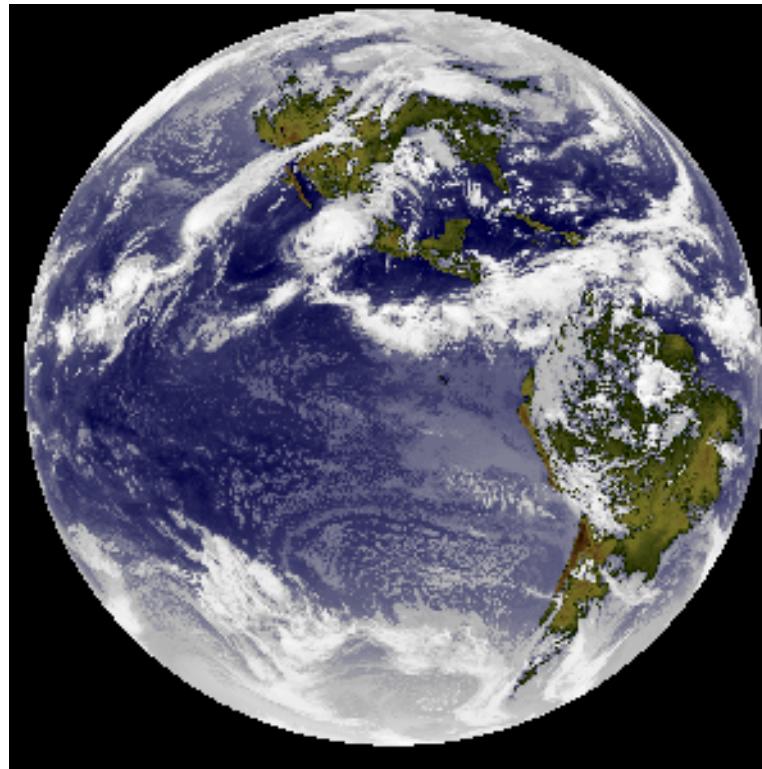


# **INTERNATIONAL PETROLEUM MONTHLY**

**January 2001**



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

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## Preface

The International Petroleum Monthly 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 Monthly 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 1999; OECD stocks from 1973 through 1999; and OECD trade from 1989 through 1999.

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 Monthly may be directed to Patricia A. Smith (202) 586-6925, or H. Vicky McLaine (202) 586-9412; Oil Market Chronology - Lowell Feld (202) 586-9502.

## Oil Market Chronology - December 2000

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

- December 1** Vicente Fox is inaugurated as Mexico's president. (DJ)
- Iraq informs the United Nations Sanctions Committee that it intends to stand by its proposed oil prices for December, which the committee rejected earlier in the week because they were below fair market value. The Iraqi move is seen as part of its effort to force lifters of its oil to pay a 50 cents per barrel "surcharge" directly to Iraq. Iraq also suspends its oil exports. (DJ)
- December 4** California utilities are forced to cut off electricity supplies to some "interruptible" customers due to a supply shortage. California has suffered shortages and high wholesale electricity prices since May 2000. The immediate shortage stems, in part, from a reduction in electricity imports from the Pacific Northwest as a result of cold weather in the area. Other problems include: natural gas supply problems, low availability of hydroelectric and nuclear generating capacity, and high electric power demand. (DJ)
- December 5** The United Nations Security Council approves a six-month extension to the Iraq "oil-for-food" program. (DJ)
- December 8** Press reports indicate that scheduled loadings of Syrian crude oil have increased by approximately 20 percent for December 2000. The increase is suspected by some analysts to be due to possible supplies of Iraqi crude oil to Syrian refineries through a recently-refurbished pipeline linking the two countries. (DJ)
- December 12** The Chinese government announces that it intends to begin a limited opening of the country's retail petroleum products market to competition by foreign oil companies. The opening will initially take the form of a pilot program in one or two cities in 2001. (DJ)
- December 13** Iraq resumes exports of crude oil after a disruption of nearly two weeks due to a dispute over payments with the United Nations. Iraq had cut off exports when clients had refused to pay a surcharge directly to Iraq, that violate terms of the "oil-for-food" program permitting Iraq to export oil while sanctions remain in effect, rather than to the account controlled by the United Nations Sanctions Committee. Earlier, on December 8, the committee approved Iraq's revised pricing offer for December 2000, which oil traders said is still below market value relative to comparable grades of crude oil. (DJ)
- December 15** Natural gas prices in the United States soar 13 percent after the National Weather Service issues a revised forecast predicting colder winter weather in the eastern United States. Henry Hub natural gas closes at \$8.396 per million British thermal units (Btu) on the New York Mercantile Exchange (NYMEX), up 98.3 cents. Gas prices are running at record high levels on concerns over winter supplies, especially given colder weather this season. (DJ)
- December 16** Ukraine permanently shuts down the last reactor at its Chernobyl nuclear power plant, which gained notoriety for a major accident and radiation leak in 1986. The facility will still be the location of a major cleanup effort, as Ukraine tries to contain continuing radiation leakage from the containment structures around the reactors damaged in the accident. (DJ)
- December 19** Construction begins on a \$3.5 billion pipeline linking oilfields in Chad to a loading terminal in Cameroon. Crude oil exports from the Chadian fields are expected to start in 2003-2004. (DJ)
- An Alabama jury returns a \$3.5 billion judgement against ExxonMobil for alleged underpayment of royalties for offshore natural gas wells in Alabama waters. The bulk of the award is punitive damages. ExxonMobil says it plans to appeal. (NYT)

- December 21** Italy's ENI makes a \$4 billion offer for the takeover of British independent oil company Lasmo Oil. Lasmo says it has agreed to the terms of the offer. The offer effectively outbids a lower offer from Amerada Hess that was made last month, and Amerada Hess says it will not raise its offer. (DJ)
- The Environmental Protection Agency (EPA) announces new regulations which will drastically reduce the allowable sulfur content in diesel fuel in the United States. The new diesel sulfur standard will be 15 parts per million (PPM). Oil industry trade groups have opposed the new standard. (DJ)
- December 25** Sinopec, one of the major Chinese oil companies, announces plans to lay off 27,000 employees in 2001. The layoffs are part of an overall program to trim costs and boost competitiveness in anticipation of China's expected entry into the World Trade Organization (WTO). (DJ)
- December 26** Heating oil prices in the United States rise more than 6 percent in response to cold temperatures in the northeastern United States. Heating oil closes at 93.5 cents per gallon on the New York Mercantile Exchange (NYMEX). (DJ)
- Marathon Oil announces that it intends to acquire natural gas firm Penneco Energy for around \$500 million. Penneco's operations focus on coal bed methane in Wyoming and Montana. (DJ)
- December 27** Natural gas prices in the United States surge above \$10 per million British thermal units (Btu) first time ever in response to cold weather and stockdraws reported by the American Gas Association (AGA). Henry Hub natural gas closes at \$9.978, after falling slightly from its intraday peak price. (DJ)
- Venezuelan President Hugo Chavez appoints Alvaro Silva Calderon to replace Ali Rodriguez as Minister of Petroleum. Calderon had previously served as a deputy minister. Rodriguez had recently been chosen as the new Secretary General of the Organization of Petroleum Exporting Countries (OPEC). Both will assume their new posts effective January 5, 2001. (DJ)
- Hunt Oil Company announces an unsolicited \$662 million takeover offer for the 90.4 percent of Canada's Berkeley Petroleum which it does not already own. The move is seen as an attempt by Hunt Oil to become a larger player in the North American natural gas market in an era of rising demand. Berkeley Petroleum's management opposes the takeover. (DJ)
- December 28** AES Corporation purchases 61.6 percent of the Chilean electricity generator Gener, S.A., for \$841 million. Gener, Chile's second largest electricity generator, was one of only a few South American power firms which had not been purchased by foreign investors. (DJ)
- December 30** President Clinton orders the release of \$300 million in emergency funds to help low-income Americans pay for high heating oil costs. Clinton says the months of November and December have been among the coldest on record. (DJ)
- December 31** Saudi oil minister Ali Naimi says that the Organization of Petroleum Exporting Countries (OPEC) will cut production when ministers meet in Vienna on January 17, 2001. Oil prices have fallen sharply in recent weeks, with the OPEC basket reaching \$21.50 per barrel on December 25, down one-third from highs reached in October 2000. Despite the recent decline, average oil prices for 2000 were the highest (not adjusted for inflation) in seventeen years. (DJ)

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## **1. Annual and Monthly Oil Data**

Figure 1. World Crude Oil Production, Monthly

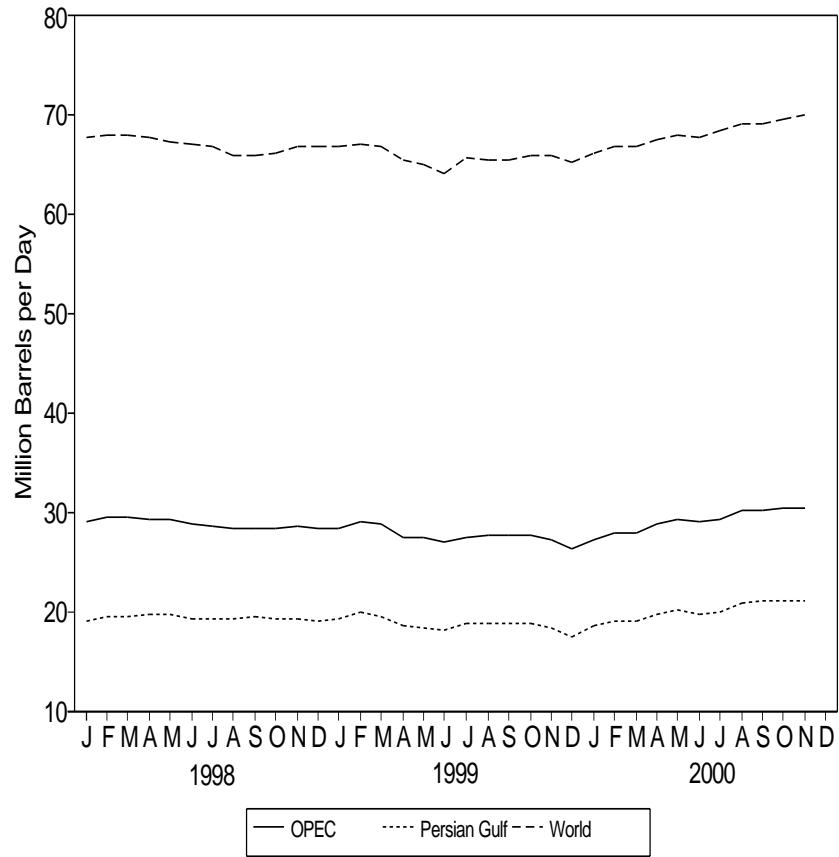
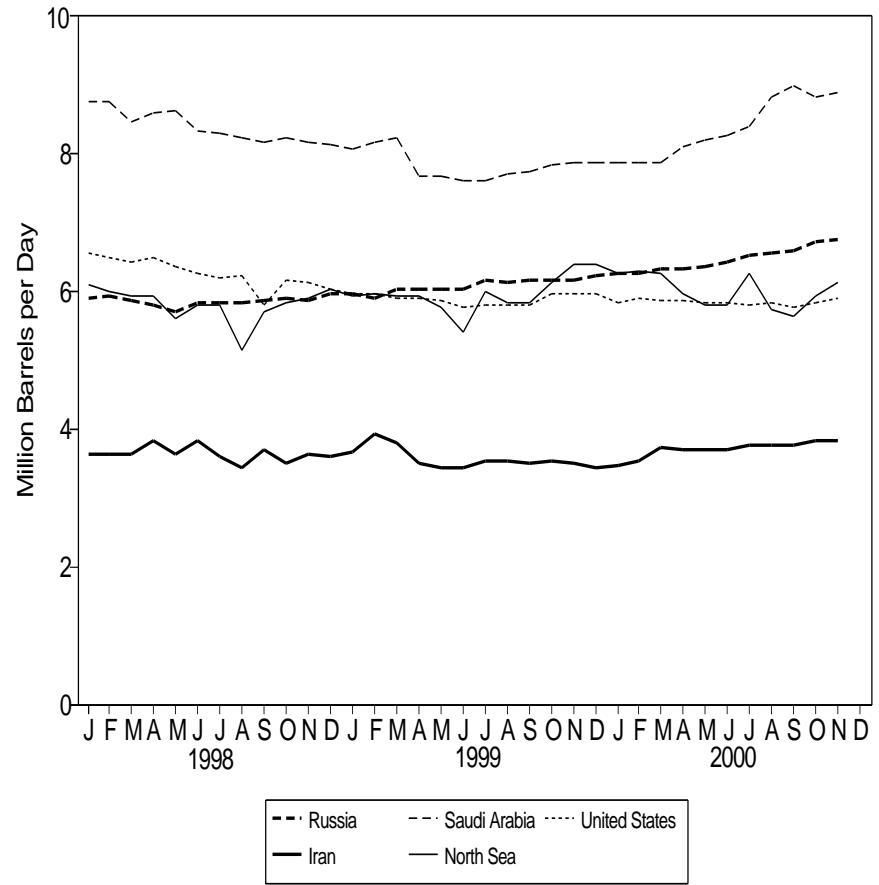


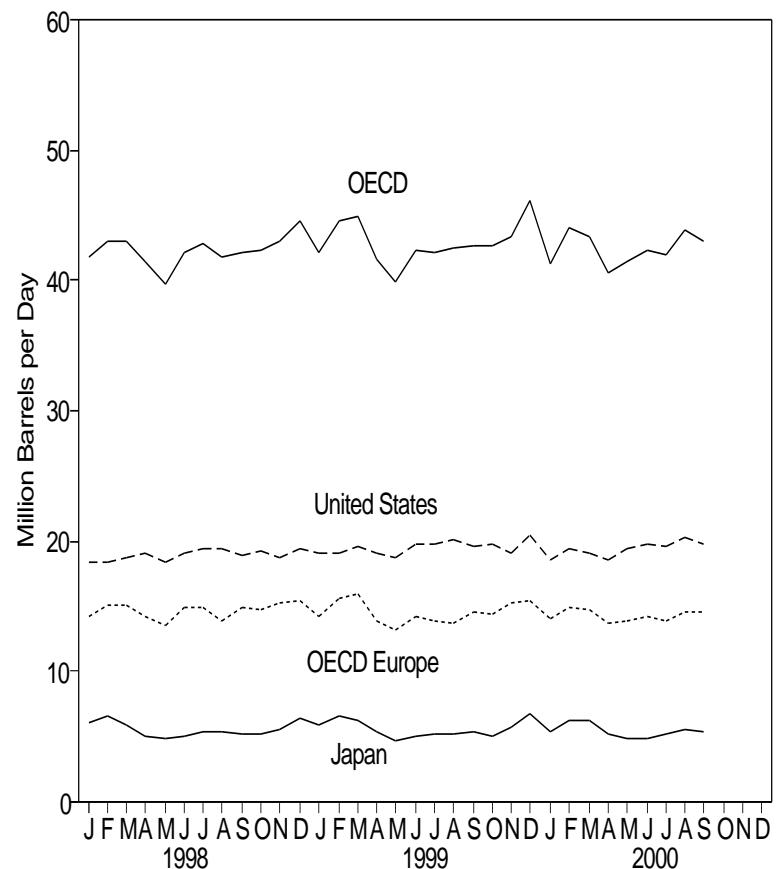
Figure 2. Leading Crude Oil Producers, Monthly



Source: Tables 1.1a-1.1c

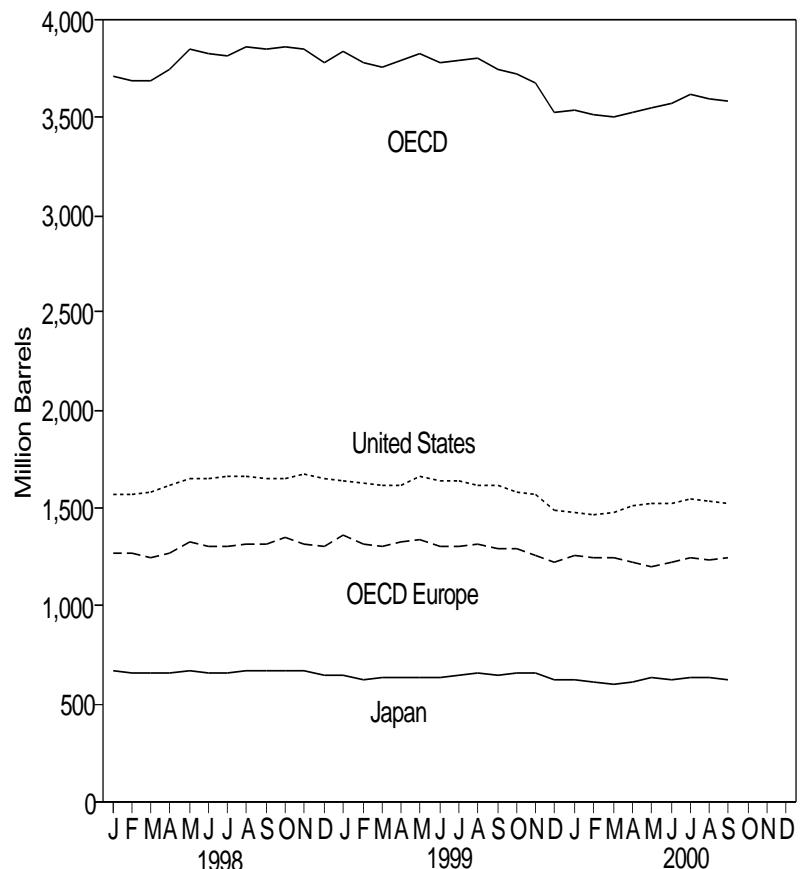
Source: Tables 1.1a-1.1c

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	Indo-nesia	Iran	Iraq	Kuwait <sup>1/</sup>	Libya	Nigeria	Qatar	Saudi Arabia <sup>1/</sup>	United Arab Emirates	Vene-zuela	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	2,007	1,446	2,132	550	8,362	2,316	3,280	27,710
1998 Average.....	1,246	1,518	3,634	2,150	2,085	1,390	2,153	696	8,389	2,345	3,167	28,774
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
June.....	1,180	1,510	3,415	2,355	1,830	1,290	2,150	655	7,610	2,110	2,760	26,865
July.....	1,180	1,490	3,515	2,805	1,830	1,290	2,130	685	7,610	2,130	2,760	27,425
August.....	1,190	1,480	3,535	2,855	1,860	1,290	2,140	685	7,710	2,140	2,760	27,645
September.....	1,190	1,480	3,485	2,855	1,885	1,300	2,150	685	7,735	2,145	2,760	27,670
October.....	1,190	1,480	3,535	2,670	1,925	1,310	2,170	685	7,845	2,145	2,760	27,715
November.....	1,190	1,480	3,485	2,205	1,905	1,320	2,160	685	7,865	2,105	2,780	27,180
December.....	1,190	1,480	3,435	1,405	1,922	1,330	2,050	695	7,863	2,155	2,780	26,305
1999 Average.....	1,202	1,504	3,557	2,508	1,898	1,319	2,130	694	7,833	2,169	2,826	27,641
2000 January.....	1,190	1,460	3,465	2,215	1,962	1,330	2,010	695	7,863	2,245	2,780	27,215
February.....	1,190	1,430	3,525	2,595	2,015	1,380	2,060	705	7,865	2,250	2,840	27,855
March.....	1,190	1,430	3,735	2,215	2,040	1,390	2,080	705	7,865	2,300	2,840	27,790
April.....	1,230	1,460	3,675	2,655	2,100	1,400	2,140	715	8,100	2,380	2,890	28,745
May.....	1,240	1,490	3,685	3,055	2,100	1,400	2,110	735	8,200	2,380	2,920	29,315
June.....	1,250	1,490	3,705	2,565	2,150	1,420	2,140	735	8,250	2,280	2,940	28,925
July.....	1,250	1,490	3,750	2,525	2,170	1,425	2,180	755	8,390	2,320	2,960	29,215
August.....	1,260	1,490	3,750	2,995	2,173	1,420	2,160	755	8,823	2,380	2,970	30,175
September.....	1,250	1,490	3,755	2,875	2,170	1,430	2,110	755	8,975	2,390	2,970	30,170
October.....	1,270	1,460	3,835	3,005	2,210	1,440	2,210	760	8,800	2,410	3,040	30,440
November.....	1,265	1,450	3,830	2,815	2,215	1,440	2,260	765	8,900	2,415	3,040	30,395
2000 Average.....	1,235	1,467	3,701	2,683	2,119	1,407	2,133	735	8,367	2,341	2,926	29,115

<sup>1/</sup> Includes about one-half of the production in the Kuwait-Saudi Arabia Neutral Zone from January 1990 through July 1990 and beginning again in June 1991. Kuwaiti Neutral Zone output was discontinued following Iraq's invasion of Kuwait on August 2, 1990, but was resumed in June 1991. From August 1990 through May 1991, all production in the Neutral Zone was included in the data for Saudi Arabia. In November 2000, Neutral Zone production by both Kuwait and Saudi Arabia totaled about 665 thousand barrels per day. Data for Saudi Arabia include approximately 150,000 barrels per day from the Abu Safah field, produced on behalf of Bahrain.

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 <sup>1/</sup>	Angola	Argen-tina	Austra-lia	Brazil	Canada	China	Colombia	Ecuador
1990 Average.....	1,704	1,820	3,667	475	483	575	631	1,553	2,774	440	285
1991 Average.....	1,890	1,797	3,811	500	485	545	630	1,548	2,835	419	299
1992 Average.....	2,229	1,825	4,182	526	553	535	626	1,605	2,845	433	321
1993 Average.....	2,350	1,915	4,403	509	594	503	643	1,679	2,890	456	344
1994 Average.....	2,521	2,375	5,058	536	650	536	671	1,746	2,939	450	365
1995 Average.....	2,768	2,489	5,400	646	715	562	695	1,805	2,990	585	392
1996 Average.....	3,104	2,568	5,822	709	756	570	795	1,837	3,131	623	396
1997 Average.....	3,143	2,518	5,830	714	834	588	841	1,922	3,200	652	388
1998 Average.....	3,017	2,616	5,806	735	847	544	969	1,981	3,198	733	375
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.....	2,953	2,746	5,921	770	815	474	1,080	1,832	3,190	840	350
May.....	2,948	2,597	5,765	755	805	506	1,070	1,882	3,190	815	370
June.....	2,727	2,429	5,396	755	805	500	1,100	1,936	3,190	815	367
July.....	3,094	2,672	6,011	745	805	496	1,082	1,959	3,261	815	365
August.....	2,868	2,699	5,819	750	805	555	1,080	1,906	3,170	819	380
September.....	2,864	2,670	5,808	760	788	578	1,106	1,857	3,145	821	380
October.....	3,070	2,762	6,135	770	790	566	1,096	1,892	3,177	820	390
November.....	3,300	2,782	6,378	770	785	594	1,090	2,006	3,245	795	380
December.....	3,404	2,697	6,390	770	785	673	1,090	2,002	3,225	765	390
1999 Average.....	3,018	2,684	5,949	766	802	539	1,094	1,907	3,206	817	373
2000 January.....	3,233	2,721	6,268	760	785	717	1,090	1,979	3,250	755	390
February.....	3,348	2,644	6,284	760	760	781	1,090	1,991	3,280	705	390
March.....	3,248	2,678	6,259	760	760	730	1,100	1,892	3,280	725	390
April.....	3,052	2,549	5,939	750	755	717	1,110	1,894	3,300	725	375
May.....	3,149	2,311	5,777	760	755	718	1,120	1,990	3,250	690	370
June.....	2,984	2,446	5,770	750	750	737	1,185	2,020	3,295	705	373
July.....	3,398	2,535	6,258	750	760	742	1,206	1,986	3,280	718	401
August.....	3,025	2,370	5,724	760	770	723	1,225	1,955	3,205	640	410
September.....	3,012	2,315	5,628	R740	R763	651	R1,305	2,007	3,220	642	R425
October.....	3,247	R2,334	R5,922	R723	R759	R681	R1,320	R1,961	R3,210	R638	420
November.....	3,327	2,432	6,120	723	759	736	1,365	2,029	3,206	686	415
2000 Average.....	3,184	2,485	5,995	749	762	721	1,192	1,973	3,252	694	396

<sup>1/</sup> 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	60,566
1991 Average.....	874	294	615	646	2,680	700	--	9,992	492	7,417	2,274	60,207
1992 Average.....	881	298	561	653	2,669	740	7,632	--	481	7,171	3,229	60,213
1993 Average.....	890	313	534	640	2,673	776	6,730	--	554	6,847	3,279	60,236
1994 Average.....	896	329	590	645	2,685	810	6,135	--	560	6,662	3,380	60,991
1995 Average.....	920	365	703	682	2,618	851	5,995	--	575	6,560	3,414	62,335
1996 Average.....	922	368	651	695	2,855	883	5,850	--	582	6,465	3,490	63,711
1997 Average.....	856	370	675	700	3,023	904	5,920	--	561	6,452	3,719	65,690
1998 Average.....	834	361	661	733	3,070	900	5,854	--	553	6,252	3,955	66,962
1999 January.....	860	340	694	720	3,144	880	5,962	--	550	5,963	3,895	66,703
February.....	860	340	686	720	3,020	900	5,897	--	550	5,966	3,883	67,027
March.....	870	340	645	720	3,053	910	6,024	--	540	5,883	3,896	66,702
April.....	870	340	645	720	2,893	910	6,021	--	540	5,887	3,885	65,257
May.....	860	340	632	720	2,926	900	6,036	--	540	5,875	3,872	65,064
June.....	850	340	650	730	2,801	910	6,026	--	540	5,760	3,915	64,011
July.....	840	340	680	690	2,920	910	6,148	--	540	5,798	3,948	65,533
August.....	840	340	652	730	2,848	890	6,139	--	540	5,780	3,972	65,408
September...	850	330	655	730	2,861	900	6,141	--	530	5,804	4,008	65,448
October....	840	340	635	720	2,766	890	6,153	--	530	5,947	4,091	65,959
November....	840	340	625	720	2,852	900	6,153	--	530	5,960	4,101	65,948
December....	840	350	635	720	2,793	890	6,230	--	530	5,959	4,085	65,138
1999 Average.....	852	340	653	720	2,906	899	6,079	--	538	5,881	3,963	65,678
2000 January....	840	350	635	680	3,032	890	6,239	--	530	E5,833	4,172	66,096
February....	830	350	621	680	2,897	915	6,248	--	530	E5,889	4,142	66,706
March.....	830	350	620	660	2,998	920	6,321	--	530	E5,873	4,209	66,665
April.....	830	350	630	660	3,041	900	6,308	--	520	E5,850	4,244	67,306
May.....	820	350	645	660	3,040	910	6,352	--	520	E5,836	4,252	67,813
June.....	810	340	655	670	3,056	880	6,421	--	520	E5,824	4,317	67,663
July.....	800	320	655	670	2,876	900	6,494	--	510	E5,792	4,319	68,328
August....	790	320	655	720	3,162	970	6,546	--	500	E5,813	R4,331	R69,065
September...	790	320	655	720	3,173	R980	6,590	--	500	E5,767	R4,296	R69,040
October....	790	R310	655	720	2,861	R965	R6,711	--	500	RE5,820	R4,388	R69,452
November....	790	300	648	720	2,965	975	6,737	--	500	PE5,889	4,427	70,023
2000 Average.....	811	333	643	687	3,009	928	6,452	--	515	PE5,835	4,282	68,016

<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=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)

		Indo-												Total
		Algeria	nesia	Iran	Iraq	Kuwait <sup>1/</sup>	Libya	Nigeria	Qatar	Saudi Arabia <sup>1/</sup>	United Arab Emirates	Vene-	zuela	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	2,007	1,446	2,017	515	8,362	2,236	3,240	26,804	
1998	Average...	816	1,338	3,599	2,145	2,085	1,390	2,043	661	8,389	2,265	3,127	27,858	
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	
	June.....	750	1,330	3,380	2,350	1,830	1,290	2,040	620	7,610	2,030	2,720	25,950	
	July.....	750	1,310	3,480	2,800	1,830	1,290	2,020	650	7,610	2,050	2,720	26,510	
	August....	760	1,300	3,500	2,850	1,860	1,290	2,030	650	7,710	2,060	2,720	26,730	
	September..	760	1,300	3,450	2,850	1,885	1,300	2,040	650	7,735	2,065	2,720	26,755	
	October..	760	1,300	3,500	2,665	1,925	1,310	2,060	650	7,845	2,065	2,720	26,800	
	November..	760	1,300	3,450	2,200	1,905	1,320	2,050	650	7,865	2,025	2,740	26,265	
	December..	760	1,300	3,400	1,400	1,922	1,330	1,940	660	7,863	2,075	2,740	25,390	
1999	Average...	772	1,324	3,522	2,503	1,898	1,319	2,020	659	7,833	2,089	2,786	26,726	
2000	January...	760	1,280	3,430	2,210	1,962	1,330	1,900	660	7,863	2,165	2,740	26,300	
	February..	760	1,250	3,490	2,590	2,015	1,380	1,950	670	7,865	2,170	2,800	26,940	
	March.....	760	1,250	3,700	2,210	2,040	1,390	1,970	670	7,865	2,220	2,800	26,875	
	April.....	800	1,280	3,640	2,650	2,100	1,400	2,030	680	8,100	2,300	2,850	27,830	
	May.....	810	1,310	3,650	3,050	2,100	1,400	2,000	700	8,200	2,300	2,880	28,400	
	June.....	820	1,310	3,670	2,560	2,150	1,420	2,030	700	8,250	2,200	2,900	28,010	
	July.....	820	1,310	3,715	2,520	2,170	1,425	2,070	720	8,390	2,400	2,920	28,300	
	August....	830	1,310	3,715	2,990	2,173	1,420	2,050	720	8,823	2,300	2,930	29,260	
	September..	820	1,310	3,720	2,870	2,170	1,430	2,000	720	8,975	2,310	2,930	29,255	
	October..	840	1,280	3,800	3,000	2,210	1,440	2,100	725	8,800	2,330	3,000	29,525	
	November..	835	1,270	3,795	2,810	2,215	1,440	2,150	730	8,900	2,335	3,000	29,480	
2000	Average...	805	1,287	3,666	2,678	2,119	1,407	2,023	700	8,367	2,261	2,886	28,200	

<sup>1/</sup> Includes about one-half of the production in the Kuwait-Saudi Arabia Neutral Zone from January 1990 through July 1990 and beginning again in June 1991. Kuwaiti Neutral Zone output was discontinued following Iraq's invasion of Kuwait on August 2, 1990, but was resumed in June 1991. From August 1990 through May 1991, all production in the Neutral Zone was included in the data for Saudi Arabia. In November 2000, Neutral Zone production by both Kuwait and Saudi Arabia totaled about 665 thousand barrels per day. Data for Saudi Arabia include approximately 150,000 barrels per day from the Abu Safah field, produced on behalf of Bahrain.

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	5,576
1997 Average.....	160	636	388	712	195	--	1,817	1,152	1,384	1,589	5,721
1998 Average.....	155	651	424	755	220	--	1,759	1,225	1,449	1,662	5,866
1999 January.....	155	669	453	685	225	--	1,656	1,160	1,382	1,625	5,758
February.....	155	650	466	685	225	--	1,722	1,160	1,382	1,625	5,872
March.....	155	632	469	695	225	--	1,787	1,170	1,392	1,635	5,904
April.....	155	625	457	655	225	--	1,806	1,130	1,352	1,595	5,867
May.....	155	658	451	655	225	--	1,790	1,135	1,357	1,600	5,820
June.....	155	612	440	650	225	--	1,874	1,135	1,357	1,600	5,820
July.....	155	655	441	650	225	--	1,902	1,140	1,362	1,605	5,988
August.....	155	667	418	660	225	--	1,874	1,155	1,377	1,620	5,887
September....	155	628	414	660	225	--	1,917	1,155	1,377	1,620	5,934
October.....	155	658	414	665	225	--	1,953	1,160	1,382	1,625	5,998
November....	155	675	429	665	225	--	1,949	1,160	1,382	1,625	6,072
December....	155	707	417	665	225	--	1,957	1,160	1,382	1,625	6,095
1999 Average.....	155	653	439	666	225	--	1,850	1,152	1,374	1,617	5,918
2000 January.....	155	701	463	665	225	--	1,942	1,160	1,382	1,625	6,162
February.....	155	694	449	665	225	--	1,981	1,165	1,387	1,630	6,131
March.....	155	690	436	665	225	--	1,983	1,165	1,387	1,630	6,111
April.....	155	663	428	685	225	--	1,966	1,185	1,407	1,650	6,080
May.....	155	699	444	690	225	--	1,942	1,190	1,412	1,655	6,078
June.....	155	665	445	695	225	--	1,922	1,195	1,417	1,660	6,057
July.....	155	675	425	705	225	--	1,923	1,205	1,427	1,670	5,998
August.....	155	695	431	735	225	--	1,944	1,235	1,457	1,700	6,079
September....	155	710	460	750	225	--	1,925	1,250	1,472	1,715	6,156
October.....	155	R725	413	740	225	--	RE1,919	1,240	1,462	1,705	R6,109
November....	155	725	420	740	225	--	E1,941	1,240	1,462	1,705	6,219
2000 Average.....	155	695	438	703	225	--	E1,944	1,203	1,425	1,668	6,107

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

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

<sup>3/</sup> 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>	OAPEC <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	71,390
1997 Average.....	9,461	19,284	20,067	29,355	73,650
1998 Average.....	9,278	20,599	21,282	30,492	75,151
1999 January.....	8,853	20,407	21,037	30,086	74,790
February.....	8,927	21,007	21,387	30,586	75,234
March.....	8,773	20,717	21,234	30,426	74,804
April.....	8,880	19,677	20,424	29,146	73,406
May.....	8,919	19,642	20,389	29,081	73,233
June.....	8,878	19,182	19,923	28,521	72,171
July.....	8,883	19,787	20,418	29,086	73,799
August.....	8,965	20,012	20,631	29,321	73,701
September.....	9,053	20,017	20,694	29,346	73,809
October.....	9,256	20,037	20,664	29,396	74,408
November.....	9,212	19,482	20,169	28,861	74,419
December.....	9,317	18,707	19,454	27,986	73,730
1999 Average.....	8,993	19,884	20,531	29,314	73,954
2000 January.....	E9,069	19,677	20,394	28,896	74,647
February.....	E9,255	20,192	20,889	29,541	75,317
March.....	E9,187	20,097	20,594	29,476	75,202
April.....	E9,159	20,882	21,472	30,451	75,824
May.....	E9,116	21,417	22,001	31,026	76,324
June.....	E9,095	20,952	21,536	30,641	76,164
July.....	E9,019	21,187	21,711	30,941	76,725
August.....	E9,048	22,182	R22,694	31,931	R77,531
September.....	E9,082	22,242	R22,749	31,941	R77,682
October.....	RE9,110	22,332	R22,789	32,201	R78,028
November.....	PE9,155	22,252	22,709	32,156	78,662
2000 Average.....	PE9,117	21,221	21,777	30,839	76,556

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

R=Revised data. E=Estimated. PE=Preliminary estimate. RE=Revised estimate.

Notes: •Oil Supply includes crude oil, natural gas plant liquids, other liquids, and refinery gain. See Explanatory Note 1 in Appendix B. •Monthly data are often preliminary and also may not average to the annual total due to rounding.

See Section 4 for historical series.

Sources: See end of Section 1.

Table 1.5 Oil Stocks in OECD Countries, End of Period  
(Million Barrels)

		France	Italy	Germany <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	104	1,255	1,560	115	685	74	3,689
1998	December.....	161	153	321	108	1,303	1,647	118	649	66	3,784
1999	January.....	181	154	329	110	1,364	1,642	118	645	72	3,841
	February.....	175	146	320	109	1,323	1,635	118	633	74	3,783
	March.....	179	149	306	109	1,308	1,620	120	634	71	3,754
	April.....	173	153	316	110	1,333	1,624	119	636	75	3,787
	May.....	182	154	317	106	1,342	1,658	120	637	74	3,829
	June.....	177	146	310	102	1,304	1,642	118	638	73	3,776
	July.....	174	145	313	103	1,310	1,644	115	645	76	3,790
	August.....	178	151	307	108	1,324	1,622	114	661	78	3,799
	September....	173	150	300	105	1,289	1,615	114	652	77	3,747
	October.....	169	151	295	105	1,288	1,585	118	658	73	3,723
	November....	169	150	290	103	1,257	1,571	116	659	76	3,678
	December....	163	148	287	104	1,232	1,493	108	629	69	3,530
2000	January.....	166	153	297	104	1,253	1,479	112	622	69	3,535
	February....	167	149	289	106	1,245	1,470	108	613	72	R3,509
	March.....	170	154	284	106	R1,243	1,478	R110	606	66	R3,502
	April.....	171	152	280	104	R1,222	1,508	R112	618	69	R3,529
	May.....	172	148	279	97	R1,206	1,526	R110	634	72	R3,548
	June.....	174	152	277	99	R1,224	1,533	R110	632	71	R3,569
	July.....	171	150	281	105	R1,246	1,544	112	639	77	3,617
	August.....	171	153	274	101	1,236	1,537	112	639	66	3,590
	September....	172	156	274	99	1,242	1,531	112	627	75	3,588

<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 September 2000)  
(Million Barrels)

Country	Commercial	Government Owned	Total
Canada.....	112	0	112
United States <sup>1/</sup> .....	961	570	1,531
United States Territories.....	20	0	20
Japan.....	315	312	627
Australia/New Zealand.....	55	NA	55
Austria.....	21	0	21
Belgium/Luxembourg.....	29	0	29
Denmark.....	23	0	23
Finland.....	20	0	20
France.....	172	0	172
Germany <sup>2/</sup> .....	219	55	274
Greece.....	26	NA	26
Ireland.....	5	3	8
Italy.....	150	6	156
Netherlands.....	95	0	95
Norway.....	49	0	49
Portugal.....	25	0	25
Spain.....	116	0	116
Sweden.....	38	0	38
Switzerland.....	39	0	39
Turkey.....	51	0	51
United Kingdom.....	99	0	99
OECD Europe.....	1,178	64	1,242
Total OECD.....	2,642	946	3,588

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

<sup>2/</sup> 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	1,051	38,778
1993	Average....	1,875	1,852	2,900	1,815	13,523	17,237	1,688	5,401	1,117	38,966
1994	Average....	1,833	1,841	2,879	1,837	13,597	17,718	1,727	5,674	1,171	39,887
1995	Average....	1,896	2,048	2,875	1,845	14,120	17,725	1,755	5,711	1,265	40,575
1996	Average....	1,935	2,058	2,911	1,845	14,269	18,309	1,797	5,867	1,190	41,432
1997	Average....	1,954	2,045	2,903	1,781	14,412	18,620	1,842	5,711	1,221	41,807
1998	Average....	2,031	2,072	2,916	1,765	14,699	18,917	1,859	5,512	1,275	42,262
1999	January....	2,022	2,047	2,561	1,670	14,106	19,029	1,853	5,887	1,144	42,019
	February...	2,218	2,108	3,171	1,865	15,659	19,107	1,975	6,471	1,278	44,490
	March.....	2,123	2,003	3,549	1,838	15,911	19,497	1,871	6,192	1,435	44,906
	April.....	2,004	1,886	2,431	1,685	13,900	19,152	1,814	5,323	1,336	41,524
	May.....	1,728	1,764	2,472	1,619	13,150	18,705	1,899	4,788	1,271	39,813
	June.....	2,007	1,953	2,687	1,683	14,261	19,836	1,903	4,968	1,390	42,357
	July.....	1,998	1,948	2,587	1,674	13,950	19,820	1,967	5,091	1,260	42,089
	August....	1,890	1,795	2,735	1,678	13,759	20,093	1,932	5,277	1,388	42,448
	September..	1,988	2,060	2,876	1,703	14,486	19,483	2,010	5,359	1,254	42,592
	October....	2,015	1,976	2,925	1,700	14,413	19,868	1,932	5,088	1,387	42,689
	November...	2,155	2,067	2,968	1,784	15,233	19,087	2,021	5,732	1,290	43,363
	December...	2,196	2,111	2,929	1,716	15,379	20,498	2,020	6,744	1,486	46,127
	Average....	2,027	1,975	2,822	1,717	14,508	19,519	1,933	5,572	1,327	42,859
2000	January....	2,144	1,911	2,394	R1,652	R14,017	18,592	R1,875	5,404	1,371	R41,259
	February...	2,120	2,077	2,707	R1,744	R14,966	19,296	R2,079	6,347	1,298	R43,986
	March.....	2,101	1,982	2,733	R1,824	R14,743	19,064	R1,905	6,211	1,396	R43,318
	April.....	1,925	1,863	2,630	R1,590	R13,711	18,590	R1,814	5,196	1,240	R40,551
	May.....	1,837	1,835	2,676	R1,606	R13,953	19,345	R2,033	4,871	1,299	R41,500
	June.....	1,945	1,997	2,701	R1,638	R14,228	19,833	R2,005	4,880	1,275	R42,221
	July.....	1,947	1,898	2,746	R1,583	R13,906	19,584	1,982	5,230	1,272	R41,975
	August....	1,958	R1,900	3,069	R1,706	R14,653	20,224	R1,994	5,483	R1,403	R43,757
	September..	1,784	2,016	2,982	1,739	14,549	19,741	2,023	5,429	1,202	42,944

<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 1999 and Petroleum Supply Monthly, December 2000.

Other Countries: Annual data -- EIA, International Energy Annual, various issues. Monthly data -- Denmark, Mexico, Netherlands, Norway, Germany, and all OPEC countries -- Energy Intelligence Group, 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 1999 and Petroleum Supply Monthly, December 2000.

Other OECD Countries: • Organization for Economic Cooperation and Development (OECD), Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Monthly Oil Statistics data base, 1990-2000.

### Oil Demand

United States: EIA, Petroleum Supply Annual 1999 and Petroleum Supply Monthly, December 2000.

Other OECD Countries: • OECD, Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Monthly Oil Statistics data base, 1990-2000.

## **2. International Oil Balance Data**

**Table 2.1 World Oil Balance, 1996-2000**  
 (Million Barrels Per Day)

	1996	1997	1998	1999				2000					
	Annual		Quarter		Annual		Quarter		Annual				
	Average		First	Second	Third	Fourth	Average	First	Second	Third	Fourth	Average	
<b>Supply<sup>1/</sup></b>													
OECD													
United States <sup>2/</sup> .....	9.44	9.46	9.28	8.85	8.89	8.97	9.26	8.99	9.17	9.12	9.05	NA	NA
Other OECD.....	10.26	10.41	10.39	10.36	10.06	10.33	10.94	10.43	11.04	10.53	10.56	NA	NA
Total OECD.....	19.70	19.87	19.67	19.21	18.95	19.30	20.21	19.42	20.20	19.66	19.61	NA	NA
Non-OECD													
OPEC.....	28.02	29.35	30.49	30.36	28.92	29.25	28.75	29.31	29.30	30.71	31.60	NA	NA
Former USSR.....	7.05	7.21	7.25	7.27	7.34	7.48	7.52	7.40	7.62	7.73	7.94	NA	NA
Other Non-OECD.....	16.62	17.22	17.74	18.10	17.73	17.75	17.71	17.82	17.92	18.02	18.16	NA	NA
Total Non-OECD.....	51.69	53.78	55.48	55.72	53.99	54.47	53.98	54.53	54.84	56.45	57.70	NA	NA
Total World Supply.....	71.39	73.65	75.15	74.93	72.94	73.77	74.18	73.95	75.05	76.11	77.31	NA	NA
<b>Demand<sup>3/</sup></b>													
OECD													
United States <sup>2/</sup> .....	18.31	18.62	18.92	19.21	19.23	19.80	19.83	19.52	18.98	19.26	19.85	NA	NA
Other OECD.....	23.12	23.19	23.35	24.57	21.99	22.57	24.24	23.34	23.85	22.17	23.05	NA	NA
Total OECD.....	41.43	41.81	42.26	43.78	41.22	42.37	44.07	42.86	42.83	41.42	42.90	NA	NA
Non-OECD													
China.....	3.61	3.92	4.11	4.36	4.32	4.28	4.32	4.32	4.57	4.53	4.48	NA	NA
Former USSR.....	4.02	3.88	3.77	3.88	3.58	3.65	3.80	3.73	3.85	3.70	3.70	NA	NA
Other Non-OECD.....	22.34	23.49	23.47	23.80	24.07	23.93	24.29	24.02	24.42	24.76	24.60	NA	NA
Total Non-OECD.....	29.97	31.28	31.35	32.04	31.96	31.85	32.41	32.07	32.84	32.99	32.79	NA	NA
Total World Demand.....	71.40	73.09	73.61	75.83	73.18	74.23	76.48	74.93	75.68	74.42	75.69	NA	NA
<b>Stock Draws / Discrepancy</b>													
Net Reported Stock Draws <sup>4/</sup>													
U. S. Commercial.....	.08	-.15	-.22	.31	-.21	.30	1.24	.41	.19	-.61	.02	NA	NA
U. S. Strategic.....	.07	.01	-.02	-.01	-.03	.00	.09	.01	-.02	.00	-.01	NA	NA
Other OECD.....	-.13	-.12	-.02	.03	.01	.02	1.03	.27	.14	-.13	-.22	NA	NA
For Export & Afloat.....	-.01	-.12	-.01	-.22	.82	-.33	.33	.15	-.44	-.55	-.38	NA	NA
Commr. Floating Storage...	.00	.00	-.08	.07	.01	-.10	-.26	-.07	.03	.20	.09	NA	NA
Total Reported Draws.....	.01	-.39	-.36	.17	.60	-.11	2.42	.77	-.10	-1.08	-.50	NA	NA
Other Stock Draws and Statistical Discrepancy <sup>5/</sup>	.00	-.17	-1.19	.72	-.36	.57	-.13	.20	.73	-.61	-1.12	NA	NA

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

<sup>2/</sup> U.S. geographical coverage is the 50 States and the District of Columbia. See Explanatory Note 1 in Appendix B.

<sup>3/</sup> The term Demand is used interchangeably with the terms Consumption and Petroleum Products Supplied. See Appendix C for definition.

<sup>4/</sup> Stock draws are positive numbers, stock additions are negative numbers.

<sup>5/</sup> This is computed as Total Demand minus the sum of Total Supply and Total Reported Stock Draw.

NA=Not available.

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

Sources: See end of Section 2.

**Table 2.2 World Oil Supply, 1996-2000**  
(Million Barrels Per Day)

	1996	1997	1998	1999					2000					
	Annual		Quarter				Annual		Quarter		Annual			
	Average		First	Second	Third	Fourth	Average		First	Second	Third	Fourth	Average	
<b>OECD</b>														
United States <sup>1/</sup> ....	9.44	9.46	9.28	8.85	8.89	8.97	9.26	8.99	9.17	9.12	9.05	NA	NA	
Canada.....	2.49	2.62	2.69	2.58	2.58	2.62	2.71	2.62	2.71	2.71	2.74	NA	NA	
North Sea <sup>2/</sup> .....	6.22	6.20	6.18	6.29	6.02	6.21	6.66	6.30	6.64	6.16	6.17	NA	NA	
Other OECD.....	1.55	1.59	1.52	1.49	1.46	1.49	1.57	1.51	1.68	1.66	1.65	NA	NA	
Total OECD.....	19.70	19.87	19.67	19.21	18.95	19.30	20.21	19.42	20.20	19.66	19.61	NA	NA	
<b>Non-OECD</b>														
<b>OPEC</b>														
<b>Crude</b>														
Algeria.....	1.24	1.28	1.25	1.24	1.19	1.19	1.20	1.19	1.24	1.25	NA	NA	NA	
Indonesia.....	1.55	1.52	1.52	1.53	1.52	1.48	1.48	1.50	1.44	1.48	1.49	NA	NA	
Iran.....	3.69	3.66	3.63	3.79	3.44	3.51	3.48	3.56	3.58	3.69	3.75	NA	NA	
Iraq.....	.58	1.15	2.15	2.53	2.57	2.84	2.09	2.51	2.34	2.76	2.80	NA	NA	
Kuwait.....	2.06	2.01	2.09	2.01	1.81	1.86	1.92	1.90	2.01	2.12	2.17	NA	NA	
Libya.....	1.40	1.45	1.39	1.36	1.30	1.29	1.32	1.32	1.37	1.41	1.42	NA	NA	
Nigeria.....	2.00	2.13	2.15	2.09	2.17	2.14	2.13	2.13	2.05	2.13	2.15	NA	NA	
Qatar.....	.51	.55	.70	.72	.68	.68	.69	.69	.70	.73	.75	NA	NA	
Saudi Arabia..	8.22	8.36	8.39	8.15	7.65	7.68	7.86	7.83	7.86	8.18	8.73	NA	NA	
United Arab Emirates...	2.28	2.32	2.35	2.27	2.14	2.14	2.14	2.17	2.27	2.35	2.36	NA	NA	
Venezuela.....	2.94	3.28	3.17	2.99	2.78	2.76	2.77	2.83	2.82	2.92	2.97	NA	NA	
<b>Natural Gas</b>														
Plant Liquids	1.50	1.59	1.66	1.63	1.60	1.61	1.63	1.62	1.63	1.65	1.69	NA	NA	
Processing Gain.	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	NA	NA	
Total OPEC.....	28.02	29.35	30.49	30.36	28.92	29.25	28.75	29.31	29.30	30.71	31.60	NA	NA	
Former USSR.....	7.05	7.21	7.25	7.27	7.34	7.48	7.52	7.40	7.62	7.73	7.94	NA	NA	
China.....	3.13	3.20	3.20	3.23	3.19	3.19	3.22	3.21	3.27	3.28	3.24	NA	NA	
Mexico.....	3.31	3.44	3.52	3.56	3.35	3.33	3.25	3.37	3.45	3.51	3.54	NA	NA	
Other Non-OECD....	10.18	10.58	11.02	11.30	11.19	11.23	11.25	11.24	11.20	11.22	11.39	NA	NA	
Total Non-OECD....	51.69	53.78	55.48	55.72	53.99	54.47	53.98	54.53	54.84	56.45	57.70	NA	NA	
Total Supply.....	71.39	73.65	75.15	74.93	72.94	73.77	74.18	73.95	75.05	76.11	77.31	NA	NA	

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

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

NA=Not available.

Notes: •Supply includes crude oil (including lease condensate), natural gas plant liquids, (except for individual OPEC countries), other 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)

	1996	1997	1998	1999				2000			
	Year End		Quarter				Quarter				
			First	Second	Third	Fourth	First	Second	Third	Fourth	
<b>OECD</b>											
United States <sup>1/</sup>											
Commercial.....	941	997	1,076	1,048	1,067	1,040	926	909	964	961	NA
Strategic.....	566	563	571	572	575	575	567	569	569	570	NA
U. S. Territories.....	25	23	22	22	22	25	20	19	20	20	NA
Canada.....	103	115	118	120	118	114	108	110	110	112	NA
Japan.....	651	685	649	634	638	652	629	606	632	627	NA
OECD Europe											
France.....	158	164	161	179	177	173	163	170	174	172	NA
Germany.....	300	298	321	306	310	300	287	284	277	274	NA
Italy.....	152	147	153	149	146	150	148	154	152	156	NA
United Kingdom.....	108	104	108	109	102	105	104	106	99	99	NA
Other OECD Europe....	537	542	560	566	570	561	530	529	521	541	NA
Total.....	1,256	1,255	1,303	1,308	1,304	1,289	1,232	1,243	1,224	1,242	NA
Australia & New Zealand	49	51	44	49	51	52	48	47	51	55	NA
Total OECD.....	3,591	3,689	3,784	3,754	3,776	3,747	3,530	3,502	3,569	3,588	NA
<b>Stocks for Export</b>											
and Afloat <sup>2/</sup> .....	985	1,030	1,035	1,055	980	1,010	980	1,020	1,070	1,105	NA
Commercial Floating <sup>3/</sup> ....	70	70	100	94	93	102	126	123	105	97	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, 1996-2000**  
 (Million Barrels Per Day)

	1996	1997	1998	1999				2000						
	Annual		Quarter				Annual		Quarter		Annual			
	Average		First	Second	Third	Fourth	Average		First	Second	Third	Fourth	Average	
<b>OECD</b>														
United States <sup>1</sup> /.....	18.31	18.62	18.92	19.21	19.23	19.80	19.83	19.52	18.98	19.26	19.85	NA	NA	
U. S. Territories.....	.26	.27	.31	.33	.35	.33	.36	.34	.37	.28	.32	NA	NA	
Canada.....	1.80	1.84	1.86	1.90	1.87	1.97	1.99	1.93	1.95	1.95	2.00	NA	NA	
Japan.....	5.87	5.71	5.51	6.17	5.02	5.24	5.86	5.57	5.98	4.98	5.38	NA	NA	
OECD Europe <sup>2</sup> /														
France.....	1.93	1.95	2.03	2.12	1.91	1.96	2.12	2.03	2.12	1.90	1.90	NA	NA	
Italy.....	2.06	2.04	2.07	2.05	1.87	1.93	2.05	1.98	1.99	1.90	1.94	NA	NA	
United Kingdom.....	1.85	1.78	1.77	1.79	1.66	1.68	1.73	1.72	1.74	1.61	1.68	NA	NA	
Germany <sup>3</sup> /.....	2.91	2.90	2.92	3.09	2.53	2.73	2.94	2.82	2.61	2.67	2.93	NA	NA	
Other OECD Europe....	5.52	5.73	5.91	6.16	5.80	5.75	6.16	5.97	6.11	5.88	5.93	NA	NA	
Total OECD Europe....	14.27	14.41	14.70	15.21	13.76	14.06	15.01	14.51	14.57	13.96	14.37	NA	NA	
Australia & New Zealand	.93	.95	.96	.96	.98	.97	1.03	.98	.98	1.00	.97	NA	NA	
Total OECD.....	41.43	41.81	42.26	43.78	41.22	42.37	44.07	42.86	42.83	41.42	42.90	NA	NA	
<b>Non-OECD</b>														
China.....	3.61	3.92	4.11	4.36	4.32	4.28	4.32	4.32	4.57	4.53	4.48	NA	NA	
Former USSR.....	4.02	3.88	3.77	3.88	3.58	3.65	3.80	3.73	3.85	3.70	3.70	NA	NA	
Other Non-OECD.....	22.34	23.49	23.47	23.80	24.07	23.93	24.29	24.02	24.42	24.76	24.60	NA	NA	
Total Non-OECD.....	29.97	31.28	31.35	32.04	31.96	31.85	32.41	32.07	32.84	32.99	32.79	NA	NA	
Total World Demand.....	71.40	73.09	73.61	75.83	73.18	74.23	76.48	74.93	75.68	74.42	75.69	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 1999 and Petroleum Supply Monthly, December 2000.

Other Countries: Annual data -- EIA, International Energy Annual, various issues. Monthly data -- Denmark, Mexico, Netherlands, Norway, Germany, and all OPEC countries -- Energy Intelligence Group, 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 1999 and Petroleum Supply Monthly, December 2000.

Other OECD Countries: • Organization for Economic Cooperation and Development (OECD), Quarterly Oil Statistics and Energy Balances, various issues.  
• OECD, Monthly Oil Statistics data base, 1995-2000. 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 1999 and Petroleum Supply Monthly, December 2000.

Other OECD Countries: • OECD, Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Monthly Oil Statistics data base, 1995-2000.

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, (1999 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	
	Total										
Total Net Imports..	22.187	7.037	-1.257	1.862	2.608	1.731	2.093	9.912	-0.804	5.463	0.579
Imports from OPEC <sup>5/</sup>	16.221	5.920	.135	.918	.597	1.234	3.036	4.934	.303	4.403	.661
Imports from Persian Gulf <sup>6/</sup>											
Total.....	10.123	3.301	.031	.629	.140	.570	1.931	2.459	.089	4.051	.223
Bahrain.....	.018	.001	-	.001	-	.000	-	.000	.000	.017	.000
Iran.....	1.443	.940	.000	.137	.016	.269	.518	.000	.000	.502	.002
Iraq.....	1.707	.808	-	.148	.017	.130	.512	.725	.027	.099	.048
Kuwait.....	.993	.223	.005	.037	.015	.003	.163	.248	.001	.515	.007
U.A.E.....	1.304	.006	.002	.001	.000	.000	.003	-.002	-	1.266	.034
Qatar.....	.464	.000	-	.000	-	-	.000	.010	-	.442	.012
Saudi Arabia.....	4.193	1.324	.024	.304	.091	.169	.735	1.477	.062	1.210	.120
Imports from OPEC-Africa											
Total.....	3.512	2.403	.078	.284	.417	.655	.969	.915	.095	.038	.061
Algeria.....	1.049	.706	.026	.117	.098	.111	.354	.259	.067	.013	.004
Libya.....	1.251	1.251	.042	.067	.296	.516	.329	.000	-	-	.000
Nigeria.....	1.212	.446	.010	.099	.023	.027	.286	.656	.028	.025	.057
Imports from OPEC-South America											
Total.....	2.060	.212	.026	.002	.041	.007	.136	1.481	.118	.001	.248
Venezuela.....	2.060	.212	.026	.002	.041	.007	.136	1.481	.118	.001	.248
Imports from OPEC-Far East											
Total.....	.544	.005	-	.004	.000	.001	.000	.080	-	.329	.130
Indonesia.....	.544	.005	-	.004	.000	.001	.000	.080	-	.329	.130

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

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

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

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

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

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

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

Sources: See end of Section 3.

Table 3.2 Net Oil Imports into OECD Countries, (3rd Quarter 2000)  
(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..	22.874	7.440	-0.998	1.729	2.738	1.745	2.226	10.559	-0.729	5.244	0.360
Imports from OPEC <sup>5/</sup>	16.621	6.007	.166	.864	.688	1.251	3.039	5.429	.302	4.227	.656
Imports from Persian Gulf <sup>6/</sup>											
Total.....	10.421	3.435	.089	.634	.172	.587	1.953	2.726	.097	3.884	.278
Bahrain.....	.012	.000	.000	.000	-	.000	-	.000	.000	.012	.000
Iran.....	1.426	.941	.000	.105	.029	.224	.582	.000	.000	.486	.000
Iraq.....	1.728	.771	-	.155	.007	.167	.442	.749	.051	.057	.100
Kuwait.....	1.066	.254	.005	.029	.015	.021	.185	.329	.001	.476	.006
U.A.E.....	1.368	.055	.035	.014	.000	.002	.004	.015	-	1.250	.048
Qatar.....	.456	.000	-	.000	-	-	.000	.008	-	.433	.015
Saudi Arabia.....	4.365	1.415	.049	.330	.122	.173	.740	1.625	.045	1.171	.108
Imports from OPEC-Africa											
Total.....	3.737	2.366	.047	.226	.476	.656	.962	1.216	.079	.000	.076
Algeria.....	1.098	.825	.019	.126	.187	.117	.376	.219	.055	.000	-.002
Libya.....	1.203	1.203	.028	.060	.259	.539	.317	.000	-	-	.000
Nigeria.....	1.436	.338	.000	.040	.029	.000	.269	.997	.024	.000	.078
Imports from OPEC-South America											
Total.....	2.042	.202	.030	.005	.040	.008	.120	1.453	.125	.014	.247
Venezuela.....	2.042	.202	.030	.005	.040	.008	.120	1.453	.125	.014	.247
Imports from OPEC-Far East											
Total.....	.433	.004	-	.001	.000	.000	.003	.033	-	.341	.056
Indonesia.....	.433	.004	-	.001	.000	.000	.003	.033	-	.341	.056

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.

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

Sources: See end of Section 3.

Table 3.3 Net Oil Imports into OECD Countries, (2nd Quarter 2000)  
(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	
	Total										
Total Net Imports..	21.887	6.714	-1.129	1.784	2.426	1.633	1.999	10.279	-0.848	5.385	0.357
Imports from OPEC <sup>5/</sup>	16.036	5.645	.195	.826	.542	1.240	2.841	5.115	.305	4.354	.617
Imports from Persian Gulf <sup>6/</sup>											
Total.....	10.014	3.235	.120	.579	.134	.566	1.836	2.380	.089	4.072	.238
Bahrain.....	.011	.000	.000	.000	-	.000	-	-.001	.000	.011	.001
Iran.....	1.179	.718	.000	.078	.021	.194	.424	.000	.000	.462	.000
Iraq.....	1.557	.832	-	.144	.007	.173	.508	.639	.024	.022	.040
Kuwait.....	1.028	.289	.028	.055	.015	.031	.161	.209	.000	.525	.005
U.A.E.....	1.439	.010	.003	.007	.000	.000	.001	.016	-	1.368	.045
Qatar.....	.446	.008	-	.008	-	-	.000	.010	-	.428	-.001
Saudi Arabia.....	4.354	1.377	.089	.287	.091	.169	.742	1.507	.066	1.256	.148
Imports from OPEC-Africa											
Total.....	3.606	2.185	.053	.243	.360	.662	.867	1.232	.113	.008	.068
Algeria.....	1.050	.749	.024	.141	.129	.117	.337	.229	.062	.008	.003
Libya.....	1.155	1.155	.027	.066	.207	.545	.311	.000	-	-	.000
Nigeria.....	1.400	.281	.002	.036	.023	.000	.219	1.003	.051	.000	.065
Imports from OPEC-South America											
Total.....	2.031	.224	.022	.004	.048	.012	.138	1.446	.103	.013	.244
Venezuela.....	2.031	.224	.022	.004	.048	.012	.138	1.446	.103	.013	.244
Imports from OPEC-Far East											
Total.....	.396	.000	-	.000	.000	.000	.000	.056	-	.271	.068
Indonesia.....	.396	.000	-	.000	.000	.000	.000	.056	-	.271	.068

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

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

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

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

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

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

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

Sources: See end of Section 3.

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

	1999						2000					
	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	August	Sept
Total.....	21.825	20.398	20.551	20.718	22.242	21.426	21.441	21.650	22.576	22.358	23.676	22.577
United States <sup>1/</sup> .....	9.651	9.083	8.835	8.789	9.526	9.609	9.960	10.125	10.756	10.444	10.776	10.453
Canada.....	-.796	-.908	-1.117	-.953	-.860	-.859	-.871	-.908	-.762	-.696	-.864	-.623
OECD Europe <sup>2/</sup> .....	7.026	5.813	6.790	7.075	7.289	6.760	6.163	6.558	7.425	6.880	7.601	7.851
<b>Main European Importers</b>												
France.....	1.767	1.764	2.013	2.123	1.990	2.077	1.793	1.879	1.678	1.723	1.777	1.685
Germany <sup>3/</sup> .....	2.657	2.724	2.735	2.509	2.347	2.449	2.404	2.445	2.429	2.651	2.711	2.857
Italy.....	1.796	1.820	1.794	1.817	1.976	1.756	1.576	1.510	1.817	1.598	1.766	1.875
Spain.....	1.411	1.267	1.506	1.439	1.445	1.394	1.406	1.352	1.464	1.364	1.390	1.438
Netherlands.....	.662	.751	.697	.821	.734	.618	.875	.813	1.058	.868	1.014	.785
<b>European Net Exporters</b>												
Norway.....	-2.692	-3.609	-3.485	-3.316	-3.195	-3.114	-3.580	-3.160	-2.948	-3.248	-3.279	-2.775
United Kingdom....	-1.397	-1.637	-1.438	-1.309	-.993	-1.234	-1.179	-1.025	-1.185	-1.028	-1.050	-.915
<b>Smaller European Importers</b>												
Austria.....	.236	.241	.213	.185	.247	.191	.187	.156	.261	.240	.220	.200
Belgium.....	.517	.488	.593	.614	.651	.555	.600	.459	.592	.535	.641	.602
Denmark.....	-.159	-.143	-.178	-.154	-.141	-.153	-.198	-.143	-.156	-.139	-.121	-.191
Ireland.....	.150	.176	.184	.200	.146	.164	.098	.164	.159	.113	.117	.149
Finland.....	.180	.205	.239	.274	.221	.071	.160	.234	.307	.260	.238	.087
Greece.....	.448	.289	.285	.406	.348	.404	.400	.329	.387	.346	.361	.324
Iceland.....	.017	.017	.009	.021	.013	.030	.013	.026	.013	.014	.022	.023
Luxembourg.....	.045	.044	.048	.046	.051	.051	.045	.048	.041	.048	.047	.048
Portugal.....	.295	.352	.292	.321	.356	.291	.298	.351	.272	.317	.399	.330
Sweden.....	.343	.260	.370	.331	.236	.427	.395	.366	.312	.378	.361	.429
Switzerland.....	.235	.254	.258	.223	.264	.210	.217	.251	.238	.245	.270	.289
Turkey.....	.514	.551	.652	.525	.593	.573	.654	.504	.684	.597	.716	.611
Japan.....	5.482	5.765	5.658	5.693	5.968	5.558	6.008	5.326	4.823	5.306	5.733	4.674
Other OECD.....	.462	.645	.385	.114	.319	.358	.181	.550	.334	.424	.431	.221

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

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

Sources: See end of Section 3.

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

	1999						2000					
	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	August	Sept
Total.....	15.914	15.322	15.508	15.030	16.263	15.707	16.081	15.582	16.460	16.009	17.576	16.268
United States <sup>1/</sup> .....	4.632	4.421	4.538	4.107	4.626	4.994	5.028	4.829	5.499	5.120	5.827	5.338
Canada.....	.386	.260	.236	.317	.303	.338	.255	.286	.375	.356	.238	.312
OECD Europe <sup>2/</sup> .....	5.927	5.403	5.793	5.740	5.845	5.386	5.385	5.494	6.061	5.706	6.157	6.163
<b>Main European Importers</b>												
France.....	.816	.663	.890	.852	.944	.850	.662	.833	.984	.952	.812	.828
Germany <sup>3/</sup> .....	.659	.649	.571	.579	.510	.539	.512	.612	.499	.698	.680	.685
Italy.....	1.215	1.117	1.214	1.301	1.358	1.250	1.122	1.291	1.306	1.052	1.288	1.417
Spain.....	.863	.780	.928	.892	.805	.883	.871	.742	.829	.724	.789	.808
Netherlands.....	.734	.795	.732	.697	.699	.538	.646	.542	.816	.751	.644	.856
<b>European Net Exporters</b>												
Norway.....	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
United Kingdom....	.174	.152	.097	.101	.129	.161	.147	.218	.220	.164	.169	.164
<b>Smaller European Importers</b>												
Austria.....	.108	.153	.122	.083	.094	.069	.103	.050	.092	.105	.094	.078
Belgium.....	.210	.176	.182	.138	.176	.144	.227	.256	.247	.211	.239	.326
Denmark.....	.045	.025	.024	.045	.055	.000	.025	.032	.039	.012	.067	.020
Finland.....	.000	.000	.000	.002	.000	.000	.000	.000	.000	.000	.000	.000
Greece.....	.390	.292	.298	.362	.276	.330	.379	.326	.304	.291	.363	.262
Portugal.....	.197	.169	.140	.159	.160	.088	.048	.125	.090	.204	.300	.159
Sweden.....	.082	.004	.067	.027	.084	.084	.060	.030	.103	.081	.179	.039
Switzerland.....	.103	.100	.104	.106	.106	.074	.089	.077	.092	.093	.098	.103
Turkey.....	.324	.328	.424	.396	.452	.376	.494	.360	.439	.368	.437	.418
Japan.....	4.368	4.583	4.372	4.408	4.711	4.482	4.783	4.354	3.923	4.056	4.752	3.862
Other OECD.....	.601	.655	.569	.459	.777	.507	.630	.619	.602	.771	.603	.592

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

Sources: See end of Section 3.

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

	1999						2000					
	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	August	Sept
Total.....	10.187	9.759	9.323	9.040	10.128	9.233	10.125	9.771	10.153	9.930	11.076	10.251
United States <sup>1/</sup> .....	2.475	2.330	2.325	2.036	2.250	2.187	2.350	2.208	2.587	2.584	2.784	2.813
Canada.....	.165	.070	.002	.099	.142	.061	.089	.085	.093	.157	.002	.134
OECD Europe <sup>2/</sup> .....	3.221	2.942	2.797	2.674	3.121	2.700	2.888	3.207	3.611	3.257	3.524	3.527
<b>Main European Importers</b>												
France.....	.578	.488	.509	.459	.627	.547	.435	.557	.745	.721	.567	.612
Germany <sup>3/</sup> .....	.143	.148	.083	.075	.071	.099	.122	.167	.112	.170	.182	.164
Italy.....	.567	.479	.474	.479	.657	.506	.406	.642	.649	.480	.568	.719
Spain.....	.291	.310	.319	.328	.300	.341	.372	.358	.354	.268	.374	.335
Netherlands.....	.564	.660	.529	.480	.528	.350	.495	.411	.641	.574	.486	.683
<b>European Net Exporters</b>												
United Kingdom....	.032	.035	.022	.052	.030	.047	.082	.132	.146	.100	.098	.068
<b>Smaller European Importers</b>												
Austria.....	.070	.068	.033	.029	.045	.035	.047	.035	.069	.042	.057	.050
Belgium.....	.193	.165	.166	.122	.134	.123	.197	.232	.211	.187	.214	.301
Denmark.....	.000	.000	.000	.013	.003	.000	.000	.008	.014	.012	.020	.000
Finland.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Greece.....	.348	.245	.263	.323	.214	.280	.366	.301	.268	.248	.323	.222
Portugal.....	.177	.117	.070	.052	.091	.051	.027	.074	.060	.155	.173	.087
Sweden.....	.064	.000	.067	.000	.069	.067	.010	.000	.070	.068	.131	.013
Switzerland.....	.014	.005	.005	.000	.000	.009	.004	.012	.012	.009	.009	.007
Turkey.....	.178	.222	.257	.261	.352	.245	.325	.279	.262	.223	.322	.266
Japan.....	4.118	4.116	3.991	4.079	4.429	4.139	4.579	4.056	3.582	3.674	4.447	3.520
Other OECD.....	.207	.301	.208	.152	.186	.146	.218	.215	.280	.257	.319	.257

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

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

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

NA=Not available.

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

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

Sources: See end of Section 3.

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

	1999						2000					
	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	August	Sept
Total Net Imports..	9.651	9.083	8.835	8.789	9.526	9.609	9.960	10.125	10.756	10.444	10.776	10.453
Imports from OPEC <sup>1/</sup>	4.632	4.421	4.538	4.107	4.626	4.994	5.028	4.829	5.499	5.120	5.827	5.338
Imports from Persian Gulf <sup>2/</sup>												
Total.....	2.475	2.330	2.325	2.036	2.250	2.187	2.350	2.208	2.587	2.584	2.784	2.813
Bahrain.....	.000	-.003	.000	.000	.000	.000	.000	-.003	.000	.000	.000	-.001
Iran.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Iraq.....	.922	.713	.668	.254	.719	.468	.640	.438	.847	.747	.749	.752
Kuwait.....	.205	.216	.200	.239	.267	.162	.248	.170	.210	.252	.383	.352
U.A.E.....	-.003	-.003	-.006	.000	-.006	.017	-.005	.028	.024	.021	-.003	.028
Qatar.....	.000	.011	.008	.004	.002	.009	.011	.009	.010	.008	.006	.010
Saudi Arabia.....	1.351	1.396	1.455	1.539	1.268	1.531	1.456	1.566	1.496	1.556	1.649	1.672
Imports from OPEC-Africa												
Total.....	.726	.799	.765	.715	.816	1.226	1.122	1.179	1.397	1.115	1.358	1.174
Algeria.....	.183	.211	.279	.226	.153	.199	.195	.270	.222	.205	.236	.216
Libya.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Nigeria.....	.543	.588	.486	.489	.663	1.027	.927	.909	1.175	.910	1.122	.958
Imports from OPEC-South America												
Total.....	1.336	1.216	1.330	1.325	1.528	1.536	1.465	1.406	1.469	1.407	1.605	1.345
Venezuela.....	1.336	1.216	1.330	1.325	1.528	1.536	1.465	1.406	1.469	1.407	1.605	1.345
Imports from OPEC-Far East												
Total.....	.095	.073	.118	.031	.032	.045	.091	.033	.046	.014	.080	.005
Indonesia.....	.095	.073	.118	.031	.032	.045	.091	.033	.046	.014	.080	.005

<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. •U.S. geographic coverage is the 50 States and District of Columbia. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

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

	1999						2000					
	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	August	Sept
Total Net Imports..	5.482	5.765	5.658	5.693	5.968	5.558	6.008	5.326	4.823	5.306	5.733	4.674
Imports from OPEC <sup>1/</sup>	4.368	4.583	4.372	4.408	4.711	4.482	4.783	4.354	3.923	4.056	4.752	3.862
Imports from Persian Gulf <sup>2/</sup>												
Total.....	4.118	4.116	3.991	4.079	4.429	4.139	4.579	4.056	3.582	3.674	4.447	3.520
Bahrain.....	.022	.030	.023	.022	.016	.000	.015	.016	.000	.013	.016	.007
Iran.....	.557	.490	.617	.652	.510	.492	.582	.380	.425	.474	.511	.472
Iraq.....	.133	.225	.032	.000	.000	.119	.000	.000	.067	.000	.108	.064
Kuwait.....	.499	.479	.544	.445	.626	.538	.578	.510	.488	.410	.576	.441
U.A.E.....	1.147	1.299	1.264	1.413	1.366	1.129	1.612	1.253	1.242	1.221	1.363	1.162
Qatar.....	.389	.454	.418	.417	.548	.444	.488	.439	.358	.507	.405	.385
Saudi Arabia.....	1.371	1.138	1.093	1.129	1.364	1.416	1.304	1.457	1.002	1.049	1.470	.988
Imports from OPEC-Africa												
Total.....	.018	.163	.061	.061	.000	.000	.007	.000	.016	.000	.000	.000
Algeria.....	.018	.022	.000	.000	.000	.000	.007	.000	.016	.000	.000	.000
Nigeria.....	.000	.141	.061	.061	.000	.000	.000	.000	.000	.000	.000	.000
Imports from OPEC-South America												
Total.....	.000	.000	.000	.000	.014	.013	.014	.013	.013	.020	.000	.022
Venezuela.....	.000	.000	.000	.000	.014	.013	.014	.013	.013	.020	.000	.022
Imports from OPEC-Far East												
Total.....	.254	.334	.342	.290	.283	.330	.199	.301	.311	.375	.320	.326
Indonesia.....	.254	.334	.342	.290	.283	.330	.199	.301	.311	.375	.320	.326

<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.

•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)

	1999						2000					
	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	August	Sept
Total Net Imports..	7.026	5.813	6.790	7.075	7.289	6.760	6.163	6.558	7.425	6.880	7.601	7.851
Imports from OPEC <sup>1/</sup>	5.927	5.403	5.793	5.740	5.845	5.386	5.385	5.494	6.061	5.706	6.157	6.163
Imports from Persian Gulf <sup>2/</sup>												
Total.....	3.221	2.942	2.797	2.674	3.121	2.700	2.888	3.207	3.611	3.257	3.524	3.527
Bahrain.....	.000	.000	.014	.000	.000	.000	.000	.000	.000	.000	.000	.000
Iran.....	.946	.744	.839	.493	.854	.846	.581	.815	.753	.978	.980	.862
Iraq.....	.745	1.029	.373	.682	.824	.619	.681	.867	.948	.527	.822	.969
Kuwait.....	.232	.191	.318	.232	.227	.154	.330	.197	.344	.248	.249	.265
U.A.E.....	.000	.000	.035	.000	.000	.000	.000	.001	.031	.060	.065	.041
Qatar.....	.000	.000	.000	.000	.000	.000	.025	.000	.000	.000	.000	.000
Saudi Arabia.....	1.298	.978	1.218	1.267	1.216	1.081	1.270	1.327	1.535	1.444	1.408	1.391
Imports from OPEC-Africa												
Total.....	2.487	2.337	2.802	2.909	2.570	2.529	2.212	2.096	2.251	2.298	2.326	2.478
Algeria.....	.745	.724	.890	.892	.776	.820	.759	.737	.751	.832	.769	.874
Libya.....	1.325	1.255	1.263	1.145	1.245	1.193	1.169	1.072	1.227	1.161	1.176	1.275
Nigeria.....	.416	.358	.648	.872	.548	.517	.284	.287	.272	.305	.380	.328
Imports from OPEC-South America												
Total.....	.202	.118	.207	.156	.154	.157	.284	.192	.199	.141	.307	.157
Venezuela.....	.202	.118	.207	.156	.154	.157	.284	.192	.199	.141	.307	.157
Imports from OPEC-Far East												
Total.....	.016	.005	.001	.001	.000	.000	.001	.000	.001	.010	.001	.001
Indonesia.....	.016	.005	.001	.001	.000	.000	.001	.000	.001	.010	.001	.001

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

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

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. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day.

•See Section 4 for annual data.

Sources: See end of Section 3.

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

	1999						2000					
	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	August	Sept
Total Net Imports..	1.767	1.764	2.013	2.123	1.990	2.077	1.793	1.879	1.678	1.723	1.777	1.685
Imports from OPEC <sup>1/</sup>	.816	.663	.890	.852	.944	.850	.662	.833	.984	.952	.812	.828
Imports from Persian Gulf <sup>2/</sup>												
Total.....	.578	.488	.509	.459	.627	.547	.435	.557	.745	.721	.567	.612
Bahrain.....	.000	.000	.014	.000	.000	.000	.000	.000	.000	.000	.000	.000
Iran.....	.146	.138	.079	.095	.162	.114	.038	.098	.098	.094	.123	.097
Iraq.....	.054	.180	.064	.068	.143	.195	.067	.175	.190	.183	.181	.099
Kuwait.....	.046	.000	.079	.022	.000	.000	.060	.064	.040	.039	.000	.048
U.A.E.....	.000	.000	.010	.000	.000	.000	.000	.001	.019	.018	.020	.003
Qatar.....	.000	.000	.000	.000	.000	.000	.025	.000	.000	.000	.000	.000
Saudi Arabia.....	.332	.171	.264	.275	.322	.239	.244	.220	.399	.386	.243	.363
Imports from OPEC-Africa												
Total.....	.221	.169	.394	.379	.317	.303	.223	.271	.234	.226	.239	.211
Algeria.....	.126	.062	.148	.121	.087	.127	.142	.123	.159	.154	.102	.121
Libya.....	.036	.074	.033	.022	.080	.088	.045	.087	.064	.062	.076	.041
Nigeria.....	.059	.033	.213	.237	.150	.088	.037	.061	.010	.010	.061	.049
Imports from OPEC-South America												
Total.....	.000	.000	.000	.013	.000	.000	.004	.004	.005	.005	.005	.005
Venezuela.....	.000	.000	.000	.013	.000	.000	.004	.004	.005	.005	.005	.005
Imports from OPEC-Far East												
Total.....	.016	.005	.001	.001	.000	.000	.000	.000	.001	.001	.001	.001
Indonesia.....	.016	.005	.001	.001	.000	.000	.000	.000	.001	.001	.001	.001

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

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

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

Sources: See end of Section 3.

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

	1999						2000					
	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	August	Sept
Total Net Imports..	2.657	2.724	2.735	2.509	2.347	2.449	2.404	2.445	2.429	2.651	2.711	2.857
Imports from OPEC <sup>1</sup> /	.659	.649	.571	.579	.510	.539	.512	.612	.499	.698	.680	.685
Imports from Persian Gulf <sup>2</sup> /												
Total.....	.143	.148	.083	.075	.071	.099	.122	.167	.112	.170	.182	.164
Iran.....	.022	.025	.015	.005	.006	.028	.015	.038	.010	.049	.036	.000
Iraq.....	.007	.009	.000	.005	.003	.000	.000	.014	.007	.012	.008	.000
Kuwait.....	.021	.011	.005	.005	.005	.015	.014	.020	.010	.010	.024	.010
U.A.E.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Saudi Arabia.....	.094	.103	.063	.060	.058	.056	.092	.096	.084	.099	.114	.153
Imports from OPEC-Africa												
Total.....	.465	.470	.473	.474	.430	.410	.353	.383	.343	.507	.437	.483
Algeria.....	.101	.147	.127	.127	.124	.106	.121	.150	.117	.210	.158	.193
Libya.....	.326	.301	.295	.276	.268	.239	.223	.207	.191	.251	.248	.280
Nigeria.....	.038	.021	.051	.071	.038	.065	.009	.026	.035	.046	.031	.010
Imports from OPEC-South America												
Total.....	.050	.031	.015	.030	.008	.030	.038	.062	.044	.021	.060	.038
Venezuela.....	.050	.031	.015	.030	.008	.030	.038	.062	.044	.021	.060	.038
Imports from OPEC-Far East												
Total.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Indonesia.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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

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

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

Sources: See end of Section 3.

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

	1999						2000					
	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	August	Sept
Total Net Imports..	1.796	1.820	1.794	1.817	1.976	1.756	1.576	1.510	1.817	1.598	1.766	1.875
Imports from OPEC <sup>1/</sup>	1.215	1.117	1.214	1.301	1.358	1.250	1.122	1.291	1.306	1.052	1.288	1.417
Imports from Persian Gulf <sup>2/</sup>												
Total.....	.567	.479	.474	.479	.657	.506	.406	.642	.649	.480	.568	.719
Bahrain.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Iran.....	.222	.220	.257	.141	.187	.224	.132	.225	.222	.226	.170	.279
Iraq.....	.174	.168	.047	.168	.253	.155	.122	.197	.199	.137	.158	.207
Kuwait.....	.000	.000	.030	.030	.032	.061	.031	.030	.031	.000	.032	.031
U.A.E.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.006	.000	.000
Saudi Arabia.....	.172	.090	.140	.140	.184	.066	.120	.189	.196	.111	.207	.202
Imports from OPEC-Africa												
Total.....	.641	.632	.741	.806	.695	.734	.698	.643	.644	.568	.709	.691
Algeria.....	.083	.154	.154	.207	.129	.107	.141	.128	.080	.117	.136	.096
Libya.....	.558	.466	.558	.537	.538	.554	.558	.515	.564	.451	.573	.595
Nigeria.....	.000	.012	.028	.061	.029	.074	.000	.000	.000	.000	.000	.000
Imports from OPEC-South America												
Total.....	.006	.006	.000	.016	.006	.010	.018	.006	.013	.004	.012	.006
Venezuela.....	.006	.006	.000	.016	.006	.010	.018	.006	.013	.004	.012	.006
Imports from OPEC-Far East												
Total.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Indonesia.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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

Sources: See end of Section 3.

**Table 3.13 OECD Imports from Iraq (Most Recent 12 Months)**  
 (Million Barrels per Day)

	1999						2000					
	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	August	Sept
Total.....	1.979	2.025	1.126	0.976	1.636	1.312	1.387	1.342	1.950	1.495	1.789	1.907
United States <sup>1/</sup> .....	.922	.713	.668	.254	.719	.468	.640	.438	.847	.747	.749	.752
Canada.....	.096	.000	.000	.032	.071	.061	.024	.023	.024	.090	.000	.065
OECD Europe <sup>2/</sup> .....	.745	1.029	.373	.682	.824	.619	.681	.867	.948	.527	.822	.969
<b>Main European Importers</b>												
France.....	.054	.180	.064	.068	.143	.195	.067	.175	.190	.183	.181	.099
Germany <sup>3/</sup> .....	.007	.009	.000	.005	.003	.000	.000	.014	.007	.012	.008	.000
Italy.....	.174	.168	.047	.168	.253	.155	.122	.197	.199	.137	.158	.207
Spain.....	.131	.136	.031	.131	.139	.086	.204	.164	.154	.071	.136	.131
Netherlands.....	.178	.248	.104	.019	.019	.015	.038	.133	.184	.019	.071	.201
<b>Smaller European Importers</b>												
Austria.....	.047	.067	.033	.029	.045	.031	.020	.024	.046	.027	.044	.038
Belgium.....	.029	.041	.037	.003	.000	.000	.000	.045	.018	.015	.007	.120
Greece.....	.031	.064	.000	.088	.000	.032	.068	.034	.035	.000	.032	.031
Portugal.....	.066	.068	.000	.033	.035	.000	.000	.000	.000	.000	.033	.035
Sweden.....	-	-	-	.000	.000	.000	.000	.000	.000	.000	.000	.013
Switzerland.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Turkey.....	.029	.047	.056	.139	.189	.105	.162	.082	.115	.064	.151	.093
Japan.....	.133	.225	.032	.000	.000	.119	.000	.000	.067	.000	.108	.064

<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, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, the United Kingdom, and Germany.

<sup>3/</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.

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

Sources: See end of Section 3.

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

	1999						2000					
	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	August	Sept
Total.....	0.940	0.889	1.077	0.918	1.137	0.855	1.168	0.878	1.044	0.912	1.213	1.073
United States <sup>1/</sup> .....	.205	.216	.200	.239	.267	.162	.248	.170	.210	.252	.383	.352
Canada.....	.002	.002	.002	.000	.000	.000	.000	.000	.000	.000	.002	.000
OECD Europe <sup>2/</sup> .....	.232	.191	.318	.232	.227	.154	.330	.197	.344	.248	.249	.265
<b>Main European Importers</b>												
France.....	.046	.000	.079	.022	.000	.000	.060	.064	.040	.039	.000	.048
Germany <sup>3/</sup> .....	.021	.011	.005	.005	.005	.015	.014	.020	.010	.010	.024	.010
Italy.....	.000	.000	.030	.030	.032	.061	.031	.030	.031	.000	.032	.031
Spain.....	.000	.000	.044	.019	.000	.000	.000	.000	.000	.000	.000	.000
Netherlands.....	.139	.148	.123	.127	.142	.054	.192	.049	.159	.180	.178	.160
<b>European Net Exporters</b>												
United Kingdom....	.014	.016	.010	.011	.030	.009	.017	.010	.057	.009	.000	.005
<b>Smaller European Importers</b>												
Belgium.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Denmark.....	.000	.000	.000	.013	.003	.000	.000	.008	.014	.010	.000	.000
Finland.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Greece.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Sweden.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Turkey.....	.013	.016	.027	.006	.015	.016	.016	.015	.032	.000	.015	.010
Japan.....	.499	.479	.544	.445	.626	.538	.578	.510	.488	.410	.576	.441

<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, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, the United Kingdom, and Germany.

<sup>3/</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.

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

Sources: See end of Section 3.

## **Sources for Section 3 (International Oil Imports)**

### **Oil Imports**

United States: • Energy Information Administration (EIA), Petroleum Supply Annual 1999 and Petroleum Supply Monthly, December 2000. Other OECD Countries: • Organization for Economic Cooperation and Development (OECD), Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Monthly Oil Statistics data base, 1999-2000.

**4. Historical Oil Data Series  
1970-1999**

**Table 4.1a World Crude Oil Production (Including Lease Condensate), 1970-1999**  
 (Thousand Barrels per Day)

	Algeria	Indo-nesia	Iran	Iraq	Kuwait <sup>1/</sup>	Libya	Nigeria	Qatar	Saudi Arabia <sup>1/</sup>	United Arab Emirates	Vene-zuela	Total OPEC
1970 Average.....	1,029	854	3,829	1,549	2,990	3,318	1,083	362	3,799	780	3,708	23,301
1971 Average.....	785	892	4,540	1,694	3,197	2,761	1,531	431	4,769	1,060	3,549	25,209
1972 Average.....	1,062	1,081	5,023	1,466	3,283	2,239	1,816	482	6,016	1,203	3,220	26,891
1973 Average.....	1,097	1,339	5,861	2,018	3,020	2,175	2,054	570	7,596	1,533	3,366	30,629
1974 Average.....	1,009	1,375	6,022	1,971	2,546	1,521	2,255	518	8,480	1,679	2,976	30,351
1975 Average.....	983	1,307	5,350	2,262	2,084	1,480	1,783	438	7,075	1,664	2,346	26,771
1976 Average.....	1,075	1,504	5,883	2,415	2,145	1,933	2,067	497	8,577	1,936	2,294	30,327
1977 Average.....	1,152	1,686	5,663	2,348	1,969	2,063	2,085	445	9,245	1,999	2,238	30,893
1978 Average.....	1,231	1,635	5,242	2,563	2,131	1,983	1,897	487	8,301	1,831	2,165	29,464
1979 Average.....	1,224	1,591	3,168	3,477	2,500	2,092	2,302	508	9,532	1,831	2,356	30,581
1980 Average.....	1,106	1,577	1,662	2,514	1,656	1,787	2,055	472	9,900	1,709	2,168	26,606
1981 Average.....	1,002	1,605	1,380	1,000	1,125	1,140	1,433	405	9,815	1,474	2,102	22,481
1982 Average.....	987	1,339	2,214	1,012	823	1,150	1,295	330	6,483	1,250	1,895	18,778
1983 Average.....	968	1,343	2,440	1,005	1,064	1,105	1,241	295	5,086	1,149	1,801	17,497
1984 Average.....	1,014	1,412	2,174	1,209	1,157	1,087	1,388	394	4,663	1,146	1,798	17,442
1985 Average.....	1,037	1,325	2,250	1,433	1,023	1,059	1,495	301	3,388	1,193	1,677	16,181
1986 Average.....	945	1,390	2,035	1,690	1,419	1,034	1,467	308	4,870	1,330	1,787	18,275
1987 Average.....	1,048	1,343	2,298	2,079	1,585	972	1,341	293	4,265	1,541	1,752	18,517
1988 Average.....	1,040	1,342	2,240	2,685	1,492	1,175	1,450	346	5,086	1,565	1,903	20,324
1989 Average.....	1,095	1,409	2,810	2,897	1,783	1,150	1,716	380	5,064	1,860	1,907	22,071
1990 Average.....	1,175	1,462	3,088	2,040	1,175	1,375	1,810	406	6,410	2,117	2,137	23,195
1991 Average.....	1,230	1,592	3,312	305	190	1,483	1,892	395	8,115	2,386	2,375	23,275
1992 Average.....	1,214	1,504	3,429	425	1,058	1,433	1,943	423	8,332	2,266	2,371	24,398
1993 Average.....	1,162	1,511	3,540	512	1,852	1,361	1,960	413	8,198	2,159	2,450	25,119
1994 Average.....	1,180	1,510	3,618	553	2,025	1,378	1,931	415	8,120	2,193	2,588	25,510
1995 Average.....	1,202	1,503	3,643	560	2,057	1,390	1,993	442	8,231	2,233	2,750	26,004
1996 Average.....	1,242	1,547	3,686	579	2,062	1,401	2,001	510	8,218	2,278	2,938	26,461
1997 Average .....	1,277	1,520	3,664	1,155	2,007	1,446	2,132	550	8,362	2,316	3,280	27,710
1998 Average .....	1,246	1,518	3,634	2,150	2,085	1,390	2,153	696	8,389	2,345	3,167	28,774
1999 Average P.....	1,202	1,504	3,557	2,508	1,898	1,319	2,130	694	7,833	2,169	2,826	27,641

<sup>1/</sup> Includes about one-half of the production in the Kuwait-Saudi Arabia Neutral Zone from 1970 through July 1990 and beginning again 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. Data for Saudi Arabia include approximately 150,000 barrels per day from the Abu Safah field, produced on behalf of Bahrain.

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), 1970-1999  
 (Thousand Barrels per Day)

	Norway	United Kingdom	North Seal/ 1/	Angola	Argen-tina	Austra- lia	Brazil	Canada	China	Colombia	Ecuador
1970 Average.....	0	2	0	112	393	178	167	1,263	600	219	4
1971 Average.....	6	2	6	93	423	309	174	1,348	780	214	4
1972 Average.....	33	2	35	140	433	327	167	1,532	900	196	78
1973 Average.....	32	2	36	162	420	369	169	1,798	1,090	184	209
1974 Average.....	35	2	38	169	414	388	176	1,551	1,315	168	177
1975 Average.....	189	12	202	165	395	409	177	1,430	1,490	157	161
1976 Average.....	279	245	525	108	398	426	167	1,314	1,670	146	188
1977 Average.....	280	768	1,055	194	431	431	161	1,321	1,874	138	183
1978 Average.....	356	1,082	1,446	131	453	432	160	1,316	2,082	131	202
1979 Average.....	403	1,568	1,976	147	473	441	166	1,500	2,122	124	214
1980 Average.....	528	1,622	2,151	150	491	380	182	1,435	2,114	126	204
1981 Average.....	501	1,811	2,322	130	496	394	213	1,285	2,012	125	211
1982 Average.....	520	2,065	2,617	122	491	370	260	1,271	2,045	141	211
1983 Average.....	614	2,291	2,965	177	491	416	339	1,356	2,120	152	237
1984 Average.....	697	2,480	3,250	208	478	492	475	1,438	2,296	168	258
1985 Average.....	788	2,530	3,417	231	460	575	564	1,471	2,505	176	281
1986 Average.....	870	2,539	3,547	282	434	520	572	1,474	2,620	305	293
1987 Average.....	1,022	2,406	3,584	360	428	547	566	1,535	2,690	385	174
1988 Average.....	1,158	2,232	3,540	452	449	538	554	1,616	2,730	378	302
1989 Average.....	1,554	1,802	3,515	455	460	490	596	1,560	2,757	403	279
1990 Average.....	1,704	1,820	3,667	475	483	575	631	1,553	2,774	440	285
1991 Average.....	1,890	1,797	3,811	500	485	545	630	1,548	2,835	419	299
1992 Average.....	2,229	1,825	4,182	526	553	535	626	1,605	2,845	433	321
1993 Average.....	2,350	1,915	4,403	509	594	503	643	1,679	2,890	456	344
1994 Average.....	2,521	2,375	5,058	536	650	536	671	1,746	2,939	450	365
1995 Average.....	2,768	2,489	5,400	646	715	562	695	1,805	2,990	585	392
1996 Average.....	3,104	2,568	5,822	709	756	570	795	1,837	3,131	623	396
1997 Average .....	3,143	2,518	5,830	714	834	588	841	1,922	3,200	652	388
1998 Average .....	3,017	2,616	5,806	735	847	544	969	1,981	3,198	733	375
1999 Average P....	3,018	2,684	5,949	766	802	539	1,094	1,907	3,206	817	373

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), 1970-1999**  
 (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	--	8,912	124	8,774	1,711	55,716
1975 Average.....	235	223	165	98	705	343	--	9,523	170	8,375	1,636	52,828
1976 Average.....	330	223	175	165	831	366	--	10,060	175	8,132	1,620	57,344
1977 Average.....	415	222	199	184	981	341	--	10,603	188	8,245	1,655	59,707
1978 Average.....	485	209	226	217	1,209	315	--	11,105	170	8,707	1,706	60,158
1979 Average.....	525	203	245	283	1,461	295	--	11,384	166	8,552	1,821	62,674
1980 Average.....	595	175	182	283	1,936	282	--	11,706	164	8,597	1,842	59,600
1981 Average.....	598	151	325	264	2,313	319	--	11,850	166	8,572	1,859	56,076
1982 Average.....	670	156	390	306	2,748	324	--	11,912	160	8,649	1,892	53,481
1983 Average.....	727	157	480	365	2,689	375	--	11,972	167	8,688	1,946	53,256
1984 Average.....	822	157	519	440	2,780	414	--	11,861	170	8,879	2,015	54,489
1985 Average.....	887	172	620	440	2,745	498	--	11,585	178	8,971	2,124	53,982
1986 Average.....	813	166	630	504	2,435	560	--	11,895	194	8,680	2,166	56,227
1987 Average.....	896	155	609	497	2,548	582	--	12,050	230	8,349	2,120	56,666
1988 Average.....	848	159	635	540	2,512	617	--	12,053	265	8,140	2,235	58,737
1989 Average.....	865	208	700	585	2,520	641	--	11,715	340	7,613	2,249	59,863
1990 Average.....	873	270	660	619	2,553	685	--	10,975	388	7,355	2,253	60,566
1991 Average.....	874	294	615	646	2,680	700	--	9,992	492	7,417	2,274	60,207
1992 Average.....	881	298	561	653	2,669	740	7,632	--	481	7,171	3,229	60,213
1993 Average.....	890	313	534	640	2,673	776	6,730	--	554	6,847	3,279	60,236
1994 Average.....	896	329	590	645	2,685	810	6,135	--	560	6,662	3,380	60,991
1995 Average.....	920	365	703	682	2,618	851	5,995	--	575	6,560	3,414	62,335
1996 Average.....	922	368	651	695	2,855	883	5,850	--	582	6,465	3,490	63,711
1997 Average .....	856	370	675	700	3,023	904	5,920	--	561	6,452	3,719	65,690
1998 Average .....	834	361	661	733	3,070	900	5,854	--	553	6,252	3,955	66,962
1999 Average P....	852	340	653	720	2,906	899	6,079	--	538	5,881	3,963	65,678

<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.

Sources: See end of Section 4.

Table 4.2 OPEC Crude Oil Production (Excluding Condensate), 1980-1999  
 (Thousands Barrels per Day)

	Algeria	Indo-nesia	Iran	Iraq	Kuwait <sup>1/</sup>	Libya	Nigeria	Qatar	Saudi Arabia <sup>1/</sup>	United Arab Emirates	Vene-zuela	Total OPEC
1980 Average...	1,006	1,497	1,662	2,514	1,656	1,787	2,045	472	9,900	1,704	2,147	26,390
1981 Average...	802	1,513	1,380	1,000	1,125	1,140	1,423	405	9,815	1,469	2,083	22,155
1982 Average...	712	1,247	2,214	1,012	823	1,150	1,285	330	6,483	1,215	1,878	18,349
1983 Average...	648	1,245	2,440	1,005	1,064	1,105	1,231	295	5,086	1,109	1,768	16,996
1984 Average...	694	1,279	2,174	1,209	1,157	1,087	1,368	394	4,663	1,091	1,689	16,805
1985 Average...	702	1,181	2,250	1,433	1,023	1,059	1,475	301	3,388	1,133	1,558	15,503
1986 Average...	600	1,257	2,035	1,690	1,419	1,034	1,447	308	4,870	1,270	1,645	17,575
1987 Average...	648	1,189	2,298	2,079	1,585	972	1,291	293	4,265	1,441	1,587	17,648
1988 Average...	640	1,177	2,240	2,685	1,492	1,175	1,400	346	5,086	1,465	1,715	19,421
1989 Average...	690	1,231	2,810	2,897	1,783	1,150	1,666	380	5,064	1,783	1,747	21,201
1990 Average...	765	1,281	3,088	2,040	1,175	1,375	1,755	406	6,410	2,066	2,100	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	2,007	1,446	2,017	515	8,362	2,236	3,240	26,804
1998 Average...	816	1,338	3,599	2,145	2,085	1,390	2,043	661	8,389	2,265	3,127	27,858
1999 Average P.	772	1,324	3,522	2,503	1,898	1,319	2,020	659	7,833	2,089	2,786	26,726

<sup>1/</sup> Includes about one-half of the production in the Kuwait-Saudi Arabia Neutral Zone from 1980 through July 1990 and beginning again 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. Data for Saudi Arabia include approximately 150,000 barrels per day from the Abu Safah field, produced on behalf of Bahrain.

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, 1970-1999**  
 (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
1970 Average.....	3	200	58	50	--	120	1,660	119	137	205	2,383
1971 Average.....	4	234	59	50	--	135	1,693	138	147	243	2,508
1972 Average.....	4	293	61	55	--	155	1,744	155	159	275	2,676
1973 Average.....	9	314	75	90	--	170	1,738	191	196	324	2,785
1974 Average.....	12	314	80	130	--	190	1,688	231	219	347	2,789
1975 Average.....	20	309	80	140	--	205	1,633	246	252	372	2,790
1976 Average.....	24	289	95	185	--	220	1,603	291	313	442	2,865
1977 Average.....	19	290	105	215	--	235	1,618	335	366	482	2,982
1978 Average.....	25	281	115	250	--	255	1,567	410	447	566	3,078
1979 Average.....	30	331	150	303	--	270	1,584	458	535	637	3,285
1980 Average.....	36	331	193	369	--	285	1,573	534	618	732	3,444
1981 Average.....	49	330	241	433	--	300	1,609	599	691	825	3,625
1982 Average.....	58	318	255	430	--	315	1,550	612	721	842	3,626
1983 Average.....	56	309	265	330	--	330	1,559	552	655	780	3,635
1984 Average.....	105	336	257	355	--	340	1,630	604	761	869	3,869
1985 Average.....	120	337	271	375	--	350	1,609	645	808	892	3,938
1986 Average.....	120	328	352	385	--	440	1,551	700	860	969	4,150
1987 Average.....	140	367	338	418	--	430	1,595	721	900	1,006	4,279
1988 Average.....	120	381	370	499	--	450	1,625	808	979	1,077	4,481
1989 Average.....	130	410	384	503	--	425	1,546	851	1,041	1,188	4,502
1990 Average.....	130	426	428	620	--	425	1,559	930	1,107	1,281	4,632
1991 Average.....	140	431	457	680	--	420	1,659	931	1,113	1,299	4,827
1992 Average.....	140	460	454	713	230	--	1,697	1,003	1,185	1,364	4,974
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	5,576
1997 Average.....	160	636	388	712	195	--	1,817	1,152	1,384	1,589	5,721
1998 Average.....	155	651	424	755	220	--	1,759	1,225	1,449	1,662	5,866
1999 Average P....	155	653	439	666	225	--	1,850	1,152	1,374	1,617	5,918

<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> OAPEC=Organization of Arab Petroleum Exporting Countries. OPEC=Organization of Petroleum Exporting Countries.

See Appendix A for countries in these groups.

P=Preliminary.

Sources: See end of Section 4.

**Table 4.4 World Oil Supply, 1970-1999**  
 (Thousand Barrels per Day)

	United States <sup>1/</sup>	Persian Gulf <sup>2/</sup>	OAPEC <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	71,390
1997 Average.....	9,461	19,284	20,067	29,355	73,650
1998 Average.....	9,278	20,599	21,282	30,492	75,151
1999 Average P.....	8,993	19,884	20,531	29,314	73,954

<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> OAPEC=Organization of Arab Petroleum Exporting Countries. OPEC=Organization of Petroleum Exporting Countries.

See Appendix A for countries in these groups.

P=Preliminary.

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

Sources: See end of Section 4.

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

		France	Italy	Germany <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	104	1,255	1,560	115	685	74	3,689
1998	December.....	161	153	321	108	1,303	1,647	118	649	66	3,784
1999	December P....	163	148	287	104	1,232	1,493	108	629	69	3,530

<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.

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

Sources: See end of Section 4.

Table 4.6 World Oil Demand, 1970-1999  
(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>	Excluding East Germany	East Germany	OECD Including East Germany	World Total
1970 Average...	1,937	1,710	2,607	2,096	12,404	14,697	1,516	3,817	836	33,270	223	33,493	46,808
1971 Average...	2,115	1,838	2,702	2,141	13,005	15,213	1,565	4,142	831	34,755	238	34,993	49,416
1972 Average...	2,322	1,947	2,859	2,284	13,934	16,367	1,664	4,363	948	37,275	270	37,545	53,094
1973 Average...	2,601	2,068	3,055	2,341	14,925	17,308	1,729	4,949	988	39,900	282	40,182	57,237
1974 Average...	2,447	2,004	2,748	2,210	13,988	16,653	1,779	4,864	1,095	38,379	307	38,686	56,677
1975 Average...	2,252	1,855	2,650	1,911	13,217	16,322	1,779	4,621	1,041	36,980	307	37,287	56,198
1976 Average...	2,420	1,971	2,877	1,892	14,124	17,461	1,818	4,837	1,119	39,358	329	39,687	59,673
1977 Average...	2,294	1,897	2,865	1,905	13,916	18,431	1,850	4,880	1,160	40,237	347	40,584	61,826
1978 Average...	2,408	1,952	2,927	1,938	14,290	18,847	1,902	4,945	1,204	41,187	363	41,550	64,158
1979 Average...	2,463	2,039	3,003	1,971	14,667	18,513	1,971	5,050	1,178	41,379	369	41,748	65,220
1980 Average...	2,256	1,934	2,707	1,725	13,634	17,056	1,873	4,960	1,072	38,595	375	38,970	63,067
1981 Average...	2,023	1,874	2,449	1,590	12,515	16,058	1,768	4,848	1,080	36,269	355	36,624	60,903
1982 Average...	1,880	1,781	2,372	1,590	12,053	15,296	1,578	4,582	1,008	34,517	371	34,888	59,503
1983 Average...	1,835	1,750	2,324	1,531	11,765	15,231	1,448	4,395	953	33,793	336	34,129	58,739
1984 Average...	1,754	1,646	2,322	1,849	11,736	15,726	1,472	4,576	990	34,500	340	34,840	59,831
1985 Average...	1,775	1,717	2,338	1,634	11,681	15,726	1,504	4,384	976	34,271	362	34,633	60,091
1986 Average...	1,772	1,738	2,498	1,649	12,102	16,281	1,506	4,439	951	35,279	362	35,641	61,759
1987 Average...	1,789	1,855	2,424	1,603	12,255	16,665	1,548	4,484	959	35,911	342	36,253	62,999
1988 Average...	1,797	1,836	2,422	1,697	12,427	17,283	1,693	4,752	939	37,093	322	37,415	64,819
1989 Average...	1,857	1,930	2,280	1,738	12,531	17,325	1,733	4,983	998	37,570	300	37,871	65,917
1990 Average...	1,818	1,872	2,382	1,752	12,629	16,988	1,690	5,140	1,027	37,475	282	37,758	65,977
1991 Average...	1,935	1,863	2,828	1,801	13,391	16,714	1,622	5,284	1,056	--	--	38,067	66,567
1992 Average...	1,926	1,937	2,843	1,803	13,605	17,033	1,643	5,446	1,051	--	--	38,778	66,762
1993 Average...	1,875	1,852	2,900	1,815	13,523	17,237	1,688	5,401	1,117	--	--	38,966	66,996
1994 Average...	1,833	1,841	2,879	1,837	13,597	17,718	1,727	5,674	1,171	--	--	39,887	68,283
1995 Average...	1,896	2,048	2,875	1,845	14,120	17,725	1,755	5,711	1,265	--	--	40,575	69,866
1996 Average...	1,935	2,058	2,911	1,845	14,269	18,309	1,797	5,867	1,190	--	--	41,432	71,404
1997 Average...	1,954	2,045	2,903	1,781	14,412	18,620	1,842	5,711	1,221	--	--	41,807	73,092
1998 Average...	2,031	2,072	2,916	1,765	14,699	18,917	1,859	5,512	1,275	--	--	42,262	73,609
1999 Average P.	2,027	1,975	2,822	1,717	14,508	19,519	1,933	5,572	1,327	--	--	42,859	R74,927

<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. --=Not Applicable. R=Revised data.

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

Sources: See end of Section 4.

**Table 4.7 OECD Total Net Imports, 1989-1999**  
 (Million Barrels per Day)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Average											
Total.....	20.077	20.443	20.143	20.508	20.937	20.834	20.422	21.149	21.758	22.405	22.187
United States <sup>1/</sup> ....	7.202	7.161	6.626	6.938	7.618	8.054	7.886	8.498	9.158	9.764	9.912
Canada.....	-.462	-.429	-.486	-.553	-.594	-.632	-.763	-.812	-.829	-.917	-.804
OECD Europe <sup>2/</sup> ....	7.988	8.201	8.452	8.325	7.990	7.216	7.092	7.198	7.196	7.743	7.037
<b>Main European Importers</b>											
France.....	1.709	1.750	1.851	1.766	1.741	1.596	1.702	1.716	1.747	1.855	1.862
Germany <sup>3/</sup> .....	2.112	2.202	2.642	2.714	2.697	2.704	2.673	2.766	2.778	2.860	2.608
Italy.....	1.716	1.788	1.750	1.819	1.728	1.760	1.802	1.773	1.775	1.809	1.731
Netherlands.....	.635	.668	.677	.699	.674	.706	.686	.748	.758	.765	.753
Spain.....	.949	.950	.937	.985	1.054	1.105	1.188	1.169	1.259	1.350	1.384
<b>European Net Exporters</b>											
Norway.....	-1.420	-1.543	-1.825	-2.102	-2.255	-2.587	-2.795	-3.150	-3.176	-3.043	-3.027
United Kingdom....	-.200	-.214	-.170	-.233	-.368	-.861	-.980	-.850	-.977	-1.026	-1.257
<b>Smaller European Importers</b>											
Austria.....	.190	.201	.210	.207	.203	.208	.194	.213	.221	.234	.229
Belgium.....	.454	.442	.498	.510	.496	.510	.488	.564	.581	.605	.549
Denmark.....	.078	.063	.046	.031	.022	.025	.038	.027	-.007	-.004	-.088
Ireland.....	.079	.095	.094	.096	.101	.109	.115	.123	.133	.147	.165
Finland.....	.220	.208	.200	.185	.180	.231	.143	.178	.184	.208	.208
Greece.....	.252	.273	.293	.322	.323	.289	.339	.346	.356	.382	.352
Iceland.....	.011	.011	.012	.011	.014	.015	.015	.015	.016	.017	.018
Luxembourg.....	.031	.034	.039	.040	.039	.040	.036	.039	.040	.043	.044
Portugal.....	.246	.250	.256	.276	.269	.266	.287	.271	.292	.321	.340
Sweden.....	.290	.324	.308	.316	.330	.357	.351	.400	.365	.378	.347
Switzerland.....	.254	.273	.272	.276	.249	.261	.247	.258	.268	.277	.256
Turkey.....	.384	.425	.361	.407	.494	.484	.563	.594	.583	.565	.561
Japan.....	5.035	5.239	5.237	5.413	5.415	5.711	5.662	5.736	5.762	5.352	5.463
Other OECD.....	.313	.270	.314	.384	.507	.483	.546	.529	.471	.463	.579

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

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

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

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

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

•Data for 1997 are preliminary.

Sources: See end of Section 4.

Table 4.8 OECD Imports from OPEC, 1989-1999  
(Million Barrels per Day)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	Average										
Total.....	14.521	15.576	15.360	15.567	16.018	15.765	15.469	15.630	16.540	17.048	16.221
United States <sup>1/</sup> ....	3.986	4.172	3.918	3.888	4.103	4.036	3.979	4.194	4.542	4.881	4.934
Canada.....	.205	.199	.210	.210	.268	.285	.257	.261	.312	.297	.303
OECD Europe <sup>2/</sup> ....	6.188	6.633	6.728	6.758	6.794	6.385	6.154	6.053	6.259	6.693	5.920
Main European Importers											
France.....	.875	1.101	1.021	.932	1.006	.956	.911	.897	.899	1.029	.918
Germany <sup>3/</sup> .....	.739	.771	.859	.957	.948	.838	.711	.660	.645	.656	.597
Italy.....	1.260	1.375	1.393	1.343	1.222	1.117	1.203	1.244	1.353	1.421	1.234
Netherlands.....	.892	.850	.900	.914	.982	.906	.791	.779	.774	.849	.791
Spain.....	.686	.652	.700	.632	.582	.668	.781	.775	.789	.867	.814
European Net Exporters											
Norway.....	.003	.007	.014	.004	.005	.003	.003	.001	.003	.000	.001
United Kingdom....	.342	.406	.377	.390	.439	.306	.254	.234	.199	.213	.135
Smaller European Importers											
Austria.....	.086	.097	.108	.115	.128	.119	.057	.023	.130	.122	.107
Belgium.....	.353	.313	.362	.359	.359	.284	.276	.284	.292	.341	.222
Denmark.....	.069	.044	.006	.001	.006	.008	.022	.027	.031	.033	.030
Ireland.....	-	.000	.000	.000	.000	.000	.000	.000	.000	-	-
Finland.....	.013	.013	.029	.033	.007	.004	.004	.001	.006	.004	.000
Greece.....	.244	.340	.298	.346	.303	.266	.263	.280	.317	.352	.314
Portugal.....	.156	.166	.139	.152	.166	.227	.209	.177	.188	.184	.163
Sweden.....	.064	.073	.105	.116	.123	.126	.109	.091	.096	.100	.081
Switzerland.....	.021	.036	.052	.051	.063	.082	.083	.098	.096	.102	.101
Turkey.....	.384	.388	.365	.412	.452	.475	.477	.483	.442	.418	.413
Japan.....	3.788	4.062	4.026	4.198	4.245	4.495	4.467	4.470	4.699	4.467	4.403
Other OECD.....	.355	.510	.478	.512	.609	.563	.612	.653	.727	.710	.661

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

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

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

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

Sources: See end of Section 4.

Table 4.9 OECD Imports from Persian Gulf, 1989-1999  
 (Million Barrels per Day)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Average											
<b>Imports from Persian Gulf</b>											
Total.....	9.121	9.667	9.249	9.456	10.029	9.609	9.310	9.215	9.951	10.551	10.123
United States <sup>1/</sup> ....	1.857	1.961	1.835	1.774	1.775	1.722	1.563	1.594	1.747	2.131	2.459
Canada.....	.069	.081	.084	.092	.105	.119	.070	.111	.120	.098	.089
OECD Europe <sup>2/</sup> .....	3.754	3.908	3.660	3.666	4.048	3.506	3.365	3.171	3.469	3.953	3.301
<b>Main European Importers</b>											
France.....	.647	.864	.708	.640	.757	.651	.647	.573	.617	.729	.629
Germany <sup>3/</sup> .....	.216	.217	.227	.215	.250	.217	.172	.145	.157	.163	.140
Italy.....	.619	.626	.595	.573	.548	.430	.494	.502	.583	.658	.570
Netherlands.....	.663	.647	.609	.650	.744	.662	.563	.566	.584	.676	.622
Spain.....	.352	.291	.281	.231	.287	.275	.324	.304	.359	.419	.339
<b>European Net Exporters</b>											
Norway.....	-	.000	.011	.000	.000	.000	.000	.000	.000	.000	-
United Kingdom....	.240	.250	.222	.220	.303	.174	.135	.102	.094	.108	.031
<b>Smaller European Importers</b>											
Austria.....	.022	.016	.021	.031	.036	.038	.035	.004	.045	.049	.045
Belgium.....	.277	.250	.279	.292	.291	.232	.252	.263	.259	.307	.182
Denmark.....	.067	.043	.004	.000	.002	.000	.000	.000	.002	.007	.002
Finland.....	.012	.011	.021	.023	.002	.002	.002	.000	.000	.001	.000
Greece.....	.181	.268	.219	.291	.253	.214	.223	.235	.282	.322	.279
Portugal.....	.085	.073	.067	.074	.050	.117	.107	.083	.106	.136	.110
Sweden.....	.043	.039	.064	.068	.088	.076	.068	.067	.073	.071	.060
Switzerland.....	.007	.007	.007	.007	.008	.012	.007	.006	.008	.009	.007
Turkey.....	.323	.307	.324	.349	.429	.405	.336	.320	.301	.296	.283
Japan.....	3.173	3.394	3.370	3.586	3.721	3.946	3.979	4.025	4.304	4.132	4.051
Other OECD.....	.267	.322	.300	.338	.381	.316	.334	.313	.311	.237	.223

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

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

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

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •"Persian Gulf" consists of Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab Emirates. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day.

•Data for 1997 are preliminary.

Sources: See end of Section 4.

**Table 4.10 United States--Net Oil Imports, 1989-1999**  
 (Million Barrels per Day)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Average											
Total Net Imports..	7.202	7.161	6.626	6.938	7.618	8.054	7.886	8.498	9.158	9.764	9.912
Imports from OPEC <sup>1/</sup>	3.986	4.172	3.918	3.888	4.103	4.036	3.979	4.194	4.542	4.881	4.934
Imports from Persian Gulf <sup>2/</sup>											
Total.....	1.857	1.961	1.835	1.774	1.775	1.722	1.563	1.594	1.747	2.131	2.459
Bahrain.....	-.001	-.001	-.001	-.002	-.002	-.002	-.003	-.002	-.002	-.001	.000
Iran.....	.000	.000	.032	.000	.000	.000	.000	.000	.000	.000	.000
Iraq.....	.449	.518	.000	.000	.000	.000	.000	.001	.089	.336	.725
Kuwait.....	.157	.086	.006	.051	.353	.312	.218	.236	.253	.301	.248
U.A.E.....	.027	.016	.001	.004	.009	.011	.004	-.003	-.003	.000	-.002
Qatar.....	.002	.004	.000	.001	.001	.000	.000	.000	.004	.004	.010
Saudi Arabia.....	1.224	1.339	1.797	1.720	1.414	1.402	1.344	1.363	1.406	1.491	1.477
Imports from OPEC-Africa											
Total.....	1.084	1.080	.956	.876	.956	.880	.859	.872	.979	.983	.915
Algeria.....	.269	.280	.253	.196	.220	.243	.234	.256	.285	.290	.259
Libya.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Nigeria.....	.815	.800	.703	.680	.736	.637	.625	.616	.694	.693	.656
Imports from OPEC-South America											
Total.....	.861	1.016	1.020	1.161	1.295	1.322	1.468	1.667	1.758	1.701	1.481
Venezuela.....	.861	1.016	1.020	1.161	1.295	1.322	1.468	1.667	1.758	1.701	1.481
Imports from OPEC-Far East											
Total.....	.182	.113	.106	.075	.074	.109	.087	.058	.057	.065	.080
Indonesia.....	.182	.113	.106	.075	.074	.109	.087	.058	.057	.065	.080

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

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

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •U.S. geographic coverage is the 50 States and District of Columbia. •Negative numbers represent net exports. •A dash (-) indicates no trade.

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

Sources: See end of Section 4.

Table 4.11 Japan--Net Oil Imports, 1989-1999  
(Million Barrels per Day)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Average											
Total Net Imports..	5.035	5.239	5.237	5.413	5.415	5.711	5.662	5.736	5.762	5.352	5.463
Imports from OPEC <sup>1/</sup>	3.788	4.062	4.026	4.198	4.245	4.495	4.467	4.470	4.699	4.467	4.403
Imports from Persian Gulf <sup>2/</sup>											
Total.....	3.173	3.394	3.370	3.586	3.721	3.946	3.979	4.025	4.304	4.132	4.051
Bahrain.....	.042	.037	.037	.029	.025	.028	.029	.033	.023	.016	.017
Iran.....	.291	.385	.383	.362	.384	.459	.399	.451	.461	.473	.502
Iraq.....	.219	.146	.000	.000	.000	.000	.000	.000	.015	.017	.099
Kuwait.....	.458	.291	.014	.220	.368	.430	.501	.500	.557	.507	.515
U.A.E.....	.929	1.032	1.285	1.256	1.287	1.398	1.420	1.396	1.441	1.402	1.266
Qatar.....	.250	.263	.285	.300	.330	.328	.335	.335	.364	.450	.442
Saudi Arabia.....	.984	1.240	1.367	1.420	1.327	1.303	1.296	1.310	1.441	1.268	1.210
Imports from OPEC-Africa											
Total.....	.015	.011	.011	.007	.008	.017	.026	.032	.036	.025	.038
Algeria.....	.015	.010	.010	.007	.008	.012	.011	.012	.014	.012	.013
Nigeria.....	-	.001	.001	.000	.000	.005	.016	.020	.023	.013	.025
Imports from OPEC-South America											
Total.....	.011	.011	.010	.010	.009	.009	.002	.003	.003	.000	.001
Venezuela.....	.011	.011	.010	.010	.009	.009	.002	.003	.003	.000	.001
Imports from OPEC-Far East											
Total.....	.631	.682	.673	.624	.533	.551	.488	.442	.380	.326	.329
Indonesia.....	.631	.682	.673	.624	.533	.551	.488	.442	.380	.326	.329

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

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

Notes: •Imports include Crude Oil, Natural Gas Liquids, and Refined Products, and are on a direct basis. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1997 are preliminary.

Sources: See end of Section 4.

**Table 4.12 OECD Europe--Net Oil Imports, 1989-1999**  
 (Million Barrels per Day)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Average											
Total Net Imports..	7.988	8.201	8.452	8.325	7.990	7.216	7.092	7.198	7.196	7.743	7.037
Imports from OPEC <sup>1/</sup>	6.188	6.633	6.728	6.758	6.794	6.385	6.154	6.053	6.259	6.693	5.920
Imports from Persian Gulf <sup>2/</sup>											
Total.....	3.754	3.908	3.660	3.666	4.048	3.506	3.365	3.171	3.469	3.953	3.301
Bahrain.....	.005	.020	.002	.003	.004	.003	.000	.001	.001	.004	.001
Iran.....	1.076	1.190	1.132	1.113	1.253	1.074	1.149	1.059	.942	1.021	.940
Iraq.....	.897	.591	.000	.000	.001	.000	.000	.006	.336	.724	.808
Kuwait.....	.452	.346	.019	.142	.461	.302	.269	.288	.249	.275	.223
U.A.E.....	.214	.446	.281	.199	.092	.067	.011	.004	.009	.019	.006
Qatar.....	.024	.026	.009	.006	.000	.000	.002	.002	.000	.000	.000
Saudi Arabia.....	1.086	1.290	2.217	2.203	2.237	2.060	1.933	1.811	1.932	1.910	1.324
Imports from OPEC-Africa											
Total.....	2.224	2.509	2.818	2.818	2.491	2.644	2.500	2.644	2.568	2.505	2.403
Algeria.....	.648	.683	.757	.772	.693	.690	.724	.746	.681	.708	.706
Libya.....	1.044	1.267	1.332	1.361	1.193	1.233	1.201	1.204	1.268	1.297	1.251
Nigeria.....	.532	.559	.729	.686	.605	.721	.575	.694	.620	.501	.446
Imports from OPEC-South America											
Total.....	.212	.227	.249	.268	.240	.219	.273	.206	.206	.215	.212
Venezuela.....	.212	.227	.249	.268	.240	.219	.273	.206	.206	.215	.212
Imports from OPEC-Far East											
Total.....	.004	.008	.002	.009	.019	.019	.017	.033	.017	.024	.005
Indonesia.....	.004	.008	.002	.009	.019	.019	.017	.033	.017	.024	.005

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

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

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

•A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1997 are preliminary.

Sources: See end of Section 4.

**Table 4.13 France--Net Oil Imports, 1989-1999**  
 (Million Barrels per Day)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Average											
Total Net Imports..	1.709	1.750	1.851	1.766	1.741	1.596	1.702	1.716	1.747	1.855	1.862
Imports from OPEC <sup>1/</sup>	.875	1.101	1.021	.932	1.006	.956	.911	.897	.899	1.029	.918
Imports from Persian Gulf <sup>2/</sup>											
Total.....	.647	.864	.708	.640	.757	.651	.647	.573	.617	.729	.629
Bahrain.....	.002	.011	.000	.001	.002	.000	.000	.001	.000	.002	.001
Iran.....	.158	.182	.171	.151	.243	.156	.208	.172	.127	.157	.137
Iraq.....	.128	.062	.000	.000	.000	.000	.000	.000	.078	.171	.148
Kuwait.....	.021	.015	.011	.029	.032	.016	.022	.017	.017	.019	.037
U.A.E.....	.040	.233	.064	.033	.025	.003	.002	.001	.000	.012	.001
Qatar.....	.009	.022	.003	.002	.000	.000	.000	.000	.000	.000	.000
Saudi Arabia.....	.288	.339	.459	.424	.454	.477	.416	.381	.393	.369	.304
Imports from OPEC-Africa											
Total.....	.218	.233	.296	.281	.242	.301	.262	.323	.282	.301	.284
Algeria.....	.089	.092	.107	.105	.066	.089	.103	.105	.131	.115	.117
Libya.....	.065	.079	.104	.087	.063	.059	.043	.051	.060	.061	.067
Nigeria.....	.064	.062	.084	.090	.112	.153	.115	.168	.091	.126	.099
Imports from OPEC-South America											
Total.....	.012	.015	.017	.011	.010	.003	.002	.001	.000	.000	.002
Venezuela.....	.012	.015	.017	.011	.010	.003	.002	.001	.000	.000	.002
Imports from OPEC-Far East											
Total.....	.000	.000	.001	.001	.000	.000	.000	.000	.000	.000	.004
Indonesia.....	.000	.000	.001	.001	.000	.000	.000	.000	.000	.000	.004

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

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

Notes: •Imports include Crude Oil, Natural Gas Liquids, and Refined Products, and are on a direct basis. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1997 are preliminary.

Sources: See end of Section 4.

**Table 4.14 Germany--Net Oil Imports, 1989-1999**  
 (Million Barrels per Day)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Average											
Total Net Imports..	2.112	2.202	2.642	2.714	2.697	2.704	2.673	2.766	2.778	2.860	2.608
Imports from OPEC <sup>1/</sup>	.739	.771	.859	.957	.948	.838	.711	.660	.645	.656	.597
Imports from Persian Gulf <sup>2/</sup>											
Total.....	.216	.217	.227	.215	.250	.217	.172	.145	.157	.163	.140
Bahrain.....	-	-	-	-	.000	.001	.000	.000	.000	.000	-
Iran.....	.041	.055	.053	.021	.053	.040	.031	.018	.023	.020	.016
Iraq.....	.009	.004	.000	.000	.000	.000	.000	.000	.001	.020	.017
Kuwait.....	.022	.013	.000	.009	.022	.026	.015	.016	.012	.016	.015
U.A.E.....	.023	.016	.012	.002	.002	.001	.000	.000	.001	.000	.000
Qatar.....	.002	.003	.002	.001	.000	.000	.000	.000	.000	.000	-
Saudi Arabia.....	.119	.125	.161	.182	.173	.149	.125	.111	.120	.106	.091
Imports from OPEC-Africa											
Total.....	.436	.465	.524	.614	.594	.543	.461	.462	.442	.447	.417
Algeria.....	.106	.098	.126	.183	.195	.161	.135	.125	.095	.127	.098
Libya.....	.235	.244	.262	.252	.244	.244	.234	.258	.246	.277	.296
Nigeria.....	.095	.123	.136	.179	.154	.139	.093	.079	.101	.043	.023
Imports from OPEC-South America											
Total.....	.086	.088	.107	.128	.105	.079	.078	.053	.046	.046	.041
Venezuela.....	.086	.088	.107	.128	.105	.079	.078	.053	.046	.046	.041
Imports from OPEC-Far East											
Total.....	-	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000
Indonesia.....	-	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000

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

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

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •Data through 1990 are for the former West Germany. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1997 are preliminary.

Sources: See end of Section 4.

**Table 4.15 Italy--Net Oil Imports, 1989-1999**  
 (Million Barrels per Day)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Average											
Total Net Imports..	1.716	1.788	1.750	1.819	1.728	1.760	1.802	1.773	1.775	1.809	1.731
Imports from OPEC <sup>1/</sup>	1.260	1.375	1.393	1.343	1.222	1.117	1.203	1.244	1.353	1.421	1.234
Imports from Persian Gulf <sup>2/</sup>											
Total.....	.619	.626	.595	.573	.548	.430	.494	.502	.583	.658	.570
Bahrain.....	.001	.000	.001	.001	.000	.000	.000	.001	.000	.002	.000
Iran.....	.124	.192	.231	.239	.221	.143	.233	.263	.258	.273	.269
Iraq.....	.138	.079	.000	.000	.000	.000	.000	.000	.033	.108	.130
Kuwait.....	.093	.063	.000	.007	.012	.001	.000	.000	.000	.000	.003
U.A.E.....	.085	.075	.044	.013	.002	.000	.000	.000	.000	.000	.000
Qatar.....	.008	.000	.004	.001	.000	.000	.002	.002	.000	.000	-
Saudi Arabia.....	.171	.216	.315	.312	.313	.286	.260	.236	.291	.274	.169
Imports from OPEC-Africa											
Total.....	.626	.740	.793	.757	.653	.660	.679	.714	.745	.723	.655
Algeria.....	.150	.155	.155	.140	.096	.099	.100	.110	.086	.083	.111
Libya.....	.430	.556	.581	.584	.542	.543	.562	.580	.609	.601	.516
Nigeria.....	.045	.029	.057	.034	.015	.018	.017	.025	.050	.039	.027
Imports from OPEC-South America											
Total.....	.014	.007	.004	.005	.002	.007	.014	.008	.012	.020	.007
Venezuela.....	.014	.007	.004	.005	.002	.007	.014	.008	.012	.020	.007
Imports from OPEC-Far East											
Total.....	.002	.003	.001	.009	.019	.019	.015	.021	.014	.023	.001
Indonesia.....	.002	.003	.001	.009	.019	.019	.015	.021	.014	.023	.001

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

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

Notes: •Imports include Crude Oil, Natural Gas Liquids, and Refined Products, and are on a direct basis. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1997 are preliminary.

Sources: See end of Section 4.

Table 4.16 OECD Imports from Iraq, 1989-1999  
(Million Barrels per Day)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Average											
Total.....	1.581	1.276	0.000	0.000	0.001	0.000	0.000	0.007	0.458	1.109	1.707
United States <sup>1/</sup> .....	.449	.518	.000	.000	.000	.000	.000	.001	.089	.336	.725
Canada.....	.013	.011	.000	.000	.000	.000	.000	.000	.014	.014	.027
OECD Europe <sup>2/</sup> .....	.897	.591	.000	.000	.001	.000	.000	.006	.336	.724	.808
<b>Main European Importers</b>											
France.....	.128	.062	.000	.000	.000	.000	.000	.000	.078	.171	.148
Germany <sup>3/</sup> .....	.009	.004	.000	.000	.000	.000	.000	.000	.001	.020	.017
Italy.....	.138	.079	.000	.000	.000	.000	.000	.000	.033	.108	.130
Netherlands.....	.101	.117	.000	.000	.000	.000	.000	.000	.024	.113	.170
Spain.....	.109	.063	.000	.000	.000	.000	.000	.002	.074	.130	.123
<b>European Net Exporters</b>											
United Kingdom....	.034	.027	.000	.000	.000	.000	.000	.000	.000	-	-
<b>Smaller European Importers</b>											
Austria.....	.000	.000	.000	.000	.001	.000	.000	.000	.017	.031	.035
Belgium.....	.047	.029	.000	.000	.000	.000	.000	.000	.010	.047	.027
Denmark.....	-	.000	.000	.000	.000	.000	.000	.000	.000	-	-
Greece.....	.052	.044	.000	.000	.000	.000	.000	.000	.013	.013	.029
Portugal.....	.024	.019	.000	.000	.000	.000	.000	.000	.011	.029	.031
Sweden.....	.005	.000	.000	.000	.000	.000	.000	.000	.000	-	-
Switzerland.....	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000
Turkey.....	.250	.146	.000	.000	.000	.000	.000	.003	.074	.063	.097
Japan.....	.219	.146	.000	.000	.000	.000	.000	.000	.015	.017	.099
Other OECD.....	.003	.011	.000	.000	.000	.000	.000	.000	.005	.017	.048

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

Sources: See end of Section 4.

Table 4.17 OECD Imports from Kuwait, 1989-1999  
(Million Barrels per Day)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	Average										
Total.....	1.084	0.740	0.039	0.414	1.191	1.081	0.997	1.034	1.065	1.089	0.993
United States <sup>1/</sup> .....	.157	.086	.006	.051	.353	.312	.218	.236	.253	.301	.248
Canada.....	-	.004	-	-	.000	.027	.000	.000	.000	.000	.001
OECD Europe <sup>2/</sup> .....	.452	.346	.019	.142	.461	.302	.269	.288	.249	.275	.223
Main European Importers											
France.....	.021	.015	.011	.029	.032	.016	.022	.017	.017	.019	.037
Germany <sup>3/</sup> .....	.022	.013	.000	.009	.022	.026	.015	.016	.012	.016	.015
Italy.....	.093	.063	.000	.007	.012	.001	.000	.000	.000	.000	.003
Netherlands.....	.194	.151	.002	.052	.254	.179	.176	.193	.168	.176	.142
Spain.....	.015	.010	.003	.000	.015	.000	.000	.000	.000	.000	.004
European Net Exporters											
Norway.....	-	-	-	-	.000	.000	.000	.000	.000	.000	-
United Kingdom....	.006	.045	.002	.027	.049	.058	.039	.032	.031	.025	.005
Smaller European Importers											
Austria.....	.002	.000	.000	.000	.000	.000	.000	.000	.000	-	-
Belgium.....	-	.000	.001	.006	.056	.005	.004	.015	.004	.014	.001
Denmark.....	.066	.034	.000	.000	.000	.000	.000	.000	.002	.007	.000
Finland.....	-	-	.000	-	-	-	-	-	-	.001	.000
Greece.....	.009	.000	.000	.002	.005	.001	.000	.000	.000	.000	.001
Portugal.....	.003	.002	.000	.000	.000	.000	.000	.000	.000	-	-
Sweden.....	.001	.001	.000	.000	.002	.000	.000	.000	.000	.000	.000
Switzerland.....	-	-	.000	.000	.000	.000	.000	.000	.000	.000	-
Turkey.....	.019	.011	.000	.010	.016	.016	.014	.015	.014	.016	.015
Japan.....	.458	.291	.014	.220	.368	.430	.501	.500	.557	.507	.515
Other OECD.....	.017	.013	.000	.000	.009	.011	.009	.010	.006	.006	.007

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

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

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

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

•A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 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 1999; • 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 1999.

Other OECD Countries: • 1973-1982: Organization for Economic Cooperation and Development (OECD), Quarterly Oil Statistics and Energy Balances, various issues. • 1983-1999: OECD, Monthly Oil Statistics in the EIA, International Energy Database.

### Oil Demand

United States: EIA, Petroleum Supply Annual 1999.

Other OECD Countries: • 1973-1981: OECD, Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Annual Oil Statistics data base, 1970-1979. • 1982-1999: OECD, Monthly Oil Statistics in the EIA International Energy Database.

### Oil Imports

United States: Energy Information Administration (EIA), Petroleum Supply Annual 1999.

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 Monthly as a purely geographical expression, referring to the Commonwealth of Independent States (CIS), Georgia, and the three Baltic States (Estonia, Latvia, and Lithuania).

## **Appendix B**

### **Explanatory Notes**

## Appendix B. Explanatory Notes

### Note 1: World Oil Supply

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

### Note 2: Oil Stocks

The International Energy Agency (IEA) assembles and reports total oil stock data for the member countries of the Organization for Economic Cooperation and Development (OECD). Oil stocks include crude oil (including strategic reserves), unfinished oils, natural gas plant liquids, and refined petroleum products. In its report titled Quarterly Oil Statistics and Energy Balances of OECD Countries, the IEA defines oil stocks as follows: "All non-military stocks held by importers (including all final consumers directly), refiners, Governments, major non-importing final consumers eligible under IEA/OECD commitments and by foreign entities in the following facilities: bulk terminals, refinery tanks, pipeline tankage, barges, intercoastal tankers (when port of departure and destination are in the reporting country), tankers in port (to the extent that their cargo is to be unloaded in the reporting country), and inland ship bunkers. Oil is reported regardless of the ownership of such storage facilities." IEA data exclude "oil held in pipelines, rail and truck tank cars, sea-going ships' bunkers, service stations, retail stores and tankers at sea." Also the IEA defines the United States to be the 50 States and the District of Columbia, and the U.S. Territories (Guam, Puerto Rico, and the U.S. Virgin Islands). The Energy Information Administration (EIA) does not include the United States Territories in its statistical definition of the United States. Further, the EIA includes oil in oil pipelines as part of its stock data. Tables 1.5, 1.6, 2.3, and 4.4 include oil stocks for the United States according to EIA definitions. Using IEA definitions, at the end of September 2000 United States (including territories) oil stocks totaled 1,390 million barrels.

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

Prior to August 1992, Section 2 of the International Petroleum Monthly 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 Monthly 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 3 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 220 countries) are presented in EIA's International Energy Annual. In 1997, 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 170 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 China, which in 1997 accounted for about one-sixth of the demand in the group of 25. The next largest consumer is Russia, which in 1997 accounted for about one-tenth of the demand in the group. Thus in 1997 China and Russia accounted for one-fourth of the demand in the group of 25. For these 2 countries, data are available on oil production and trade. 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 Monthly, 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 labeled "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 Monthly 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 labeled "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 labeled "Other Stock Draw and Statistical Discrepancy" is a balancing item.

## **Appendix C**

### **Glossary**

## Appendix C. Glossary

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

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

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

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

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

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

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

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

**Oxygenates.** Substances which, when added to gasoline, increase the amount of oxygen in that gasoline blend. Ethanol, Methyl Tertiary Butyl Ether (MTBE), Ethyl Tertiary Butyl Ether (ETBE), and methanol are common oxygenates.

**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 1998 and earlier years, for all countries, may be found in EIA's International Energy Annual 1998, published in January 2000, 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 1997, and preliminary demand data for all countries for 1998. 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 Monthly 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 1997 and earlier years match the demand numbers in the WORLD ENERGY database on EIA's home page. Numbers for 1998 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 China and Russia. 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 China and Russia 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, 1989-1998

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<b>North America</b>										
Canada . . . . .	7.453	7.186	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	7.120	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	7.056	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	7.080	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	6.890	6.890	6.890	6.890	6.890	6.890	6.890	6.890	6.890
<b>Western Europe</b>										
Austria . . . . .	7.082	7.200	7.200	7.200	7.200	7.200	7.200	7.200	7.200	7.200
Denmark . . . . .	7.689	7.405	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	7.231	7.231	7.231	7.231	7.231	7.231	7.231	7.231	7.231
Italy . . . . .	6.853	7.300	7.300	7.300	7.300	7.300	7.300	7.300	7.300	7.300
Netherlands . . . . .	6.853	7.239	7.239	7.239	7.239	7.239	7.239	7.239	7.239	7.239
Norway . . . . .	7.810	7.644	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	6.623	6.623	6.623	6.623	6.623	6.623	6.623	6.623	6.623
Turkey . . . . .	7.150	7.200	7.200	7.200	7.200	7.200	7.200	7.200	7.200	7.200
United Kingdom . . . . .	7.466	7.523	7.523	7.523	7.523	7.523	7.523	7.523	7.523	7.523
Former Yugoslavia . . . . .	7.418	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 1998. DOE/EIA-0219(98) (January 2000).

Table E2. Barrels of Crude Oil per Metric Ton, 1989-1998 (continued)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<b>Eastern Europe &amp; Former U.S.S.R.</b>										
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	--	--	--	--	--	--
Czech Republic . . . . .	--	--	--	--	6.780	6.780	6.780	6.780	6.780	6.780
Slovakia . . . . .	--	--	--	--	6.780	6.780	6.780	6.780	6.780	6.780
Hungary . . . . .	6.690	6.690	6.690	6.690	6.690	6.690	6.690	6.690	6.690	6.690
Poland . . . . .	7.418	7.418	7.418	7.418	7.418	7.418	7.418	7.418	7.418	7.418
Romania . . . . .	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506
Former U.S.S.R. . . . .	7.270	7.270	7.270	--	--	--	--	--	--	--
Azerbaijan . . . . .	--	--	--	7.270	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	7.270
Georgia . . . . .	--	--	--	7.270	7.270	7.270	7.270	7.270	7.270	7.270
Lithuania . . . . .	--	--	--	--	7.270	7.270	7.270	7.270	7.270	7.270
Kazakhstan . . . . .	--	--	--	7.270	7.270	7.270	7.270	7.270	7.270	7.270
Kyrgyzstan . . . . .	--	--	--	7.270	7.270	7.270	7.270	7.270	7.270	7.270
Russia . . . . .	--	--	--	7.270	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	7.270
Turkmenistan . . . . .	--	--	--	7.270	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	7.270
Uzbekistan . . . . .	--	--	--	7.270	7.270	7.270	7.270	7.270	7.270	7.270
<b>Middle East</b>										
Bahrain . . . . .	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320
Iran . . . . .	7.305	7.350	7.350	7.350	7.350	7.350	7.350	7.350	7.350	7.350
Iraq . . . . .	7.426	7.430	7.430	7.430	7.430	7.430	7.430	7.430	7.430	7.430
Israel . . . . .	7.247	7.247	7.247	7.247	7.247	7.247	7.247	7.247	7.247	7.247
Jordan . . . . .	7.190	7.190	7.190	7.190	7.190	7.190	7.190	7.190	7.190	7.190
Kuwait . . . . .	7.245	7.250	7.250	7.250	7.250	7.250	7.250	7.250	7.250	7.250
Oman . . . . .	7.332	7.330	7.330	7.330	7.330	7.330	7.330	7.330	7.330	7.330
Qatar . . . . .	7.500	7.500	7.500	7.500	7.500	7.500	7.500	7.500	7.500	7.500
Saudi Arabia . . . . .	7.268	7.323	7.323	7.323	7.323	7.323	7.323	7.323	7.323	7.323
Syria . . . . .	6.836	7.290	7.290	7.290	7.290	7.290	7.290	7.290	7.290	7.290
United Arab Emirates . . . . .	7.480	7.596	7.596	7.596	7.596	7.596	7.596	7.596	7.596	7.596
Yemen . . . . .	7.632	7.631	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 1998. DOE/EIA-0219(98) (January 2000).

Table E2. Barrels of Crude Oil per Metric Ton, 1989-1998 (continued)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<b>Africa</b>										
Algeria . . . . . . . . . . .	7.936	8.130	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	7.410	7.410
Benin . . . . . . . . . . .	6.870	6.870	6.870	6.870	6.870	6.870	6.870	6.870	6.870	6.870
Cameroon . . . . . . . . . . .	7.205	7.205	7.205	7.205	7.205	7.205	7.205	7.205	7.205	7.205
Congo (Brazzaville) . . . . . .	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506
Congo (Kinshasa) . . . . . . .	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320
Cote d'Ivoire (Ivory Coast) . . .	7.285	7.285	7.285	7.285	7.285	7.285	7.285	7.285	7.285	7.285
Egypt . . . . . . . . . . .	7.256	7.256	7.256	7.256	7.256	7.256	7.256	7.256	7.260	7.260
Equatorial Guinea . . . . . . .	--	--	8.077	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	7.285
Libya . . . . . . . . . . .	7.515	7.580	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	7.500	7.500
South Africa . . . . . . . . . .	--	--	--	--	--	--	--	--	--	7.720
Sudan . . . . . . . . . . .	--	--	--	7.452	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	7.868	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	7.300	7.300
India . . . . . . . . . . .	7.600	7.440	7.440	7.440	7.440	7.440	7.440	7.440	7.330	7.330
Indonesia . . . . . . . . . . .	7.558	7.360	7.360	7.360	7.360	7.360	7.360	7.360	7.360	7.360
Japan . . . . . . . . . . .	7.285	7.357	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	7.321	7.321	7.321	7.321	7.321	7.321	7.321	7.321	7.321
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	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 1998. DOE/EIA-0219(98) (January 2000).