	136	484	68	3,376
1983 December.....	153	149	249	118	1,142	1,454	121	470	68	3,255
1984 December.....	152	159	239	112	1,130	1,556	128	479	69	3,362
1985 December.....	139	157	233	123	1,092	1,519	113	494	66	3,284
1986 December.....	127	155	252	124	1,133	1,593	111	509	72	3,418
1987 December.....	127	169	259	121	1,130	1,607	126	540	71	3,474
1988 December.....	140	155	266	112	1,118	1,597	116	538	71	3,440
1989 December.....	138	164	271	118	1,133	1,581	114	577	71	3,476
1990 December.....	140	172	265	112	1,163	1,621	121	590	73	3,568
1991 December.....	153	160	288	119	1,181	1,617	119	606	65	3,588
1992 December.....	146	174	310	113	1,219	1,592	107	603	67	3,588
1993 December.....	158	163	309	118	1,221	1,647	105	618	69	3,661
1994 December	158	164	312	115	1,240	1,653	119	645	69	3,726
1995 December	159	162	301	107	1,228	1,563	109	630	71	3,601
1996 December	158	152	300	108	1,256	1,507	103	651	74	3,591
1997 December P....	164	147	298	103	1,250	1,562	114	685	72	3,683

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

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

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

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

P=Preliminary.

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

Sources: See end of Section 4.

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

	France	Italy	Germany ^{1/}	United Kingdom	OECD Europe ^{2/}	United States ^{3/}	Canada	Japan	Other ^{4/}	OECD Excluding East Germany	East Germany	OECD Including East Germany	World Total
1970 Average...	1,937	1,710	2,607	2,096	12,404	14,697	1,516	3,817	836	33,270	223	33,493	46,808
1971 Average...	2,115	1,838	2,702	2,141	13,005	15,213	1,565	4,142	831	34,755	238	34,993	49,416
1972 Average...	2,322	1,947	2,859	2,284	13,934	16,367	1,664	4,363	948	37,275	270	37,545	53,094
1973 Average...	2,601	2,068	3,055	2,341	14,925	17,308	1,729	4,949	988	39,900	282	40,182	57,237
1974 Average...	2,447	2,004	2,748	2,210	13,988	16,653	1,779	4,864	1,095	38,379	307	38,686	56,677
1975 Average...	2,252	1,855	2,650	1,911	13,217	16,322	1,779	4,621	1,041	36,980	307	37,287	56,198
1976 Average...	2,420	1,971	2,877	1,892	14,124	17,461	1,818	4,837	1,119	39,358	329	39,687	59,673
1977 Average...	2,294	1,897	2,865	1,905	13,916	18,431	1,850	4,880	1,160	40,237	347	40,584	61,826
1978 Average...	2,408	1,952	2,927	1,938	14,290	18,847	1,902	4,945	1,204	41,187	363	41,550	64,158
1979 Average...	2,463	2,039	3,003	1,971	14,667	18,513	1,971	5,050	1,178	41,379	369	41,748	65,220
1980 Average...	2,256	1,934	2,707	1,725	13,634	17,056	1,873	4,960	1,072	38,595	375	38,970	63,067
1981 Average...	2,023	1,874	2,449	1,590	12,515	16,058	1,768	4,848	1,080	36,269	355	36,624	60,903
1982 Average...	1,880	1,781	2,372	1,590	12,053	15,296	1,578	4,582	1,008	34,517	371	34,888	59,503
1983 Average...	1,835	1,750	2,324	1,531	11,765	15,231	1,448	4,395	R953	33,793	336	34,129	R58,739
1984 Average...	1,754	1,646	2,322	1,849	11,736	15,726	1,472	4,576	R990	34,500	340	34,840	R59,831
1985 Average...	1,775	1,717	2,338	1,634	11,681	15,726	1,504	4,384	976	34,271	362	34,633	60,091
1986 Average...	1,772	1,738	2,498	1,649	12,102	16,281	1,506	4,439	951	35,279	362	35,641	61,759
1987 Average...	1,789	1,855	2,424	1,603	12,255	16,665	1,548	4,484	959	35,911	342	36,253	62,999
1988 Average...	1,797	1,836	2,422	1,697	12,427	17,283	1,693	4,752	939	37,093	322	37,415	64,819
1989 Average...	1,857	1,930	2,280	1,738	12,531	17,325	1,733	4,983	998	37,570	R300	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	R282	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	R1,243	--	--	R40,553	R69,926
1996 Average...	1,935	2,058	2,911	1,845	14,269	18,309	1,797	5,867	R1,191	--	--	R41,432	R71,524
1997 Average P.	1,950	2,054	2,910	1,803	14,405	18,582	1,865	5,709	1,136	--	--	41,697	73,312

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

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

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

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

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

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

Sources: See end of Section 4.

Table 4.7 OECD Total Net Imports, 1986-1996
(Million Barrels per Day)

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
	Average										
Total.....	17.670	18.008	18.706	20.082	20.456	20.414	20.783	21.226	21.133	20.717	21.455
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 December 1997 United States (including territories) oil stocks totaled 1,415 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, 1987-1996

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

-- = No Production of this form of energy.

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

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

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

-- = No Production of this form of energy.

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

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

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

-- = No Production of this form of energy.

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