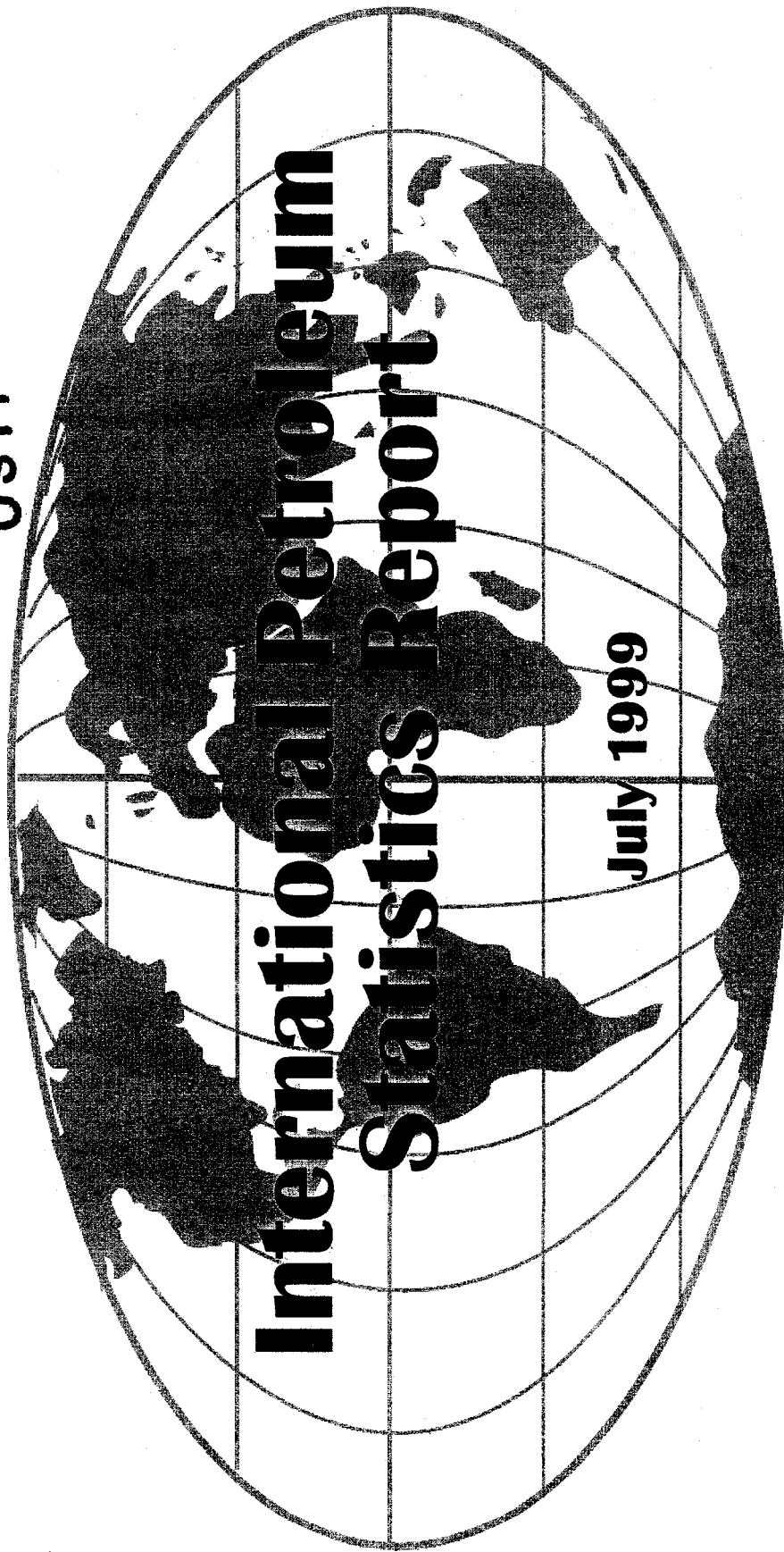


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# International Petroleum Statistics Report

July 1999

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

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## 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. Grillon, 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.

### Notes:

Revisions for the 1998 United States data are based on data published in the *Petroleum Supply Annual 1998*.

France has not been reporting net oil import data by country of origin in 1999. Therefore, these data are also not available for Total OECD Europe and Total OECD in Tables 3.2, 3.5, 3.6, 3.9, 3.13, and 3.14.

## Oil Market Chronology - June 1999

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

- June 1** Sudan starts pumping oil through its pipeline linking the Heglig oil field in Western Kordofan province to Port Sudan on the Red Sea. The pipeline has a capacity of 250,000 barrels per day, and was financed by a consortium of Chinese, Malaysian, Canadian, and Sudanese firms. (DJ)
- June 2** Texaco terminates negotiations on the potential acquisition of the company by Chevron. Texaco states that Chevron's final proposal is "unacceptable" for reasons of complexity, feasibility, risk, and price. The talks had taken place as part of an overall trend toward consolidation among the major oil companies. (WSJ)
- June 6** China National Petroleum Corporation (CNPC) announces plans to lay off 75,000 workers at five of its major refineries in northern China, reducing employment by 30 percent overall and 50 percent among managerial and administrative staff. The layoffs are part of CNPC's plan to make the refineries profitable by the end of 1999. (DJ)
- June 7** Indonesia holds its first-ever free elections. While there were minor irregularities, foreign election observers considered the elections generally free and fair. Forty-eight parties fielded candidates for the Parliament. Early returns show that no party will have a majority, so a coalition government will have to be formed. (DJ)
- June 9** A team of United Nations experts visits Iraq for talks with Iraqi Oil Ministry officials on purchases of equipment and supplies to repair Iraq's oil infrastructure. Iraq is allowed to spend up to \$300 million on oil infrastructure repairs under the "oil-for-food" program's current six-month cycle. (DJ)
- June 10** BP Amoco announces its intention to sell several of its Canadian oilfields, accounting for about 30 percent of the company's overall production in Canada. The sales are to be completed in the third and fourth quarters of 1999, and resulted from a strategic review by the company of its properties worldwide to prioritize the demand for investment capital. (DJ)
- June 12** Security forces in Chechnya, a breakaway province of Russia, take control of the main oil pipeline from Baku, Azerbaijan, to the Russian Black Sea port of Novorossiysk. The action follows attacks on the pipeline by renegade Chechen fighters. (DJ)
- June 14** The main Venezuelan oil workers union, Fedepetrol, states that it will not strike in the immediate future, as talks continue with Petroleos de Venezuela on its demands for wage increases. Venezuelan President Hugo Chavez had intervened in the negotiations, offering merit-based raises of between 3 percent and 6 percent to workers. (DJ)
- June 16** Brazil begins a two-day auction of 27 oil exploration blocks. The auction effectively ends the monopoly of the state-owned oil firm Petrobras over exploration and production in Brazil. Most of the blocks offered are deepwater offshore blocks, for which Brazil needs to raise foreign capital to speed development. (WSJ)
- June 18** Texaco shuts down six oil platforms off the coast of Nigeria, cutting off a total of 50,000 barrels per day of production. Two of the platforms had been boarded by protesters in boats. Shell also is experiencing disruptions in Nigeria as a result of widespread civil unrest in the Niger Delta region. (DJ)
- June 24** Spain's Repsol announces the success of its buyout offer for YPF of Argentina. Repsol paid \$13.5 billion for the outstanding 85 percent of YPF shares. (DJ)

- June 24** Citing a lack of funds, the Jordanian government announces that it has shelved plans for construction of an oil pipeline from Iraq to Jordan. Jordan currently relies on a fleet of trucks to transport approximately 90,000 barrels per day of crude oil and refined petroleum products from Iraq. (DJ)
- June 25** The Yugoslav state-run petroleum company states that it can't provide enough petroleum products to satisfy demand due to unrepai red damage from NATO air strikes. Direct losses from the air campaign are estimated at \$1.1 billion, mostly damage to refinery and storage facilities at Novi Sad and Pancevo. (DJ)
- June 26** Petroleum Development Oman, Limited announces the discovery of new oil deposits in commercial quantities in southern Oman. The new find is described as the most significant find in Oman in the last five years. (DJ)
- June 28** Russian oil firm Transneft announces that it will begin moving crude oil from Baku in Azerbaijan to the Russian Black Sea port of Novorossiysk by rail, temporarily bypassing the troubled pipeline through the province of Chechnya. (DJ)
- June 29** Brazil's Petrobras and Venezuela's Petroleos de Venezuela sign a letter of intent on forging a strategic alliance between the two firms. The agreement's stated aim is to be "the starting point to establish the economic viability of a joint company, which will be called Petroamerica." (DJ)
- June 30** The Independent Petroleum Association of America issued a statement declaring its intention to join as an "interested party" in the anti-dumping complaint filed by Save Domestic Oil, Incorporated. The complaint accuses Saudi Arabia, Iraq, Mexico, and Venezuela of dumping cheap oil on the U.S. market from the second quarter of 1998 through the first quarter of 1999. (DJ)

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### Appendix C. Glossary

### Appendix D. Estimation Procedures

### Appendix E. Conversions

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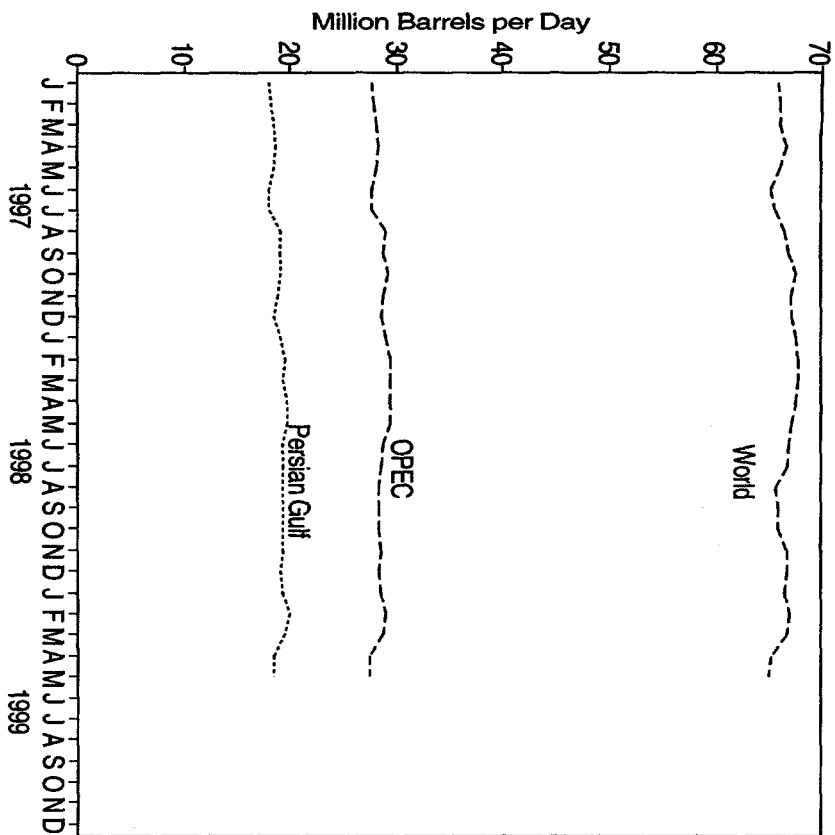
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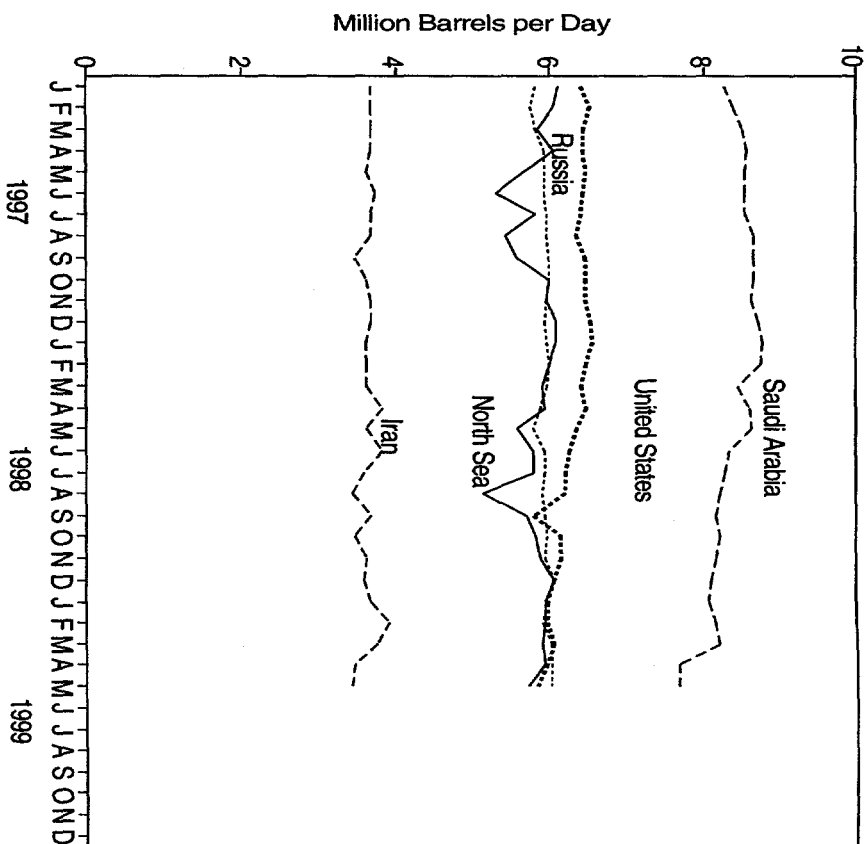
**1. Annual and Monthly Oil Data**

Figure 1. World Crude Oil Production, Monthly



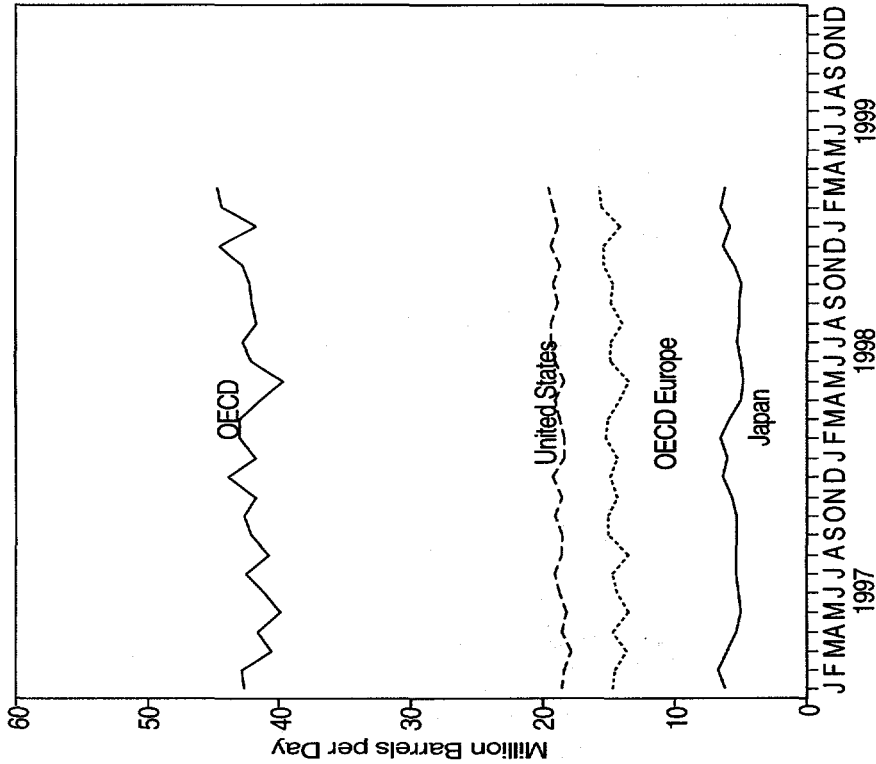
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Figure 2. Leading Crude Oil Producers, Monthly



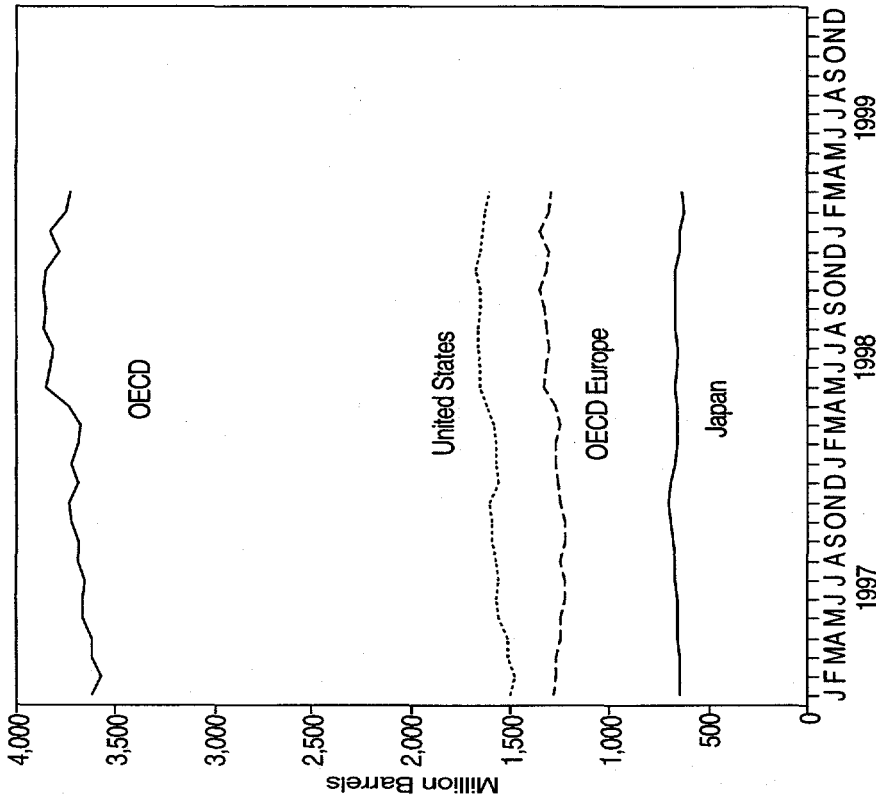
Source: Tables 1.1a-1.1c

Figure 3. OECD Oil Consumption, Monthly



Source: Table 1.7

Figure 4. OECD Oil Stocks, Monthly



Source: Table 1.5

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

	Algeria	Indonesia	Iran	Iraq	Kuwait <sup>1</sup>	Libya	Nigeria	Qatar	Saudi Arabia <sup>1</sup>	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	2,001	510	8,218	2,278	2,938	26,461
1997 Average.....	1,277	1,520	3,664	1,155	2,083	1,446	2,332	649	8,562	2,316	3,315	28,320
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	3,635	1,985	2,115	1,400	2,238	705	8,585	2,420	3,240	29,313
May.....	1,250	1,520	3,635	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
May.....	1,190	1,530	3,435	2,705	1,815	1,300	2,190	685	7,665	2,130	2,780	27,425
1999 Average.....	1,224	1,530	3,657	2,590	1,923	1,340	2,122	711	7,954	2,221	2,911	28,183

<sup>1</sup>/ 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 May 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/ Sea1/	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	436	321
1993 Average.....	2,350	1,915	4,403	509	594	503	643	1,679	2,890	455	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.....	3,143	2,518	5,830	714	834	588	841	1,922	3,200	652	388
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.....	2,975	2,708	5,900	790	810	463	1,110	1,835	3,215	830	350
April.....	R2,953	R2,746	R5,921	R770	R815	R474	R1,080	R1,832	3,190	840	350
May.....	2,911	2,585	5,728	770	815	531	1,070	1,896	3,190	815	350
1999 Average.....	2,968	2,697	5,880	778	815	506	1,096	1,867	3,212	832	360

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 <sup>1/</sup> World
1990 Average.....	873	270	660	619	2,553	685	--	10,975	388	7,355	2,253
1991 Average.....	874	294	615	646	2,680	700	--	9,992	492	7,417	2,274
1992 Average.....	881	298	561	653	2,669	740	--	--	481	7,171	3,229
1993 Average.....	890	313	534	640	2,673	776	--	--	554	6,847	3,279
1994 Average.....	896	329	590	645	2,685	810	--	--	560	6,662	3,380
1995 Average.....	920	365	703	682	2,618	851	--	--	575	6,560	3,414
1996 Average.....	922	368	651	695	2,855	883	--	--	582	6,465	3,490
1997 Average.....	856	370	675	746	3,023	904	--	--	561	6,452	3,793
1998 January.....	860	360	680	740	3,085	920	--	--	550	R6,541	3,765
February.....	860	370	685	730	3,140	920	--	--	550	R6,476	3,747
March.....	860	370	685	740	3,160	930	--	--	550	R6,408	3,746
April.....	860	370	635	740	3,140	920	--	--	550	6,483	3,707
May.....	870	370	670	750	3,149	910	--	--	560	R6,347	3,663
June.....	870	370	670	750	3,050	900	--	--	560	R6,267	3,713
July.....	880	360	676	730	3,120	870	--	--	560	R6,194	3,739
August.....	870	360	651	730	3,055	880	--	--	560	R6,203	3,705
September.....	870	350	625	720	2,906	890	--	--	550	R5,789	3,723
October.....	870	350	638	720	2,792	890	--	--	550	R6,143	3,745
November.....	860	350	643	720	3,147	890	--	--	550	R6,140	3,765
December.....	860	350	679	720	3,107	880	--	--	550	R6,043	3,765
1998 Average.....	866	361	661	733	3,070	900	--	--	553	R6,252	3,732
1999 January.....	860	340	694	720	3,144	880	--	--	550	R5,954	R3,792
February.....	860	340	686	720	3,020	900	--	--	550	R5,984	R6,591
March.....	870	340	645	720	3,053	910	--	--	540	R6,048	R3,783
April.....	870	340	645	720	2,893	910	--	--	540	R5,977	R6,764
May.....	870	340	673	720	2,926	910	--	--	540	R5,839	R3,783
1999 Average.....	866	340	668	720	3,008	902	--	--	544	R5,960	3,785

<sup>1/</sup> 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 <sup>1</sup> / <sub>2</sub>	Libya	Nigeria	Qatar	Saudi Arabia <sup>1</sup> / <sub>2</sub>	United Arab Emirates	Venezuela	Total OPEC
1990 Average...	765	1,281	3,088	2,040	1,175	1,375	1,755	406	6,410	2,066	2,100	22,461
1991 Average...	800	1,410	3,312	305	190	1,483	1,832	395	8,115	2,326	2,338	22,506
1992 Average...	772	1,326	3,429	425	1,058	1,433	1,820	423	8,332	2,206	2,334	23,558
1993 Average...	747	1,327	3,540	512	1,852	1,361	1,835	413	8,198	2,109	2,410	24,304
1994 Average...	750	1,334	3,583	548	2,025	1,378	1,821	380	8,120	2,113	2,542	24,594
1995 Average...	767	1,343	3,608	555	2,057	1,390	1,878	407	8,231	2,148	2,710	25,094
1996 Average...	812	1,367	3,651	574	2,062	1,401	1,885	475	8,218	2,198	2,898	25,541
1997 Average...	847	1,355	3,629	1,150	2,083	1,446	2,217	614	8,562	2,236	3,275	27,414
1998 January...	860	1,340	3,600	1,256	2,215	1,450	2,108	680	8,765	2,355	3,400	28,029
February...	860	1,340	3,600	1,698	2,210	1,450	2,153	700	8,760	2,355	3,370	28,496
March.....	860	1,340	3,600	1,820	2,210	1,450	2,270	700	8,460	2,400	3,370	28,480
April.....	840	1,340	3,800	1,980	2,115	1,400	2,128	670	8,585	2,340	3,200	28,398
May.....	820	1,340	3,600	2,240	2,105	1,360	2,120	670	8,625	2,250	3,200	28,330
June.....	810	1,310	3,800	1,915	2,105	1,360	2,100	670	8,325	2,220	3,170	27,785
July.....	800	1,330	3,550	2,350	2,075	1,360	2,050	650	8,275	2,220	3,030	27,650
August.....	790	1,330	3,400	2,550	2,025	1,340	1,900	640	8,225	2,220	2,950	27,370
September..	790	1,330	3,650	2,550	1,972	1,335	1,900	630	8,173	2,220	2,900	27,450
October....	790	1,360	3,450	2,550	1,970	1,335	1,850	635	8,220	2,210	2,950	27,320
November...	790	1,360	3,600	2,500	2,020	1,350	1,950	640	8,170	2,210	3,000	27,590
December...	790	1,360	3,550	2,300	2,020	1,350	2,000	645	8,110	2,210	3,000	27,325
1998 Average...	816	1,338	3,599	2,145	2,085	1,378	2,043	661	8,389	2,265	3,127	27,847
1999 January...	800	1,360	3,630	2,510	1,995	1,360	1,970	660	8,065	2,160	2,980	27,490
February...	810	1,340	3,890	2,650	2,005	1,360	1,900	660	8,165	2,250	2,960	27,990
March.....	820	1,350	3,760	2,425	2,020	1,360	2,050	740	8,220	2,155	2,920	27,820
April.....	780	1,350	3,450	2,650	1,785	1,320	2,050	670	7,665	2,100	2,760	26,580
May.....	760	1,350	3,400	2,700	1,815	1,300	2,080	650	7,665	2,050	2,740	26,510
1999 Average...	794	1,350	3,622	2,585	1,923	1,340	2,012	676	7,954	2,141	2,871	27,268

<sup>1</sup>/ 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 May 1999, Neutral Zone production by both Kuwait and Saudi Arabia totaled about 530 thousand barrels per day.

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

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

Sources: See end of Section 1.

Table 1.3 World Natural Gas Plant Liquids Production, 1990-Present  
(Thousand Barrels per Day)

	Algeria	Canada	Mexico	Saudi Arabia	Russia	Former USSR	United States <sup>1/</sup>	Persian Gulf <sup>2/</sup>	OAPEC <sup>3/</sup>	OPEC <sup>3/</sup>	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.....	160	636	388	712	195	--	1,817	1,158	1,390	1,614	5,750
1998 January.....	155	665	385	735	230	--	R1,805	1,185	1,419	1,632	R5,882
February.....	155	680	420	735	230	--	R1,857	1,185	1,419	1,632	R5,986
March.....	155	645	425	735	230	--	R1,853	1,185	1,419	1,632	R5,953
April.....	155	645	425	725	230	--	R1,869	1,175	1,409	1,622	R5,960
May.....	155	580	430	725	230	--	R1,835	1,175	1,409	1,622	R5,828
June.....	155	610	420	705	230	--	R1,748	1,155	1,389	1,602	R5,731
July.....	155	648	386	700	230	--	R1,586	1,150	1,384	1,597	R5,488
August.....	155	662	464	695	230	--	R1,722	1,145	1,379	1,592	R5,697
September.....	155	625	435	695	230	--	1,716	1,145	1,379	1,592	R5,687
October.....	155	667	415	695	230	--	R1,744	1,145	1,379	1,592	R5,747
November.....	155	681	438	695	230	--	R1,768	1,145	1,379	1,592	R5,785
December.....	155	705	447	690	230	--	R1,620	1,140	1,374	1,587	R5,669
1998 Average.....	155	651	424	711	230	--	R1,759	1,161	1,395	1,608	R5,783
1999 January.....	155	669	453	685	206	--	1,656	1,135	1,369	1,582	5,628
February.....	155	650	466	685	206	--	1,722	1,135	1,369	1,582	5,742
March.....	155	632	469	695	206	--	1,779	1,145	1,379	1,592	5,766
April.....	155	R625	457	655	206	--	REL,786	1,105	1,339	1,552	R5,717
May.....	155	620	451	655	206	--	E1,717	1,105	1,339	1,552	5,613
1999 Average.....	155	639	459	675	206	--	E1,732	1,125	1,359	1,572	5,693

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

2/ See Appendix A for countries in this group.

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

-- = Not applicable. 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 <sup>1/</sup>	Persian Gulf <sup>2/</sup>	OPEC <sup>3/</sup>	OPEC <sup>3/</sup>	World
1990 Average.....	9,677	16,249	17,232	24,536	66,754
1991 Average.....	9,883	15,704	16,747	24,625	66,632
1992 Average.....	9,768	17,010	17,871	25,818	66,961
1993 Average.....	9,602	17,792	18,505	26,610	67,348
1994 Average.....	9,413	18,072	18,745	27,031	68,228
1995 Average.....	9,400	18,351	19,069	27,566	69,837
1996 Average.....	9,445	18,486	19,237	28,018	71,394
1997 Average.....	9,461	19,665	20,453	29,990	74,343
1998 January.....	R9,631	20,283	21,097	30,632	R75,743
February.....	R9,551	20,735	21,552	31,099	R76,146
March.....	R9,445	20,602	21,421	31,083	R75,959
April.....	R9,555	20,892	21,441	30,991	R75,852
May.....	R9,425	20,892	21,601	30,923	R75,218
June.....	R9,334	20,417	20,916	30,358	R74,930
July.....	R9,020	20,477	21,226	30,218	R74,477
August.....	R9,236	20,432	21,286	29,933	R73,743
September.....	R8,757	20,567	21,164	30,013	R73,773
October.....	R9,130	20,407	21,205	29,883	R73,946
November.....	R9,267	20,512	21,165	30,153	R74,946
December.....	R9,005	20,192	20,895	29,883	R74,638
1998 Average.....	R9,278	20,532	21,246	30,426	R74,939
1999 January.....	E8,916	20,382	21,024	30,043	R74,541
February.....	E9,021	20,982	21,374	30,543	R75,018
March.....	E9,020	20,692	21,221	30,383	R74,739
April.....	RE8,951	19,652	20,411	29,103	R73,164
May.....	PE8,868	19,612	20,381	29,033	72,925
1999 Average.....	PE8,954	20,254	20,876	29,811	74,065

<sup>1/</sup> 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.  
<sup>2/</sup> See Appendix A for countries in this group.

<sup>3/</sup> 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 <sup>1/</sup>	United Kingdom	OECD Europe <sup>2/</sup>	United States <sup>3/</sup>	Canada	Japan	Other <sup>4/</sup>	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	R1,570	118	673	78	R3,716
	February.....	161	155	290	108	1,272	R1,569	110	664	75	R3,690
	March.....	155	146	285	109	R1,245	R1,587	118	655	73	R3,678
	April.....	163	161	292	106	1,274	1,614	116	658	76	R3,738
	May.....	171	168	306	111	R1,337	R1,652	115	667	79	R3,850
	June.....	164	164	308	109	R1,312	R1,651	116	658	82	R3,819
	July.....	164	157	313	109	R1,302	R1,661	115	660	76	R3,814
	August.....	168	161	319	106	R1,322	R1,669	118	672	77	R3,859
	September.....	170	158	317	107	R1,325	R1,652	120	676	79	R3,853
	October.....	170	162	321	109	R1,346	R1,649	121	676	70	R3,862
	November.....	161	157	320	99	R1,314	R1,672	122	675	71	R3,853
	December.....	161	153	321	108	R1,304	1,647	118	649	66	R3,784
1999	January.....	170	154	329	111	1,345	1,639	117	645	72	3,818
	February.....	165	146	320	109	R1,306	1,625	R113	633	74	R3,751
	March.....	169	149	306	109	1,293	1,608	116	634	72	3,723

<sup>1/</sup> 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.

<sup>2/</sup> "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.

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

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

R=Revised data.

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

Sources: See end of Section 1.

Table 1.6 Commercial and Government-Owned Oil Stocks in OECD Countries (End of March 1999)  
(Million Barrels)

Country	Commercial	Government Owned	Total
Canada.....	116	0	116
United States1/.....	1,036	572	1,608
United States Territories.....	22	0	22
Japan.....	319	315	634
Australia/New Zealand.....	50	NA	50
Austria.....	23	0	23
Belgium/Luxembourg.....	31	0	31
Denmark.....	26	0	26
Finland.....	23	0	23
France.....	169	0	169
Germany2/.....	251	55	306
Greece.....	34	NA	34
Ireland.....	7	2	9
Italy.....	143	6	149
Netherlands.....	97	0	97
Norway.....	51	0	51
Portugal.....	23	0	23
Spain.....	109	0	109
Sweden.....	37	0	37
Switzerland.....	44	0	44
Turkey.....	53	0	53
United Kingdom.....	109	0	109
OECD Europe.....	1,230	63	1,293
Total OECD.....	2,773	950	3,723

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 <sup>1/</sup>	United Kingdom	OECD Europe <sup>2/</sup>	United States <sup>3/</sup>	Canada	Japan	Other <sup>4/</sup>	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	1,192	41,433
1997 Average....	1,955	2,045	2,903	1,799	14,433	18,620	1,857	5,711	1,228	41,850
1998										
January....	R2,045	2,030	2,734	1,797	R14,302	R18,362	1,854	6,109	R1,143	R41,770
February....	R2,152	2,150	2,950	1,846	R15,188	R18,316	1,829	6,465	R1,234	R43,034
March....	R1,992	2,111	3,153	R1,868	R15,169	R18,685	1,861	5,905	R1,308	R42,928
April....	R1,982	2,016	2,840	1,718	R14,273	R19,044	1,805	5,086	1,165	R41,373
May....	R1,800	1,891	2,594	R1,697	R13,479	R18,375	1,766	4,806	1,232	R39,658
June....	R2,015	2,091	2,929	R1,795	R14,782	R19,182	1,890	5,016	1,258	R42,128
July....	R2,091	2,096	3,020	R1,778	R14,878	R19,466	1,955	5,316	R1,200	R42,815
August....	R1,843	1,877	2,835	R1,769	R14,017	R19,347	1,910	5,282	R1,213	R41,768
September..	R2,059	2,033	3,019	R1,800	R14,904	R18,895	1,937	5,097	R1,158	R41,991
October....	R1,994	2,021	2,865	1,811	R14,737	R19,188	1,933	5,089	R1,269	R42,216
November...	R2,068	2,209	2,985	R1,859	R15,370	R18,673	1,906	5,612	R1,304	R44,864
December...	R2,174	2,231	2,979	R1,805	R15,538	R19,419	1,915	6,379	R1,210	R44,462
Average....	R2,017	2,062	2,908	R1,795	R14,715	R18,917	1,881	5,509	R1,225	R42,246
1999										
January....	R1,993	2,067	2,557	1,699	R14,124	18,850	1,822	5,881	1,100	R41,777
February....	2,201	R2,127	R3,151	1,893	R15,652	19,240	1,925	R6,463	R1,129	R44,409
March.....	2,078	2,013	3,537	1,867	15,820	19,489	1,865	6,186	1,292	44,651

<sup>1/</sup> 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.

<sup>2/</sup> "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.

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

<sup>4/</sup> "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 1998 and Petroleum Supply Monthly, June 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

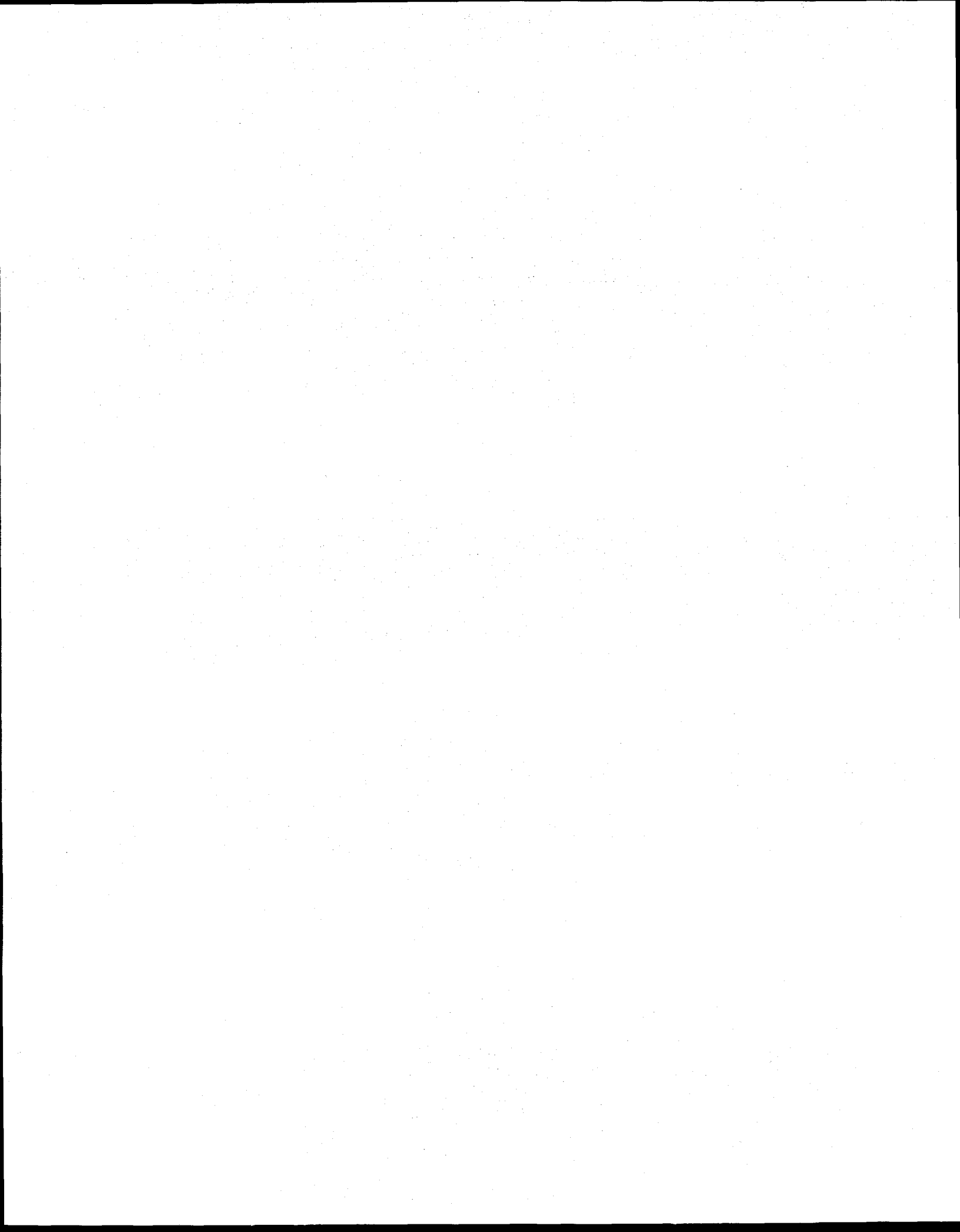
United States: EIA, Petroleum Supply Annual 1998 and Petroleum Supply Monthly, June 1999.

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.

Oil Demand

United States: EIA, Petroleum Supply Annual 1998 and Petroleum Supply Monthly, June 1999.

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



## 2. International Oil Balance Data



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

	1995			1996			1997			1998			1999			
	Annual			Annual			Quarter			Quarter			Annual			
	Average	First	Second	Third	Fourth	Average	First	Second	Third	Fourth	Average	First	Second	Third	Fourth	Average
OECD	9.40	9.44	9.46	9.44	9.01	9.13	9.54	9.44	9.01	9.13	9.28	8.98	NA	NA	NA	NA
United States <sup>1</sup> /.....	2.45	2.49	2.62	2.63	2.75	2.74	2.66	2.63	2.75	2.74	2.70	2.58	NA	NA	NA	NA
Canada.....	5.80	6.22	6.20	6.17	5.86	6.26	6.42	6.17	5.86	6.26	6.18	6.29	NA	NA	NA	NA
North Sea <sup>2</sup> /.....	1.53	1.55	1.59	1.63	1.63	1.44	1.58	1.63	1.63	1.44	1.57	1.51	NA	NA	NA	NA
Other OECD.....	19.18	19.71	19.88	19.87	19.24	19.58	20.21	19.87	19.24	19.58	19.72	19.36	NA	NA	NA	NA
Total OECD.....																
Non-OECD																
OPEC																
Crude																
Algeria.....	1.20	1.24	1.28	1.25	1.22	1.22	1.29	1.25	1.22	1.22	1.25	1.24	NA	NA	NA	NA
Indonesia.....	1.50	1.55	1.52	1.51	1.50	1.54	1.52	1.51	1.50	1.54	1.52	1.53	NA	NA	NA	NA
Iran.....	3.64	3.69	3.66	3.77	3.57	3.57	3.63	3.77	3.57	3.57	3.63	3.79	NA	NA	NA	NA
Iraq.....	.56	.58	1.15	2.05	2.49	2.45	1.59	2.05	2.49	2.45	2.15	2.53	NA	NA	NA	NA
Kuwait.....	2.06	2.06	2.08	2.11	2.02	2.00	2.21	2.11	2.02	2.00	2.09	2.01	NA	NA	NA	NA
Libya.....	1.39	1.40	1.45	1.37	1.35	1.34	1.45	1.37	1.35	1.34	1.38	1.36	NA	NA	NA	NA
Nigeria.....	1.99	2.00	2.33	2.29	2.06	2.04	2.29	2.23	2.06	2.04	2.15	2.09	NA	NA	NA	NA
Qatar.....	.44	.51	.65	.70	.68	.67	.73	.70	.68	.67	.70	.72	NA	NA	NA	NA
Saudi Arabia..	8.23	8.22	8.56	8.51	8.22	8.17	8.66	8.51	8.22	8.17	8.39	8.15	NA	NA	NA	NA
United Arab																
Emirates...	2.23	2.28	2.32	2.35	2.29	2.29	2.45	2.35	2.29	2.29	2.35	2.27	NA	NA	NA	NA
Venezuela....	2.75	2.94	3.31	3.42	3.00	3.02	3.42	3.23	3.00	3.02	3.17	2.99	NA	NA	NA	NA
Natural Gas																
Plant Liquids	1.51	1.50	1.61	1.62	1.59	1.59	1.63	1.62	1.59	1.59	1.61	1.59	NA	NA	NA	NA
Processing Gain.	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	NA	NA	NA	NA
Total OPEC.....	27.57	28.02	29.99	30.93	30.06	29.97	30.93	30.76	30.06	29.97	30.43	30.32	NA	NA	NA	NA
Former USSR.....	7.14	7.05	7.22	7.29	7.22	7.30	7.29	7.16	7.22	7.30	7.24	7.23	NA	NA	NA	NA
China.....	2.99	3.13	3.20	3.19	3.20	3.20	3.19	3.20	3.20	3.20	3.20	3.23	NA	NA	NA	NA
Mexico.....	3.09	3.31	3.44	3.57	3.48	3.48	3.57	3.57	3.48	3.48	3.52	3.56	NA	NA	NA	NA
Other Non-OECD....	9.87	10.18	10.62	10.76	10.79	10.98	10.76	10.78	10.79	10.98	10.83	11.06	NA	NA	NA	NA
Total Non-OECD....	50.66	51.69	54.47	55.74	54.76	54.93	55.74	55.46	54.76	54.93	55.22	55.40	NA	NA	NA	NA
Total Supply.....	69.84	71.39	74.34	75.94	74.00	74.51	75.94	75.33	74.00	74.51	74.94	74.76	NA	NA	NA	NA

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

<sup>2</sup>/ 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)

	Year End			Quarter				Quarter				
	1995	1996	1997	1998				1999				
				First	Second	Third	Fourth	First	Second	Third	Fourth	
OECD												
United States <sup>1/</sup>												
Commercial.....	971	941	997	1,024	1,088	1,089	1,076	1,036	NA	NA	NA	NA
Strategic.....	592	566	563	563	563	563	571	572	NA	NA	NA	NA
U. S. Territories.....	24	25	23	25	28	29	22	22	NA	NA	NA	NA
Canada.....	109	103	115	118	116	120	118	116	NA	NA	NA	NA
Japan.....	630	651	685	655	658	676	649	634	NA	NA	NA	NA
OECD Europe												
France.....	159	158	164	155	164	170	161	169	NA	NA	NA	NA
Germany.....	301	300	298	285	308	317	321	306	NA	NA	NA	NA
Italy.....	162	152	147	146	164	158	153	149	NA	NA	NA	NA
United Kingdom.....	107	108	105	109	109	107	108	109	NA	NA	NA	NA
Other OECD Europe.....	499	537	542	551	567	573	560	560	NA	NA	NA	NA
Total.....	1,228	1,256	1,256	1,245	1,312	1,325	1,304	1,293	NA	NA	NA	NA
Australia & New Zealand	47	49	51	48	54	50	44	50	NA	NA	NA	NA
Total OECD.....	3,601	3,591	3,689	3,678	3,819	3,853	3,784	3,723	NA	NA	NA	NA
Stocks for Export												
and Afloat <sup>2/</sup> .....	980	985	1,030	1,070	1,050	1,030	1,035	1,050	NA	NA	NA	NA
Commercial Floating <sup>3/</sup> .....	70	70	70	80	90	110	100	90	NA	NA	NA	NA

<sup>1/</sup> 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.

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

<sup>3/</sup> 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, 1995-1998  
(Million Barrels Per Day)

	1995		1996		1997		1998				1999							
	Annual		Annual		Annual		Quarter		Quarter		Quarter		Quarter					
	Average	Average	First	Second	Third	Fourth	Average	First	Second	Third	Fourth	Average	First	Second	Third	Fourth	Average	
OECD																		
United States <sup>1</sup> /.....	17.72	18.31	18.62	18.46	18.86	19.24	19.10	18.92	19.19	NA	NA	NA	NA	NA	NA	NA	NA	NA
U. S. Territories.....	.25	.26	.28	.30	.26	.27	.29	.28	.21	NA	NA	NA	NA	NA	NA	NA	NA	NA
Canada.....	1.76	1.80	1.86	1.85	1.82	1.93	1.92	1.88	1.87	NA	NA	NA	NA	NA	NA	NA	NA	NA
Japan.....	5.71	5.87	5.71	6.15	4.97	5.23	5.69	5.51	6.17	NA	NA	NA	NA	NA	NA	NA	NA	NA
OECD Europe <sup>2</sup> /																		
France.....	1.90	1.93	1.96	2.06	1.93	2.00	2.08	2.02	2.09	NA	NA	NA	NA	NA	NA	NA	NA	NA
Italy.....	2.05	2.06	2.04	2.10	2.00	2.00	2.15	2.06	2.07	NA	NA	NA	NA	NA	NA	NA	NA	NA
United Kingdom.....	1.84	1.85	1.80	1.84	1.74	1.78	1.82	1.79	1.82	NA	NA	NA	NA	NA	NA	NA	NA	NA
Germany <sup>3</sup> /.....	2.88	2.91	2.90	2.95	2.79	2.96	2.94	2.91	3.08	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other OECD Europe.....	5.45	5.52	5.73	5.94	5.72	5.86	6.21	5.93	6.13	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total OECD Europe.....	14.12	14.27	14.43	14.88	14.17	14.60	15.21	14.71	15.18	NA	NA	NA	NA	NA	NA	NA	NA	NA
Australia & New Zealand	.99	.93	.95	.93	.96	.92	.97	.94	.97	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total OECD.....	40.55	41.43	41.85	42.56	41.04	42.19	43.18	42.25	43.59	NA	NA	NA	NA	NA	NA	NA	NA	NA
Non-OECD																		
China.....	3.32	3.52	3.79	3.83	3.89	3.93	3.99	3.91	4.02	NA	NA	NA	NA	NA	NA	NA	NA	NA
Former USSR.....	4.60	4.03	4.26	4.48	4.03	4.03	4.39	4.23	4.40	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other Non-OECD.....	21.40	22.34	23.11	23.32	23.18	22.74	24.29	23.38	23.70	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Non-OECD.....	29.32	29.89	31.16	31.64	31.11	30.71	32.67	31.53	32.11	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total World Demand.....	69.88	71.32	73.01	74.20	72.14	72.90	75.85	73.78	75.70	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

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

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

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

Sources: See end of Section 2.

## Sources for Section 2 (International Oil Balance Data)

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

United States: Energy Information Administration (EIA), Petroleum Supply Annual 1998 and Petroleum Supply Monthly, June 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 1998 and Petroleum Supply Monthly, June 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, 1995-1999. 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 1998 and Petroleum Supply Monthly, June 1999.

Other OECD Countries: • OECD, Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Monthly Oil Statistics data base, 1995-1999.

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 <sup>1/</sup>	Italy	Other Europe <sup>2/</sup>	United States <sup>3/</sup>	Canada	Japan	Other <sup>4/</sup>	
Total Net Imports..	22.409	7.893	-1.019	1.878	2.888	1.831	2.315	9.764	-0.900	5.406	0.246
Imports from OPEC <sup>5/</sup>	16.928	6.692	.213	1.029	.656	1.421	3.371	4.881	.294	4.467	.594
Imports from Persian Gulf <sup>6/</sup>											
Total.....	10.509	3.951	.108	.730	.163	.658	2.294	2.131	.097	4.132	.197
Bahrain.....	.021	.004	.000	.002	.000	.002	.000	-.001	-	.016	.003
Iran.....	1.497	1.021	.009	.157	.020	.273	.561	.000	.000	.473	.003
Iraq.....	1.107	.724	-	.171	.020	.108	.426	.336	.014	.017	.016
Kuwait.....	1.070	.275	.025	.019	.016	.000	.215	.301	.000	.507	-.014
U.A.E.....	1.466	.017	.001	.012	.000	.000	.004	.000	-	1.402	.047
Qatar.....	.468	.000	.000	.000	.000	.000	.000	.004	-	.450	.014
Saudi Arabia.....	4.881	1.910	.073	.369	.106	.274	1.087	1.491	.084	1.268	.129
Imports from OPEC-Africa											
Total.....	3.738	2.505	.078	.301	.447	.723	.956	.983	.094	.025	.131
Algeria.....	1.075	.708	.021	.115	.127	.083	.362	.290	.071	.012	-.006
Libya.....	1.297	1.297	.046	.061	.277	.601	.312	.000	-	-	.000
Nigeria.....	1.366	.501	.011	.126	.043	.039	.282	.693	.023	.013	.137
Imports from OPEC-South America											
Total.....	2.140	.215	.028	.000	.046	.020	.121	1.701	.103	.000	.122
Venezuela.....	2.140	.215	.028	.000	.046	.020	.121	1.701	.103	.000	.122
Imports from OPEC-Far East											
Total.....	.561	.024	-	.000	.000	.023	.000	.065	.000	.326	.146
Indonesia.....	.561	.024	-	.000	.000	.023	.000	.065	.000	.326	.146

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, (1st Quarter 1999)  
(Million Barrels per Day)

Total	OECD Europe					OECD Outside Europe				
	Total	United Kingdom	France	Germany <sup>1</sup> /	Italy	Other Europe <sup>2</sup> /	United States <sup>3</sup> /	Canada	Japan	Other <sup>4</sup> /
Total Net Imports..	23.559	8.122	1.939	2.837	1.877	2.504	9.563	-0.810	5.986	0.698
Imports from OPEC <sup>5</sup> /	NA	NA	NA	.626	1.417	3.253	4.952	.276	4.822	.681
Imports from Persian Gulfs <sup>6</sup> /										
Total.....	NA	.045	NA	.142	.633	2.154	2.433	.126	4.461	.200
Bahrain.....	NA	-	NA	-	.000	-	.000	-	.019	.000
Iran.....	NA	.000	NA	.004	.341	.572	.000	.000	.596	.000
Iraq.....	NA	-	NA	.041	.091	.387	.647	.034	.011	.036
Kuwait.....	NA	.000	NA	.014	.000	.219	.000	.000	.559	.001
U.A.E.....	NA	.000	NA	.000	.000	.000	-.003	-	1.475	.022
Qatar.....	NA	-	NA	-	-	.000	.012	-	.446	.001
Saudi Arabia.....	NA	.045	NA	.084	.202	.975	1.557	.092	1.354	.139
Imports from OPEC-Africa										
Total.....	NA	.056	NA	.456	.778	.895	.923	.059	.052	.093
Algeria.....	NA	.022	NA	.105	.137	.349	.248	.049	.017	.001
Libya.....	NA	.034	NA	.297	.576	.281	.000	-	-	.000
Nigeria.....	NA	.000	NA	.053	.066	.265	.675	.010	.035	.092
Imports from OPEC-South America										
Total.....	NA	.022	NA	.028	.006	.203	1.535	.091	.000	.215
Venezuela.....	NA	.022	NA	.028	.006	.203	1.535	.091	.000	.215
Imports from OPEC-Far East										
Total.....	NA	-	NA	.000	.000	.000	.061	-	.328	.173
Indonesia.....	NA	-	NA	.000	.000	.000	.061	-	.328	.173

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

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

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

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

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

<sup>6</sup>/ 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. \*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, (4th Quarter 1998)  
(Million Barrels per Day)

	OECD Europe										OECD Outside Europe										
	Total	United Kingdom	France	Germany <sup>1/</sup>	Italy	Other Europe <sup>2/</sup>	United States <sup>3/</sup>	Canada	Japan	Other <sup>4/</sup>	Total	United Kingdom	France	Germany <sup>1/</sup>	Italy	Other Europe <sup>2/</sup>	United States <sup>3/</sup>	Canada	Japan	Other <sup>4/</sup>	
Total Net Imports..	22.519	7.882	-1.140	1.876	2.903	1.863	2.381	9.815	-0.904	5.436	0.289										
Imports from OPEC <sup>5/</sup>	16.892	6.704	.186	.975	.712	1.443	3.388	4.840	.275	4.460	.613										
Imports from																					
Persian Gulf <sup>6/</sup>																					
Total.....	10.502	3.946	.080	.657	.184	.733	2.291	2.150	.108	4.114	.185										
Bahrain.....	.022	.000	.000	.000	.000	.000	.000	.000	-	.022	.000										
Iran.....	1.540	1.002	.000	.135	.025	.327	.515	.000	.000	.538	.000										
Iraq.....	1.478	.797	-	.140	.040	.117	.500	.555	.032	.045	.049										
Kuwait.....	1.036	.297	.011	.001	.012	.000	.272	.231	.002	.505	.001										
U.A.E.....	1.439	.028	.000	.020	.000	.000	.008	-.004	-	1.395	.020										
Qatar.....	.403	.000	.000	.000	.000	.000	.000	.000	.000	.403	.000										
Saudi Arabia.....	4.584	1.821	.069	.361	.107	.289	.996	1.368	.074	1.206	.115										
Imports from																					
OPEC-Africa																					
Total.....	3.582	2.521	.080	.319	.484	.686	.953	.800	.085	.041	.135										
Algeria.....	1.093	.771	.039	.140	.159	.079	.354	.236	.075	.011	.000										
Libya.....	1.302	1.302	.041	.075	.280	.567	.339	.000	-	-	.000										
Nigeria.....	1.187	.448	.000	.104	.045	.040	.260	.564	.010	.030	.134										
Imports from																					
OPEC-South America																					
Total.....	2.200	.233	.026	.000	.044	.020	.143	1.763	.082	.000	.121										
Venezuela.....	2.200	.233	.026	.000	.044	.020	.143	1.763	.082	.000	.121										
Imports from																					
OPEC-Far East																					
Total.....	.630	.004	-	.000	.000	.004	.001	.127	.000	.327	.171										
Indonesia.....	.630	.004	-	.000	.000	.004	.001	.127	.000	.327	.171										

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

	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb	Mar
Total.....	21.850	23.759	21.296	22.926	24.040	22.485	22.885	22.525	22.147	23.882	22.217	24.448
United States <sup>1/</sup> .....	10.057	10.051	9.939	10.651	10.252	9.636	10.011	10.078	9.365	9.285	9.580	9.825
Canada.....	-.930	-.911	-.977	-.877	-.777	-.753	-.867	-.861	-.982	-.737	-1.090	-.630
OECD Europe <sup>2/</sup> .....	7.870	9.048	7.291	7.616	8.826	8.008	8.325	7.586	7.727	8.874	7.130	8.268
Main European Importers												
France.....	2.116	1.980	1.618	1.965	1.875	1.915	1.838	1.923	1.867	2.007	1.991	1.825
Germany <sup>3/</sup> .....	2.920	3.034	2.894	3.140	2.909	2.855	2.904	2.845	2.957	2.792	2.698	3.007
Italy.....	2.080	1.810	1.803	1.563	1.902	1.684	1.901	1.885	1.805	2.067	1.618	1.923
Spain.....	1.397	1.428	1.254	1.332	1.355	1.398	1.341	1.394	1.587	1.425	1.324	1.648
Netherlands.....	.712	.879	.813	.687	.856	.717	.869	.748	.631	1.027	.619	.709
European Net Exporters												
Norway.....	-3.284	-2.701	-3.270	-3.063	-2.445	-2.939	-2.806	-2.974	-3.088	-2.827	-3.225	-3.028
United Kingdom....	-1.268	-.702	-.828	-.940	-.949	-.968	-1.043	-1.352	-1.031	-1.046	-1.042	-1.019
Smaller European Importers												
Austria.....	.244	.242	.248	.250	.226	.245	.226	.241	.225	.229	.215	.236
Belgium.....	.637	.596	.594	.557	.612	.617	.603	.595	.641	.562	.685	.538
Denmark.....	.055	.043	.003	-.035	.007	.019	-.025	-.008	-.033	.007	-.071	-.037
Ireland.....	.134	.156	.123	.164	.138	.138	.142	.179	.147	.167	.163	.157
Finland.....	.146	.307	.152	.198	.227	.256	.277	.184	.166	.307	.089	.180
Greece.....	.463	.277	.387	.254	.436	.434	.381	.317	.391	.408	.496	.469
Iceland.....	.011	.018	.005	.033	.015	.021	.017	.021	.009	.018	.011	.025
Luxembourg.....	.043	.039	.038	.047	.037	.044	.044	.042	.049	.041	.043	.048
Portugal.....	.297	.361	.352	.291	.368	.316	.334	.363	.218	.409	.313	.343
Sweden.....	.440	.444	.351	.331	.355	.366	.388	.382	.336	.417	.377	.378
Switzerland.....	.283	.285	.311	.296	.258	.255	.271	.237	.275	.258	.251	.263
Turkey.....	.446	.551	.443	.548	.646	.635	.661	.563	.575	.606	.574	.602
Japan.....	5.160	5.142	4.748	5.420	5.456	5.309	5.306	5.297	5.702	5.777	5.960	6.218
Other OECD.....	-.307	.430	.297	.117	.283	.285	.111	.425	.335	.683	.637	.767

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)

	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb	Mar
	1998											
	1999											
Total.....	16.532	17.365	16.582	17.561	17.805	16.606	17.044	16.800	16.829	NA	NA	NA
United States <sup>1</sup> /.....	5.050	5.041	4.936	5.373	5.228	4.734	5.157	4.821	4.542	4.713	5.043	5.108
Canada.....	.304	.365	.356	.292	.333	.273	.312	.302	.212	.419	.000	.381
OECD Europe <sup>2</sup> /.....	6.614	6.877	6.716	6.809	7.104	6.609	6.738	6.691	6.682	NA	NA	NA
Main European Importers												
France.....	1.171	1.092	.945	1.098	1.177	1.113	.840	.976	1.109	NA	NA	NA
Germany <sup>3</sup> /.....	.601	.732	.595	.722	.690	.620	.701	.668	.765	.699	.557	.615
Italy.....	1.518	1.429	1.423	1.437	1.490	1.260	1.525	1.494	1.311	1.560	1.195	1.475
Spain.....	.868	.811	.826	.870	.881	.789	.928	.870	.904	.879	.804	.796
Netherlands.....	.643	.761	.920	.757	.884	.988	.896	.828	.934	.961	.854	.819
European Net Exporters												
Norway.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
United Kingdom....	.156	.280	.294	.314	.169	.171	.160	.211	.189	.152	.110	.105
Smaller European Importers												
Austria.....	.141	.124	.115	.103	.125	.141	.131	.131	.103	.088	.132	.130
Belgium.....	.326	.381	.424	.319	.426	.348	.354	.309	.336	.241	.157	.280
Denmark.....	.033	.068	.009	.031	.040	.032	.048	.033	.032	.031	.027	.035
Finland.....	.000	.006	.009	.018	.000	.000	.001	.000	.001	.000	.000	.000
Greece.....	.414	.286	.356	.323	.346	.428	.291	.334	.348	.374	.352	.343
Portugal.....	.154	.225	.179	.231	.214	.145	.161	.229	.103	.150	.134	.207
Sweden.....	.167	.126	.151	.118	.103	.024	.091	.091	.058	.158	.090	.093
Switzerland.....	.102	.098	.107	.111	.106	.097	.113	.093	.109	.095	.090	.115
Turkey.....	.320	.457	.368	.356	.453	.452	.496	.424	.380	.430	.442	.434
Japan.....	4.277	4.367	3.992	4.440	4.532	4.383	4.358	4.344	4.675	4.573	4.809	5.082
Other OECD.....	.287	.715	.582	.647	.608	.606	.478	.643	.718	.638	.646	.755

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

2/ "OECD Europe" consists of Austria, Belgium, 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 (.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)

1999

1998

	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb	Mar
Total.....	10.383	10.793	10.152	10.902	11.129	10.743	10.250	10.741	10.523	NA	NA	NA
United States1/.....	2.106	1.895	2.200	2.348	2.482	2.382	2.187	2.149	2.114	2.111	2.393	2.791
Canada.....	.070	.139	.170	.107	.185	.024	.140	.151	.034	.165	.000	.201
OECD Europe2/.....	4.082	4.418	3.924	4.166	4.157	4.075	3.800	4.135	3.908	NA	NA	NA
Main European Importers												
France.....	.851	.913	.712	.824	.734	.805	.571	.706	.694	NA	NA	NA
Germany3/.....	.178	.202	.150	.193	.154	.177	.206	.141	.204	.171	.151	.105
Italy.....	.688	.740	.619	.714	.694	.635	.778	.764	.658	.616	.598	.682
Spain.....	.471	.487	.387	.502	.454	.324	.367	.458	.404	.390	.398	.399
Netherlands.....	.496	.601	.729	.602	.747	.825	.696	.685	.785	.805	.650	.673
European Net Exporters												
Norway.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	-	-	-
United Kingdom....	.102	.177	.135	.147	.082	.089	.056	.123	.064	.082	.028	.023
Smaller European Importers												
Austria.....	.048	.080	.026	.044	.023	.054	.055	.067	.064	.008	.052	.069
Belgium.....	.311	.353	.359	.294	.373	.316	.289	.267	.307	.191	.093	.215
Denmark.....	.008	.021	.003	.000	.015	.013	.024	.001	.000	.000	.000	.000
Finland.....	.000	.000	.000	.018	.000	.000	.000	.000	.000	.000	.000	.000
Greece.....	.399	.254	.330	.311	.300	.395	.277	.321	.304	.356	.316	.311
Portugal.....	.121	.151	.102	.195	.157	.114	.096	.194	.099	.084	.133	.150
Sweden.....	.136	.081	.106	.068	.062	.000	.063	.070	.058	.131	.075	.068
Switzerland.....	.017	.017	.010	.018	.013	.006	.010	.005	.000	.000	.000	.000
Turkey.....	.257	.341	.256	.238	.349	.322	.312	.331	.267	.257	.336	.289
Japan.....	4.032	4.084	3.659	4.073	4.067	4.015	4.030	3.985	4.322	4.163	4.522	4.704
Other OECD.....	.093	.257	.199	.207	.238	.247	.093	.321	.146	.193	.190	.215

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

	1998												1999											
	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb	Mar
Total Net Imports..	10.057	10.051	9.939	10.651	10.252	9.636	10.011	10.078	9.365	9.285	9.580	9.825	10.057	10.051	9.939	10.651	10.252	9.636	10.011	10.078	9.365	9.285	9.580	9.825
Imports from OPEC <sup>1</sup> /	5.050	5.041	4.936	5.373	5.228	4.734	5.157	4.821	4.542	4.713	5.043	5.108	5.050	5.041	4.936	5.373	5.228	4.734	5.157	4.821	4.542	4.713	5.043	5.108
Imports from Persian Gulf <sup>2</sup> /	2.106	1.895	2.200	2.348	2.482	2.382	2.187	2.149	2.114	2.111	2.393	2.791	2.106	1.895	2.200	2.348	2.482	2.382	2.187	2.149	2.114	2.111	2.393	2.791
Bahrain.....	-.003	.000	-.003	.000	.000	.000	.000	.000	.000	.000	.000	.000	-.003	.000	-.003	.000	.000	.000	.000	.000	.000	.000	.000	.000
Iran.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Iraq.....	.254	.137	.270	.286	.713	.517	.636	.542	.486	.471	.681	.791	.254	.137	.270	.286	.713	.517	.636	.542	.486	.471	.681	.791
Kuwait.....	.311	.399	.275	.435	.273	.259	.241	.224	.228	.132	.205	.324	.311	.399	.275	.435	.273	.259	.241	.224	.228	.132	.205	.324
U.A.E.....	.017	-.003	-.003	-.003	-.002	.000	-.006	-.003	-.002	-.003	-.003	-.003	.017	-.003	-.003	-.003	-.002	.000	-.006	-.003	-.002	-.003	-.003	-.003
Qatar.....	.000	.000	.015	.015	.000	.000	.000	.000	.000	.000	.000	.034	.000	.000	.015	.015	.000	.000	.000	.000	.000	.000	.000	.034
Saudi Arabia.....	1.527	1.362	1.646	1.615	1.498	1.606	1.316	1.386	1.402	1.511	1.510	1.645	1.527	1.362	1.646	1.615	1.498	1.606	1.316	1.386	1.402	1.511	1.510	1.645
Imports from OPEC-Africa	1.158	1.229	1.132	1.180	1.000	.808	.917	.793	.690	.919	.890	.957	1.158	1.229	1.132	1.180	1.000	.808	.917	.793	.690	.919	.890	.957
Algeria.....	.336	.330	.362	.308	.264	.306	.289	.219	.200	.240	.203	.298	.336	.330	.362	.308	.264	.306	.289	.219	.200	.240	.203	.298
Libya.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Nigeria.....	.822	.899	.770	.872	.736	.502	.628	.574	.490	.679	.687	.822	.899	.770	.872	.736	.502	.628	.574	.490	.679	.687	.822	.899
Imports from OPEC-South America	1.739	1.896	1.602	1.749	1.688	1.471	1.952	1.696	1.639	1.604	1.694	1.321	1.739	1.896	1.602	1.749	1.688	1.471	1.952	1.696	1.639	1.604	1.694	1.321
Venezuela.....	1.739	1.896	1.602	1.749	1.688	1.471	1.952	1.696	1.639	1.604	1.694	1.321	1.739	1.896	1.602	1.749	1.688	1.471	1.952	1.696	1.639	1.604	1.694	1.321
Imports from OPEC-Far East	.044	.021	-.001	.096	.058	.073	.101	.183	.099	.079	.066	.039	.044	.021	-.001	.096	.058	.073	.101	.183	.099	.079	.066	.039
Indonesia.....	.044	.021	-.001	.096	.058	.073	.101	.183	.099	.079	.066	.039	.044	.021	-.001	.096	.058	.073	.101	.183	.099	.079	.066	.039

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.

\*Zerces (.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

	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb	Mar
Total Net Imports...	5.160	5.142	4.748	5.420	5.456	5.309	5.306	5.297	5.702	5.777	5.960	6.218
Imports from OPEC <sup>1/</sup>	4.277	4.367	3.992	4.440	4.532	4.383	4.358	4.344	4.675	4.573	4.809	5.082
Imports from Persian Gulf <sup>2/</sup>												
Total.....	4.032	4.084	3.659	4.073	4.067	4.015	4.030	3.985	4.322	4.163	4.522	4.704
Bahrain.....	.013	.012	.017	.008	.016	.010	.028	.022	.015	.020	.031	.008
Iran.....	.282	.302	.454	.424	.581	.477	.432	.416	.761	.418	.584	.785
Iraq.....	.000	.000	.000	.000	.000	.073	.103	.032	.000	.000	.036	.000
Kuwait.....	.437	.531	.421	.443	.478	.482	.501	.505	.510	.492	.602	.588
U.A.E.....	1.606	1.341	1.161	1.459	1.338	1.349	1.395	1.297	1.488	1.502	1.411	1.507
Qatar.....	.482	.487	.334	.474	.504	.428	.387	.462	.361	.457	.422	.456
Saudi Arabia.....	1.211	1.409	1.272	1.265	1.149	1.196	1.184	1.250	1.185	1.273	1.436	1.361
Imports from OPEC-Africa												
Total.....	.019	.000	.034	.017	.041	.045	.096	.028	.000	.138	.014	.000
Algeria.....	.019	.000	.034	.017	.000	.025	.006	.028	.000	.050	.000	.000
Nigeria.....	.000	.000	.000	.000	.041	.020	.090	.000	.000	.088	.014	.000
Imports from OPEC-South America												
Total.....	.000	.000	.000	.001	.001	.000	.000	.000	.000	.000	.000	.001
Venezuela.....	.000	.000	.000	.001	.001	.000	.000	.000	.000	.000	.000	.001
Imports from OPEC-Far East												
Total.....	.239	.295	.316	.357	.439	.334	.260	.353	.369	.292	.305	.385
Indonesia.....	.239	.295	.316	.357	.439	.334	.260	.353	.369	.292	.305	.385

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											
	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb	Mar
Total Net Imports..	7.870	9.048	7.291	7.616	8.826	8.008	8.325	7.586	7.727	8.874	7.130	8.268
Imports from OPEC <sup>1/</sup>	6.614	6.877	6.716	6.809	7.104	6.609	6.738	6.691	6.682	NA	NA	NA
Imports from Persian Gulf <sup>2/</sup>	4.082	4.418	3.924	4.166	4.157	4.075	3.800	4.135	3.908	NA	NA	NA
Bahrain.....	.000	.000	.000	.000	.001	.011	.001	.000	.000	NA	NA	NA
Iran.....	.958	1.173	1.151	1.250	1.089	1.056	1.008	1.104	.897	NA	NA	NA
Iraq.....	.835	.837	.451	.884	1.057	.904	.729	.726	.934	NA	NA	NA
Kuwait.....	.151	.272	.297	.145	.265	.391	.304	.188	.395	NA	NA	NA
U.A.E.....	.033	.000	.061	.022	.000	.004	.000	.000	.084	NA	NA	NA
Qatar.....	.000	.000	.000	.001	.000	.000	.000	.000	.000	NA	NA	NA
Saudi Arabia.....	2.105	2.136	1.965	1.865	1.746	1.709	1.758	2.117	1.598	NA	NA	NA
Imports from OPEC-Africa												
Total.....	2.340	2.160	2.452	2.439	2.727	2.350	2.626	2.308	2.623	NA	NA	NA
Algeria.....	.535	.598	.623	.678	.701	.708	.739	.737	.835	NA	NA	NA
Libya.....	1.377	1.306	1.288	1.326	1.351	1.210	1.341	1.247	1.316	NA	NA	NA
Nigeria.....	.427	.256	.541	.436	.676	.432	.546	.323	.472	NA	NA	NA
Imports from OPEC-South America												
Total.....	.155	.278	.314	.180	.202	.195	.309	.240	.150	NA	NA	NA
Venezuela.....	.155	.278	.314	.180	.202	.195	.309	.240	.150	NA	NA	NA
Imports from OPEC-Far East												
Total.....	.037	.021	.026	.024	.018	.000	.004	.008	.001	NA	NA	NA
Indonesia.....	.037	.021	.026	.024	.018	.000	.004	.008	.001	NA	NA	NA

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

<sup>2/</sup> 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. 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. \*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 3.10 France--Net Oil Imports (Most Recent 12 Months)  
(Million Barrels per Day)

1998

1999

	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb	Mar
Total Net Imports..	2.116	1.980	1.618	1.965	1.875	1.915	1.838	1.923	1.867	2.007	1.991	1.825
Imports from OPEC1/	1.171	1.092	.945	1.098	1.177	1.113	.840	.976	1.109	NA	NA	NA
Imports from Persian Gulf2/	.851	.913	.712	.824	.734	.805	.571	.706	.694	NA	NA	NA
Total.....	.000	.000	.000	.000	.001	.011	.001	.000	.000	NA	NA	NA
Bahrain.....	.099	.229	.164	.261	.148	.100	.118	.155	.132	NA	NA	NA
Iran.....	.294	.193	.167	.214	.247	.254	.125	.104	.189	NA	NA	NA
Iraq.....	.000	.066	.000	.000	.000	.065	.003	.000	.000	NA	NA	NA
Kuwait.....	.016	.000	.061	.000	.000	.000	.000	.000	.059	NA	NA	NA
U.A.E.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	NA	NA	NA
Qatar.....	.442	.424	.321	.349	.339	.375	.324	.447	.313	NA	NA	NA
Saudi Arabia.....												
Imports from OPEC-Africa	.320	.178	.232	.274	.443	.319	.269	.269	.416	NA	NA	NA
Total.....	.120	.062	.048	.093	.137	.120	.124	.174	.122	NA	NA	NA
Algeria.....	.103	.085	.020	.047	.061	.063	.025	.060	.141	NA	NA	NA
Libya.....	.096	.031	.164	.134	.245	.136	.121	.035	.153	NA	NA	NA
Nigeria.....												
Imports from OPEC-South America	.000	.000	.000	.000	.000	.000	.000	.000	.000	-	-	-
Total.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	-	-	-
Venezuela.....												
Imports from OPEC-Far East	.000	.001	.001	.001	.001	.000	.001	.000	.000	NA	NA	NA
Total.....	.000	.001	.001	.001	.001	.000	.001	.000	.000	NA	NA	NA
Indonesia.....												

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											
	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb	Mar
Total Net Imports..	2.920	3.034	2.894	3.140	2.909	2.855	2.904	2.845	2.957	2.792	2.698	3.007	2.920	3.034	2.894	3.140	2.909	2.855	2.904	2.845	2.957	2.792	2.698	3.007
Imports from OPEC <sup>1/</sup>	.601	.732	.595	.722	.690	.620	.701	.668	.765	.699	.557	.615	.601	.732	.595	.722	.690	.620	.701	.668	.765	.699	.557	.615
Imports from Persian Gulf <sup>2/</sup>	.178	.202	.150	.193	.154	.177	.206	.141	.204	.171	.151	.105	.178	.202	.150	.193	.154	.177	.206	.141	.204	.171	.151	.105
Bahrain.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Iran.....	.014	.017	.011	.045	.021	.026	.046	.020	.010	.000	.006	.005	.014	.017	.011	.045	.021	.026	.046	.020	.010	.006	.005	.014
Iraq.....	.034	.027	.013	.018	.011	.014	.023	.018	.078	.085	.036	.001	.034	.027	.013	.018	.011	.014	.023	.018	.078	.085	.036	.001
Kuwait.....	.021	.024	.027	.014	.014	.022	.016	.005	.016	.010	.012	.020	.021	.024	.027	.014	.014	.022	.016	.005	.016	.010	.012	.020
U.A.E.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.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	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Saudi Arabia.....	.109	.135	.099	.116	.109	.115	.122	.098	.100	.076	.097	.079	.109	.135	.099	.116	.109	.115	.122	.098	.100	.076	.097	.079
Imports from OPEC-Africa	.368	.429	.402	.479	.483	.405	.403	.519	.531	.514	.368	.477	.368	.429	.402	.479	.483	.405	.403	.519	.531	.514	.368	.477
Algeria.....	.050	.139	.131	.120	.158	.077	.097	.214	.169	.122	.079	.111	.050	.139	.131	.120	.158	.077	.097	.214	.169	.122	.079	.111
Libya.....	.275	.260	.256	.333	.290	.292	.287	.240	.311	.333	.270	.286	.275	.260	.256	.333	.290	.292	.287	.240	.311	.333	.270	.286
Nigeria.....	.043	.030	.015	.026	.035	.037	.019	.065	.050	.059	.019	.079	.043	.030	.015	.026	.035	.037	.019	.065	.050	.059	.019	.079
Imports from OPEC-South America	.055	.100	.044	.050	.053	.038	.092	.008	.030	.015	.039	.033	.055	.100	.044	.050	.053	.038	.092	.008	.030	.015	.039	.033
Venezuela.....	.055	.100	.044	.050	.053	.038	.092	.008	.030	.015	.039	.033	.055	.100	.044	.050	.053	.038	.092	.008	.030	.015	.039	.033
Imports from OPEC-Far East	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Total.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.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	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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

<sup>2/</sup> 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					
	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb	Mar
Total Net Imports..	2.080	1.810	1.803	1.563	1.902	1.684	1.901	1.885	1.805	2.067	1.618	1.923
Imports from OPEC <sup>1/</sup>	1.518	1.429	1.423	1.437	1.490	1.260	1.525	1.494	1.311	1.560	1.195	1.475
Imports from Persian Gulf <sup>2/</sup>												
Total.....	.688	.740	.619	.714	.694	.635	.778	.764	.658	.616	.598	.682
Bahrain.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Iran.....	.252	.333	.329	.273	.256	.276	.394	.279	.306	.332	.356	.337
Iraq.....	.108	.133	.075	.149	.153	.187	.130	.123	.099	.082	.080	.109
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.....	.328	.273	.216	.293	.285	.171	.254	.362	.253	.203	.162	.237
Imports from OPEC-Africa												
Total.....	.778	.662	.711	.700	.778	.617	.737	.678	.642	.936	.597	.784
Algeria.....	.080	.048	.076	.091	.100	.079	.072	.062	.102	.185	.105	.117
Libya.....	.698	.607	.626	.567	.647	.530	.618	.578	.505	.627	.485	.607
Nigeria.....	.000	.006	.010	.042	.031	.007	.047	.038	.035	.124	.008	.060
Imports from OPEC-South America												
Total.....	.016	.007	.067	.000	.000	.009	.007	.044	.011	.007	.000	.010
Venezuela.....	.016	.007	.067	.000	.000	.009	.007	.044	.011	.007	.000	.010
Imports from OPEC-Far East												
Total.....	.037	.020	.025	.023	.018	.000	.003	.007	.000	.000	.000	.000
Indonesia.....	.037	.020	.025	.023	.018	.000	.003	.007	.000	.000	.000	.000

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

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

Notes: \*Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. \*Negative numbers represent net exports. \*A dash (-) indicates no trade. \*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)

	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb	Mar
1998												
1999												
Total.....	1.076	1.029	0.744	1.170	1.793	1.510	1.561	1.372	1.497	NA	NA	NA
United States <sup>1</sup> /.....	.254	.137	.270	.286	.713	.517	.636	.542	.486	.471	.681	.791
Canada.....	.000	.050	.014	.000	.000	.000	.062	.000	.034	.032	.000	.068
OECD Europe <sup>2</sup> /.....	.835	.837	.451	.884	1.057	.904	.729	.726	.934	NA	NA	NA
Main European Importers												
France.....	.294	.193	.167	.214	.247	.254	.125	.104	.189	NA	NA	NA
Germany <sup>3</sup> /.....	.034	.027	.013	.018	.011	.014	.023	.018	.078	.085	.036	.001
Italy.....	.108	.133	.075	.149	.153	.187	.130	.123	.099	.082	.080	.109
Spain.....	.102	.099	.097	.223	.195	.097	.125	.165	.134	.129	.144	.132
Netherlands.....	.129	.168	.015	.082	.143	.136	.162	.112	.197	.143	.151	.088
Smaller European Importers												
Austria.....	.044	.037	.013	.022	.000	.046	.018	.066	.064	.000	.022	.043
Belgium.....	.050	.005	.000	.076	.127	.083	.041	.055	.055	.068	.001	.000
Greece.....	.000	.030	.000	.000	.032	.011	.000	.000	.034	.000	.036	.016
Portugal.....	.000	.032	.032	.065	.030	.000	.000	.030	.064	.000	.037	.033
Switzerland.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Turkey.....	.074	.112	.040	.036	.118	.075	.104	.052	.021	.004	.067	.055
Japan.....	.000	.000	.000	.000	.000	.073	.103	.032	.000	.000	.036	.000
Other OECD.....	-.013	.004	.009	.000	.023	.017	.032	.072	.044	.015	.042	.053

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

	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb	Mar
Total.....	0.862	1.205	0.996	1.026	1.018	1.142	1.036	0.934	1.135	NA	NA	NA
United States <sup>1</sup> /.....	.311	.399	.275	.435	.273	.259	.241	.224	.228	.132	.205	.324
Canada.....	.000	.000	.000	.000	.000	.000	.000	.005	.000	.000	.000	.000
OECD Europe <sup>2</sup> /.....	.151	.272	.297	.145	.265	.391	.304	.188	.395	NA	NA	NA
Main European Importers												
France.....	.000	.066	.000	.000	.000	.065	.003	.000	.000	NA	NA	NA
Germany <sup>3</sup> /.....	.021	.024	.027	.014	.014	.022	.016	.005	.016	.010	.012	.020
Italy.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Spain.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Netherlands.....	.102	.081	.199	.082	.209	.205	.199	.106	.301	.229	.103	.253
European Net Exporters												
Norway.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	-	-	-
United Kingdom....	.008	.064	.048	.031	.020	.015	.006	.028	.000	.000	.000	.000
Smaller European Importers												
Belgium.....	.000	.000	.000	.000	.000	.031	.045	.029	.059	.015	.000	.000
Denmark.....	.008	.021	.003	.000	.015	.012	.022	.001	.000	.000	.000	.000
Finland.....	.000	.000	.000	.018	.000	.000	.000	.000	.000	.000	.000	.000
Greece.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	-	-	-
Sweden.....	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Switzerland.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	-	-	-
Turkey.....	.011	.015	.020	.000	.008	.040	.013	.018	.015	.015	.017	.015
Japan.....	.437	.531	.421	.443	.478	.482	.501	.505	.510	.492	.602	.588
Other OECD.....	-.038	.003	.002	.003	.002	.011	-.010	.011	.002	.001	.002	.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 1998 and Petroleum Supply Monthly, June 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, 1998-1999.

**4. Historical Oil Data Series**

**1970-1998**

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

	Algeria	Indo- nesia	Iran	Iraq	Kuwait <sup>1</sup> / Libya	Nigeria	Qatar	Saudi Arabia <sup>1</sup> / Emirates	United Arab Emirates	Vene- zuela	Total OPEC	
1970 Average.....	1,029	854	3,829	1,549	2,990	3,318	1,083	362	3,799	780	3,708	23,301
1971 Average.....	785	892	4,540	1,694	3,197	2,761	1,531	431	4,769	1,060	3,549	25,209
1972 Average.....	1,062	1,081	5,023	1,466	3,283	2,239	1,816	482	6,016	1,203	3,220	26,891
1973 Average.....	1,097	1,339	5,861	2,018	3,020	2,175	2,054	570	7,596	1,533	3,366	30,629
1974 Average.....	1,009	1,375	6,022	1,971	2,546	1,521	2,255	438	8,480	1,679	2,976	30,351
1975 Average.....	983	1,307	5,350	2,262	2,084	1,480	2,077	438	7,075	1,664	2,346	26,771
1976 Average.....	1,075	1,504	5,883	2,415	2,145	1,933	2,167	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	1,123	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	3,045	1,190	1,483	1,892	395	8,115	2,386	2,375	23,275
1992 Average.....	1,214	1,504	3,429	425	1,058	1,433	1,943	423	8,332	2,266	2,371	24,398
1993 Average.....	1,162	1,511	3,540	512	1,852	1,361	1,960	413	8,198	2,159	2,450	25,119
1994 Average.....	1,180	1,510	3,618	553	2,025	1,378	1,931	415	8,120	2,193	2,588	25,510
1995 Average.....	1,202	1,503	3,643	560	2,057	1,390	1,993	442	8,231	2,233	2,750	26,004
1996 Average.....	1,242	1,547	3,686	579	2,062	1,401	2,001	510	8,218	2,278	2,938	26,461
1997 Average.....	1,277	1,520	3,664	1,155	2,083	1,446	2,332	649	8,562	2,316	3,315	28,320
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

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

P=Preliminary.

Notes: \*OPEC=Organization of Petroleum Exporting Countries.

Sources: See end of Section 4.

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

	Norway	United Kingdom	North Sea/ Sea1/	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	430	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.....	3,143	2,518	5,830	714	834	588	841	1,922	3,200	652	388
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.

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 <sup>1/</sup>	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	--	9,912	124	8,774	1,711	55,716
1975 Average.....	235	223	165	98	705	343	--	8,523	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	282	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	165	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	3,229	60,213
1993 Average.....	890	313	534	640	2,673	776	--	--	554	6,847	3,279	60,236
1994 Average.....	896	329	590	645	2,685	810	--	--	560	6,662	3,380	60,991
1995 Average.....	920	365	703	682	2,618	851	--	--	575	6,560	3,414	62,335
1996 Average.....	922	368	651	695	2,855	883	--	--	582	6,465	3,490	63,711
1997 Average.....	856	370	675	746	3,023	904	--	--	561	6,452	3,793	66,420
1998 Average P....	866	361	661	733	3,070	900	--	--	553	6,252	3,732	66,874

<sup>1/</sup> 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	Indonesia	Iran	Iraq	Kuwait <sup>1</sup> / Kuwait	Libya	Nigeria	Qatar	Saudi Arabia <sup>1</sup> / Saudi Arabia	United Arab Emirates	Venezuela	Total OPEC
1980 Average...	1,006	1,497	1,662	2,514	1,656	1,787	2,045	472	9,900	1,704	2,147	26,390
1981 Average...	802	1,513	1,380	1,000	1,125	1,140	1,423	405	9,815	1,469	2,083	22,155
1982 Average...	712	1,247	2,214	1,012	823	1,150	1,285	330	6,483	1,215	1,878	18,349
1983 Average...	648	1,245	2,440	1,005	1,064	1,105	1,231	295	5,086	1,109	1,768	16,996
1984 Average...	694	1,279	2,174	1,209	1,157	1,087	1,368	394	4,663	1,091	1,689	16,805
1985 Average...	702	1,181	2,250	1,433	1,023	1,059	1,475	301	3,388	1,133	1,558	15,503
1986 Average...	600	1,257	2,035	1,690	1,419	1,034	1,447	308	4,870	1,270	1,645	17,575
1987 Average...	648	1,189	2,298	2,079	1,585	972	1,291	293	4,265	1,441	1,587	17,648
1988 Average...	640	1,177	2,240	2,685	1,492	1,175	1,400	346	5,086	1,465	1,715	19,421
1989 Average...	690	1,231	2,810	2,897	1,783	1,150	1,666	380	5,064	1,783	1,747	21,201
1990 Average...	765	1,281	3,088	2,040	1,175	1,375	1,755	406	6,410	2,066	2,100	22,461
1991 Average...	800	1,410	3,312	305	190	1,483	1,832	395	8,115	2,326	2,338	22,506
1992 Average...	772	1,326	3,429	425	1,058	1,433	1,820	423	8,332	2,206	2,334	23,558
1993 Average...	747	1,327	3,540	512	1,852	1,361	1,835	413	8,198	2,109	2,410	24,304
1994 Average...	750	1,334	3,583	548	2,025	1,378	1,821	380	8,120	2,113	2,542	24,594
1995 Average...	767	1,343	3,608	555	2,057	1,390	1,878	407	8,231	2,148	2,710	25,094
1996 Average...	812	1,367	3,651	574	2,062	1,401	1,885	475	8,218	2,198	2,898	25,541
1997 Average...	847	1,355	3,629	1,150	2,083	1,446	2,217	614	8,562	2,236	3,275	27,414
1998 Average P.	816	1,338	3,599	2,145	2,085	1,378	2,043	661	8,389	2,265	3,127	27,847

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

P=Preliminary.

Note: OPEC=Organization of Petroleum Exporting Countries. See Appendix A for Countries in this group.  
Sources: See end of Section 4.

Table 4.3 World Natural Gas Plant Liquids Production, 1970-1998  
(Thousand Barrels per Day)

	Algeria	Canada	Mexico	Saudi Arabia	Russia	Former USSR	United States <sup>1/</sup>	Persian Gulf <sup>2/</sup>	OAPC <sup>3/</sup>	OPC <sup>3/</sup>	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	880	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	230	--	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.....	160	636	388	712	195	--	1,817	1,158	1,390	1,614	5,750
1998 Average P....	155	651	424	711	230	--	R1,759	1,161	1,395	1,608	R5,783

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

<sup>2/</sup> See Appendix A for countries in this group.

<sup>3/</sup> OAPC=Organization of Arab Petroleum Exporting Countries. OPC=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 <sup>1/</sup>	Persian Gulf <sup>2/</sup>	OAEPC <sup>3/</sup>	OPEC <sup>3/</sup>	World
1970 Average	11,673	13,541	14,571	23,567	48,986
1971 Average	11,554	15,940	15,427	25,514	51,766
1972 Average	11,601	17,734	16,451	27,228	54,574
1973 Average	11,428	20,895	18,656	31,015	59,300
1974 Average	10,978	21,550	18,399	30,762	59,391
1975 Average	10,505	19,223	16,831	27,218	56,511
1976 Average	10,251	21,847	19,563	30,841	61,121
1977 Average	10,437	22,098	20,372	31,443	63,665
1978 Average	10,820	21,067	19,819	30,120	64,225
1979 Average	10,707	21,569	22,575	31,300	66,973
1980 Average	10,809	18,541	20,715	27,419	64,152
1981 Average	10,739	15,894	17,619	23,393	60,761
1982 Average	10,783	12,815	13,786	19,702	58,225
1983 Average	10,788	11,676	12,416	18,352	58,054
1984 Average	11,107	11,433	12,619	18,389	59,644
1985 Average	11,192	10,320	11,498	17,151	59,262
1986 Average	10,905	12,441	13,653	19,310	61,769
1987 Average	10,648	12,869	13,992	19,589	62,427
1988 Average	10,473	14,310	15,662	21,465	64,705
1989 Average	9,880	15,733	16,658	23,323	65,892
1990 Average	9,677	16,249	17,232	24,536	66,754
1991 Average	9,883	15,704	16,747	24,625	66,632
1992 Average	9,768	17,010	17,871	25,818	66,961
1993 Average	9,602	17,792	18,505	26,610	67,348
1994 Average	9,413	18,072	18,745	27,031	68,228
1995 Average	9,400	18,351	19,069	27,566	69,837
1996 Average	9,445	18,486	19,237	28,018	71,394
1997 Average	9,461	19,665	20,453	29,990	74,343
1998 Average P	R9,278	20,532	21,246	30,426	R74,939

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

<sup>2/</sup> See Appendix A for countries in this group.

<sup>3/</sup> OAEPC=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 <sup>1/</sup>	United Kingdom	OECD Europe <sup>2/</sup>	United States <sup>3/</sup>	Canada	Japan	Other <sup>4/</sup>	Total OECD	
1973	December.....	201	152	181	156	1,070	1,008	140	303	67	2,588
1974	December.....	249	167	213	191	1,227	1,074	145	370	64	2,880
1975	December.....	225	143	187	165	1,154	1,133	174	375	67	2,903
1976	December.....	234	143	208	165	1,205	1,112	153	380	68	2,918
1977	December.....	239	161	225	148	1,268	1,312	167	409	68	3,224
1978	December.....	201	154	238	157	1,219	1,278	144	413	68	3,122
1979	December.....	226	163	272	169	1,353	1,341	150	460	75	3,379
1980	December.....	243	170	319	168	1,464	1,392	164	495	72	3,587
1981	December.....	214	167	297	143	1,337	1,484	161	482	67	3,531
1982	December.....	193	179	272	125	1,258	1,430	136	484	68	3,376
1983	December.....	153	149	249	118	1,142	1,454	121	470	68	3,255
1984	December.....	152	159	239	112	1,130	1,556	128	479	69	3,362
1985	December.....	139	157	233	123	1,092	1,519	113	494	66	3,284
1986	December.....	127	155	252	124	1,133	1,593	111	509	72	3,418
1987	December.....	127	169	259	121	1,130	1,607	126	540	71	3,474
1988	December.....	140	155	266	112	1,118	1,597	116	538	71	3,440
1989	December.....	138	164	271	118	1,133	1,581	114	577	71	3,476
1990	December.....	140	172	265	112	1,163	1,621	121	590	73	3,568
1991	December.....	153	160	288	119	1,181	1,617	119	606	65	3,588
1992	December.....	146	174	310	113	1,219	1,592	107	603	67	3,588
1993	December.....	158	163	309	118	1,221	1,647	105	618	69	3,661
1994	December.....	158	164	312	115	1,240	1,653	119	645	69	3,726
1995	December.....	159	162	301	107	1,228	1,563	109	630	71	3,601
1996	December.....	158	152	300	108	1,256	1,507	103	651	74	3,591
1997	December.....	164	147	298	105	1,256	1,560	115	685	74	3,689
1998	December P.....	161	153	321	108	R1,304	1,647	118	649	66	R3,784

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

<sup>2/</sup> "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.

<sup>3/</sup> 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.

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

P=Preliminary. R=Revised data.  
Note: Oil Stocks - See Explanatory Note 2 in Appendix B.  
Sources: See end of Section 4.

**Table 4.6 World Oil Demand, 1970-1998**  
(Thousand Barrels per Day)

	France		Italy		Germany <sup>1/</sup>		United Kingdom		OECD Europe <sup>2/</sup>		United States <sup>3/</sup>		Canada		Japan		Other <sup>4/</sup>		OECD Excluding East Germany		OECD Including East Germany		World Total	
1970 Average...	1,937	1,710	2,607	2,096	12,404	14,697	1,516	3,817	836	33,270	223	33,493	46,808											
1971 Average...	2,115	1,838	2,702	2,141	13,005	15,213	1,565	4,142	831	34,755	238	34,993	49,416											
1972 Average...	2,322	1,947	2,859	2,284	13,934	16,367	1,664	4,363	948	37,275	270	37,545	53,094											
1973 Average...	2,601	2,068	3,055	2,341	14,925	17,308	1,729	4,949	988	39,900	282	40,182	57,237											
1974 Average...	2,447	2,004	2,748	2,210	13,988	16,653	1,779	4,864	1,095	38,379	307	38,686	56,677											
1975 Average...	2,252	1,855	2,650	1,911	13,217	16,322	1,779	4,621	1,041	36,980	307	37,287	56,198											
1976 Average...	2,420	1,971	2,877	1,892	14,124	17,461	1,818	4,837	1,119	39,358	329	39,687	59,673											
1977 Average...	2,294	1,897	2,865	1,905	13,916	18,431	1,850	4,880	1,160	40,237	347	40,584	61,826											
1978 Average...	2,408	1,952	2,927	1,938	14,290	18,847	1,902	4,945	1,204	41,187	363	41,550	64,158											
1979 Average...	2,463	2,039	3,003	1,971	14,667	18,513	1,971	5,050	1,178	41,379	369	41,748	65,220											
1980 Average...	2,256	1,934	2,707	1,725	13,634	17,056	1,873	4,960	1,072	38,595	375	38,970	63,067											
1981 Average...	2,023	1,874	2,449	1,590	12,515	16,058	1,768	4,848	1,080	36,269	355	36,624	60,903											
1982 Average...	1,880	1,781	2,372	1,590	12,053	15,296	1,578	4,582	1,008	34,517	371	34,888	59,503											
1983 Average...	1,835	1,750	2,324	1,531	11,765	15,231	1,448	4,395	953	33,793	336	34,129	58,739											
1984 Average...	1,775	1,717	2,338	1,634	11,736	15,726	1,472	4,576	990	34,500	340	34,840	59,831											
1985 Average...	1,772	1,738	2,498	1,649	12,102	16,281	1,504	4,384	976	34,271	362	34,633	60,091											
1986 Average...	1,789	1,855	2,424	1,603	12,255	16,665	1,548	4,439	951	35,279	362	35,641	61,759											
1987 Average...	1,797	1,836	2,422	1,697	12,427	17,283	1,693	4,484	959	35,911	342	36,253	62,999											
1988 Average...	1,857	1,930	2,280	1,738	12,531	17,325	1,733	4,752	939	37,093	322	37,415	64,819											
1989 Average...	1,818	1,872	2,382	1,752	12,629	16,988	1,690	4,983	998	37,570	300	37,871	65,917											
1990 Average...	1,935	1,863	2,828	1,801	13,391	16,714	1,622	5,284	1,027	37,475	282	37,758	65,977											
1991 Average...	1,926	1,937	2,843	1,803	13,605	17,033	1,643	5,446	1,056	--	--	38,067	66,567											
1992 Average...	1,875	1,852	2,900	1,815	13,523	17,237	1,688	5,401	1,041	--	--	38,768	66,736											
1993 Average...	1,833	1,841	2,879	1,837	13,597	17,718	1,727	5,674	1,118	--	--	38,967	66,988											
1994 Average...	1,896	2,048	2,875	1,845	14,120	17,725	1,755	5,711	1,174	--	--	39,890	68,302											
1995 Average...	1,935	2,058	2,911	1,845	14,269	18,309	1,797	5,711	1,243	--	--	40,553	69,888											
1996 Average...	1,955	2,045	2,903	1,799	14,433	18,620	1,857	5,867	RI,192	--	--	R41,433	71,322											
1997 Average...	2,062	2,062	2,908	RI,795	R14,715	R18,917	1,881	5,711	RI,228	--	--	41,850	73,008											
1998 Average	P.R2,017	2,062	2,908	RI,795	R14,715	R18,917	1,881	5,509	RI,225	--	--	R42,246	R73,777											

<sup>1/</sup> 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.  
<sup>2/</sup> "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.  
<sup>3/</sup> U.S. geographic coverage is the 50 States and the District of Columbia.  
<sup>4/</sup> "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
Total.....	18,707	20,082	20,456	20,414	20,783	21,226	21,133	20,717	21,456	22,081	22,409
United States <sup>1</sup> /....	6,587	7,202	7,161	6,626	6,938	7,618	8,054	7,886	8,498	9,158	9,764
Canada.....	-.585	-.462	-.425	-.479	-.546	-.586	-.623	-.756	-.803	-.819	-.900
OECD Europe <sup>2</sup> /.....	7,774	7,994	8,210	8,588	8,459	8,127	7,355	7,226	7,339	7,340	7,893
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 <sup>3</sup> /.....	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	-1,019
Smaller European Importers											
Austria.....	.185	.191	.201	.212	.209	.205	.210	.194	.213	.223	.236
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	.182	.182	.234	.145	.180	.186	.211
Greece.....	.242	.252	.273	.297	.326	.327	.292	.343	.350	.361	.387
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	.325
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	.571
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	.246
Average											

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

<sup>2</sup>/ "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.

<sup>3</sup>/ 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	16.928
United States <sup>1</sup> /.....	3.439	3.986	4.172	3.918	3.888	4.103	4.036	3.979	4.194	4.542	4.881
Canada.....	.161	.205	.199	.210	.210	.268	.285	.257	.261	.312	.294
OECD Europe <sup>2</sup> /.....	5.842	6.188	6.633	6.728	6.758	6.794	6.385	6.154	6.053	6.260	6.692
Main European Importers											
France.....	.737	.875	1.101	1.021	.932	1.006	.956	.911	.897	.899	1.029
Germany <sup>3</sup> /.....	.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	.213
Smaller European Importers											
Austria.....	.082	.086	.097	.108	.115	.128	.119	.057	.023	.130	.122
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	.352
Portugal.....	.118	.156	.166	.139	.152	.166	.227	.209	.177	.188	.183
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	.418
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	.594

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	10.509
United States <sup>1</sup> /....	1.526	1.857	1.961	1.835	1.774	1.775	1.722	1.563	1.594	1.747	2.131
Canada.....	.056	.069	.081	.084	.092	.105	.119	.070	.111	.120	.097
OECD Europe <sup>2</sup> /.....	3.428	3.754	3.908	3.660	3.666	4.048	3.506	3.365	3.171	3.469	3.951
Main European Importers											
France.....	.484	.647	.864	.708	.640	.757	.651	.647	.573	.617	.730
Germany <sup>3</sup> /.....	.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... <sup>4</sup>	.212	.240	.250	.222	.220	.303	.174	.135	.102	.094	.108
Smaller European Importers											
Austria.....	.025	.022	.016	.021	.031	.036	.038	.035	.004	.045	.049
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	.296
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	.197

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

2/ "OECD Europe" consists of Austria, Belgium, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom, 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
Total Net Imports...	6.587	7.202	7.161	6.626	6.938	7.618	8.054	7.886	8.498	9.158	9.764
Imports from OPEC1/	3.439	3.986	4.172	3.918	3.888	4.103	4.036	3.979	4.194	4.542	4.881
Imports from											
Persian Gulf2/											
Total.....	1.526	1.857	1.961	1.835	1.774	1.775	1.722	1.563	1.594	1.747	2.131
Bahrain.....	.000	-.001	-.001	-.001	-.002	-.002	-.002	-.003	-.002	-.002	-.001
Iran.....	.000	.000	.000	.032	.000	.000	.000	.000	.000	.000	.000
Iraq.....	.343	.449	.518	.000	.000	.000	.000	.000	.001	.089	.336
Kuwait.....	.092	.157	.086	.006	.051	.353	.312	.218	.236	.253	.301
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	1.491
Imports from OPEC-Africa											
Total.....	.918	1.084	1.080	.956	.876	.956	.880	.859	.872	.979	.983
Algeria.....	.300	.269	.280	.253	.196	.220	.243	.234	.256	.285	.290
Libya.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Nigeria.....	.618	.815	.800	.703	.680	.736	.637	.625	.616	.694	.693
Imports from											
OPEC-South America											
Total.....	.790	.861	1.016	1.020	1.161	1.295	1.322	1.468	1.667	1.758	1.701
Venezuela.....	.790	.861	1.016	1.020	1.161	1.295	1.322	1.468	1.667	1.758	1.701
Imports from OPEC-Far East											
Total.....	.205	.182	.113	.106	.075	.074	.109	.087	.058	.057	.065
Indonesia.....	.205	.182	.113	.106	.075	.074	.109	.087	.058	.057	.065

Average

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
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 <sup>1/</sup>	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 <sup>2/</sup>											
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
Average											

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	7.893
Imports from OPEC <sup>1/</sup>	5.842	6.188	6.633	6.728	6.758	6.794	6.385	6.154	6.053	6.260	6.692
Imports from Persian Gulf <sup>2/</sup>											
Total.....	3.428	3.754	3.908	3.660	3.666	4.048	3.506	3.365	3.171	3.469	3.951
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	1.021
Iraq.....	.959	.897	.591	.000	.000	.001	.000	.000	.006	.336	.724
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	.017
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	1.910
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	2.505
Algeria.....	.646	.648	.683	.757	.772	.693	.690	.724	.746	.681	.708
Libya.....	1.071	1.044	1.267	1.332	1.361	1.193	1.233	1.201	1.204	1.268	1.297
Nigeria.....	.481	.532	.559	.729	.686	.605	.721	.575	.694	.620	.501
Imports from OPEC-South America											
Total.....	.220	.212	.227	.249	.268	.240	.219	.273	.206	.206	.215
Venezuela.....	.220	.212	.227	.249	.268	.240	.219	.273	.206	.206	.215
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

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

<sup>2/</sup> 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. \*Zeroces (.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
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 <sup>1/</sup>	.737	.875	1.101	1.021	.932	1.006	.956	.911	.897	.899	1.029
Imports from Persian Gulf <sup>2/</sup>											
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 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 4.14 Germany--Net Oil Imports, 1988-1998  
(Million Barrels per Day)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
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 OPEC <sup>1</sup> /	.761	.739	.771	.859	.957	.948	.838	.711	.660	.645	.656
Imports from Persian Gulf <sup>2</sup> /											
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	.002	.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. \*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 4.15 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 <sup>1/</sup>	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 <sup>2/</sup>	.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
Total.....	1.489	1.581	1.276	0.000	0.000	0.001	0.000	0.000	0.007	0.458	1.107
United States <sup>1</sup> /.....	.343	.449	.518	.000	.000	.000	.000	.000	.001	.089	.336
Canada.....	.001	.013	.011	.000	.000	.000	.000	.000	.000	.014	.014
OECD Europe <sup>2</sup> /.....	.959	.897	.591	.000	.000	.001	.000	.000	.006	.336	.724
Main European Importers											
France.....	.143	.128	.062	.000	.000	.000	.000	.000	.000	.078	.171
Germany <sup>2</sup> /.....	.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	.031
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	.013
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	.063
Japan.....	.173	.219	.146	.000	.000	.000	.000	.000	.000	.015	.017
Other OECD.....	.013	.003	.011	.000	.000	.000	.000	.000	.000	.005	.016

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

<sup>2</sup>/ "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.

<sup>3</sup>/ 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
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 <sup>1</sup> /....	.092	.157	.086	.006	.051	.353	.312	.218	.236	.253	.301
Canada.....	-	-	.004	-	-	.000	.027	.000	.000	.000	.000
OECD Europe <sup>2</sup> /.....	.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 <sup>3</sup> /.....	.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	.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	-.014

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

<sup>2/</sup> "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.

<sup>3/</sup> 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 1998; • 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 1998.

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

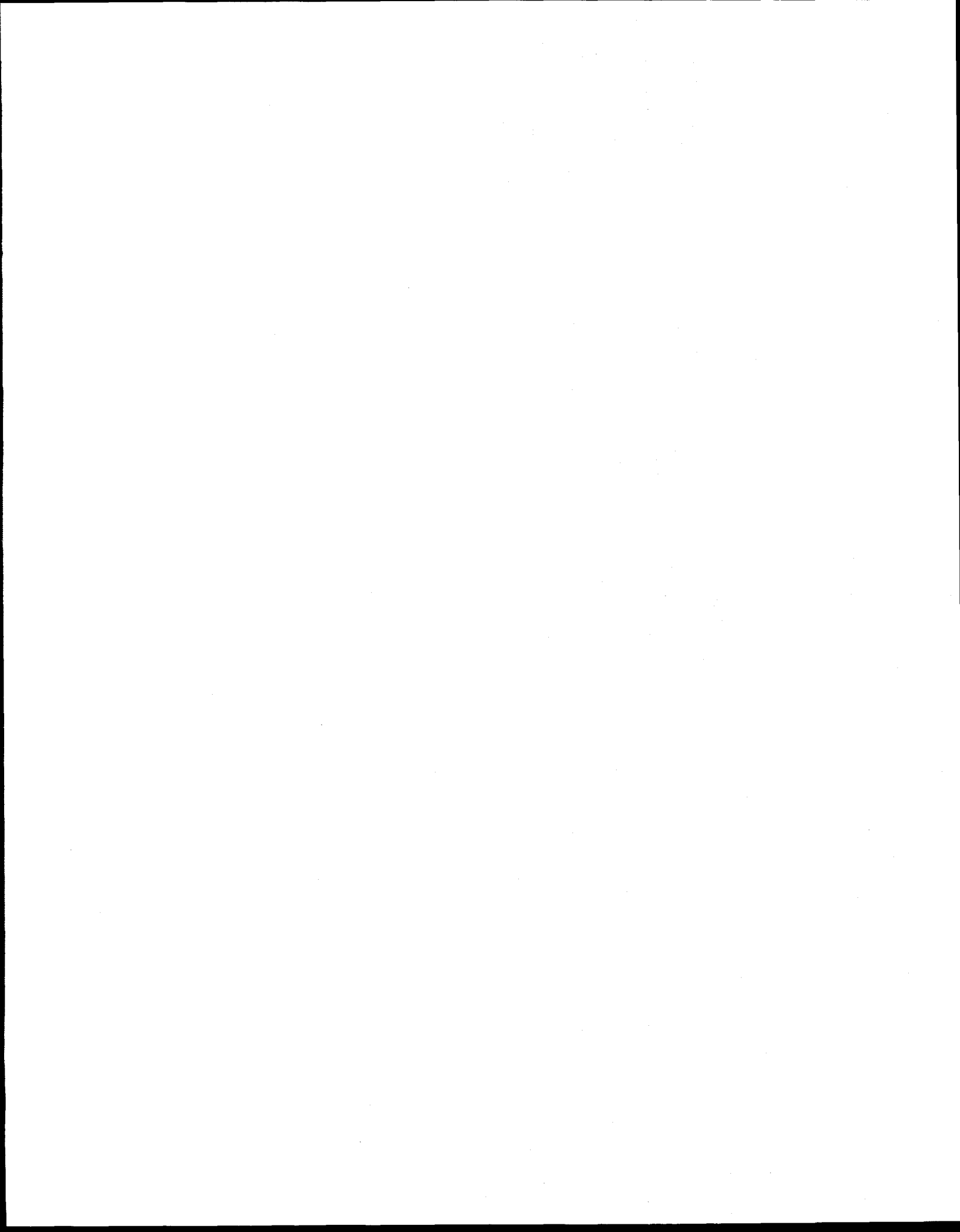
United States: EIA, Petroleum Supply Annual 1998.

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 1998.

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 March 1999 United States (including territories) oil stocks totaled 1,455 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, (propane, butane, propane-butane mixtures, and ethane-propane mixtures), isopentane, natural gasoline, unfractionated streams, plant condensate, and other minor quantities of finished products, such as motor gasoline, special naphthas, jet fuel, kerosene, and distillate fuel oil.

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

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

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

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

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

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

## **Appendix D**

### **Estimation Procedures**

## Appendix D. Estimation Procedures

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

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

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

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

## **Appendix E**

### **Conversions**

Table E1. Refined Petroleum Products Conversion Factors

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

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

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
<b>North America</b>										
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
<b>Central &amp; South America</b>										
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
<b>Western Europe</b>										
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
Serbia and Montenegro . . . . .	--	--	--	7.418	7.418	7.418	7.418	7.418	7.418	7.418
Slovenia . . . . .	--	--	--	--	7.418	7.418	7.418	7.418	7.418	7.418

-- = 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 . . . . .	--	--	--	--	--	--	--	--	--	--
Slovakia . . . . .	--	--	--	--	--	--	--	--	--	--
Hungary . . . . .	6.690	6.690	6.690	6.690	6.690	6.690	6.690	6.690	6.690	6.690
Poland . . . . .	7.418	7.418	7.418	7.418	7.418	7.418	7.418	7.418	7.418	7.418
Romania . . . . .	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506
Former U.S.S.R. . . . .	7.270	7.270	7.270	7.270	7.270	7.270	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
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	7.305	7.350	7.350	7.350	7.350	7.350	7.350	7.350
Iraq . . . . .	7.426	7.426	7.426	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	7.245	7.250	7.250	7.250	7.250	7.250	7.250	7.250
Oman . . . . .	7.332	7.332	7.332	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/ETA-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
<b>Africa</b>										
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
Cameroun . . . . .	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	7.315
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
<b>Far East &amp; Oceania</b>										
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).