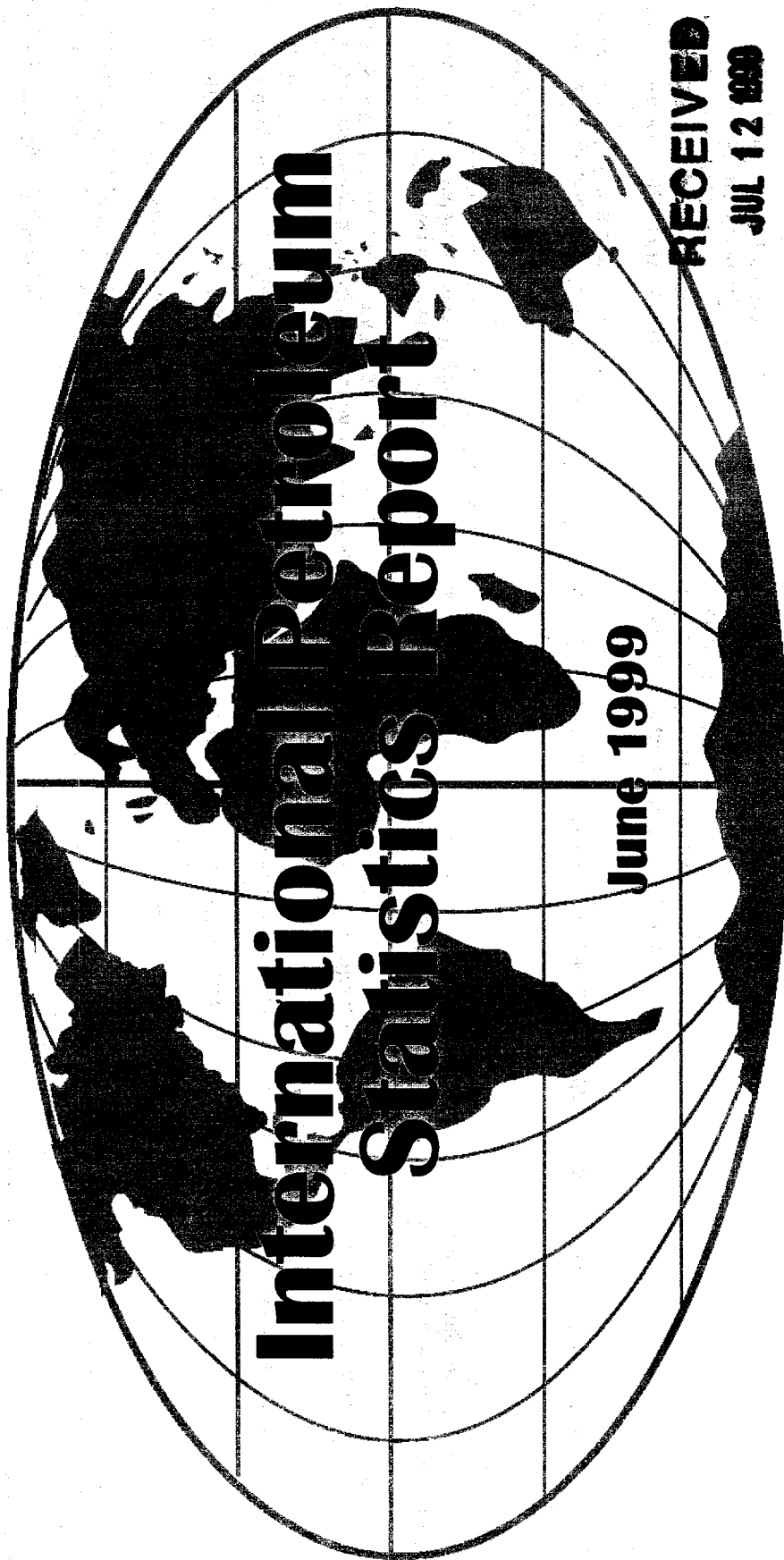




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International Petroleum Statistics Report

June 1999

Energy Information Administration
Office of Energy Markets and End Use
U.S. Department of Energy
Washington, DC 20585

Web Address for International Petroleum Statistics Report:

<http://www.eia.doe.gov/emeu/ipsr/contents.html>

This report was prepared by the Energy Information Administration, the independent statistical and analytical agency within the U.S. Department of Energy. The information contained herein should be attributed to the Energy Information Administration and should not be construed as advocating or reflecting any policy position of the Department of Energy or any other organization.

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 1990, 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 and annually for the three years prior to that. 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 1998; OECD stocks from 1973 through 1998; and OECD trade from 1988 through 1998.

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

General information about this publication may be obtained from W. Calvin Kilgore, Director, Office of Energy Markets and End Use, (202) 586-1617, and from Louis D. DeMouy, Director, Integrated Energy Statistics Division, (202) 586-8994. Detailed questions and comments concerning the contents of the International Petroleum Statistics Report may be directed to Michael J. Grillo, Team Leader, International Energy Statistics Team, (202) 586-6577, Patricia A. Smith (202) 586-6925, or H. Vicky McLaine (202) 586-9412; Oil Market Chronology - Douglas MacIntyre (202) 586-1831.

Historical revisions reflect changes to data that were published in the *International Energy Annual 1997*, which is also available on the EIA Home Page (<http://www.eia.doe.gov/iea>).

Oil Market Chronology -- May 1999

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

- May 1** A European Union (EU) ban on oil shipments to Yugoslavia takes effect in an effort to deny Yugoslav forces access to fuel. The ban calls on EU member nations to cease shipping oil to Yugoslavia. In addition, U.S. President Clinton signs an executive order imposing a U.S. embargo on trade with Serbia, that exempts the Yugoslav republic of Montenegro. A broader blockade of Yugoslavia by NATO is still being discussed. (DJ)
- U.S. President Clinton unveils a plan to apply the same standard for tailpipe emissions to cars, light-duty trucks, and most sport utility vehicles (SUVs). Based on current nitrogen oxides (NO_x) emission levels, the proposed plan would result in a 77 percent reduction for cars and a 95 percent reduction for light-duty trucks and SUVs. The new standards would be phased in during the 2004 to 2007 model years. At the same time, the Environmental Protection Agency (EPA) proposes a rule that would require refiners to reduce gasoline sulfur content from a current average of nearly 330 parts per million (ppm) to 30 ppm. The new sulfur standard is being proposed in conjunction with the new tailpipe emission proposal since sulfur impedes catalytic converter efficiency, thus making it more difficult to reduce tailpipe emissions without reducing sulfur content in gasoline. Oil industry representatives have vowed to protest the proposed rule, claiming that it will cost refiners \$3 billion to \$6 billion. The EPA estimates that the cost of compliance for both the automobile and oil industries will be between \$3.4 billion and \$4.4 billion. (DJ)
- May 4** Japan signs a contract to lend \$1 billion to the Korean Peninsula Energy Development Organization, which is building two light-water nuclear reactors in North Korea as part of a 1994 agreement between the United States and North Korea. The money was delayed for several months as Japan was considering whether to continue funding some of the project after North Korea fired a missile through Japanese air space in 1998. (WP)
- May 5** General Abdulsalami Abubakar, Nigeria's current leader, signs a new constitution designed to ensure a smooth transition from military rule to civilian rule when President-elect Olusegun Obasanjo assumes office on May 29. *Dow Jones* reported that General Abubakar hinted that the constitution would encourage decentralization of the federal government. Nigeria has been governed by the military for all but 10 of the nearly 40 years since it became independent. (DJ)
- May 6** South Korea's Ministry of Commerce, Industry, and Energy reports that the country's energy consumption in the first quarter of 1999 rose by 11.4 percent compared to the same period in 1998. Oil consumption rose 11.5 percent over the same period, averaging 2.17 million barrels per day. The Ministry reported that the increase in oil consumption was a result of improving consumer confidence in the South Korean economy. (DJ)
- May 9** Elf Aquitaine, a major French oil company, submits a proposal to the Saudi Arabian government to set up a new natural gas and electricity project worth over \$1 billion. Elf is proposing to develop a natural gas field in central Saudi Arabia, and then to use the gas to fuel a new 1,500-megawatt electric power plant to be located near the gas field. This is the first firm proposal submitted to the Saudi Arabian government since Saudi Crown Price Abdullah's recent invitation to major energy companies to invest in Saudi Arabia's oil and gas sectors. (DJ)
- May 10** The Board of Argentine oil company YPF unanimously approved a \$13.4 billion offer from Repsol, a Spanish company. Repsol, which already owns 14.99 percent of YPF, made an all cash offer to purchase the remaining 85.01 percent last month. The Board recommended to all shareholders to accept the Repsol offer. Two Argentine provinces, which own about five percent of YPF's shares, remain concerned about Repsol's intentions for their regions. (WSJ)
- Norsk Hydro, one of Norway's state-owned oil companies, offers to buy out privately-owned Norwegian oil and gas exploration company, Saga Petroleum for more than \$2.2 billion. Saga's board of directors will consider the offer before making a recommendation to their shareholders. (WSJ, DJ)
- May 11** The Independent Petroleum Association of America (IPAA) votes to be an "interested party" to a petition before the U.S. International Trade Commission to investigate dumping of crude oil into the United States by Mexico, Venezuela, Iraq, and Kuwait. By being an "interested party", the IPAA will be able to file briefs in the case, without being the initiator of the petition, according to IPAA vice chairman Jerry Jordan. The petition will be filed on May 28 by a group called "Save Domestic Oil", which is led by Oklahoma Basic Energy Corporation and Continental Resources, another Oklahoma-based company. (USA, DJ)

May 12 The Caspian Pipeline Consortium (CPC) begins construction of a 981-mile pipeline that will carry crude oil from the Caspian Sea to the Russian port of Novorossiisk for export to foreign markets. The pipeline's planned capacity is about 1.3 million barrels per day, and the CPC is expecting to load the first tanker in mid-2001. (DJ)

May 13 Saudi Arabia notifies U.S. crude oil customers that state oil company Saudi Aramco will cut term-contracted volumes of crude delivered to them in June by 20 percent to 25 percent. Saudi Aramco had earlier notified European crude oil customers of cuts in volume averaging 35 percent, with cuts for Asian customers averaging 17 percent. (DJ)

The U.S. special envoy for Caspian Sea energy issues, Ambassador Richard Morningstar, delivers a U.S. proposal to President Niyazov of Turkmenistan on the sharing of Caspian energy resources between Turkmenistan and Azerbaijan. The proposal was developed by a panel of U.S. advisors to the Turkmen-Azerbaijani commission on determining the sea boundary delineation between the two states. The same proposal was delivered to the government of Azerbaijan on May 12. Contents of the U.S. proposal are not made public. (DJ)

May 17 The Environmental Protection Agency (EPA) states that it will not change its "Tier Two Plan" to cut gasoline sulfur content and tailpipe emissions, in response to a recent appellate court ruling that the EPA had overstepped its mandate in implementing some provisions of the Clean Air Act. Beginning in 2004, the Tier Two Plan would require refiners to cut gasoline sulfur content to an average of 30 parts per million, down more than 90 percent from the current national average. (DJ)

May 18 Acting Russian Fuel and Energy Minister Sergei Generalov states that Russia plans to maintain cuts in oil exports made in the first quarter of 1999 in support of efforts by the Organization of Petroleum Exporting Countries to raise oil prices. Russia had cut exports by 100,000 barrels per day. (DJ)

May 18 Ecuador's Energy Minister, Rene Ortiz, announces plans to privatize all of Ecuador's downstream operations, including the sale of four refineries. State oil company Petroecador currently operates the refineries. (DJ)

May 20 China announces it is speeding up plans for the construction of a crude oil pipeline linking oil deposits in Kazakhstan to refineries in north and central China. The pipeline is now planned for completion in 2007. China National Petroleum Corporation has a stake in Kazakhstan's Uzen oilfield near the Caspian Sea. (DJ)

May 21 The United Nations Security Council, in a unanimous vote, extends the "oil-for-food" program, under which Iraqi oil sales finance imports of food and medicine, for another six-month period. The resolution renews the program under its current terms, but promises a review of the program's \$5.26 billion cap on exports if Iraq reaches the ceiling. (DJ)

Venezuelan President Hugo Chavez states that a sharp increase in oil prices is not desirable. "If the price of a Venezuelan oil basket hovers around \$13 to \$14 per barrel, I will be happy," Chavez says. (DJ)

May 24 Iraqi oil officials state that, despite a lack of spare parts, Iraq is capable of boosting output from its northern oil fields to 1.2 million barrels per day during the proposed sixth phase of the "oil-for-food" deal with the United Nations, from around 0.8 million barrels per day in the fifth phase. (DJ)

May 25 Russian Prime Minister Sergei Stepashin signs a government decree doubling the tariff on oil exports to 5 euros (EUR) per metric ton. Earlier this year, the Russian government set out a schedule of tariffs based on export prices for Russian oil. The EUR 5 per ton tariff takes effect when the price of Russian oil rises above \$12 a barrel. (DJ)

May 27 Exxon and Mobil shareholders approve an \$81.2 billion merger, in which Exxon will issue 1.32 shares for each share of Mobil's approximately 780.2 million shares outstanding. The merger still must receive regulatory approval from the U.S. government and the European Union. The chairman of both companies state that they expect regulatory approvals to be obtained by the end of the third quarter of 1999. (DJ)

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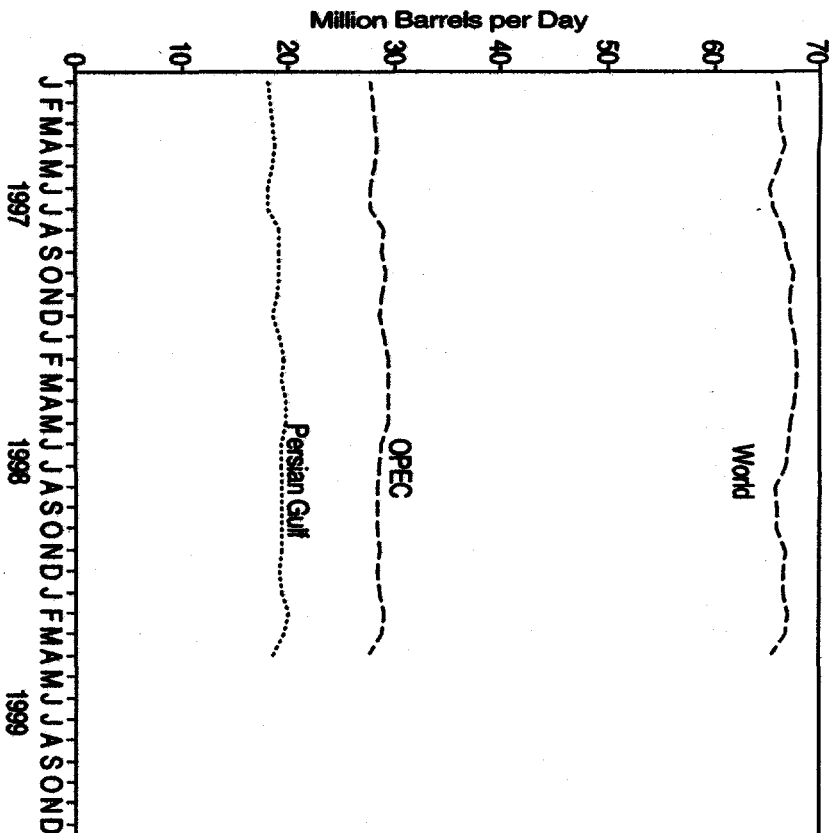
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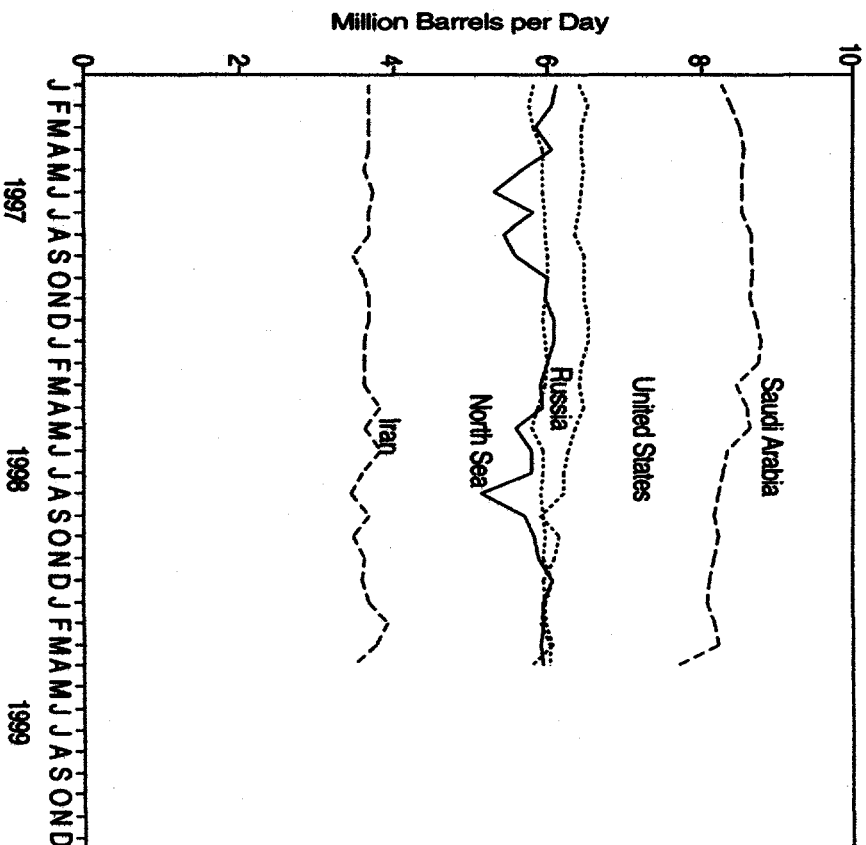
1. Annual and Monthly Oil Data

Figure 1. World Crude Oil Production, Monthly



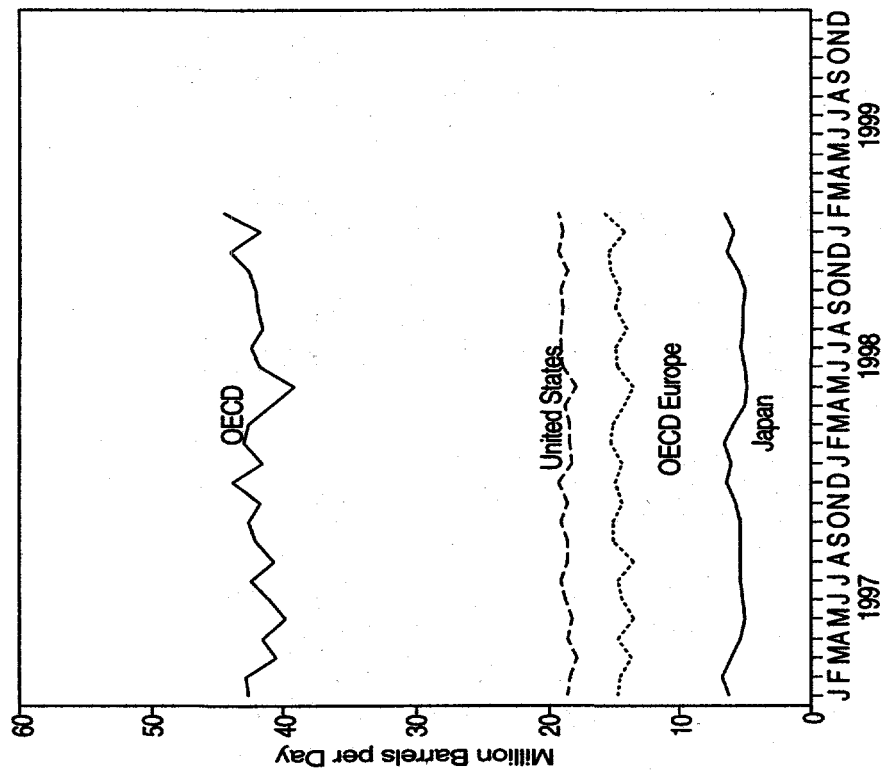
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Figure 2. Leading Crude Oil Producers, Monthly



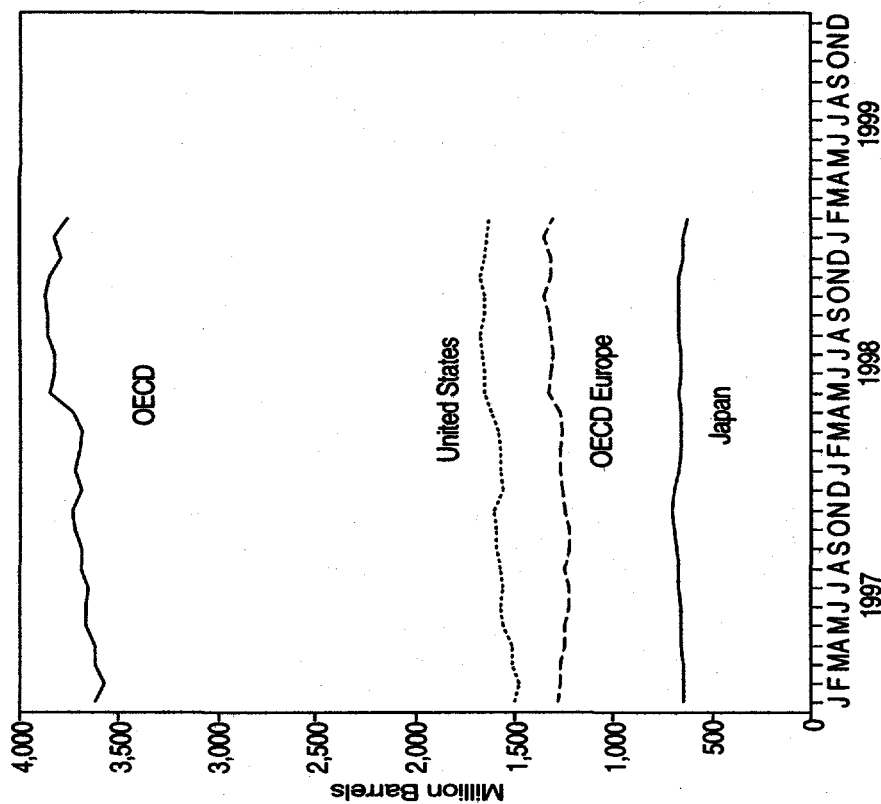
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Figure 3. OECD Oil Consumption, Monthly



Source: Table 1.7

Figure 4. OECD Oil Stocks, Monthly



Source: Table 1.5

Table 1.1a World Crude Oil Production (Including Lease Condensate), 1990-Present
(Thousand Barrels per Day)

	Algeria	Indonesia	Iran	Iraq	Kuwait	Libya	Nigeria	Qatar	Saudi Arabia	United Arab Emirates	Venezuela	Total OPEC
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	R2,001	510	8,218	2,278	R2,938	R26,461
1997 Average.....	1,277	R1,520	3,664	R1,155	2,083	1,446	R2,332	649	8,562	2,316	3,315	R28,320
1998 January.....	1,290	1,520	3,635	1,261	2,215	1,450	2,218	715	8,765	2,435	3,440	28,944
February.....	1,290	1,520	3,635	1,703	2,210	1,450	2,263	735	8,760	2,435	3,410	29,411
March.....	1,290	1,520	3,635	1,825	2,210	1,450	2,380	735	8,460	2,480	3,410	29,395
April.....	1,270	1,520	3,835	1,985	2,115	1,400	2,238	705	8,585	2,420	3,240	29,313
May.....	1,250	1,520	3,835	2,245	2,105	1,360	2,230	705	8,625	2,330	3,240	29,245
June.....	1,240	1,490	3,835	1,920	2,105	1,360	2,210	705	8,325	2,300	3,210	28,700
July.....	1,230	1,490	3,585	2,355	2,075	1,360	2,160	685	8,275	2,280	3,070	28,565
August.....	1,220	1,510	3,435	2,555	2,025	1,340	2,010	675	8,225	2,300	2,990	28,285
September.....	1,220	1,510	3,685	2,555	1,972	1,335	2,010	665	8,173	2,300	2,940	28,365
October.....	1,220	1,540	3,485	2,555	1,970	1,335	1,960	670	8,220	2,290	2,990	28,235
November.....	1,220	1,540	3,635	2,505	2,020	1,350	2,060	675	8,170	2,290	3,040	28,505
December.....	1,220	1,540	3,585	2,305	2,010	1,350	2,110	680	8,110	2,290	3,040	28,240
1998 Average.....	1,246	1,518	3,634	2,150	2,085	1,378	2,153	696	8,389	2,345	3,167	28,762
1999 January.....	1,230	1,540	3,665	2,515	1,995	1,360	2,080	695	8,065	2,240	3,020	28,405
February.....	1,240	1,520	3,925	2,655	2,005	1,360	2,010	695	8,165	2,330	3,000	28,905
March.....	1,250	1,530	3,795	2,430	2,020	1,360	2,160	775	8,220	2,235	2,960	28,735
April.....	1,210	1,530	3,485	2,655	1,785	1,320	2,160	705	7,665	2,180	2,800	27,495
1999 Average.....	1,233	1,530	3,714	2,561	1,951	1,350	2,104	718	8,028	2,245	2,945	28,379

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 April 1999, Neutral Zone production by both Kuwait and Saudi Arabia totaled about 530 thousand barrels per day. Notes: *OPEC-Organization of Petroleum Exporting Countries. *Monthly data are often preliminary and also may not average to the annual totals due to rounding. Sources: See end of Section 1.

Table 1.1b World Crude Oil Production (Including Lease Condensate), 1990-Present
(Thousand Barrels per Day)

	Norway	United Kingdom	North Sea/ Seal/	Angola	Argentina	Australia	Brazil	Canada	China	Colombia	Ecuador
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.....	R3,143	R2,518	R5,830	R714	R834	588	R841	R1,922	3,200	R652	R388
1998 January.....	3,293	2,597	6,082	735	840	528	886	1,912	3,240	715	390
February.....	3,230	2,583	5,989	730	840	550	920	1,944	3,155	710	380
March.....	3,123	2,600	5,908	730	840	560	920	1,952	3,170	725	380
April.....	3,160	2,602	5,928	710	840	604	930	1,988	3,140	725	380
May.....	2,917	2,499	5,589	710	855	600	959	1,943	3,210	735	380
June.....	3,140	2,495	5,797	710	855	624	956	1,932	3,260	735	380
July.....	3,120	2,525	5,801	710	855	621	975	2,045	3,200	735	330
August.....	2,440	2,536	5,133	730	850	637	990	2,016	3,180	752	380
September.....	2,863	2,690	5,712	735	855	541	970	2,064	3,216	775	385
October.....	2,920	2,718	5,807	765	850	406	995	2,024	3,150	810	390
November.....	2,978	2,720	5,881	770	850	430	1,070	1,989	3,240	845	380
December.....	3,045	2,821	6,038	785	830	428	1,075	1,962	3,215	847	370
1998 Average.....	3,017	2,616	5,804	735	847	544	971	1,981	3,198	759	377
1999 January.....	3,002	2,721	5,922	780	815	509	1,128	1,892	3,230	843	370
February.....	3,004	2,728	5,937	780	820	555	1,090	1,878	3,235	830	380
March.....	R2,975	R2,708	R5,900	790	R810	R463	1,110	R1,835	3,215	830	R350
April.....	2,954	2,743	5,920	800	810	494	1,120	1,847	3,190	840	350
1999 Average.....	2,983	2,725	5,919	788	814	504	1,112	1,863	3,217	836	362

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), 1990-Present
(Thousand Barrels per Day)

	Egypt	Gabon	India	Malaysia	Mexico	Oman	Russia	Former U.S.S.R.	Syria	United States	Other ¹ / World	
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	R3,229	R60,213
1993 Average.....	890	313	534	640	2,673	776	6,730	--	554	6,847	R3,279	R60,236
1994 Average.....	896	329	590	645	2,685	810	6,135	--	560	6,662	R3,380	R60,991
1995 Average.....	920	365	703	682	2,618	851	5,995	--	575	6,560	R3,414	R62,335
1996 Average.....	922	368	651	695	2,855	883	5,850	--	R582	6,465	R3,490	R63,711
1997 Average.....	R856	R370	675	746	3,023	R904	R5,920	--	561	6,452	R3,793	R66,420
1998 January.....	860	360	680	740	3,085	920	5,979	--	550	6,515	3,765	67,535
February.....	860	370	685	730	3,140	920	5,997	--	550	6,449	3,747	67,900
March.....	860	370	685	740	3,160	930	5,962	--	550	6,399	3,746	67,797
April.....	860	370	635	740	3,140	920	5,876	--	550	6,483	3,707	67,673
May.....	870	370	670	750	3,149	910	5,789	--	560	6,363	3,663	67,147
June.....	870	370	670	750	3,050	900	5,928	--	560	6,252	3,713	66,850
July.....	880	360	676	730	3,120	870	5,923	--	560	6,193	3,739	66,732
August.....	870	360	651	730	3,055	880	5,910	--	560	6,193	3,705	65,710
September.....	870	350	625	720	2,906	890	5,936	--	550	5,918	3,723	65,947
October.....	870	350	638	720	2,792	890	5,979	--	550	6,152	3,745	65,950
November.....	860	350	643	720	3,147	890	5,945	--	550	6,072	3,765	66,719
December.....	860	350	679	720	3,107	880	6,040	--	550	5,938	3,765	66,507
1998 Average.....	866	361	661	733	3,070	900	5,938	--	553	6,243	3,732	66,865
1999 January.....	860	340	694	720	3,144	880	5,962	--	550	E5,954	3,798	66,597
February.....	860	340	686	720	3,020	900	5,897	--	550	E5,984	3,789	66,952
March.....	R870	340	R645	720	3,053	R910	6,024	--	R540	RE6,048	R3,799	R66,770
April.....	870	340	645	720	2,893	910	6,021	--	540	PE5,798	3,790	65,170
1999 Average.....	865	340	667	720	3,029	900	5,978	--	545	PE5,946	3,794	66,368

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), 1990-Present
(Thousand Barrels per Day)

	Algeria	Indo- nesia	Iran	Iraq	Kuwait ¹ / Libya	Nigeria	Qatar	Saudi Arabia ¹ / Emirates	United Arab zuela	Total OPEC
1990 Average...	765	1,281	3,088	2,040	1,175	1,755	406	6,410	2,066	R22,461
1991 Average...	800	1,410	3,312	305	1,483	1,832	395	8,115	2,326	22,506
1992 Average...	772	1,326	3,429	425	1,433	1,820	423	8,332	2,206	23,558
1993 Average...	747	1,327	3,540	512	1,852	1,835	413	8,198	2,109	24,304
1994 Average...	750	1,334	3,583	548	2,025	1,821	380	8,120	2,113	24,594
1995 Average...	767	1,343	3,608	555	2,057	1,878	407	8,231	2,148	25,094
1996 Average...	812	1,367	3,651	574	2,062	R1,885	475	8,218	2,198	R25,541
1997 Average...	847	R1,355	3,629	R1,150	2,083	2,217	614	8,562	2,236	R27,414
1998 January...	860	1,340	3,600	1,256	2,215	2,108	680	8,765	2,355	28,029
February...	860	1,340	3,600	1,698	2,210	2,153	700	8,760	2,355	28,496
March...	860	1,340	3,600	1,820	2,210	2,270	700	8,460	2,400	28,480
April...	840	1,340	3,800	1,980	2,115	2,128	670	8,585	2,340	28,398
May...	820	1,340	3,600	2,240	2,105	2,120	670	8,625	2,250	28,330
June...	810	1,310	3,800	1,915	2,105	2,100	670	8,325	2,220	27,785
July...	800	1,310	3,550	2,350	2,075	2,050	650	8,275	2,220	27,650
August...	790	1,330	3,400	2,550	2,025	1,900	640	8,225	2,220	27,370
September...	790	1,330	3,650	2,550	1,972	1,900	630	8,173	2,220	27,450
October...	790	1,360	3,450	2,550	1,970	1,850	635	8,220	2,210	27,320
November...	790	1,360	3,600	2,500	2,020	1,950	640	8,170	2,210	27,590
December...	790	1,360	3,550	2,300	2,020	2,000	645	8,110	2,210	27,325
1998 Average...	816	1,338	3,599	2,145	2,085	2,043	661	8,389	2,265	27,847
1999 January...	800	1,360	3,630	2,510	1,995	1,970	660	8,065	2,160	27,490
February...	810	1,340	3,890	2,650	2,005	1,900	660	8,165	2,250	27,990
March...	820	1,350	3,760	2,425	2,020	2,050	740	8,220	2,155	27,820
April...	780	1,350	3,450	2,650	1,785	2,050	670	7,665	2,100	26,580
1999 Average...	803	1,350	3,679	2,556	1,951	1,994	683	8,028	2,165	27,464

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 April 1999, Neutral Zone production by both Kuwait and Saudi Arabia totaled about 530 thousand barrels per day. R=Revised data.

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, 1990-Present
(Thousand Barrels per Day)

	Algeria	Canada	Mexico	Saudi Arabia	Russia	Former USSR	United States ¹	Persian Gulf ²	OPEC ³	OPEC ³	World
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	4,974
1993 Average.....	145	506	459	704	220	--	1,736	1,040	1,238	1,435	5,180
1994 Average.....	140	529	461	698	200	--	1,727	1,071	1,267	1,465	5,292
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	5,580
1997 Average.....	R160	R636	R388	R712	R195	--	1,817	R1,158	R1,390	R1,614	R5,750
1998 January.....	R155	665	385	735	230	--	1,826	1,185	R1,419	R1,632	R5,903
February.....	R155	680	420	735	230	--	1,870	1,185	R1,419	R1,632	R5,999
March.....	R155	645	425	735	230	--	1,846	1,185	R1,419	R1,632	R5,946
April.....	R155	645	425	725	230	--	1,859	1,175	R1,409	R1,622	R5,950
May.....	R155	580	430	725	230	--	1,808	1,175	R1,409	R1,622	R5,801
June.....	R155	610	420	705	230	--	1,734	1,155	R1,389	R1,602	R5,717
July.....	R155	648	386	700	230	--	1,580	1,150	R1,384	R1,597	R5,482
August.....	R155	662	464	695	230	--	1,713	1,145	R1,379	R1,592	R5,688
September.....	R155	625	435	695	230	--	1,716	1,145	R1,379	R1,592	R5,687
October.....	R155	667	415	695	230	--	1,736	1,145	R1,379	R1,592	R5,739
November.....	R155	681	438	695	230	--	1,759	1,145	R1,379	R1,592	R5,776
December.....	R155	705	447	690	230	--	1,604	1,140	R1,374	R1,587	R5,653
1998 Average.....	R155	651	424	711	230	--	1,753	1,161	R1,395	R1,608	R5,777
1999 January.....	R155	669	453	685	206	--	1,656	1,135	R1,369	R1,582	R5,628
February.....	R155	650	466	685	206	--	1,722	1,135	R1,369	R1,582	R5,742
March.....	R155	R632	469	695	206	--	R1,779	1,145	R1,379	R1,592	R5,766
April.....	155	656	457	655	206	--	R1,655	1,105	1,339	1,552	5,621
1999 Average.....	155	652	461	680	206	--	R1,703	1,130	1,364	1,577	5,689

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/ OPEC=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, 1990-Present
(Thousand Barrels per Day)

	United States ^{1/}	Persian Gulf ^{2/}	OPEC ^{3/}	World
1990 Average.....	9,677	16,249	24,536	66,754
1991 Average.....	9,883	15,704	24,625	66,632
1992 Average.....	9,768	17,010	25,818	R66,961
1993 Average.....	9,602	17,792	26,610	R67,348
1994 Average.....	9,413	18,072	27,031	R68,228
1995 Average.....	9,400	18,351	27,566	R69,837
1996 Average.....	9,445	18,486	R28,018	R71,394
1997 Average.....	9,461	R19,665	R29,990	R74,343
1998 January.....	9,539	20,283	R30,632	R75,651
February.....	9,522	20,735	R31,099	R76,118
March.....	9,376	20,602	R31,083	R75,890
April.....	9,496	20,892	R30,991	R75,792
May.....	9,319	20,892	R21,601	R75,112
June.....	9,292	20,417	R20,916	R74,888
July.....	9,042	20,477	R21,226	R74,499
August.....	9,201	20,432	R21,286	R73,708
September.....	8,882	20,567	R21,164	R73,898
October.....	9,175	20,407	R21,205	R73,991
November.....	9,178	20,512	R21,165	R74,857
December.....	8,892	20,192	R20,895	R74,526
1998 Average.....	9,241	20,532	R21,246	R74,902
1999 January.....	E8,916	20,382	R21,024	R74,547
February.....	E9,021	20,982	R21,374	R75,024
March.....	RE9,020	20,692	R21,221	R74,745
April.....	PE8,727	19,652	20,411	73,081
1999 Average.....	PE8,920	20,420	21,003	74,343

^{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/} OPEC=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
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.....	164	147	298	105	1,256	1,560	115	685	74	3,689
1998										
January.....	163	154	298	111	1,277	1,576	118	673	78	3,722
February.....	161	155	290	108	1,272	1,572	110	664	75	3,694
March.....	155	146	285	109	1,254	1,588	118	655	73	3,688
April.....	163	161	292	106	1,274	1,614	116	658	R76	3,737
May.....	171	168	306	111	R1,336	1,654	115	667	79	3,852
June.....	164	164	308	109	1,316	1,654	116	658	82	3,826
July.....	164	157	313	109	R1,303	1,665	115	660	R76	R3,818
August.....	168	161	319	106	R1,323	1,672	118	672	77	R3,863
September.....	170	158	317	107	1,335	1,653	120	676	79	3,863
October.....	170	162	321	109	R1,345	1,654	121	676	R70	R3,865
November.....	161	157	320	99	R1,313	1,674	122	675	71	3,854
December.....	161	153	321	108	1,317	1,647	118	649	66	3,797
1999										
January.....	R170	154	329	111	R1,345	1,639	R117	645	R72	R3,818
February.....	165	146	320	109	1,305	1,625	119	633	74	3,755

^{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 1998)
(Million Barrels)

Country	Commercial	Government Owned	Total
Canada.....	118	0	118
United States ^{1/}	1,076	571	1,647
United States Territories.....	22	0	22
Japan.....	334	315	649
Australia/New Zealand.....	44	NA	44
Austria.....	24	0	24
Belgium/Luxembourg.....	35	0	35
Denmark.....	26	0	26
Finland.....	25	0	25
France.....	161	0	161
Germany ^{2/}	266	55	321
Greece.....	33	NA	33
Ireland.....	8	2	10
Italy.....	147	6	153
Netherlands.....	94	0	94
Norway.....	67	0	67
Portugal.....	21	0	21
Spain.....	109	0	109
Sweden.....	32	0	32
Switzerland.....	45	0	45
Turkey.....	52	0	52
United Kingdom.....	108	0	108
OECD Europe.....	1,254	63	1,317
Total OECD.....	2,848	949	3,797

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, 1990-Present
(Thousand Barrels per Day)

	France	Italy	Germany ^{1/}	United Kingdom	OECD Europe ^{2/}	United States ^{3/}	Canada	Japan	Other ^{4/}	Total OECD
1990 Average....	1,818	1,872	2,382	1,752	12,629	16,988	1,690	5,140	1,027	37,475
1991 Average....	1,935	1,863	2,828	1,801	13,391	16,714	1,622	5,284	1,056	38,067
1992 Average....	1,926	1,937	2,843	1,803	13,605	17,033	1,643	5,446	1,041	38,768
1993 Average....	1,875	1,852	2,900	1,815	13,523	17,237	1,688	5,401	1,118	38,967
1994 Average....	1,833	1,841	2,879	1,837	13,597	17,718	1,727	5,674	1,174	39,890
1995 Average....	1,896	2,048	2,875	1,845	14,120	17,725	1,755	5,711	1,243	40,553
1996 Average....	1,935	2,058	2,911	1,845	14,269	18,309	1,797	5,867	1,191	41,432
1997 Average....	1,955	2,045	2,903	1,799	14,433	18,620	1,857	5,711	1,229	41,850
1998										
January....	2,040	2,030	2,734	1,797	R14,294	18,256	1,854	6,109	R1,150	R41,664
February....	2,160	2,150	2,950	1,846	R15,202	18,322	1,829	6,465	R1,238	R43,056
March.....	1,982	2,111	3,153	1,867	15,159	18,393	1,861	5,905	R1,311	R42,630
April.....	1,999	2,016	2,840	1,718	R14,287	18,624	1,805	5,086	R1,165	R40,967
May.....	1,822	1,891	2,594	1,693	R13,492	17,876	1,766	4,806	R1,232	R39,172
June.....	2,008	2,091	2,929	1,787	R14,771	18,818	1,890	5,016	R1,258	R41,753
July.....	2,095	2,096	3,020	1,770	R14,875	19,140	1,955	5,316	R1,211	R42,496
August.....	1,859	1,877	2,835	1,761	R14,044	19,108	1,910	5,282	R1,221	R41,563
September..	2,051	2,033	3,019	1,798	R14,897	18,837	1,937	5,097	R1,164	R41,933
October....	1,990	2,021	2,865	1,811	R14,630	19,086	1,933	5,089	R1,272	R42,010
November...	2,078	2,209	2,985	1,861	R15,274	18,515	1,906	5,612	R1,308	R42,614
December...	2,164	2,231	2,979	1,799	R15,424	19,198	1,915	6,379	R1,213	R44,130
Average....	2,019	2,062	2,908	1,792	14,690	18,684	1,881	5,509	1,229	41,992
1999										
January....	R1,987	2,067	2,557	1,699	R14,117	18,850	1,822	5,881	R1,100	R41,770
February...	2,201	2,129	3,152	1,893	15,705	19,240	1,925	6,464	1,132	44,466

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

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

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

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

R-Revised data.

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

Sources: See end of Section 1.

Sources for Section 1 (Annual and Monthly Oil Data)

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

United States: Energy Information Administration (EIA), Petroleum Supply Annual 1997 and Petroleum Supply Monthly, May 1999.

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, December 1986.

Oil Stocks

United States: EIA, Petroleum Supply Annual 1997 and Petroleum Supply Monthly, May 1999.

Other OECD Countries: • Organization for Economic Cooperation and Development (OECD), Quarterly Oil Statistics and Energy Balances, various issues.
• OECD, Monthly Oil Statistics data base, 1985-1999.

Oil Demand

United States: EIA, Petroleum Supply Annual 1997 and Petroleum Supply Monthly, May 1999.

Other OECD Countries: • OECD, Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Monthly Oil Statistics data base, 1985-1999.

2. International Oil Balance Data

Table 2.1 World Oil Balance, 1995-1999
(Million Barrels Per Day)

	1995	1996	1997	1998				1999				
	Annual			Quarter				Quarter				
	Average			First	Second	Third	Fourth	Average	First	Second	Third	Fourth
Supply ^{1/}												
OECD												
United States ^{2/}	9.40	9.44	9.46	9.48	9.37	9.04	9.08	9.24	8.98	NA	NA	NA
Other OECD.....	9.78	10.26	10.41	10.66	10.43	10.24	10.44	10.44	10.38	NA	NA	NA
Total OECD.....	19.18	19.71	19.88	20.14	19.80	19.28	19.52	19.68	19.36	NA	NA	NA
Non-OECD												
OPEC.....	27.57	28.02	29.99	30.93	30.76	30.06	29.97	30.43	30.32	NA	NA	NA
Former USSR.....	7.14	7.05	7.22	7.29	7.16	7.22	7.30	7.24	7.23	NA	NA	NA
Other Non-OECD.....	15.95	16.62	17.25	17.52	17.55	17.48	17.66	17.55	17.85	NA	NA	NA
Total Non-OECD.....	50.66	51.69	54.47	55.74	55.46	54.76	54.93	55.22	55.40	NA	NA	NA
Total World Supply.....	69.84	71.39	74.34	75.88	75.26	74.04	74.45	74.90	74.76	NA	NA	NA
Demand ^{3/}												
OECD												
United States ^{2/}	17.72	18.31	18.62	18.32	18.43	19.03	18.94	18.68	NA	NA	NA	NA
Other OECD.....	22.83	23.12	23.23	24.11	22.18	22.97	23.98	23.31	NA	NA	NA	NA
Total OECD.....	40.55	41.43	41.85	42.43	40.61	42.00	42.92	41.99	NA	NA	NA	NA
Non-OECD												
China.....	3.32	3.52	3.79	3.90	3.96	4.00	4.06	3.98	NA	NA	NA	NA
Former USSR.....	4.60	4.03	4.26	4.54	4.09	4.09	4.45	4.29	NA	NA	NA	NA
Other Non-OECD.....	21.40	22.34	23.11	23.52	23.37	22.93	24.50	23.58	NA	NA	NA	NA
Total Non-OECD.....	29.32	29.89	31.16	31.97	31.42	31.02	33.01	31.85	NA	NA	NA	NA
Total World Demand.....	69.88	71.32	73.01	74.40	72.04	73.02	75.93	73.85	NA	NA	NA	NA
Stock Draws / Discrepancy												
Net Reported Stock Draws ^{4/}												
U. S. Commercial.....	.25	.08	-.15	-.32	-.72	.01	.15	-.22	NA	NA	NA	NA
U. S. Strategic.....	.00	.07	.01	.00	.00	.00	-.09	-.02	NA	NA	NA	NA
Other OECD.....	.09	-.12	-.13	.34	-.81	-.41	.65	-.06	NA	NA	NA	NA
For Export & Afloat.....	-.12	-.01	-.12	-.44	.22	.22	-.05	-.01	NA	NA	NA	NA
Comm. Floating Storage...	.00	.00	.00	-.11	-.11	-.22	.11	-.08	NA	NA	NA	NA
Total Reported Draws.....	.22	.01	-.39	-.54	-1.41	-.39	.77	-.39	NA	NA	NA	NA
Other Stock Draws and												
Statistical Discrepancy ^{5/}	-.18	-.09	-.94	-.95	-1.81	-.63	.71	-.66	NA	NA	NA	NA

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

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

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

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

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

NA=Not available.

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

Sources: See end of Section 2.

Table 2.2 World Oil Supply, 1995-1999
(Million Barrels Per Day)

	1995		1996		1997		1998			1999		
	Annual		Annual		Annual		Quarter			Quarter		
	Average		Average		Average		First	Second	Third	Fourth	First	Second
OECD												
United States ¹ /...	9.40	9.44	9.46	9.48	9.37	9.04	9.08	9.24	8.98	NA	NA	NA
Canada.....	2.45	2.49	2.62	2.66	2.63	2.75	2.74	2.70	2.58	NA	NA	NA
North Sea ² /.....	5.80	6.22	6.20	6.42	6.17	5.86	6.26	6.18	6.29	NA	NA	NA
Other OECD.....	1.53	1.55	1.59	1.58	1.63	1.63	1.44	1.57	1.51	NA	NA	NA
Total OECD.....	19.18	19.71	19.88	20.14	19.80	19.28	19.52	19.68	19.36	NA	NA	NA
Non-OECD												
OPEC												
Crude												
Algeria.....	1.20	1.24	1.28	1.29	1.25	1.22	1.22	1.25	1.24	NA	NA	NA
Indonesia.....	1.50	1.55	1.52	1.52	1.51	1.50	1.54	1.52	1.53	NA	NA	NA
Iran.....	3.64	3.69	3.66	3.63	3.77	3.57	3.57	3.63	3.79	NA	NA	NA
Iraq.....	.56	.58	1.15	1.59	2.05	2.49	2.45	2.15	2.53	NA	NA	NA
Kuwait.....	2.06	2.06	2.08	2.21	2.11	2.02	2.00	2.09	2.01	NA	NA	NA
Libya.....	1.39	1.40	1.45	1.45	1.37	1.35	1.34	1.38	1.36	NA	NA	NA
Nigeria.....	1.99	2.00	2.33	2.29	2.23	2.06	2.04	2.15	2.09	NA	NA	NA
Qatar.....	.44	.51	.65	.73	.70	.68	.67	.70	.72	NA	NA	NA
Saudi Arabia..	8.23	8.22	8.56	8.66	8.51	8.22	8.17	8.39	8.15	NA	NA	NA
United Arab Emirates....	2.23	2.28	2.32	2.45	2.35	2.29	2.29	2.35	2.27	NA	NA	NA
Venezuela.....	2.75	2.94	3.31	3.42	3.23	3.00	3.02	3.17	2.99	NA	NA	NA
Natural Gas												
Plant Liquids	1.51	1.50	1.61	1.63	1.62	1.59	1.59	1.61	1.59	NA	NA	NA
Processing Gain.	.06	.06	.06	.06	.06	.06	.06	.06	.06	NA	NA	NA
Total OPEC.....	27.57	28.02	29.99	30.93	30.76	30.06	29.97	30.43	30.32	NA	NA	NA
Former USSR.....	7.14	7.05	7.22	7.29	7.16	7.22	7.30	7.24	7.23	NA	NA	NA
China.....	2.99	3.13	3.20	3.19	3.20	3.20	3.20	3.20	3.23	NA	NA	NA
Mexico.....	3.09	3.31	3.44	3.57	3.57	3.48	3.48	3.52	3.56	NA	NA	NA
Other Non-OECD....	9.87	10.18	10.62	10.76	10.78	10.79	10.98	10.83	11.06	NA	NA	NA
Total Non-OECD....	50.66	51.69	54.47	55.74	55.46	54.76	54.93	55.22	55.40	NA	NA	NA
Total Supply.....	69.84	71.39	74.34	75.88	75.26	74.04	74.45	74.90	74.76	NA	NA	NA

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

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

NA=Not available.

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

Sources: See end of Section 2.

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

	1994			1995			1996			1997			1998			
	Year End			Year End			Year End			Year End			Quarter			
	First	Second	Third	First	Second	Third	First	Second	Third	First	Second	Third	First	Second	Third	Fourth
OECD																
United States ^{1/}																
Commercial.....	1,061	971	941	949	1,012	1,029	997	1,025	1,091	1,090	1,076					
Strategic.....	592	592	566	563	563	563	563	563	563	563	571					
U. S. Territories.....	26	24	25	23	27	27	23	25	28	29	22					
Canada.....	119	109	103	107	107	108	115	118	116	120	118					
Japan.....	645	630	651	650	662	682	685	655	658	676	649					
OECD Europe																
France.....	158	159	158	160	153	157	164	155	164	170	161					
Germany.....	312	301	300	312	299	291	298	285	308	317	321					
Italy.....	164	162	152	160	151	144	147	146	164	158	153					
United Kingdom.....	115	107	108	109	111	106	105	109	109	107	108					
Other OECD Europe.....	490	499	537	532	516	528	542	560	572	584	573					
Total.....	1,240	1,228	1,256	1,273	1,230	1,227	1,256	1,254	1,316	1,335	1,317					
Australia & New Zealand	43	47	49	53	56	50	51	48	54	50	44					
Total OECD.....	3,726	3,601	3,591	3,617	3,657	3,687	3,689	3,688	3,826	3,863	3,797					
Stocks for Export																
and Afloat ^{2/}	935	980	985	1,010	985	1,030	1,030	1,070	1,050	1,030	1,035					
Commercial Floating ^{3/}	70	70	70	70	70	70	70	80	90	110	100					

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

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

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

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

Sources: See end of Section 2.

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

	1994				1995				1996				1997				1998			
	Annual				Annual				Annual				Quarter				Quarter			
	Average				Average				Average				First	Second	Third	Fourth	First	Second	Third	Fourth
OECD																				
United States ¹ /.....	17.72	17.72	17.72	17.72	18.31	18.27	18.49	18.75	18.97	18.62	18.32	18.43	19.03	18.94	18.68	18.94	18.32	18.43	19.03	18.94
U. S. Territories.....	.26	.25	.26	.26	.26	.29	.28	.27	.28	.28	.30	.26	.27	.29	.28	.29	.30	.26	.27	.29
Canada.....	1.73	1.76	1.80	1.80	1.81	1.81	1.81	1.93	1.88	1.86	1.85	1.82	1.93	1.92	1.88	1.92	1.85	1.82	1.93	1.92
Japan.....	5.67	5.71	5.87	5.87	6.39	6.39	5.17	5.43	5.87	5.71	6.15	4.97	5.23	5.69	5.51	5.69	6.15	4.97	5.23	5.69
OECD Europe ² /																				
France.....	1.83	1.90	1.93	1.93	2.03	2.03	1.83	1.96	2.00	1.96	2.06	1.94	2.00	2.08	2.02	2.08	2.06	1.94	2.00	2.08
Italy.....	1.84	2.05	2.06	2.06	2.02	2.02	1.94	1.99	2.23	2.04	2.10	2.00	2.00	2.15	2.06	2.15	2.10	2.00	2.00	2.15
United Kingdom.....	1.84	1.84	1.85	1.85	1.84	1.84	1.76	1.76	1.83	1.80	1.84	1.73	1.78	1.82	1.79	1.82	1.84	1.73	1.78	1.82
Germany ³ /.....	2.88	2.88	2.91	2.91	2.75	2.75	3.03	2.99	2.84	2.90	2.95	2.79	2.96	2.94	2.91	2.94	2.95	2.79	2.96	2.94
Other OECD Europe.....	5.21	5.45	5.52	5.52	5.65	5.65	5.62	5.71	5.93	5.73	5.94	5.72	5.87	6.11	5.91	6.11	5.94	5.72	5.87	6.11
Total OECD Europe.....	13.60	14.12	14.27	14.27	14.29	14.29	14.19	14.42	14.82	14.43	14.87	14.18	14.60	15.11	14.69	15.11	14.87	14.18	14.60	15.11
Australia & New Zealand	.92	.99	.93	.93	.95	.95	.94	.96	.94	.95	.94	.96	.93	.97	.95	.97	.94	.96	.93	.97
Total OECD.....	39.89	40.55	41.43	41.43	42.00	42.00	40.88	41.74	42.77	41.85	42.43	40.61	42.00	42.92	41.99	42.92	42.43	40.61	42.00	42.92
Non-OECD																				
China.....	3.14	3.32	3.52	3.52	3.71	3.71	3.77	3.81	3.86	3.79	3.90	3.96	4.00	4.06	3.98	4.06	3.90	3.96	4.00	4.06
Former USSR.....	4.85	4.60	4.03	4.03	4.51	4.51	4.06	4.06	4.42	4.26	4.54	4.09	4.09	4.45	4.29	4.45	4.54	4.09	4.09	4.45
Other Non-OECD.....	20.42	21.40	22.34	22.34	23.04	23.04	22.90	22.46	24.02	23.11	23.52	23.37	22.93	24.50	23.58	24.50	23.52	23.37	22.93	24.50
Total Non-OECD.....	28.41	29.32	29.89	29.89	31.27	31.27	30.73	30.33	32.30	31.16	31.97	31.42	31.02	33.01	31.85	33.01	31.97	31.42	31.02	33.01
Total World Demand.....	68.30	69.88	71.32	71.32	73.27	73.27	71.61	72.07	75.07	73.01	74.40	72.04	73.02	75.93	73.85	75.93	74.40	72.04	73.02	75.93

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

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

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

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

Sources: See end of Section 2.

Sources for Section 2 (International Oil Balance Data)

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

United States: Energy Information Administration (EIA), Petroleum Supply Annual 1997 and Petroleum Supply Monthly, May 1999.

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, December 1986.

Oil Stocks

United States: EIA, Petroleum Supply Annual 1997 and Petroleum Supply Monthly, May 1999.

Other OECD Countries: • Organization for Economic Cooperation and Development (OECD), Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Monthly Oil Statistics data base, 1990-1999. Stocks for Export and Afloat and Commercial Floating Stocks -- Petroleum Economics Limited, Oil Industry Developments, various issues.

Oil Demand

United States: EIA, Petroleum Supply Annual 1997 and Petroleum Supply Monthly, May 1999.

Other OECD Countries: • OECD, Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Monthly Oil Statistics data base, 1990-1999.

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, (1998 Average)
(Million Barrels per Day)

	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..	22.435	7.919	-0.969	1.878	2.888	1.831	2.290	9.452	-0.900	5.406
Imports from OPEC ^{5/}	16.938	6.697	.212	1.029	.656	1.421	3.378	4.789	.294	4.467
Imports from Persian Gulf ^{6/}										
Total.....	10.516	3.953	.107	.730	.163	.658	2.296	2.091	.097	4.132
Bahrain.....	.021	.004	.000	.002	.000	.002	.000	.000	-	.016
Iran.....	1.482	1.006	.009	.157	.020	.273	.547	.000	.000	.473
Iraq.....	1.116	.733	-	.171	.020	.108	.435	.334	.014	.018
Kuwait.....	1.070	.275	.025	.019	.016	.000	.215	.281	.000	.507
U.A.E.....	1.473	.020	.001	.012	.000	.000	.007	.000	-	1.402
Qatar.....	.468	.000	.000	.000	.000	.000	.000	.004	-	.450
Saudi Arabia.....	4.887	1.915	.073	.369	.106	.274	1.093	1.472	.084	1.268
Imports from OPEC-Africa										
Total.....	3.744	2.512	.077	.301	.447	.723	.963	.971	.094	.025
Algeria.....	1.078	.711	.021	.115	.127	.083	.365	.288	.071	.012
Libya.....	1.296	1.296	.046	.061	.277	.601	.311	.000	-	.000
Nigeria.....	1.371	.505	.011	.126	.043	.039	.287	.683	.023	.013
Imports from OPEC-South America										
Total.....	2.139	.213	.028	.000	.046	.020	.119	1.671	.103	.000
Venezuela.....	2.139	.213	.028	.000	.046	.020	.119	1.671	.103	.000
Imports from OPEC-Far East										
Total.....	.560	.024	-	.000	.000	.023	.000	.056	.000	.326
Indonesia.....	.560	.024	-	.000	.000	.023	.000	.056	.000	.326

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. *Zeros (.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 1998)
(Million Barrels per Day)

	OECD Europe				OECD Outside Europe						
	Total	United Kingdom	France	Germany ^{1/}	Italy	Other Europe ^{2/}	United States ^{3/}	Canada	Japan	Other ^{4/}	
Total											
Total Net Imports..	22.531										
Imports from OPEC ^{5/}	16.922										
Imports from Persian Gulf ^{6/}											
Total.....	10.523										
Bahrain.....	.022										
Iran.....	1.481										
Iraq.....	1.514										
Kuwait.....	1.036										
U.A.E.....	1.457										
Qatar.....	.403										
Saudi Arabia.....	4.610										
Imports from OPEC-Africa											
Total.....	3.600										
Algeria.....	1.106										
Libya.....	1.290										
Nigeria.....	1.204										
Imports from OPEC-South America											
Total.....	2.196										
Venezuela.....	2.196										
Imports from OPEC-Far East											
Total.....	.625										
Indonesia.....	.625										

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. •Zeros (.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 1998)
(Million Barrels per Day)

	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..	23.222	8.214	-0.891	1.918	2.969	1.717	2.501	9.881	-0.803	5.396	0.535
Imports from OPEC ^{5/}	17.331	6.843	.215	1.130	.678	1.397	3.423	5.084	.300	4.452	.652
Imports from											
Persian Gulf ^{6/}											
Total.....	10.924	4.131	.103	.787	.175	.681	2.384	2.399	.106	4.052	.236
Bahrain.....	.015	.004	.000	.004	.000	.000	.000	.000	-	.012	.000
Iran.....	1.629	1.132	.011	.170	.031	.268	.652	.000	.000	.494	.002
Iraq.....	1.491	.949	-	.238	.014	.163	.533	.502	.000	.024	.016
Kuwait.....	1.061	.265	.022	.021	.017	.000	.205	.323	.000	.467	.005
U.A.E.....	1.437	.009	.000	.000	.000	.000	.009	-.002	-	1.382	.047
Qatar.....	.489	.000	.000	.000	.000	.000	.000	.005	-	.469	.015
Saudi Arabia.....	4.802	1.771	.070	.354	.113	.251	.984	1.570	.106	1.204	.151
Imports from											
OPEC-Africa											
Total.....	3.730	2.509	.085	.345	.456	.699	.923	.998	.082	.034	.106
Algeria.....	1.061	.694	.021	.116	.119	.090	.347	.293	.064	.014	-.003
Libya.....	1.300	1.300	.052	.057	.305	.582	.303	.000	-	-	.000
Nigeria.....	1.369	.515	.011	.172	.033	.027	.273	.706	.019	.020	.110
Imports from											
OPEC-South America											
Total.....	2.060	.192	.026	.000	.047	.003	.116	1.612	.111	.000	.144
Venezuela.....	2.060	.192	.026	.000	.047	.003	.116	1.612	.111	.000	.144
Imports from											
OPEC-Far East											
Total.....	.633	.014	-	.000	.000	.014	.000	.076	.000	.377	.166
Indonesia.....	.633	.014	-	.000	.000	.014	.000	.076	.000	.377	.166

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. *Zeros (.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)

1998

1999

	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb
Total.....	21.648	21.854	23.831	21.320	23.025	24.080	22.540	22.863	22.607	22.125	23.882	22.229
United States1/.....	8.775	9.369	9.876	9.715	10.152	10.049	9.426	9.680	9.792	9.091	9.285	9.580
Canada.....	-785	-930	-911	-977	-877	-777	-753	-867	-861	-982	-737	-1.090
OECD Europe2/.....	7.173	7.873	9.120	7.313	7.709	8.866	8.062	8.308	7.671	7.711	8.874	7.143
Main European Importers												
France.....	1.682	2.116	1.980	1.618	1.965	1.875	1.915	1.838	1.923	1.867	2.007	1.991
Germany3/.....	2.938	2.920	3.034	2.894	3.140	2.909	2.855	2.904	2.845	2.957	2.792	2.698
Italy.....	1.693	2.080	1.810	1.803	1.563	1.902	1.684	1.901	1.885	1.805	2.067	1.618
Spain.....	1.330	1.397	1.428	1.254	1.332	1.355	1.398	1.341	1.394	1.587	1.425	1.324
Netherlands.....	.757	.719	.887	.820	.694	.862	.724	.848	.727	.610	1.027	.636
European Net Exporters												
Norway.....	-3.528	-3.284	-2.701	-3.270	-3.063	-2.445	-2.939	-2.806	-2.974	-3.088	-2.827	-3.225
United Kingdom....	-999	-1.264	-629	-804	-848	-910	-915	-962	-1.167	-951	-1.046	-1.042
Smaller European Importers												
Austria.....	.236	.244	.243	.249	.250	.226	.245	.221	.236	.220	.229	.215
Belgium.....	.620	.637	.596	.594	.557	.612	.617	.603	.595	.641	.562	.685
Denmark.....	-.036	.055	.043	.003	-.035	.007	.019	-.025	-.008	-.033	.007	-.071
Ireland.....	.164	.134	.156	.123	.164	.138	.138	.142	.179	.147	.167	.163
Finland.....	.157	.146	.307	.152	.198	.227	.256	.277	.184	.166	.307	.175
Greece.....	.467	.461	.276	.385	.247	.430	.427	.364	.299	.374	.408	.406
Iceland.....	.017	.011	.018	.005	.033	.015	.021	.017	.021	.009	.018	.011
Luxembourg.....	.044	.043	.039	.038	.047	.037	.044	.045	.042	.050	.041	.043
Portugal.....	.314	.290	.354	.344	.292	.368	.317	.332	.360	.215	.409	.313
Sweden.....	.433	.440	.444	.351	.331	.355	.366	.388	.382	.336	.417	.377
Switzerland.....	.286	.283	.285	.311	.296	.258	.255	.271	.237	.275	.258	.251
Turkey.....	.602	.446	.551	.443	.548	.646	.635	.608	.510	.522	.606	.574
Japan.....	5.760	5.160	5.142	4.748	5.420	5.456	5.309	5.306	5.297	5.702	5.777	5.960
Other OECD.....	.725	.382	.605	.522	.621	.487	.495	.437	.707	.604	.683	.636

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. *Zeros (.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)

	1998												1999	
	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb		
Total.....	16.862	16.542	17.374	16.592	17.554	17.807	16.610	17.075	16.832	16.857	16.201	15.305		
United States1/....	4.712	4.756	5.029	4.869	5.305	5.208	4.728	5.044	4.777	4.474	4.713	5.043		
Canada.....	.269	.304	.365	.356	.292	.333	.273	.312	.302	.212	.419	.000		
OECD Europe2/.....	6.245	6.624	6.886	6.726	6.802	7.106	6.613	6.753	6.705	6.694	5.858	4.806		
Main European Importers														
France.....	.881	1.171	1.092	.945	1.098	1.177	1.113	.840	.976	1.109	NA	NA		
Germany3/.....	.571	.601	.732	.595	.722	.690	.620	.701	.668	.765	.699	.557		
Italy.....	1.228	1.518	1.429	1.423	1.437	1.490	1.260	1.525	1.494	1.311	1.560	1.195		
Spain.....	.872	.868	.811	.826	.870	.881	.789	.928	.870	.904	.879	.804		
Netherlands.....	.854	.643	.761	.920	.757	.884	.988	.896	.828	.934	.961	.716		
European Net Exporters														
Norway.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
United Kingdom....	.293	.156	.280	.294	.304	.167	.171	.160	.211	.189	.152	.110		
Smaller European Importers														
Austria.....	.130	.150	.133	.124	.103	.125	.141	.158	.158	.129	.088	.132		
Belgium.....	.257	.326	.381	.424	.319	.426	.348	.354	.309	.336	.241	.157		
Denmark.....	.024	.033	.068	.003	.031	.040	.032	.048	.033	.032	.031	.027		
Finland.....	.010	.000	.006	.009	.018	.000	.000	.001	.000	.001	.000	.000		
Greece.....	.343	.416	.288	.358	.326	.349	.431	.278	.322	.336	.374	.351		
Portugal.....	.154	.153	.225	.178	.231	.214	.145	.157	.225	.099	.150	.134		
Sweden.....	.108	.167	.126	.151	.118	.103	.024	.091	.091	.058	.158	.090		
Switzerland.....	.082	.102	.098	.107	.111	.106	.097	.113	.093	.109	.095	.090		
Turkey.....	.437	.320	.457	.368	.356	.453	.452	.501	.426	.381	.430	.442		
Japan.....	4.902	4.277	4.367	3.992	4.440	4.532	4.383	4.358	4.344	4.675	4.573	4.809		
Other OECD.....	.734	.581	.727	.649	.715	.628	.612	.608	.704	.803	.638	.646		

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.

NA=Not available.

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.

*Zeros (0.000) 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)

1998

1999

	Mar	Apr	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb
Total.....	10.232	10.392	10.802	10.161	10.894	11.129	10.743	10.270	10.762	10.543	9.725	9.840
United States ¹ /.....	1.950	1.979	1.902	2.184	2.331	2.482	2.382	2.154	2.149	2.114	2.111	2.393
Canada.....	.067	.070	.139	.170	.107	.185	.024	.140	.151	.034	.165	.000
OECD Europe ² /.....	3.427	4.091	4.427	3.933	4.159	4.157	4.075	3.799	4.134	3.907	3.093	2.735
Main European Importers												
France.....	.513	.851	.913	.712	.824	.734	.805	.571	.706	.694	NA	NA
Germany ³ /.....	.115	.178	.202	.150	.193	.154	.177	.206	.141	.204	.171	.151
Italy.....	.446	.688	.740	.619	.714	.694	.635	.778	.764	.658	.616	.598
Spain.....	.370	.471	.487	.387	.502	.454	.324	.367	.458	.404	.390	.398
Netherlands.....	.679	.496	.601	.729	.602	.747	.825	.696	.685	.785	.805	.571
European Net Exporters												
Norway.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	-	-
United Kingdom....	.180	.102	.177	.135	.139	.082	.089	.056	.123	.064	.082	.028
Smaller European Importers												
Austria.....	.069	.057	.089	.035	.044	.023	.054	.049	.061	.058	.008	.052
Belgium.....	.239	.311	.353	.359	.294	.373	.316	.289	.267	.307	.191	.093
Denmark.....	.000	.008	.021	.003	.000	.015	.013	.024	.001	.000	.000	.000
Finland.....	.000	.000	.000	.000	.018	.000	.000	.000	.000	.000	.000	.000
Greece.....	.311	.399	.254	.330	.311	.300	.395	.275	.320	.302	.356	.301
Portugal.....	.136	.121	.151	.102	.195	.157	.114	.096	.194	.099	.084	.133
Sweden.....	.072	.136	.081	.106	.068	.062	.000	.063	.070	.058	.131	.075
Switzerland.....	.009	.017	.017	.010	.018	.013	.006	.010	.005	.000	.000	.000
Turkey.....	.289	.257	.341	.256	.238	.349	.322	.319	.337	.273	.257	.336
Japan.....	4.545	4.032	4.084	3.659	4.073	4.067	4.015	4.030	3.985	4.322	4.163	4.522
Other OECD.....	.242	.220	.250	.215	.224	.238	.247	.147	.343	.167	.193	.190

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.

NA=Not available.

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)

	1998												1999
	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb	
Total Net Imports..	8.775	9.369	9.876	9.715	10.152	10.049	9.426	9.680	9.792	9.091	9.285	9.580	
Imports from OPEC ^{1/}	4.712	4.756	5.029	4.869	5.305	5.208	4.728	5.044	4.777	4.474	4.713	5.043	
Imports from													
Persian Gulf ^{2/}													
Total.....	1.950	1.979	1.902	2.184	2.331	2.482	2.382	2.154	2.149	2.114	2.111	2.393	
Bahrain.....	-.003	-.003	.017	-.003	.000	.000	.000	.000	.000	.000	.000	.000	
Iran.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
Iraq.....	.127	.233	.137	.270	.277	.713	.517	.647	.542	.486	.471	.681	
Kuwait.....	.307	.262	.399	.275	.435	.273	.259	.230	.224	.228	.132	.205	
U.A.E.....	.011	.017	-.003	-.003	-.003	-.002	.000	-.006	-.003	-.002	-.003	-.003	
Qatar.....	.000	.000	.000	.015	.015	.000	.000	.000	.000	.000	.000	.000	
Saudi Arabia.....	1.508	1.470	1.352	1.630	1.607	1.498	1.606	1.283	1.386	1.402	1.511	1.510	
Imports from													
OPEC-Africa													
Total.....	1.056	1.108	1.229	1.132	1.180	1.000	.808	.917	.793	.690	.919	.890	
Algeria.....	.244	.336	.330	.362	.308	.264	.306	.289	.219	.200	.240	.203	
Libya.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
Nigeria.....	.812	.772	.899	.770	.872	.736	.502	.628	.574	.490	.679	.687	
Imports from													
OPEC-South America													
Total.....	1.653	1.622	1.894	1.551	1.698	1.668	1.465	1.890	1.670	1.639	1.604	1.694	
Venezuela.....	1.653	1.622	1.894	1.551	1.698	1.668	1.465	1.890	1.670	1.639	1.604	1.694	
Imports from													
OPEC-Far East													
Total.....	.050	.044	.021	-.001	.096	.058	.073	.083	.165	.031	.079	.066	
Indonesia.....	.050	.044	.021	-.001	.096	.058	.073	.083	.165	.031	.079	.066	

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. *Zeros (.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)

1998

1999

	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb
Total Net Imports..	5.760	5.160	5.142	4.748	5.420	5.456	5.309	5.306	5.297	5.702	5.777	5.960
Imports from OPEC ^{1/}	4.902	4.277	4.367	3.992	4.440	4.532	4.383	4.358	4.344	4.675	4.573	4.809
Imports from												
Persian Gulf ^{2/}												
Total.....	4.545	4.032	4.084	3.659	4.073	4.067	4.015	4.030	3.985	4.322	4.163	4.522
Bahrain.....	.000	.013	.012	.017	.008	.016	.010	.028	.022	.015	.020	.031
Iran.....	.532	.282	.302	.454	.424	.581	.477	.432	.416	.761	.418	.584
Iraq.....	.000	.000	.000	.000	.000	.000	.073	.103	.032	.000	.000	.036
Kuwait.....	.611	.437	.531	.421	.443	.478	.482	.501	.505	.510	.492	.602
U.A.E.....	1.336	1.606	1.341	1.161	1.459	1.338	1.349	1.395	1.297	1.488	1.502	1.411
Qatar.....	.571	.482	.487	.334	.474	.504	.428	.387	.462	.361	.457	.422
Saudi Arabia.....	1.496	1.211	1.409	1.272	1.265	1.149	1.196	1.184	1.250	1.185	1.273	1.436
Imports from												
OPEC-Africa												
Total.....	.000	.019	.000	.034	.017	.041	.045	.096	.028	.000	.138	.014
Algeria.....	.000	.019	.000	.034	.017	.000	.025	.006	.028	.000	.050	.000
Nigeria.....	.000	.000	.000	.000	.000	.041	.020	.090	.000	.000	.088	.014
Imports from												
OPEC-South America												
Total.....	.000	.000	.000	.000	.001	.001	.000	.000	.000	.000	.000	.000
Venezuela.....	.000	.000	.000	.000	.001	.001	.000	.000	.000	.000	.000	.000
Imports from												
OPEC-Far East												
Total.....	.356	.239	.295	.316	.357	.439	.334	.260	.353	.369	.292	.305
Indonesia.....	.356	.239	.295	.316	.357	.439	.334	.260	.353	.369	.292	.305

^{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)

	1998												1999	
	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb		
Total Net Imports..	7.173	7.873	9.120	7.313	7.709	8.866	8.062	8.308	7.671	7.711	8.874	7.143		
Imports from OPEC1/	6.245	6.624	6.886	6.726	6.802	7.106	6.613	6.753	6.705	6.694	5.858	4.806		
Imports from Persian Gulf2/														
Total.....	3.427	4.091	4.427	3.933	4.159	4.157	4.075	3.799	4.134	3.907	3.093	2.735		
Bahrain.....	.000	.000	.000	.000	.000	.001	.011	.001	.000	.000	.000	.000		
Iran.....	.861	.958	1.173	1.151	1.250	1.089	1.056	.950	1.044	.839	.881	.983		
Iraq.....	.562	.835	.837	.451	.884	1.057	.904	.764	.762	.969	.512	.493		
Kuwait.....	.364	.151	.272	.297	.145	.265	.391	.305	.188	.395	.269	.197		
U.A.E.....	.000	.042	.009	.070	.022	.000	.004	.000	.000	.084	.000	.000		
Qatar.....	.000	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000	.000		
Saudi Arabia.....	1.640	2.105	2.136	1.965	1.857	1.746	1.709	1.780	2.139	1.620	1.431	1.063		
Imports from OPEC-Africa														
Total.....	2.566	2.341	2.161	2.453	2.440	2.729	2.354	2.645	2.327	2.639	2.566	1.771		
Algeria.....	.836	.535	.598	.623	.675	.699	.709	.752	.751	.848	.749	.402		
Libya.....	1.256	1.379	1.307	1.290	1.329	1.354	1.214	1.330	1.235	1.302	1.287	1.129		
Nigeria.....	.474	.427	.256	.541	.436	.676	.432	.563	.341	.489	.530	.240		
Imports from OPEC-South America														
Total.....	.198	.154	.277	.313	.180	.202	.195	.305	.236	.146	.198	.300		
Venezuela.....	.198	.154	.277	.313	.180	.202	.195	.305	.236	.146	.198	.300		
Imports from OPEC-Far East														
Total.....	.054	.037	.021	.026	.024	.018	.000	.004	.008	.001	.001	.000		
Indonesia.....	.054	.037	.021	.026	.024	.018	.000	.004	.008	.001	.001	.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 for France in January and February 1999 are not available. *"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)

	1998						1999					
	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb
Total Net Imports..	1.682	2.116	1.980	1.618	1.965	1.875	1.915	1.838	1.923	1.867	2.007	1.991
Imports from OPEC1/	.881	1.171	1.092	.945	1.098	1.177	1.113	.840	.976	1.109	NA	NA
Imports from Persian Gulf2/												
Total.....	.513	.851	.913	.712	.824	.734	.805	.571	.706	.694	NA	NA
Bahrain.....	.000	.000	.000	.000	.000	.001	.011	.001	.000	.000	NA	NA
Iran.....	.159	.099	.229	.164	.261	.148	.100	.118	.155	.132	NA	NA
Iraq.....	.062	.294	.193	.167	.214	.247	.254	.125	.104	.189	NA	NA
Kuwait.....	.006	.000	.066	.000	.000	.000	.065	.003	.000	.000	NA	NA
U.A.E.....	.000	.016	.000	.061	.000	.000	.000	.000	.000	.059	NA	NA
Qatar.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	NA	NA
Saudi Arabia.....	.287	.442	.424	.321	.349	.339	.375	.324	.447	.313	NA	NA
Imports from OPEC-Africa												
Total.....	.368	.320	.178	.232	.274	.443	.319	.269	.269	.416	NA	NA
Algeria.....	.191	.120	.062	.048	.093	.137	.120	.124	.174	.122	NA	NA
Libya.....	.059	.103	.085	.020	.047	.061	.063	.025	.060	.141	NA	NA
Nigeria.....	.118	.096	.031	.164	.134	.245	.136	.121	.035	.153	NA	NA
Imports from OPEC-South America												
Total.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	-	-
Venezuela.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	-	-
Imports from OPEC-Far East												
Total.....	.000	.000	.001	.001	.001	.001	.000	.001	.000	.000	.000	.000
Indonesia.....	.000	.000	.001	.001	.001	.001	.000	.001	.000	.000	.000	.000

1/ OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.
2/ The Persian Gulf countries are all members of OPEC, except for Bahrain.

NA=Not available.

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. *Zeros (.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)

	1998												1999
	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb	
Total Net Imports..	2.938	2.920	3.034	2.894	3.140	2.909	2.855	2.904	2.845	2.957	2.792	2.698	
Imports from OPEC1/	.571	.601	.732	.595	.722	.690	.620	.701	.668	.765	.699	.557	
Imports from Persian Gulf2/													
Total.....	.115	.178	.202	.150	.193	.154	.177	.206	.141	.204	.171	.151	
Bahrain.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
Iran.....	.027	.014	.017	.011	.045	.021	.026	.046	.020	.010	.000	.006	
Iraq.....	.000	.034	.027	.013	.018	.011	.014	.023	.018	.078	.085	.036	
Kuwait.....	.016	.021	.024	.027	.014	.014	.022	.016	.005	.016	.010	.012	
U.A.E.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
Qatar.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
Saudi Arabia.....	.072	.109	.135	.099	.116	.109	.115	.122	.098	.100	.076	.097	
Imports from OPEC-Africa													
Total.....	.410	.368	.429	.402	.479	.483	.405	.403	.519	.531	.514	.368	
Algeria.....	.150	.050	.139	.131	.120	.158	.077	.097	.214	.169	.122	.079	
Libya.....	.252	.275	.260	.256	.333	.290	.292	.287	.240	.311	.333	.270	
Nigeria.....	.008	.043	.030	.015	.026	.035	.037	.019	.065	.050	.059	.019	
Imports from OPEC-South America													
Total.....	.046	.055	.100	.044	.050	.053	.038	.092	.008	.030	.015	.039	
Venezuela.....	.046	.055	.100	.044	.050	.053	.038	.092	.008	.030	.015	.039	
Imports from OPEC-Far East													
Total.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
Indonesia.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	

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

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

Notes: *Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. *The data for Germany are for the unified Germany, i.e., the former East Germany and West Germany. *Negative numbers represent net exports.

*A dash (-) indicates no trade. *Zeros (.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)

	1998												1999	
	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb		
Total Net Imports...	1.693	2.080	1.810	1.803	1.563	1.902	1.684	1.901	1.885	1.805	2.067	1.618		
Imports from OPEC ^{1/}	1.228	1.518	1.429	1.423	1.437	1.490	1.260	1.525	1.494	1.311	1.560	1.195		
Imports from														
Persian Gulf ^{2/}														
Total.....	.446	.688	.740	.619	.714	.694	.635	.778	.764	.658	.616	.598		
Bahrain.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
Iran.....	.197	.252	.333	.329	.273	.256	.276	.394	.279	.306	.332	.356		
Iraq.....	.068	.108	.133	.075	.149	.153	.187	.130	.123	.099	.082	.080		
Kuwait.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
U.A.E.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
Qatar.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
Saudi Arabia.....	.181	.328	.273	.216	.293	.285	.171	.254	.362	.253	.203	.162		
Imports from														
OPEC-Africa														
Total.....	.719	.778	.662	.711	.700	.778	.617	.737	.678	.642	.936	.597		
Algeria.....	.057	.080	.048	.076	.091	.100	.079	.072	.062	.102	.185	.105		
Libya.....	.629	.698	.607	.626	.567	.647	.530	.618	.578	.505	.627	.485		
Nigeria.....	.032	.000	.006	.010	.042	.031	.007	.047	.038	.035	.124	.008		
Imports from														
OPEC-South America														
Total.....	.010	.016	.007	.067	.000	.000	.009	.007	.044	.011	.007	.000		
Venezuela.....	.010	.016	.007	.067	.000	.000	.009	.007	.044	.011	.007	.000		
Imports from														
OPEC-Far East														
Total.....	.054	.037	.020	.025	.023	.018	.000	.003	.007	.000	.000	.000		
Indonesia.....	.054	.037	.020	.025	.023	.018	.000	.003	.007	.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. *Zeros (.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)

	1998												1999	
	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb		
Total.....	0.693	1.076	1.029	0.744	1.170	1.793	1.510	1.597	1.408	1.533	1.030	1.252		
United States ¹ /.....	.127	.233	.137	.270	.277	.713	.517	.647	.542	.486	.471	.681		
Canada.....	.000	.000	.050	.014	.000	.000	.000	.062	.000	.034	.032	.000		
OECD Europe ² /.....	.562	.835	.837	.451	.884	1.057	.904	.764	.762	.969	.512	.493		
Main European Importers														
France.....	.062	.294	.193	.167	.214	.247	.254	.125	.104	.189	NA	NA		
Germany ³ /.....	.000	.034	.027	.013	.018	.011	.014	.023	.018	.078	.085	.036		
Italy.....	.068	.108	.133	.075	.149	.153	.187	.130	.123	.099	.082	.080		
Spain.....	.129	.102	.099	.097	.223	.195	.097	.125	.165	.134	.129	.144		
Netherlands.....	.088	.129	.168	.015	.082	.143	.136	.162	.112	.197	.143	.107		
Smaller European Importers														
Austria.....	.043	.044	.037	.013	.022	.000	.046	.003	.050	.049	.000	.022		
Belgium.....	.049	.050	.005	.000	.076	.127	.083	.041	.055	.055	.068	.001		
Greece.....	.016	.000	.030	.000	.000	.032	.011	.011	.011	.045	.000	.000		
Portugal.....	.053	.000	.032	.032	.065	.030	.000	.000	.030	.064	.000	.037		
Switzerland.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
Turkey.....	.055	.074	.112	.040	.036	.118	.075	.144	.093	.060	.004	.067		
Japan.....	.000	.000	.000	.000	.000	.000	.073	.103	.032	.000	.000	.036		
Other OECD.....	.005	.008	.004	.009	.009	.023	.017	.021	.072	.044	.015	.042		

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.

NA=Not available.

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. *Zeros (.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)

1998

1999

	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb
Total.....	1.293	0.862	1.205	0.996	1.026	1.018	1.142	1.036	0.934	1.136	0.894	1.006
United States ¹ /.....	.307	.262	.399	.275	.435	.273	.259	.230	.224	.228	.132	.205
Canada.....	.000	.000	.000	.000	.000	.000	.000	.000	.005	.000	.000	.000
OECD Europe ² /.....	.364	.151	.272	.297	.145	.265	.391	.305	.188	.395	.269	.197
Main European Importers												
France.....	.006	.000	.066	.000	.000	.000	.065	.003	.000	.000	NA	NA
Germany ³ /.....	.016	.021	.024	.027	.014	.014	.022	.016	.005	.016	.010	.012
Italy.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Spain.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.003	.000	.000
Netherlands.....	.253	.102	.082	.199	.082	.209	.205	.199	.106	.301	.229	.168
European Net Exporters												
Norway.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	-	-
United Kingdom...	.070	.008	.064	.048	.031	.020	.015	.006	.028	.000	.000	.000
Smaller European Importers												
Belgium.....	.000	.000	.000	.000	.000	.000	.031	.045	.029	.059	.015	.000
Denmark.....	.000	.008	.021	.003	.000	.015	.012	.022	.001	.000	.000	.000
Finland.....	.000	.000	.000	.000	.018	.000	.000	.000	.000	.000	.000	.000
Greece.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	-	-
Sweden.....	.004	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000
Switzerland.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	-	-
Turkey.....	.015	.011	.015	.020	.000	.008	.040	.014	.018	.016	.015	.017
Japan.....	.611	.437	.531	.421	.443	.478	.482	.501	.505	.510	.492	.602
Other OECD.....	.012	.011	.003	.002	.003	.002	.011	.001	.011	.002	.001	.002

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.

NA=Not available.

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

Sources: See end of Section 3.

Sources for Section 3 (International Oil Imports)

Oil Imports

United States: • Energy Information Administration (EIA), Petroleum Supply Annual 1997 and Petroleum Supply Monthly, May 1999. Other OECD Countries: • Organization for Economic Cooperation and Development (OECD), Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Monthly Oil Statistics data base, 1991-1999.

4. Historical Oil Data Series

1970-1998

Table 4.1a World Crude Oil Production (Including Lease Condensate), 1970-1998
(Thousand Barrels per Day)

	Algeria	Indonesia	Iran	Iraq	Kuwait ¹	Libya	Nigeria	Qatar	Saudi Arabia ¹	United Arab Emirates	Venezuela	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	R2,001	510	8,218	2,278	R2,938	R26,461
1997 Average.....	1,277	R1,520	3,664	R1,155	2,083	1,446	R2,332	649	8,562	2,316	3,315	R28,320
1998 Average P.....	1,246	1,518	3,634	2,150	2,085	1,378	2,153	696	8,389	2,345	3,167	28,762

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. R=Revised data.

Notes: *OPEC=Organization of Petroleum Exporting Countries.

Sources: See end of Section 4.

Table 4.1b World Crude Oil Production (Including Lease Condensate), 1970-1998
(Thousand Barrels per Day)

	Norway	United Kingdom	North Sea/ Seal/	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.....	R3,143	R2,518	R5,830	R714	R834	588	R841	R1,922	3,200	R652	R388
1998 Average P.....	3,017	2,616	5,804	735	847	544	971	1,981	3,198	759	377

1/ North Sea includes the United Kingdom Offshore, Norway, Denmark, Netherlands Offshore, and Germany Offshore.
P=Preliminary. R=Revised data.
Sources: See end of Section 4.

Table 4.1c World Crude Oil Production (Including Lease Condensate), 1970-1998
(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	--	--	481	7,171	R3,229	R60,213
1993 Average.....	890	313	534	640	2,673	776	--	--	554	6,847	R3,279	R60,236
1994 Average.....	896	329	590	645	2,685	810	--	--	560	6,662	R3,380	R60,991
1995 Average.....	920	365	703	682	2,618	851	--	--	575	6,560	R3,414	R62,335
1996 Average.....	922	368	651	695	2,855	883	--	--	R582	6,465	R3,490	R63,711
1997 Average.....	R856	R370	675	746	3,023	R904	--	--	561	6,452	R3,793	R66,420
1998 Average P....	866	361	661	733	3,070	900	--	--	553	6,243	3,732	66,865

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), 1980-1998
(Thousand Barrels per Day)

	Algeria	Indo- nesia	Iran	Iraq	Kuwait ¹ / Libya	Nigeria	Qatar	Saudi Arabia ¹ / Emirates	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	26,390
1981 Average...	802	1,513	1,380	1,000	1,125	1,140	1,423	405	9,815	1,469	22,155
1982 Average...	712	1,247	2,214	1,012	823	1,150	1,285	330	9,815	1,215	18,349
1983 Average...	648	1,245	2,440	1,005	1,064	1,105	1,231	295	5,086	1,109	16,996
1984 Average...	694	1,279	2,174	1,209	1,157	1,087	1,368	394	4,663	1,091	16,805
1985 Average...	702	1,181	2,250	1,433	1,023	1,059	1,475	301	3,388	1,133	15,503
1986 Average...	600	1,257	2,035	1,690	1,419	1,034	1,447	308	4,870	1,270	17,575
1987 Average...	648	1,189	2,298	2,079	1,585	972	1,291	293	4,265	1,441	17,648
1988 Average...	640	1,177	2,240	2,685	1,492	1,175	1,400	346	5,086	1,465	19,421
1989 Average...	690	1,231	2,810	2,897	1,783	1,150	1,666	380	5,064	1,783	21,201
1990 Average...	765	1,281	3,088	2,040	1,175	1,375	1,755	406	6,410	2,066	22,461
1991 Average...	800	1,410	3,312	305	190	1,483	1,832	395	8,115	2,326	22,506
1992 Average...	772	1,326	3,429	425	1,058	1,433	1,820	423	8,332	2,206	23,558
1993 Average...	747	1,327	3,540	512	1,852	1,361	1,835	413	8,198	2,109	24,304
1994 Average...	750	1,334	3,583	548	2,025	1,378	1,821	380	8,120	2,113	24,594
1995 Average...	767	1,343	3,608	555	2,057	1,390	1,878	407	8,231	2,148	25,094
1996 Average...	812	1,367	3,651	574	2,062	1,401	1,885	475	8,218	2,198	25,541
1997 Average...	847	1,355	3,629	1,150	2,083	1,446	2,217	614	8,562	2,236	27,414
1998 Average P.	816	1,338	3,599	2,145	2,085	1,378	2,043	661	8,389	2,265	27,847

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. R=Revised data.

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, 1970-1998
(Thousand Barrels per Day)

	Algeria	Canada	Mexico	Saudi Arabia	Russia	Former USSR	United States ¹	Persian Gulf ²	OPEC 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	--	--	1,697	1,003	1,185	1,364	4,974
1993 Average.....	145	506	459	704	--	--	1,736	1,040	1,238	1,435	5,180
1994 Average.....	140	529	461	698	--	--	1,727	1,071	1,267	1,465	5,292
1995 Average.....	145	581	447	701	--	--	1,762	1,106	1,301	1,506	5,485
1996 Average.....	150	596	423	697	--	--	1,830	1,082	1,295	1,501	5,580
1997 Average.....	R160	R636	R388	R712	R195	--	1,817	R1,158	R1,390	R1,614	R5,750
1998 Average P....	R155	651	424	711	230	--	1,753	1,161	R1,395	R1,608	R5,777

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

2/ See Appendix A for countries in this group.

3/ OPEC=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.

Sources: See end of Section 4.

Table 4.4 World Oil Supply, 1970-1998
(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.....	10,788	12,815	13,786	19,702	58,225
1983 Average.....	11,107	11,433	12,416	18,352	58,054
1984 Average.....	11,192	10,320	11,498	17,151	59,262
1985 Average.....	10,905	12,441	13,653	19,310	61,769
1986 Average.....	10,648	12,869	13,992	19,589	62,427
1987 Average.....	10,473	14,310	15,662	21,465	64,705
1988 Average.....	9,880	15,733	16,658	23,323	65,892
1989 Average.....	9,677	16,249	17,232	24,536	66,754
1990 Average.....	9,883	15,704	16,747	24,625	66,632
1991 Average.....	9,768	17,010	17,871	25,818	66,961
1992 Average.....	9,602	17,792	18,505	26,610	67,348
1993 Average.....	9,413	18,072	18,745	27,031	68,228
1994 Average.....	9,400	18,351	19,069	27,566	69,837
1995 Average.....	9,445	18,486	R19,237	R28,018	R71,394
1996 Average.....	9,461	R19,665	R20,453	R29,990	R74,343
1997 Average.....	9,241	20,532	R21,246	R30,426	R74,902
1998 Average P.....					

^{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	113	1,181	1,617	119	603	65	3,588
1992 December.....	146	174	310	113	1,219	1,592	107	606	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.....	164	147	298	105	1,256	1,560	115	685	74	3,689
1998 December P....	161	153	321	108	1,317	1,647	118	649	66	3,797

1/ Data through December 1990 are for the former East Germany and 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, 1970-1998
(Thousand Barrels per Day)

	France	Italy	Germany ¹ / Kingdom	OECD Europe ² / States ³ / United	Canada	Japan	Other ⁴ / Germany	OECD Excluding East Germany	OECD Including East Germany	World Total
1970 Average...	1,937	1,710	2,607	12,404	14,697	1,516	3,817	836	33,270	46,808
1971 Average...	2,115	1,838	2,702	13,005	15,213	1,565	4,142	831	34,755	49,416
1972 Average...	2,322	1,947	2,859	13,934	16,367	1,664	4,363	948	37,275	53,094
1973 Average...	2,601	2,068	3,055	14,925	17,308	1,729	4,949	988	39,900	57,237
1974 Average...	2,447	2,004	2,748	13,988	16,653	1,779	4,864	1,095	38,379	56,677
1975 Average...	2,252	1,855	2,650	13,217	16,322	1,779	4,621	1,041	36,980	56,198
1976 Average...	2,420	1,971	2,877	14,124	17,461	1,818	4,837	1,119	39,358	59,673
1977 Average...	2,294	1,897	2,865	13,916	18,431	1,850	4,880	1,160	40,584	61,826
1978 Average...	2,408	1,952	2,927	14,290	18,847	1,902	4,945	1,204	41,550	64,158
1979 Average...	2,463	2,039	3,003	14,667	18,513	1,971	5,050	1,178	41,379	65,220
1980 Average...	2,256	1,934	2,707	13,634	17,056	1,873	4,960	1,072	38,595	63,067
1981 Average...	2,023	1,874	2,449	12,515	16,058	1,768	4,848	1,080	36,269	60,903
1982 Average...	1,880	1,781	2,372	12,053	15,296	1,578	4,582	1,008	34,517	59,503
1983 Average...	1,835	1,750	2,324	11,765	15,231	1,448	4,395	953	33,793	58,739
1984 Average...	1,754	1,646	2,322	11,736	15,726	1,472	4,576	990	34,500	59,831
1985 Average...	1,775	1,717	2,338	11,681	15,726	1,504	4,384	976	34,633	60,091
1986 Average...	1,772	1,738	2,498	12,102	16,281	1,506	4,439	951	35,279	61,759
1987 Average...	1,789	1,855	2,424	12,255	16,665	1,548	4,484	959	36,253	62,999
1988 Average...	1,797	1,836	2,422	12,427	17,283	1,693	4,752	939	37,093	64,819
1989 Average...	1,857	1,930	2,280	12,531	17,325	1,733	4,983	998	37,570	65,917
1990 Average...	1,818	1,872	2,382	12,629	16,988	1,690	5,140	1,027	37,475	65,917
1991 Average...	1,935	1,863	2,828	13,391	16,714	1,622	5,284	1,056	38,067	66,567
1992 Average...	1,926	1,937	2,843	13,605	17,033	1,643	5,446	1,041	38,768	66,736
1993 Average...	1,875	1,852	2,900	13,523	17,237	1,688	5,401	1,118	38,967	66,988
1994 Average...	1,833	1,841	2,879	13,597	17,718	1,727	5,674	1,174	39,890	68,302
1995 Average...	1,896	2,048	2,875	14,120	17,725	1,755	5,711	1,243	40,553	69,888
1996 Average...	1,935	2,058	2,911	14,269	18,309	1,797	5,867	1,191	41,432	71,322
1997 Average...	1,955	2,045	2,903	14,433	18,620	1,857	5,711	1,229	41,850	73,008
1998 Average P.	2,019	2,062	2,908	14,690	18,684	1,881	5,509	1,229	41,992	73,847

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, 1988-1998
(Million Barrels per Day)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
	Average										
Total.....	18.707	20.082	20.456	20.414	20.783	21.226	21.133	20.717	21.456	22.081	22.435
United States ¹ /.....	6.587	7.202	7.161	6.626	6.938	7.618	8.054	7.886	8.498	9.158	9.452
Canada.....	-.585	-.462	-.425	-.479	-.546	-.586	-.623	-.756	-.803	-.819	-.900
OECD Europe ² /.....	7.774	7.994	8.210	8.588	8.459	8.127	7.355	7.226	7.339	7.340	7.919
Main European Importers											
France.....	1.718	1.711	1.750	1.869	1.784	1.761	1.615	1.721	1.738	1.769	1.878
Germany ³ /.....	2.278	2.112	2.202	2.664	2.739	2.723	2.731	2.699	2.793	2.804	2.888
Italy.....	1.590	1.716	1.788	1.769	1.839	1.747	1.778	1.820	1.791	1.795	1.831
Netherlands.....	.646	.635	.677	.690	.713	.688	.720	.700	.763	.773	.781
Spain.....	.869	.952	.950	.951	.998	1.066	1.119	1.202	1.183	1.273	1.365
European Net Exporters											
Norway.....	-1.036	-1.420	-1.543	-1.825	-2.102	-2.254	-2.586	-2.794	-3.150	-3.176	-3.043
United Kingdom....	-.760	-.200	-.214	-.158	-.221	-.355	-.850	-.969	-.839	-.968	-.969
Smaller European Importers											
Austria.....	.185	.191	.201	.212	.209	.205	.210	.194	.213	.223	.235
Belgium.....	.451	.454	.442	.506	.517	.503	.517	.495	.572	.590	.614
Denmark.....	.107	.078	.063	.048	.032	.023	.027	.039	.028	-.006	-.003
Ireland.....	.076	.079	.095	.094	.097	.102	.109	.116	.124	.133	.148
Finland.....	.200	.220	.208	.211	.188	.182	.234	.145	.180	.186	.211
Greece.....	.242	.252	.273	.297	.326	.327	.292	.343	.350	.361	.380
Iceland.....	.012	.011	.011	.012	.011	.014	.015	.015	.015	.016	.017
Luxembourg.....	.028	.031	.034	.039	.040	.039	.040	.036	.039	.040	.043
Portugal.....	.198	.246	.250	.258	.279	.272	.270	.291	.274	.296	.322
Sweden.....	.313	.290	.324	.312	.320	.335	.362	.356	.405	.371	.384
Switzerland.....	.258	.254	.273	.273	.277	.250	.262	.248	.260	.269	.278
Turkey.....	.397	.384	.425	.366	.413	.500	.490	.569	.600	.589	.558
Japan.....	4.680	5.035	5.239	5.286	5.464	5.467	5.766	5.716	5.790	5.819	5.406
Other OECD.....	.250	.313	.270	.392	.467	.599	.581	.644	.632	.583	.558

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. *Zeros (.000) indicate net imports of less than 0.0005 million barrels per day.

*Data for 1997 are preliminary.

Sources: See end of Section 4.

Table 4.8 OECD Imports from OPEC, 1988-1998
(Million Barrels per Day)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total.....	13.049	14.521	15.576	15.360	15.567	16.018	15.765	15.469	15.630	16.540	16.938
United States1/.....	3.439	3.986	4.172	3.918	3.888	4.103	4.036	3.979	4.194	4.542	4.789
Canada.....	.161	.205	.199	.210	.210	.268	.285	.257	.261	.312	.294
OECD Europe2/.....	5.842	6.188	6.633	6.728	6.758	6.794	6.385	6.154	6.053	6.260	6.697
Main European Importers											
France.....	.737	.875	1.101	1.021	.932	1.006	.956	.911	.897	.899	1.029
Germany3/.....	.761	.739	.771	.859	.957	.948	.838	.711	.660	.645	.656
Italy.....	1.191	1.260	1.375	1.393	1.343	1.222	1.117	1.203	1.244	1.353	1.421
Netherlands.....	.850	.892	.850	.900	.914	.982	.906	.791	.779	.774	.849
Spain.....	.604	.686	.652	.700	.632	.582	.668	.781	.775	.789	.867
European Net Exporters											
Norway.....	.002	.003	.007	.014	.004	.005	.003	.003	.001	.003	.000
United Kingdom....	.322	.342	.406	.377	.390	.439	.306	.254	.234	.199	.212
Smaller European Importers											
Austria.....	.082	.086	.097	.108	.115	.128	.119	.057	.023	.130	.131
Belgium.....	.302	.353	.313	.362	.359	.359	.284	.276	.284	.292	.341
Denmark.....	.067	.069	.044	.006	.001	.006	.008	.022	.027	.031	.033
Ireland.....	-	-	.000	.000	.000	.000	.000	.000	.000	.000	-
Finland.....	.011	.013	.013	.029	.033	.007	.004	.004	.001	.006	.004
Greece.....	.233	.244	.340	.298	.346	.303	.266	.263	.280	.317	.350
Portugal.....	.118	.156	.166	.139	.152	.166	.227	.209	.177	.188	.181
Sweden.....	.074	.064	.073	.105	.116	.123	.126	.109	.091	.096	.100
Switzerland.....	.051	.021	.036	.052	.051	.063	.082	.083	.098	.096	.102
Turkey.....	.439	.384	.388	.365	.412	.452	.475	.477	.483	.442	.419
Japan.....	3.309	3.788	4.062	4.026	4.198	4.245	4.495	4.467	4.470	4.699	4.467
Other OECD.....	.298	.355	.510	.478	.512	.609	.563	.612	.653	.727	.690

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. *Zeros (.000) indicate net imports of less than 0.0005 million barrels per day. *Data for 1997 are preliminary.

Sources: See end of Section 4.

Table 4.9 OECD Imports from Persian Gulf, 1988-1998
(Million Barrels per Day)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Average											
Imports from Persian Gulf											
Total.....	7.941	9.121	9.667	9.249	9.456	10.029	9.609	9.310	9.215	9.952	10.516
United States ^{1/} ...	1.526	1.857	1.961	1.835	1.774	1.775	1.722	1.563	1.594	1.747	2.091
Canada.....	.056	.069	.081	.084	.092	.105	.119	.070	.111	.120	.097
OECD Europe ^{2/}	3.428	3.754	3.908	3.660	3.666	4.048	3.506	3.365	3.171	3.469	3.953
Main European Importers											
France.....	.484	.647	.864	.708	.640	.757	.651	.647	.573	.617	.730
Germany ^{3/}	.197	.216	.217	.227	.215	.250	.217	.172	.145	.157	.163
Italy.....	.643	.619	.626	.595	.573	.548	.430	.494	.502	.583	.658
Netherlands.....	.587	.663	.647	.609	.650	.744	.662	.563	.566	.584	.676
Spain.....	.306	.352	.291	.281	.231	.287	.275	.324	.304	.359	.419
European Net Exporters											
Norway.....	-	-	.000	.011	.000	.000	.000	.000	.000	.000	.000
United Kingdom...	.212	.240	.250	.222	.220	.303	.174	.135	.102	.094	.107
Smaller European Importers											
Austria.....	.025	.022	.016	.021	.031	.036	.038	.035	.004	.045	.050
Belgium.....	.224	.277	.250	.279	.292	.291	.232	.252	.263	.259	.307
Denmark.....	.063	.067	.043	.004	.000	.002	.000	.000	.000	.002	.007
Finland.....	.011	.012	.011	.021	.023	.002	.002	.002	.000	.000	.001
Greece.....	.146	.181	.268	.219	.291	.253	.214	.223	.235	.282	.322
Portugal.....	.066	.085	.073	.067	.074	.050	.117	.107	.083	.106	.134
Sweden.....	.045	.043	.039	.064	.068	.088	.076	.068	.067	.073	.071
Switzerland.....	.007	.007	.007	.007	.007	.008	.012	.007	.006	.008	.009
Turkey.....	.411	.323	.307	.324	.349	.429	.405	.336	.320	.301	.298
Japan.....	2.691	3.173	3.394	3.370	3.586	3.721	3.946	3.979	4.025	4.304	4.132
Other OECD.....	.241	.267	.322	.300	.338	.381	.316	.334	.313	.311	.243

^{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. *Zeros (.000) indicate net imports of less than 0.0005 million barrels per day.

*Data for 1997 are preliminary.

Sources: See end of Section 4.

Table 4.10 United States--Net Oil Imports, 1988-1998
(Million Barrels per Day)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Average											
Total Net Imports...	6.587	7.202	7.161	6.626	6.938	7.618	8.054	7.886	8.498	9.158	9.452
Imports from OPEC ¹ /	3.439	3.986	4.172	3.918	3.888	4.103	4.036	3.979	4.194	4.542	4.789
Imports from											
Persian Gulf ² /											
Total.....	1.526	1.857	1.961	1.835	1.774	1.775	1.722	1.563	1.594	1.747	2.091
Bahrain.....	.000	-.001	-.001	-.001	-.002	-.002	-.002	-.003	-.002	-.002	.000
Iran.....	.000	.000	.000	.032	.000	.000	.000	.000	.000	.000	.000
Iraq.....	.343	.449	.518	.000	.000	.000	.000	.000	.001	.089	.334
Kuwait.....	.092	.157	.086	.006	.051	.353	.312	.218	.236	.253	.281
U.A.E.....	.028	.027	.016	.001	.004	.009	.011	.004	-.003	-.003	.000
Qatar.....	.000	.002	.004	.000	.001	.001	.000	.000	.000	.004	.004
Saudi Arabia.....	1.063	1.224	1.339	1.797	1.720	1.414	1.402	1.344	1.363	1.406	1.472
Imports from OPEC-Africa											
Total.....	.918	1.084	1.080	.956	.876	.956	.880	.859	.872	.979	.971
Algeria.....	.300	.269	.280	.253	.196	.220	.243	.234	.256	.285	.288
Libya.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Nigeria.....	.618	.815	.800	.703	.680	.736	.637	.625	.616	.694	.683
Imports from											
OPEC-South America											
Total.....	.790	.861	1.016	1.020	1.161	1.295	1.322	1.468	1.667	1.758	1.671
Venezuela.....	.790	.861	1.016	1.020	1.161	1.295	1.322	1.468	1.667	1.758	1.671
Imports from OPEC-Far East											
Total.....	.205	.182	.113	.106	.075	.074	.109	.087	.058	.057	.056
Indonesia.....	.205	.182	.113	.106	.075	.074	.109	.087	.058	.057	.056

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. *Zeros (.000) indicate net imports of less than 0.0005 million barrels per day. *Data for 1997 are preliminary.

Sources: See end of Section 4.

Table 4.11 Japan--Net Oil Imports, 1988-1998
(Million Barrels per Day)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Average											
Total Net Imports..	4.680	5.035	5.239	5.286	5.464	5.467	5.766	5.716	5.790	5.819	5.406
Imports from OPEC ^{1/}	3.309	3.788	4.062	4.026	4.198	4.245	4.495	4.467	4.470	4.699	4.467
Imports from Persian Gulf ^{2/}											
Total.....	2.691	3.173	3.394	3.370	3.586	3.721	3.946	3.979	4.025	4.304	4.132
Bahrain.....	.036	.042	.037	.037	.029	.025	.028	.029	.033	.023	.016
Iran.....	.187	.291	.385	.383	.362	.384	.459	.399	.451	.461	.473
Iraq.....	.173	.219	.146	.000	.000	.000	.000	.000	.000	.015	.017
Kuwait.....	.341	.458	.291	.014	.220	.368	.430	.501	.500	.557	.507
U.A.E.....	.822	.929	1.032	1.285	1.256	1.287	1.398	1.420	1.396	1.441	1.402
Qatar.....	.203	.250	.263	.285	.300	.330	.328	.335	.335	.364	.450
Saudi Arabia.....	.930	.984	1.240	1.367	1.420	1.327	1.303	1.296	1.310	1.441	1.268
Imports from OPEC-Africa											
Total.....	.044	.015	.011	.011	.007	.008	.017	.026	.032	.036	.025
Algeria.....	.044	.015	.010	.010	.007	.008	.012	.011	.012	.014	.012
Nigeria.....	-	-	.001	.001	.000	.000	.005	.016	.020	.023	.013
Imports from OPEC-South America											
Total.....	.011	.011	.011	.010	.010	.009	.009	.002	.003	.003	.000
Venezuela.....	.011	.011	.011	.010	.010	.009	.009	.002	.003	.003	.000
Imports from OPEC-Far East											
Total.....	.599	.631	.682	.673	.624	.533	.551	.488	.442	.380	.326
Indonesia.....	.599	.631	.682	.673	.624	.533	.551	.488	.442	.380	.326

^{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. *Zeros (.000) indicate net imports of less than 0.0005 million barrels per day. *Data for 1997 are preliminary.

Sources: See end of Section 4.

Table 4.12 OECD Europe--Net Oil Imports, 1988-1998
(Million Barrels per Day)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total Net Imports..	7.774	7.994	8.210	8.588	8.459	8.127	7.355	7.226	7.339	7.340	7.919
Imports from OPEC1/	5.842	6.188	6.633	6.728	6.758	6.794	6.385	6.154	6.053	6.260	6.697
Imports from											
Persian Gulf2/											
Total.....	3.428	3.754	3.908	3.660	3.666	4.048	3.506	3.365	3.171	3.469	3.953
Bahrain.....	.009	.005	.020	.002	.003	.004	.003	.000	.001	.001	.004
Iran.....	.850	1.076	1.190	1.132	1.113	1.253	1.074	1.149	1.059	.942	1.006
Iraq.....	.959	.897	.591	.000	.000	.001	.000	.000	.006	.336	.733
Kuwait.....	.474	.452	.346	.019	.142	.461	.302	.269	.288	.249	.275
U.A.E.....	.134	.214	.446	.281	.199	.092	.067	.011	.004	.009	.020
Qatar.....	.021	.024	.026	.009	.006	.000	.000	.002	.002	.000	.000
Saudi Arabia.....	.981	1.086	1.290	2.217	2.203	2.237	2.060	1.933	1.811	1.932	1.915
Imports from OPEC-Africa											
Total.....	2.198	2.224	2.509	2.818	2.818	2.491	2.644	2.500	2.644	2.569	2.512
Algeria.....	.646	.648	.683	.757	.772	.693	.690	.724	.746	.681	.711
Libya.....	1.071	1.044	1.267	1.332	1.361	1.193	1.233	1.201	1.204	1.268	1.296
Nigeria.....	.481	.532	.559	.729	.686	.605	.721	.575	.694	.620	.505
Imports from											
OPEC-South America											
Total.....	.220	.212	.227	.249	.268	.240	.219	.273	.206	.206	.213
Venezuela.....	.220	.212	.227	.249	.268	.240	.219	.273	.206	.206	.213
Imports from OPEC-Far East											
Total.....	.005	.004	.008	.002	.009	.019	.019	.017	.033	.017	.024
Indonesia.....	.005	.004	.008	.002	.009	.019	.019	.017	.033	.017	.024

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. •Zeros (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1997 are preliminary.

Sources: See end of Section 4.

Table 4.13 France--Net Oil Imports, 1988-1998
(Million Barrels per Day)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Average											
Total Net Imports..	1.718	1.711	1.750	1.869	1.784	1.761	1.615	1.721	1.738	1.769	1.878
Imports from OPEC ^{1/}	.737	.875	1.101	1.021	.932	1.006	.956	.911	.897	.899	1.029
Imports from Persian Gulf ^{2/}											
Total.....	.484	.647	.864	.708	.640	.757	.651	.647	.573	.617	.730
Bahrain.....	.007	.002	.011	.000	.001	.002	.000	.000	.001	.000	.002
Iran.....	.012	.158	.182	.171	.151	.243	.156	.208	.172	.127	.157
Iraq.....	.143	.128	.062	.000	.000	.000	.000	.000	.000	.078	.171
Kuwait.....	.017	.021	.015	.011	.029	.032	.016	.022	.017	.017	.019
U.A.E.....	.017	.040	.233	.064	.033	.025	.003	.002	.001	.000	.012
Qatar.....	.017	.009	.022	.003	.002	.000	.000	.000	.000	.000	.000
Saudi Arabia.....	.271	.288	.339	.459	.424	.454	.477	.416	.381	.394	.369
Imports from OPEC-Africa											
Total.....	.249	.218	.233	.296	.281	.242	.301	.262	.323	.282	.301
Algeria.....	.079	.089	.092	.107	.105	.066	.089	.103	.105	.131	.115
Libya.....	.090	.065	.079	.104	.087	.063	.059	.043	.051	.060	.061
Nigeria.....	.079	.064	.062	.084	.090	.112	.153	.115	.168	.091	.126
Imports from OPEC-South America											
Total.....	.011	.012	.015	.017	.011	.010	.003	.002	.001	.000	.000
Venezuela.....	.011	.012	.015	.017	.011	.010	.003	.002	.001	.000	.000
Imports from OPEC-Far East											
Total.....	-	.000	.000	.001	.001	.000	.000	.000	.000	.000	.000
Indonesia.....	-	.000	.000	.001	.001	.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 are on a direct basis. *Negative numbers represent net exports. *A dash (-) indicates no trade. *Zeros (.000) indicate net imports of less than 0.0005 million barrels per day. *Data for 1997 are preliminary.

Sources: See end of Section 4.

Table 4.14 Germany--Net Oil Imports, 1988-1998
(Million Barrels per Day)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
	Average										
Total Net Imports..	2.278	2.112	2.202	2.664	2.739	2.723	2.731	2.699	2.793	2.804	2.888
Imports from OPEC1/	.761	.739	.771	.859	.957	.948	.838	.711	.660	.645	.656
Imports from Persian Gulf2/											
Total.....	.197	.216	.217	.227	.215	.250	.217	.172	.145	.157	.163
Bahrain.....	-	-	-	-	-	.000	.001	.000	.000	.000	.000
Iran.....	.051	.041	.055	.053	.021	.053	.040	.031	.018	.023	.020
Iraq.....	.032	.009	.004	.000	.000	.000	.000	.000	.000	.001	.020
Kuwait.....	.013	.022	.013	.000	.009	.022	.026	.015	.016	.012	.016
U.A.E.....	.006	.023	.016	.012	.002	.002	.001	.000	.000	.001	.000
Qatar.....	.001	.002	.003	.002	.001	.000	.000	.000	.000	.000	.000
Saudi Arabia.....	.095	.119	.125	.161	.182	.173	.149	.125	.111	.120	.106
Imports from OPEC-Africa											
Total.....	.472	.436	.465	.524	.614	.594	.543	.461	.462	.442	.447
Algeria.....	.141	.106	.098	.126	.183	.195	.161	.135	.125	.095	.127
Libya.....	.237	.235	.244	.262	.252	.244	.244	.234	.258	.246	.277
Nigeria.....	.095	.095	.123	.136	.179	.154	.139	.093	.079	.101	.043
Imports from OPEC-South America											
Total.....	.091	.086	.088	.107	.128	.105	.079	.078	.053	.046	.046
Venezuela.....	.091	.086	.088	.107	.128	.105	.079	.078	.053	.046	.046
Imports from OPEC-Far East											
Total.....	-	-	.002	.000	.000	.000	.000	.000	.000	.000	.000
Indonesia.....	-	-	.002	.000	.000	.000	.000	.000	.000	.000	.000

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

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

Notes: *Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. *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 1997 are preliminary.

Sources: See end of Section 4.

Table 4.15 Italy--Net Oil Imports, 1988-1998
(Million Barrels per Day)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Average											
Total Net Imports..	1.590	1.716	1.788	1.769	1.839	1.747	1.778	1.820	1.791	1.795	1.831
Imports from OPEC ^{1/}	1.191	1.260	1.375	1.393	1.343	1.222	1.117	1.203	1.244	1.353	1.421
Imports from Persian Gulf ^{2/}											
Total.....	.643	.619	.626	.595	.573	.548	.430	.494	.502	.583	.658
Bahrain.....	-	.001	.000	.001	.001	.000	.000	.000	.001	.000	.002
Iran.....	.093	.124	.192	.231	.239	.221	.143	.233	.263	.258	.273
Iraq.....	.198	.138	.079	.000	.000	.000	.000	.000	.000	.033	.108
Kuwait.....	.118	.093	.063	.000	.007	.012	.001	.000	.000	.000	.000
U.A.E.....	.060	.085	.075	.044	.013	.002	.000	.000	.000	.000	.000
Qatar.....	.002	.008	.000	.004	.001	.000	.000	.002	.002	.000	.000
Saudi Arabia.....	.171	.171	.216	.315	.312	.313	.286	.260	.236	.291	.274
Imports from OPEC-Africa											
Total.....	.516	.626	.740	.793	.757	.653	.660	.679	.714	.745	.723
Algeria.....	.108	.150	.155	.155	.140	.096	.099	.100	.110	.086	.083
Libya.....	.389	.430	.556	.581	.584	.542	.543	.562	.580	.609	.601
Nigeria.....	.019	.045	.029	.057	.034	.015	.018	.017	.025	.050	.039
Imports from OPEC-South America											
Total.....	.029	.014	.007	.004	.005	.002	.007	.014	.008	.012	.020
Venezuela.....	.029	.014	.007	.004	.005	.002	.007	.014	.008	.012	.020
Imports from OPEC-Far East											
Total.....	.002	.002	.003	.001	.009	.019	.019	.015	.021	.014	.023
Indonesia.....	.002	.002	.003	.001	.009	.019	.019	.015	.021	.014	.023

^{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. *Zeros (.000) indicate net imports of less than 0.0005 million barrels per day. *Data for 1997 are preliminary.

Sources: See end of Section 4.

Table 4.16 OECD Imports from Iraq, 1988-1998
(Million Barrels per Day)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
	Average										
Total.....	1.489	1.581	1.276	0.000	0.000	0.001	0.000	0.000	0.007	0.458	1.116
United States ¹ /.....	.343	.449	.518	.000	.000	.000	.000	.000	.001	.089	.334
Canada.....	.001	.013	.011	.000	.000	.000	.000	.000	.000	.014	.014
OECD Europe ² /.....	.959	.897	.591	.000	.000	.001	.000	.000	.006	.336	.733
Main European Importers											
France.....	.143	.128	.062	.000	.000	.000	.000	.000	.000	.078	.171
Germany ³ /.....	.032	.009	.004	.000	.000	.000	.000	.000	.000	.001	.020
Italy.....	.198	.138	.079	.000	.000	.000	.000	.000	.000	.033	.108
Netherlands.....	.039	.101	.117	.000	.000	.000	.000	.000	.000	.024	.113
Spain.....	.092	.109	.063	.000	.000	.000	.000	.000	.002	.074	.130
European Net Exporters											
United Kingdom....	.070	.034	.027	.000	.000	.000	.000	.000	.000	.000	-
Smaller European Importers											
Austria.....	.007	.000	.000	.000	.000	.001	.000	.000	.000	.017	.027
Belgium.....	.037	.047	.029	.000	.000	.000	.000	.000	.000	.010	.047
Denmark.....	-	-	.000	.000	.000	.000	.000	.000	.000	.000	-
Greece.....	.059	.052	.044	.000	.000	.000	.000	.000	.000	.013	.016
Portugal.....	.029	.024	.019	.000	.000	.000	.000	.000	.000	.011	.029
Sweden.....	.003	.005	.000	.000	.000	.000	.000	.000	.000	.000	-
Switzerland.....	-	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000
Turkey.....	.250	.250	.146	.000	.000	.000	.000	.000	.003	.074	.073
Japan.....	.173	.219	.146	.000	.000	.000	.000	.000	.000	.015	.017
Other OECD.....	.013	.003	.011	.000	.000	.000	.000	.000	.000	.005	.018

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. •Zeros (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1997 are preliminary.

Sources: See end of Section 4.

Table 4.17 OECD Imports from Kuwait, 1988-1998
(Million Barrels per Day)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Average											
Total.....	0.936	1.084	0.740	0.039	0.414	1.191	1.081	0.997	1.034	1.065	1.070
United States ¹ /....	.092	.157	.086	.006	.051	.353	.312	.218	.236	.253	.281
Canada.....	-	-	.004	-	-	.000	.027	.000	.000	.000	.000
OECD Europe ² /.....	.474	.452	.346	.019	.142	.461	.302	.269	.288	.249	.275
Main European Importers											
France.....	.017	.021	.015	.011	.029	.032	.016	.022	.017	.017	.019
Germany ³ /.....	.013	.022	.013	.000	.009	.022	.026	.015	.016	.012	.016
Italy.....	.118	.093	.063	.000	.007	.012	.001	.000	.000	.000	.000
Netherlands.....	.189	.194	.151	.002	.052	.254	.179	.176	.193	.168	.176
Spain.....	.030	.015	.010	.003	.000	.015	.000	.000	.000	.000	.000
European Net Exporters											
Norway.....	-	-	-	-	-	.000	.000	.000	.000	.000	.000
United Kingdom.....	.006	.006	.045	.002	.027	.049	.058	.039	.032	.031	.025
Smaller European Importers											
Austria.....	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	-
Belgium.....	-	-	.000	.001	.006	.056	.005	.004	.015	.004	.014
Denmark.....	.060	.066	.034	.000	.000	.000	.000	.000	.000	.002	.007
Finland.....	-	-	-	.000	-	-	-	-	-	-	.001
Greece.....	.015	.009	.000	.000	.002	.005	.001	.000	.000	.000	.000
Portugal.....	.003	.003	.002	.000	.000	.000	.000	.000	.000	.000	-
Sweden.....	-	.001	.001	.000	.000	.002	.000	.000	.000	.000	.000
Switzerland.....	-	-	-	.000	.000	.000	.000	.000	.000	.000	.000
Turkey.....	.019	.019	.011	.000	.010	.016	.016	.014	.015	.014	.016
Japan.....	.341	.458	.291	.014	.220	.368	.430	.501	.500	.557	.507
Other OECD.....	.029	.017	.013	.000	.000	.009	.011	.009	.010	.006	.006

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

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

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

Notes: *Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. *OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. *Negative numbers represent net exports. *A dash (-) indicates no trade. *Zeros (.000) indicate net imports of less than 0.0005 million barrels per day. *Data for 1997 are preliminary.

Sources: See end of Section 4.

Sources for Section 4 (Historical Oil Data)

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

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

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

Oil Stocks

United States: EIA, Petroleum Supply Annual 1997.

Other OECD Countries: • 1973-1982: Organization for Economic Cooperation and Development (OECD), Quarterly Oil Statistics and Energy Balances, various issues. • 1983-1998: OECD, Monthly Oil Statistics in the EIA, International Energy Database.

Oil Demand

United States: EIA, Petroleum Supply Annual 1997.

Other OECD Countries: • 1973-1981: OECD, Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Annual Oil Statistics data base, 1970-1979. • 1982-1998: OECD, Monthly Oil Statistics in the EIA International Energy Database.

Oil Imports

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

Other OECD Countries: • Organization for Economic Cooperation and Development (OECD), Quarterly Oil Statistics and Energy Balances, various issues. • OECD Monthly Oil Statistics database, 1991-1999.

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, Hungary, 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 1998 United States (including territories) oil stocks totaled 1,487 million barrels.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Appendix C

Glossary

Appendix C. Glossary

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

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

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

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

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

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

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

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

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

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

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

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

Appendix D

Estimation Procedures

Appendix D. Estimation Procedures

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

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

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

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

Appendix E

Conversions

Table E1. Refined Petroleum Products Conversion Factors

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

Table E2. Barrels of Crude Oil per Metric Ton, 1988-1997

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
North America										
Canada	7.453	7.453	7.186	7.186	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	7.120	7.120	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	7.056	7.056	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	7.080	7.080	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	6.890	6.890	6.890	6.890	6.890	6.890	6.890	6.890
Western Europe										
Austria	7.082	7.082	7.200	7.200	7.200	7.200	7.200	7.200	7.200	7.200
Denmark	7.689	7.689	7.405	7.405	7.405	7.405	7.405	7.405	7.405	7.405
France	7.332	7.332	7.332	7.332	7.332	7.332	7.332	7.332	7.332	7.332
Germany	--	--	7.330	7.330	7.330	7.330	7.330	7.330	7.330	7.330
Germany, East	7.340	7.340	--	--	--	--	--	--	--	--
Germany, West	7.247	7.247	--	--	--	--	--	--	--	--
Greece	7.178	7.178	7.231	7.231	7.231	7.231	7.231	7.231	7.231	7.231
Italy	6.853	6.853	7.300	7.300	7.300	7.300	7.300	7.300	7.300	7.300
Netherlands	6.853	6.853	7.239	7.239	7.239	7.239	7.239	7.239	7.239	7.239
Norway	7.810	7.810	7.644	7.644	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	7.200	7.200	7.200	7.200	7.200	7.200	7.200	7.200
United Kingdom	7.466	7.466	7.523	7.523	7.523	7.523	7.523	7.523	7.523	7.523
Former Yugoslavia	7.418	7.418	--	--	--	--	--	--	--	--
Croatia	--	--	7.418	7.418	7.418	7.418	7.418	7.418	7.418	7.418
Serbia and Montenegro	--	--	--	--	--	--	--	--	--	--
Slovenia	--	--	--	--	--	--	--	--	--	--

-- = No Production of this form of energy.

Sources: International Energy Annual 1997. DOE/EIA-0219(97) (April 1999).

Table E2. Barrels of Crude Oil per Metric Ton, 1988-1997 (continued)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
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	6.780	6.780	6.780
Czech Republic	--	--	--	--	--	6.780	6.780	6.780	6.780	6.780
Slovakia	--	--	--	--	--	6.780	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	--	--	--	--	--	--
Azerbaijan	--	--	--	--	7.270	7.270	7.270	7.270	7.270	7.270
Belarus	--	--	--	--	7.270	7.270	7.270	7.270	7.270	7.270
Georgia	--	--	--	--	7.270	7.270	7.270	7.270	7.270	7.270
Lithuania	--	--	--	--	--	7.270	7.270	7.270	7.270	7.270
Kazakhstan	--	--	--	--	7.270	7.270	7.270	7.270	7.270	7.270
Kyrgyzstan	--	--	--	--	7.270	7.270	7.270	7.270	7.270	7.270
Russia	--	--	--	--	7.270	7.270	7.270	7.270	7.270	7.270
Tajikistan	--	--	--	--	7.270	7.270	7.270	7.270	7.270	7.270
Turkmenistan	--	--	--	--	7.270	7.270	7.270	7.270	7.270	7.270
Ukraine	--	--	--	--	7.270	7.270	7.270	7.270	7.270	7.270
Uzbekistan	--	--	--	--	7.270	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	7.350	7.350	7.350	7.350	7.350	7.350	7.350	7.350
Iraq	7.426	7.426	7.430	7.430	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	7.250	7.250	7.250	7.250	7.250	7.250	7.250	7.250
Oman	7.332	7.332	7.330	7.330	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	7.323	7.323	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	7.632	7.632	7.631	7.631	7.631	7.631	7.631	7.631	7.631	7.631

-- = No production of this form of energy.

Sources: International Energy Annual 1997. DOE/EIA-0219(97) (April 1999).

Table E2. Barrels of Crude Oil per Metric Ton, 1988-1997 (continued)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Africa										
Algeria	7.936	7.936	8.130	8.130	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	7.410
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 (Brazzaville)	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506
Congo (Kinshasa)	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320
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	7.260
Equatorial Guinea	--	--	--	8.077	8.077	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	7.285
Libya	7.515	7.515	7.580	7.580	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	7.500
Sudan	--	--	--	--	7.452	7.452	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
Far East & Oceania										
Australia	7.855	7.855	7.868	7.868	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	7.300
India	7.600	7.600	7.440	7.440	7.440	7.440	7.440	7.440	7.440	7.330
Indonesia	7.558	7.558	7.360	7.360	7.360	7.360	7.360	7.360	7.360	7.360
Japan	7.285	7.285	7.357	7.357	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	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 1997. DOE/EIA-0219(97) (April 1999).