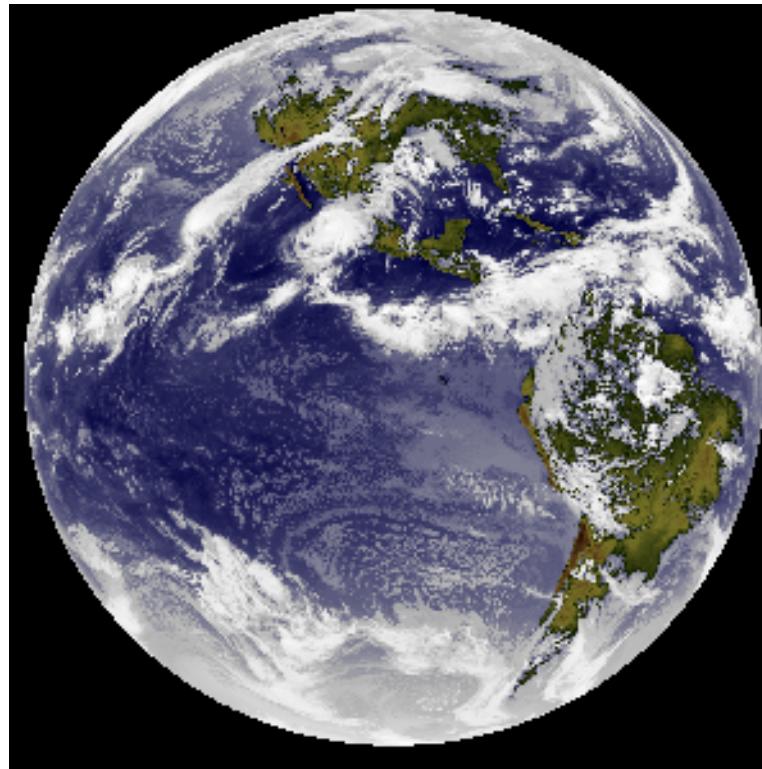


INTERNATIONAL PETROLEUM MONTHLY

June 2001



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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 2000; OECD stocks from 1973 through 2000; and OECD trade from 1990 through 2000.

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 - May 2001

The following chronology lists international events that hold significance for world energy markets. Sources include: Dow Jones Business News (DJ), The Los Angeles Times (LAT), The New York Times (NYT), Reuters, USA Today (USAT), The Washington Post (WP), The Wall Street Journal (WSJ), and World Markets Online (WMO).

May 1 Mexican President Vicente Fox announces plans to dissolve the board of Mexican state oil company Pemex and to instead create an eight-member advisory committee. This is a reversal from his previous policy to fill the board of Pemex with high-profile private-sector executives. (WMO)

May 3 U.S. President George W. Bush orders federal agencies in California to cut their energy use and to take other appropriate actions to conserve energy. The Federal Government consumes 1.5 percent of the nation's electricity. (WP)

ExxonMobil announces that it has made a major oil discovery offshore Angola, 217 miles northwest of Luanda. The discovery is located in Block 15 and is believed to contain 3.5 billion barrels of oil. (WMO)

May 4 California Governor Gray Davis announces a \$7 billion agreement by the State to buy electricity over 10 years from Sempra Energy. Governor Davis asserts that this will contribute to bringing reliable power to California at a lower price than the spot market. (LAT)

A draft report of the Mitchell Commission is distributed to Israeli and Palestinian officials. The report says that Israel should freeze settlement construction, but does not recommend sending an international force to the region, as Palestinians have been demanding. The international commission, led by former U.S. Senator George Mitchell, was formed as part of a U.S.-brokered Israeli-Palestinian cease-fire agreement reached at an October 2000 summit at the Egyptian resort of Sharm el-Sheik. (USAT)

May 7 The Williams Companies announces that it has acquired Barrett Resources for \$2.5 billion in cash and stock. Barrett Resources is a natural gas exploration and production company. Williams builds power plants, transports natural gas, and trades electricity. (NYT, WMO)

Valero Energy announces that it has reached an agreement to acquire Ultramar Diamond Shamrock for \$6 billion. If approved by shareholders and regulators, the new company would be the second-largest petroleum refiner in the United States, with a refining of capacity slightly under 2 million barrels per day. (NYT, WMO)

May 8 The State Planning Board of the People's Republic of China approves a plan to make a very large investment in the country's rural power grids. This includes maintenance and renovation as well as construction of new lines. (WMO)

AES Corporation announces that it has suspended plans to invest \$2-\$2.5 billion in energy projects in Brazil. AES alleges that the Brazilian government's pricing policy jeopardizes the profitability of its operations there. (Reuters)

May 9 Four people are killed in the Aceh region of Indonesia when two bombs explode, damaging a natural gas pipeline and pumping station owned by ExxonMobil. ExxonMobil suspended on-shore operations, including shipments from the liquefied natural gas (LNG) terminal at Arun, on March 9, 2001, due to the possibility of violence. This has reduced Indonesia's export earnings from LNG. (WMO)

BP Trinidad and Tobago announces the discovery of a one-trillion-cubic-foot natural gas field off the east coast of Trinidad, enough to power the entire country's electricity needs for about 50 years. More importantly, this represents another source for Trinidad and Tobago's liquefied natural gas exports and increases confidence in the hydrocarbon potential of Trinidad's east coast. (WMO)

May 15 The California Public Utilities Commission approves a plan that calls for a \$5.7 billion rate increase, much of it falling on residential customers. The plan is retroactive to March 27, 2001, with rates designed to reward those who conserve and to punish those who do not. (LAT)

- May 16** Norwegian Oil Minister Olav Akselsen announces that Norway's oil production has plateaued and that there are no plans to raise or lower production in concert with OPEC. (Reuters)
- May 17** President Bush issues the administration's new energy policy. Among the plan's 105 specific recommendations are calls for reduced regulations to encourage more oil, gas, and nuclear production, tax incentives to boost coal output, and other tax incentives to promote conservation and alternative fuels. The plan also calls for increasing energy assistance to low-income households and for making the electricity grid more interconnected, both domestically and with Mexico and Canada. (LAT, WP, WSJ)
- The companies involved in the proposed Baku-Ceyhan oil pipeline, including the manager, BP, have found the initial cost estimate viable, and will proceed to the next phase of the project, a more detailed \$150 million feasibility study. The proposed pipeline would loosen Russian control of Caspian Sea oil and serve as an alternative to the Bosphorus as a transport route for oil from the Tengiz field. (NYT)
- BP and Shell say that they will build a \$150 million, 100-mile natural gas pipeline in the Gulf of Mexico. The Okeanos pipeline will have the capacity to move as much as one billion cubic feet of gas per day from offshore production fields in ultradeep waters. (WSJ)
- May 18** Brazil orders consumers and citizens to cut electricity consumption by 20 percent to avoid blackouts. Rationing will begin on June 1, and includes surcharges for those who do not meet the cutback and rewards for those who do. This comes as a drought has reduced Brazil's hydroelectric generating capacity, which accounts for about 90 percent of the country's total generation capacity. (NYT)
- Saudi Arabia selects the eight foreign companies to take part in its "Gas Initiative," three core venture gas projects that have an anticipated worth of \$25 billion. They are: Core Venture 1: ExxonMobil (lead), Shell, BP, and Phillips; Venture 2: ExxonMobil (lead), Occidental and Enron (a joint bid); Venture 3: Shell (lead), TotalFinaElf, and Conoco. The Gas Initiative is the first major reopening of Saudi Arabia's upstream hydrocarbon sector since nationalization in the 1970s. (WMO)
- May 21** The price of Brent crude oil futures for delivery in early June peaks at \$29.68 per barrel, the highest level in a year. This comes as concern increases over U.S. gasoline supplies, heightening Israeli-Palestinian tensions, a possible Iraqi halt in oil exports, and OPEC statements to the effect that a production quota increase in June is unlikely. (WMO)
- The Enron Corporation's power generating venture in India, the Dabhol Power Company, serves formal notice that it will terminate its power supply contract and pull out. The \$2.9 billion Dabhol project represents the single largest foreign investment in India. The gas-fired plant already had a generating capacity of 740 megawatts and another 1,444 megawatts was scheduled to go on line in June.
- May 23** Shell announces that it has discovered a huge reserve of oil in Oil Mining Lease 118 offshore Nigeria. This is the same block where Shell is developing the 600-million barrel Bonga field. The discovery would appear to confirm the immense potential of Nigeria's deepwater offshore area. (WMO)
- May 29** California Governor Gray Davis meets with President Bush and informs him that he plans to file a lawsuit against the Federal Energy Regulatory Commission to force the federal government to impose price controls on wholesale electricity in California. President Bush reiterates his opposition to price caps. (Reuters)
- Natural gas futures plunge six percent to a 10-month low on speculation that growing U.S. inventories will help power plants meet summer demand for air-conditioning. The price for June delivery fell 23.5 cents, to \$3.738 per million British thermal units on the New York Mercantile Exchange (NYMEX). (LAT)
- May 30** Iraqi Oil Minister Amir Mohammad Rasheed signs an oil and gas cooperation agreement with his Algerian counterpart, Chekib Khelil. The deal is thought to include an Algerian role in the development of the Touba oil field in southern Iraq and a new natural gas field in the Western Desert of Iraq. (WMO)

May 31 The United States and Britain win Security Council approval of a one-month extension of the United Nations oil-for-food program. A vote on the new "smart sanctions" on Iraq proposed by the United States and Britain is delayed at least one month. Iraq demands the usual six-month extension, and says that it will cut off oil exports in response. (WSJ)

Ukrainian President Leonid Kuchma orders his new government to suspend the planned privatization of electricity generating and distribution companies. Privatization of electricity companies was one of the key terms laid down by the International Monetary Fund to secure loans to Ukraine under its currently frozen \$2.6 billion aid program. (Reuters)

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1. Annual and Monthly Oil Data

Figure 1. World Crude Oil Production, Monthly

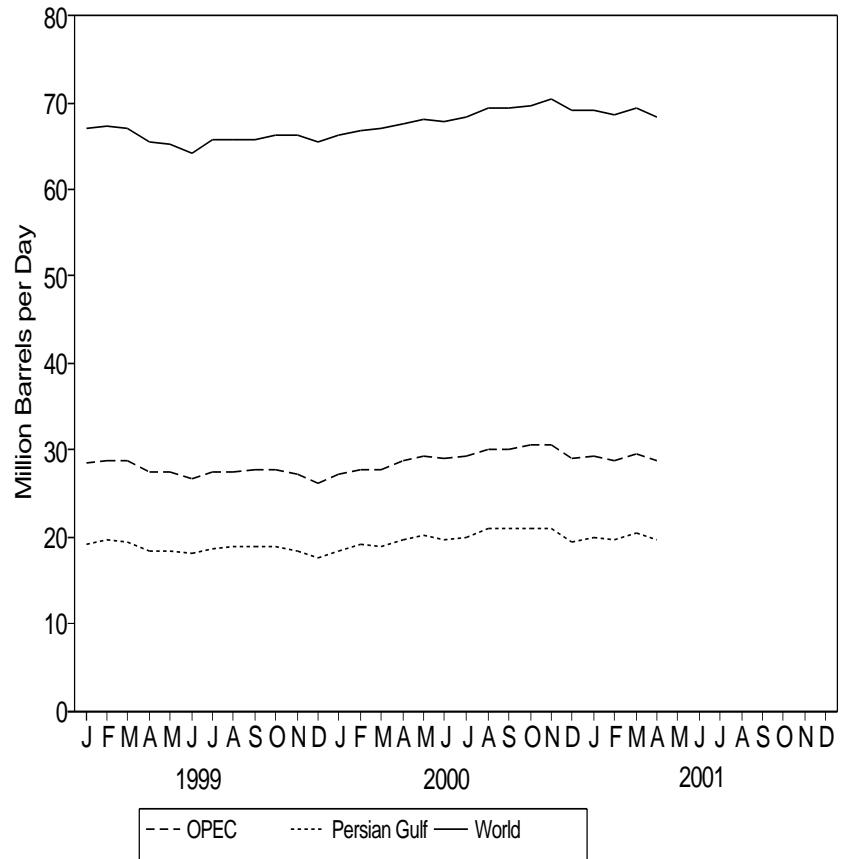
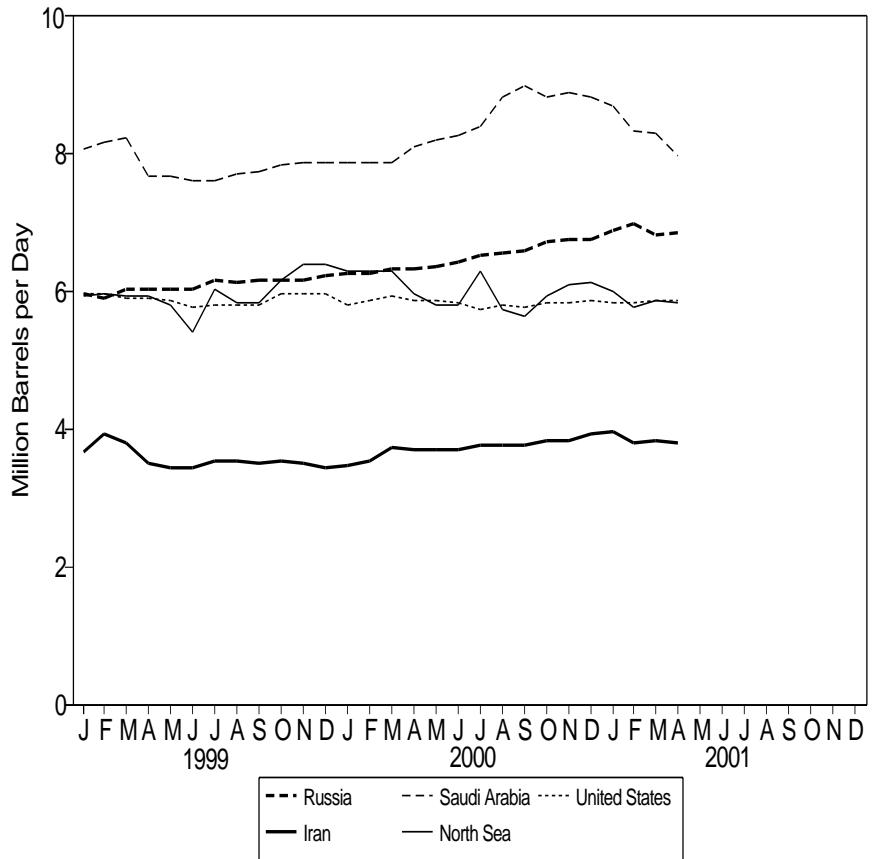


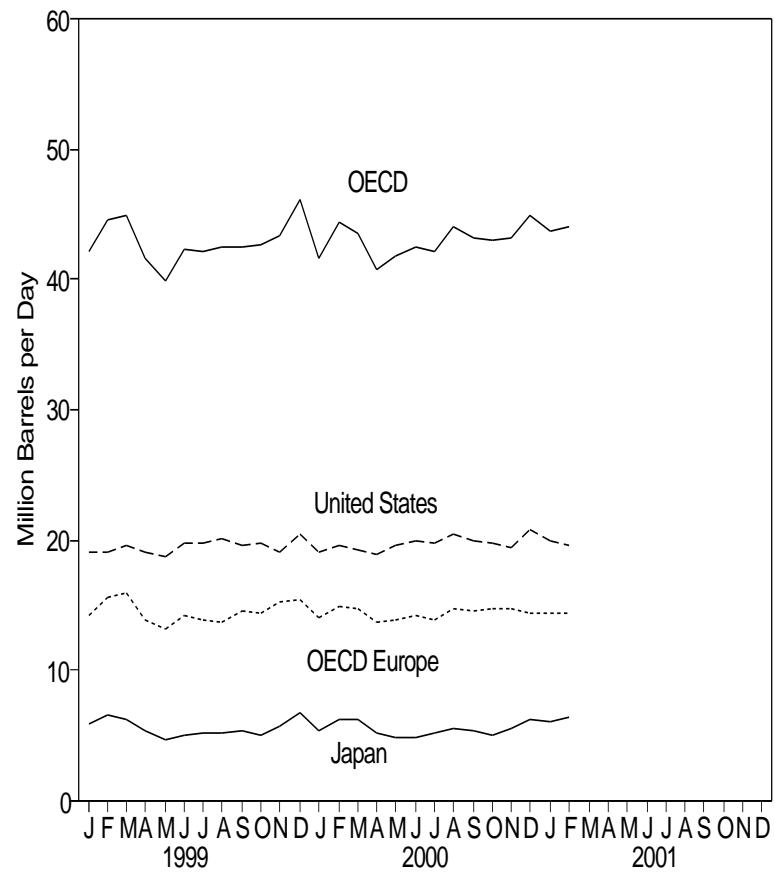
Figure 2. Leading Crude Oil Producers, Monthly



Source: Tables 1.1a-1.1c

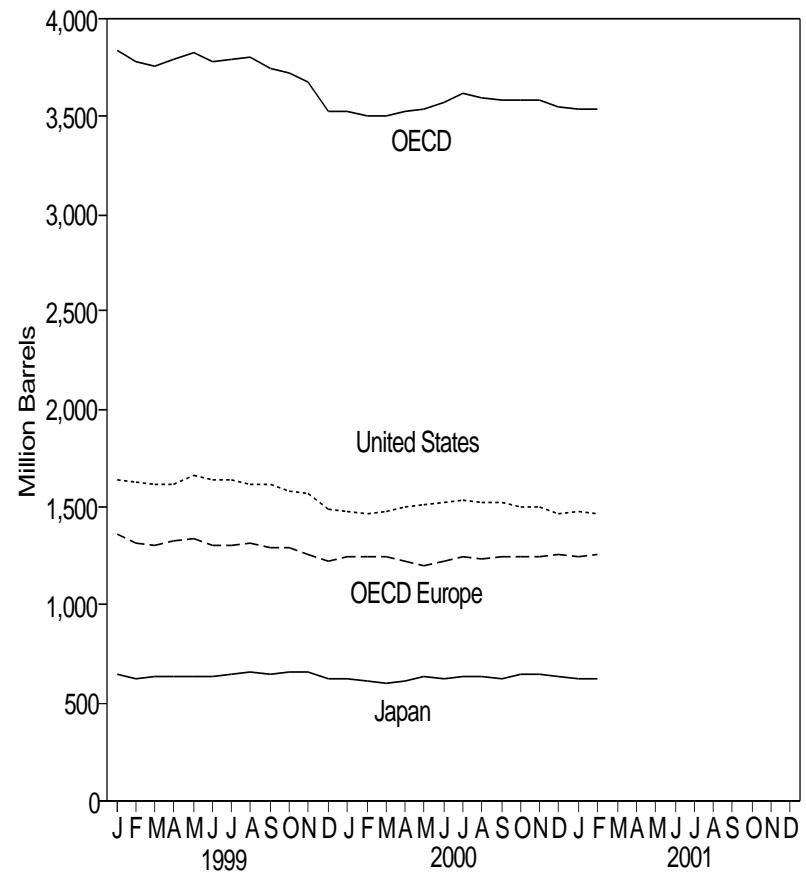
Source: Tables 1.1a-1.1c

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 ^{1/}	Libya	Nigeria	Qatar	Saudi Arabia ^{1/}	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 Average.....	1,202	1,472	3,557	2,508	1,898	1,319	2,130	665	7,833	2,169	2,826	27,579
2000 January.....	1,190	1,460	3,465	2,215	1,962	1,330	2,010	695	7,863	2,245	2,790	27,225
February.....	1,190	1,430	3,525	2,595	2,015	1,380	2,060	705	7,865	2,250	2,850	27,865
March.....	1,190	1,430	3,735	2,215	2,040	1,390	2,080	705	7,865	2,300	2,850	27,800
April.....	1,230	1,460	3,675	2,655	2,100	1,400	2,140	715	8,100	2,380	2,900	28,755
May.....	1,240	1,490	3,685	3,055	2,100	1,400	2,110	735	8,200	2,380	2,930	29,325
June.....	1,250	1,490	3,705	2,565	2,150	1,420	2,140	735	8,250	2,280	2,950	28,935
July.....	1,250	1,490	3,750	2,525	2,170	1,425	2,180	755	8,390	2,320	2,970	29,225
August.....	1,260	1,490	3,750	2,995	2,173	1,420	2,160	755	8,823	2,380	2,980	30,185
September.....	1,250	1,490	3,755	2,875	2,170	1,430	2,110	755	8,975	2,390	2,980	30,180
October.....	1,270	1,460	3,835	3,005	2,210	1,440	2,210	760	8,800	2,410	3,050	30,450
November.....	1,265	1,450	3,830	2,815	2,215	1,440	2,260	765	8,900	2,415	3,050	30,405
December.....	1,280	1,455	3,905	1,355	2,210	1,445	2,265	765	8,800	2,420	3,080	28,980
2000 Average.....	1,239	1,466	3,719	2,571	2,126	1,410	2,144	737	8,404	2,348	2,949	29,113
2001 January.....	1,280	1,435	3,935	1,735	2,200	1,450	R2,270	775	8,700	2,440	3,100	R29,320
February.....	1,250	1,440	3,785	2,195	2,130	1,400	R2,240	735	8,320	2,380	3,030	R28,905
March.....	1,250	R1,395	3,835	2,855	2,100	1,390	R2,270	735	8,300	2,420	3,000	R29,550
April.....	1,235	1,370	3,785	2,930	2,010	1,380	2,190	715	7,950	2,330	2,920	28,815
2001 Average.....	1,254	1,410	3,837	2,430	2,110	1,405	2,243	740	8,321	2,393	3,013	29,156

^{1/} 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 April 2001, Neutral Zone production by both Kuwait and Saudi Arabia totaled about 630 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 ^{1/}	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 Average.....	3,018	2,684	5,958	766	802	539	1,132	1,907	3,195	816	373
2000 January.....	3,233	2,721	R6,283	760	785	717	1,090	1,979	3,250	755	390
February.....	3,348	2,644	R6,299	760	760	781	1,090	1,991	3,280	705	390
March.....	3,248	2,678	R6,274	760	760	730	1,100	1,892	3,280	725	390
April.....	3,052	2,549	R5,954	750	755	717	1,110	1,894	3,300	725	375
May.....	3,149	2,311	R5,792	760	755	718	1,120	1,990	3,250	690	370
June.....	2,984	2,446	R5,785	750	750	737	1,185	2,020	3,295	705	373
July.....	3,398	2,535	R6,273	750	760	742	1,206	1,986	3,280	718	401
August.....	3,025	2,370	R5,733	760	770	723	1,225	1,955	3,205	640	410
September.....	3,012	2,315	R5,638	740	763	651	1,305	2,007	3,220	642	425
October.....	3,247	2,334	R5,930	723	759	681	1,320	1,961	3,210	595	420
November.....	3,327	2,389	R6,086	723	757	731	1,365	2,029	3,206	695	415
December.....	3,336	2,413	R6,113	721	759	733	1,420	2,021	3,212	693	380
2000 Average.....	3,197	2,475	R6,013	746	761	722	1,212	1,977	3,249	691	395
2001 January.....	3,325	2,338	R5,999	746	767	682	1,322	2,032	3,220	674	420
February.....	3,153	2,264	5,754	749	R768	662	1,345	2,052	3,330	613	R408
March.....	3,212	R2,308	R5,854	731	R761	R673	R1,264	R2,070	R3,376	560	R425
April.....	3,128	2,368	5,821	739	761	611	1,296	1,931	3,213	553	420
2001 Average.....	3,206	2,320	5,860	741	764	657	1,306	2,021	3,284	600	418

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

R=Revised data.

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

Sources: See end of Section 1.

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

	Egypt	Gabon	India	Malaysia	Mexico	Oman	Russia	Former U.S.S.R.	Syria	United States	Other ¹ / World
1990 Average.....	873	270	660	619	2,553	685	--	10,975	388	7,355	2,253 60,566
1991 Average.....	874	294	615	646	2,680	700	--	9,992	492	7,417	2,274 60,207
1992 Average.....	881	298	561	653	2,669	740	7,632	--	481	7,171	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	352	661	720	3,070	900	5,854	--	553	6,252	3,936 66,921
1999 Average.....	852	340	653	693	2,906	887	6,079	--	538	5,881	4,231 65,870
2000 January.....	740	350	635	680	3,032	890	6,239	--	530	R5,784	4,377 R66,163
February.....	735	350	621	680	2,897	915	6,248	--	530	R5,852	4,342 R66,784
March.....	730	350	620	660	2,998	920	6,321	--	530	R5,918	4,405 R66,816
April.....	735	350	630	660	3,041	900	6,308	--	520	R5,854	4,486 R67,467
May.....	725	350	645	660	3,040	910	6,352	--	520	R5,847	4,464 R67,950
June.....	720	340	655	670	3,056	880	6,421	--	520	R5,823	4,483 R67,748
July.....	706	320	655	670	2,876	900	6,494	--	510	R5,739	4,506 R68,378
August.....	695	320	655	720	3,162	970	6,546	--	500	R5,789	4,539 R69,164
September....	690	320	655	720	3,173	980	6,590	--	500	R5,758	4,543 R69,189
October.....	685	310	655	720	2,861	995	6,711	--	540	R5,809	4,640 R69,626
November....	680	300	662	720	2,965	1,025	6,737	--	540	R5,833	4,670 R70,174
December....	677	300	667	720	3,043	1,000	6,771	--	534	R5,855	4,674 R68,910
2000 Average.....	710	330	646	690	3,012	940	6,479	--	523	R5,822	4,511 R68,200
2001 January....	669	300	667	710	3,087	965	6,875	--	532	E5,836	R4,642 R69,129
February....	R659	296	638	710	3,136	965	6,966	--	530	E5,840	R4,682 R68,671
March.....	R655	298	R640	710	3,151	980	R6,808	--	528	RE5,878	R4,702 R69,280
April.....	652	295	664	710	3,008	1,007	6,855	--	526	RE5,862	4,707 68,122
2001 Average....	659	297	653	710	3,095	979	6,874	--	529	PE5,854	4,683 68,809

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

-- = Not applicable. R=Revised data. E=Estimated. PE=Preliminary estimate. RE=Revised estimate.

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

Sources: See end of Section 1.

Table 1.2 OPEC Crude Oil Production (Excluding Condensate), 1990-Present
 (Thousand Barrels per Day)

		Algeria	Indo-nesia	Iran	Iraq	Kuwait ^{1/}	Libya	Nigeria	Qatar	Saudi Arabia ^{1/}	United Arab Emirates	Vene-zuela	Total OPEC
1990	Average...	765	1,281	3,088	2,040	1,175	1,375	1,755	406	6,410	2,066	2,100	22,461
1991	Average...	800	1,410	3,312	305	190	1,483	1,832	395	8,115	2,326	2,338	22,506
1992	Average...	772	1,326	3,429	425	1,058	1,433	1,820	423	8,332	2,206	2,334	23,558
1993	Average...	747	1,327	3,540	512	1,852	1,361	1,835	413	8,198	2,109	2,410	24,304
1994	Average...	750	1,334	3,583	548	2,025	1,378	1,821	380	8,120	2,113	2,542	24,594
1995	Average...	767	1,343	3,608	555	2,057	1,390	1,878	407	8,231	2,148	2,710	25,094
1996	Average...	812	1,367	3,651	574	2,062	1,401	1,885	475	8,218	2,198	2,898	25,541
1997	Average...	847	1,355	3,629	1,150	2,007	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...	772	1,324	3,522	2,503	1,898	1,319	2,020	630	7,833	2,089	2,776	26,686
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
	December..	850	1,275	3,870	1,350	2,210	1,445	2,155	730	8,800	2,340	3,030	28,055
2000	Average...	809	1,286	3,684	2,566	2,126	1,410	2,034	702	8,404	2,268	2,899	28,200
2001	January...	850	1,255	3,900	1,730	2,200	1,450	2,150	740	8,700	2,360	3,050	28,385
	February..	820	1,260	3,750	2,190	2,130	1,400	2,120	700	8,320	2,300	2,980	27,970
	March.....	820	1,235	3,800	2,850	2,100	1,390	2,150	700	8,300	2,340	2,950	28,635
	April.....	805	1,210	3,750	2,925	2,010	1,380	2,070	680	7,950	2,250	2,870	27,900
2001	Average...	831	1,250	3,833	2,444	2,128	1,417	2,141	711	8,390	2,333	2,988	28,465

^{1/} 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 April 2001, Neutral Zone production by both Kuwait and Saudi Arabia totaled about 630 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 ^{1/}	Persian Gulf ^{2/}	OAPEC ^{3/}	OPEC ^{3/}	World
1990 Average.....	130	426	428	620	--	425	1,559	930	1,107	1,281	4,632
1991 Average.....	140	431	457	680	--	420	1,659	931	1,113	1,299	4,827
1992 Average.....	140	460	454	713	230	--	1,697	1,003	1,185	1,364	4,974
1993 Average.....	145	506	459	704	220	--	1,736	1,040	1,238	1,435	5,180
1994 Average.....	140	529	461	698	200	--	1,727	1,071	1,267	1,465	5,292
1995 Average.....	145	581	447	701	180	--	1,762	1,106	1,301	1,506	5,485
1996 Average.....	150	596	423	697	185	--	1,830	1,082	1,295	1,501	5,576
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	5,874
1999 Average.....	190	653	439	666	231	--	1,850	1,152	1,411	1,648	5,984
2000 January.....	190	701	463	665	238	--	R1,956	1,160	1,417	1,660	R6,258
February.....	190	694	449	665	245	--	R1,987	1,165	1,422	1,665	R6,226
March.....	190	690	436	665	239	--	R1,987	1,165	1,422	1,665	R6,198
April.....	190	663	428	685	217	--	R1,968	1,185	1,442	1,685	R6,143
May.....	190	699	444	690	231	--	R1,943	1,190	1,447	1,690	R6,154
June.....	190	665	445	695	220	--	1,922	1,195	1,452	1,695	6,121
July.....	190	675	425	705	218	--	R1,934	1,205	1,462	1,705	R6,071
August.....	190	695	431	735	225	--	R1,941	1,235	1,492	1,735	R6,145
September....	190	710	460	750	236	--	R1,923	1,250	1,507	1,750	R6,234
October.....	190	725	413	740	230	--	1,919	1,240	1,497	1,740	6,183
November.....	190	725	420	740	245	--	1,876	1,240	1,497	1,740	6,290
December.....	190	750	441	735	244	--	R1,583	1,235	1,492	1,735	R6,005
2000 Average.....	190	699	438	706	232	--	R1,911	1,206	1,463	1,706	R6,168
2001 January.....	190	680	452	725	246	--	1,381	R1,253	R1,507	R1,753	R5,856
February.....	190	749	428	700	247	--	1,728	R1,228	R1,482	R1,728	R6,199
March.....	190	740	431	700	244	--	RE1,830	R1,228	R1,482	R1,718	R6,328
April.....	190	720	438	675	233	--	RE1,509	1,210	1,464	1,700	5,848
2001 Average.....	190	722	437	700	242	--	E1,610	1,230	1,484	1,725	6,056

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

2/ See Appendix A for countries in this group.

3/ OAPEC=Organization of Arab Petroleum Exporting Countries. OPEC=Organization of Petroleum Exporting Countries.

See Appendix A for countries in these groups.

-- = Not applicable. R=Revised data. E=Estimated.

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

Sources: See end of Section 1.

Table 1.4 World Oil Supply, 1990-Present
 (Thousand Barrels per Day)

	United States ^{1/}	Persian Gulf ^{2/}	OAPEC ^{3/}	OPEC ^{3/}	World
1990 Average.....	9,677	16,249	17,232	24,536	66,743
1991 Average.....	9,883	15,704	16,747	24,625	66,617
1992 Average.....	9,768	17,010	17,871	25,818	66,941
1993 Average.....	9,602	17,792	18,505	26,610	67,335
1994 Average.....	9,413	18,072	18,745	27,031	68,246
1995 Average.....	9,400	18,351	19,069	27,566	69,868
1996 Average.....	9,445	18,486	19,237	28,018	71,397
1997 Average.....	9,461	19,284	20,067	29,355	73,658
1998 Average.....	9,278	20,599	21,282	30,492	75,124
1999 Average.....	8,993	19,856	20,542	29,283	74,184
2000 January.....	R9,030	19,678	20,330	28,941	R74,875
February.....	R9,129	20,193	20,830	29,586	R75,464
March.....	R9,238	20,098	20,530	29,521	R75,511
April.....	R9,154	20,883	21,413	30,496	R76,106
May.....	R9,140	21,418	21,942	31,071	R76,619
June.....	R9,078	20,953	21,482	30,686	R76,367
July.....	R8,978	21,188	21,653	30,986	R76,918
August.....	R9,017	22,183	22,635	31,976	R77,761
September.....	R9,054	22,243	22,685	31,986	R77,960
October.....	R9,077	22,333	22,760	32,246	R78,322
November.....	R9,086	22,253	22,675	32,201	R79,005
December.....	R8,721	20,763	21,121	30,771	R77,362
2000 Average.....	R9,058	21,183	21,672	30,874	R76,858
2001 January.....	E8,508	R21,110	R21,431	R31,129	R77,441
February.....	E8,889	R20,845	R21,224	R30,689	R77,355
March.....	RE8,990	R21,545	R21,858	R31,324	R78,054
April.....	RE8,652	21,002	21,335	30,571	76,415
2001 Average.....	PE8,757	21,134	21,469	30,937	77,323

^{1/} U.S. geographic coverage is the 50 States and the District of Columbia. Beginning in 1993, includes fuel ethanol blended into finished motor gasoline and oxygenate production from merchant MTBE plants.

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

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

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

Notes: •Oil Supply includes crude oil, natural gas plant liquids, other liquids, and refinery gain. See Explanatory Note 1 in Appendix B. •Monthly data are often preliminary and also may not average to the annual total due to rounding. See Section 4 for historical series.

Sources: See end of Section 1.

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

		France	Italy	Germany ^{1/}	United Kingdom	OECD Europe ^{2/}	United States ^{3/}	Canada	Japan	Other ^{4/}	Total OECD
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.....	163	148	287	104	1,232	1,493	108	629	69	3,530
2000	January.....	166	153	297	104	1,253	R1,477	108	622	69	R3,528
	February.....	167	149	288	106	1,244	R1,466	108	613	72	R3,503
	March.....	170	154	284	106	1,243	R1,476	110	606	66	R3,501
	April.....	171	152	281	104	1,222	R1,505	112	618	69	R3,527
	May.....	172	148	280	97	1,207	R1,518	110	634	72	R3,541
	June.....	174	152	277	99	1,223	R1,526	111	632	71	R3,563
	July.....	171	150	280	105	1,243	R1,540	117	639	77	R3,615
	August.....	171	153	274	101	1,237	R1,532	117	639	66	R3,591
	September....	172	156	274	99	1,241	R1,527	116	627	76	R3,587
	October.....	170	160	276	102	1,245	R1,507	114	642	71	R3,578
	November....	171	162	272	100	1,245	R1,505	116	645	77	R3,588
	December....	174	157	271	103	1,260	R1,468	115	634	70	R3,547
2001	January.....	168	157	273	99	R1,240	1,477	117	628	71	R3,534
	February....	172	157	275	101	1,254	1,471	117	620	71	3,534

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

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

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

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

R=Revised data.

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

Sources: See end of Section 1.

Table 1.6 Commercial and Government-Owned Oil Stocks in OECD Countries (End of December 2000)
(Million Barrels)

Country	Commercial	Government Owned	Total
Canada.....	115	0	115
United States ^{1/}	R927	541	R1,468
United States Territories.....	19	0	19
Japan.....	322	312	634
Australia/New Zealand.....	51	NA	51
Austria.....	23	0	23
Belgium/Luxembourg.....	33	0	33
Denmark.....	20	0	20
Finland.....	27	0	27
France.....	174	0	174
Germany ^{2/}	216	55	271
Greece.....	27	NA	27
Ireland.....	6	3	9
Italy.....	151	6	157
Netherlands.....	99	0	99
Norway.....	52	0	52
Portugal.....	24	0	24
Spain.....	118	0	118
Sweden.....	34	0	34
Switzerland.....	37	0	37
Turkey.....	55	0	55
United Kingdom.....	103	0	103
OECD Europe.....	1,196	64	1,260
Total OECD.....	R2,630	917	R3,547

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

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

NA=Not Available. R=Revised data.

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

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

Sources: See end of Section 1.

Table 1.7. OECD Oil Demand, 1990-Present
 (Thousand Barrels per Day)

		France	Italy	Germany ^{1/}	United Kingdom	OECD Europe ^{2/}	United States ^{3/}	Canada	Japan	Other ^{4/}	Total OECD
1990	Average....	1,818	1,872	2,382	1,752	12,629	16,988	1,690	5,140	1,027	37,475
1991	Average....	1,935	1,863	2,828	1,801	13,391	16,714	1,622	5,284	1,056	38,067
1992	Average....	1,926	1,937	2,843	1,803	13,605	17,033	1,643	5,446	1,051	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	1,271	42,259
1999	Average....	2,027	1,975	2,822	1,717	14,508	19,519	1,933	5,572	1,305	42,837
2000	January....	2,144	1,911	2,393	1,649	R14,021	R19,026	1,858	5,404	R1,373	R41,682
	February...	2,120	2,077	2,705	1,738	R14,952	R19,635	2,087	6,347	R1,299	R44,321
	March.....	2,101	1,982	2,736	1,833	R14,752	R19,218	1,913	6,211	R1,393	R43,487
	April.....	1,925	1,863	2,639	1,591	R13,731	R18,816	1,814	5,196	1,240	R40,797
	May.....	1,837	1,835	2,672	1,604	R13,966	R19,605	2,033	4,871	R1,297	R41,772
	June.....	1,945	1,997	2,697	1,639	R14,217	R20,054	2,004	4,880	R1,277	R42,433
	July.....	1,947	1,898	2,747	1,583	R13,867	R19,696	1,946	5,230	R1,274	R42,013
	August....	1,958	1,900	3,063	1,706	R14,731	R20,496	2,025	5,483	R1,399	R44,134
	September..	1,784	2,016	2,987	1,739	R14,619	R19,899	2,070	5,429	R1,203	R43,219
	October....	2,234	1,944	2,736	1,736	R14,687	R19,798	2,084	5,005	R1,392	R42,966
	November...	2,015	1,973	2,824	1,776	R14,687	R19,328	2,170	5,580	R1,393	R43,157
	December...	1,952	2,062	2,810	1,588	R14,368	R20,814	2,082	6,206	1,373	R44,843
	Average....	1,997	1,954	2,751	1,681	R14,381	R19,701	2,007	5,484	1,327	R42,900
2001	January...	R2,172	R1,764	R2,662	R1,693	R14,338	19,900	R2,022	R6,037	R1,349	R43,647
	February...	2,107	1,929	2,607	1,685	14,468	19,597	2,167	6,375	1,397	44,004

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

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

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

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

R=Revised data.

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

Sources: See end of Section 1.

Sources for Section 1 (Annual and Monthly Oil Data)

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

United States: Energy Information Administration (EIA), Petroleum Supply Annual 2000 and Petroleum Supply Monthly, May 2001.

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 2000 and Petroleum Supply Monthly, May 2001.

Other OECD Countries: • Organization for Economic Cooperation and Development (OECD), Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Monthly Oil Statistics data base, 1990-2001.

Oil Demand

United States: EIA, Petroleum Supply Annual 2000 and Petroleum Supply Monthly, May 2001.

Other OECD Countries: • OECD, Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Monthly Oil Statistics data base, 1990-2001.

2. International Oil Balance Data

Table 2.1 World Oil Balance, 1997-2001
 (Million Barrels Per Day)

	1997	1998	1999	2000				2001					
	Annual		Quarter		Annual		Quarter		Annual				
	Average		First	Second	Third	Fourth	Average	First	Second	Third	Fourth	Average	
Supply^{1/}													
OECD													
United States ^{2/}	9.46	9.28	8.99	9.13	9.12	9.02	8.96	9.06	8.79	NA	NA	NA	NA
Other OECD.....	10.41	10.40	10.39	11.03	10.53	10.56	10.87	10.74	10.75	NA	NA	NA	NA
Total OECD.....	19.87	19.68	19.38	20.16	19.65	19.57	19.83	19.80	19.55	NA	NA	NA	NA
Non-OECD													
OPEC.....	29.35	30.49	29.28	29.34	30.75	31.65	31.73	30.87	31.06	NA	NA	NA	NA
Former USSR.....	7.22	7.26	7.65	7.89	7.97	8.19	8.46	8.13	8.65	NA	NA	NA	NA
Other Non-OECD.....	17.22	17.70	17.87	17.89	18.00	18.14	18.20	18.06	18.37	NA	NA	NA	NA
Total Non-OECD.....	53.79	55.45	54.80	55.12	56.72	57.97	58.40	57.06	58.08	NA	NA	NA	NA
Total World Supply.....	73.66	75.12	74.18	75.28	76.37	77.54	78.22	76.86	77.63	NA	NA	NA	NA
Demand^{3/}													
OECD													
United States ^{2/}	18.62	18.92	19.52	19.29	19.49	20.03	19.99	19.70	NA	NA	NA	NA	NA
Other OECD.....	23.19	23.34	23.32	23.85	22.18	23.09	23.67	23.20	NA	NA	NA	NA	NA
Total OECD.....	41.81	42.26	42.84	43.14	41.67	43.12	43.66	42.90	NA	NA	NA	NA	NA
Non-OECD													
China.....	3.92	4.11	4.32	4.64	4.60	4.55	4.60	4.60	NA	NA	NA	NA	NA
Former USSR.....	3.88	3.77	3.73	3.85	3.70	3.70	3.70	3.74	NA	NA	NA	NA	NA
Other Non-OECD.....	23.49	23.47	24.02	24.15	24.49	24.34	24.62	24.40	NA	NA	NA	NA	NA
Total Non-OECD.....	31.28	31.35	32.07	32.65	32.79	32.60	32.92	32.74	NA	NA	NA	NA	NA
Total World Demand.....	73.09	73.61	74.91	75.79	74.46	75.72	76.58	75.64	NA	NA	NA	NA	NA
Stock Draws / Discrepancy													
Net Reported Stock Draws ^{4/}													
U. S. Commercial.....	-.15	-.22	.41	.20	-.55	.00	.33	.00	NA	NA	NA	NA	NA
U. S. Strategic.....	.01	-.02	.01	-.02	.00	-.01	.32	.07	NA	NA	NA	NA	NA
Other OECD.....	-.12	-.02	.27	.14	-.14	-.25	-.21	-.12	NA	NA	NA	NA	NA
For Export & Afloat.....	-.12	-.01	.15	-.44	-.55	-.38	.27	-.27	NA	NA	NA	NA	NA
Commr. Floating Storage...	.00	-.08	-.07	.03	.20	.09	.04	.09	NA	NA	NA	NA	NA
Total Reported Draws.....	-.39	-.36	.77	-.09	-1.03	-.55	.75	-.23	NA	NA	NA	NA	NA
Other Stock Draws and Statistical Discrepancy ^{5/}	-.17	-1.16	-.05	.60	-.87	-1.27	-2.39	-.99	NA	NA	NA	NA	NA

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

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

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

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

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

NA=Not available.

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

Sources: See end of Section 2.

Table 2.2 World Oil Supply, 1997-2001
(Million Barrels Per Day)

	1997	1998	1999	2000					2001					
	Annual		Quarter				Annual		Quarter		Annual			
	Average		First	Second	Third	Fourth	Average		First	Second	Third	Fourth	Average	
OECD														
United States ^{1/}	9.46	9.28	8.99	9.13	9.12	9.02	8.96	9.06	8.79	NA	NA	NA	NA	
Canada.....	2.62	2.69	2.62	2.71	2.71	2.74	2.80	2.74	2.84	NA	NA	NA	NA	
North Sea ^{2/}	6.20	6.18	6.32	6.66	6.18	6.18	6.45	6.37	6.36	NA	NA	NA	NA	
Other OECD.....	1.59	1.53	1.45	1.66	1.64	1.63	1.62	1.64	1.55	NA	NA	NA	NA	
Total OECD.....	19.87	19.68	19.38	20.16	19.65	19.57	19.83	19.80	19.55	NA	NA	NA	NA	
Non-OECD														
OPEC														
Crude														
Algeria.....	1.28	1.25	1.20	1.19	1.24	1.25	1.27	1.24	1.26	NA	NA	NA	NA	
Indonesia.....	1.52	1.52	1.47	1.44	1.48	1.49	1.46	1.47	1.42	NA	NA	NA	NA	
Iran.....	3.66	3.63	3.56	3.58	3.69	3.75	3.86	3.72	3.85	NA	NA	NA	NA	
Iraq.....	1.15	2.15	2.51	2.34	2.76	2.80	2.39	2.57	2.26	NA	NA	NA	NA	
Kuwait.....	2.01	2.09	1.90	2.01	2.12	2.17	2.21	2.13	2.14	NA	NA	NA	NA	
Libya.....	1.45	1.39	1.32	1.37	1.41	1.42	1.44	1.41	1.41	NA	NA	NA	NA	
Nigeria.....	2.13	2.15	2.13	2.05	2.13	2.15	2.24	2.14	2.26	NA	NA	NA	NA	
Qatar.....	.55	.70	.66	.70	.73	.75	.76	.74	.75	NA	NA	NA	NA	
Saudi Arabia..	8.36	8.39	7.83	7.86	8.18	8.73	8.83	8.40	8.44	NA	NA	NA	NA	
United Arab Emirates...	2.32	2.35	2.17	2.27	2.35	2.36	2.41	2.35	2.41	NA	NA	NA	NA	
Venezuela.....	3.28	3.17	2.83	2.83	2.93	2.98	3.06	2.95	3.04	NA	NA	NA	NA	
Natural Gas														
Plant Liquids	1.59	1.66	1.65	1.66	1.69	1.73	1.74	1.71	1.73	NA	NA	NA	NA	
Processing Gain.	.06	.06	.06	.06	.06	.06	.06	.06	.06	NA	NA	NA	NA	
Total OPEC.....	29.35	30.49	29.28	29.34	30.75	31.65	31.73	30.87	31.06	NA	NA	NA	NA	
Former USSR.....	7.22	7.26	7.65	7.89	7.97	8.19	8.46	8.13	8.65	NA	NA	NA	NA	
China.....	3.20	3.20	3.19	3.27	3.28	3.24	3.21	3.25	3.31	NA	NA	NA	NA	
Mexico.....	3.44	3.52	3.37	3.45	3.51	3.54	3.41	3.48	3.59	NA	NA	NA	NA	
Other Non-OECD....	10.58	10.98	11.30	11.16	11.20	11.37	11.59	11.33	11.47	NA	NA	NA	NA	
Total Non-OECD....	53.79	55.45	54.80	55.12	56.72	57.97	58.40	57.06	58.08	NA	NA	NA	NA	
Total Supply.....	73.66	75.12	74.18	75.28	76.37	77.54	78.22	76.86	77.63	NA	NA	NA	NA	

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

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

NA=Not available.

Notes: •Supply includes crude oil (including lease condensate), natural gas plant liquids, (except for individual OPEC countries), other 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	
OECD											
United States ^{1/}											
Commercial.....	941	997	1,076	1,048	1,067	1,040	926	907	957	957	
Strategic.....	566	563	571	572	575	575	567	569	569	570	
U. S. Territories.....	25	23	22	22	22	25	20	19	20	19	
Canada.....	103	115	118	120	118	114	108	110	111	116	
Japan.....	651	685	649	634	638	652	629	606	632	627	
OECD Europe											
France.....	158	164	161	179	177	173	163	170	174	174	
Germany.....	300	298	321	306	310	300	287	284	277	274	
Italy.....	152	147	153	149	146	150	148	154	152	156	
United Kingdom.....	108	104	108	109	102	105	104	106	99	103	
Other OECD Europe....	537	542	560	566	570	561	530	529	521	540	
Total.....	1,256	1,255	1,303	1,308	1,304	1,289	1,232	1,243	1,223	1,241	
Australia & New Zealand	49	51	44	49	51	52	48	47	51	55	
Total OECD.....	3,591	3,689	3,784	3,754	3,776	3,747	3,530	3,501	3,563	3,587	
Stocks for Export and Afloat ^{2/}	985	1,030	1,035	1,055	980	1,010	980	1,020	1,070	1,105	
Commercial Floating ^{3/}	70	70	100	94	93	102	126	123	105	97	

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

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

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

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

Sources: See end of Section 2.

Table 2.4 World Oil Demand, 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
OECD													
United States ¹ /.....	18.31	18.62	18.92	19.21	19.23	19.80	19.83	19.52	19.29	19.49	20.03	19.99	19.70
U. S. Territories.....	.26	.27	.31	.31	.33	.31	.34	.32	.37	.28	.32	.37	.34
Canada.....	1.80	1.84	1.86	1.90	1.87	1.97	1.99	1.93	1.95	1.95	2.01	2.11	2.01
Japan.....	5.87	5.71	5.51	6.17	5.02	5.24	5.86	5.57	5.98	4.98	5.38	5.60	5.48
OECD Europe ² /													
France.....	1.93	1.95	2.03	2.12	1.91	1.96	2.12	2.03	2.12	1.90	1.90	2.07	2.00
Italy.....	2.06	2.04	2.07	2.05	1.87	1.93	2.05	1.98	1.99	1.90	1.94	1.99	1.95
United Kingdom.....	1.85	1.78	1.77	1.79	1.66	1.68	1.73	1.72	1.74	1.61	1.68	1.70	1.68
Germany ³ /.....	2.91	2.90	2.92	3.09	2.53	2.73	2.94	2.82	2.61	2.67	2.93	2.79	2.75
Other OECD Europe....	5.52	5.73	5.91	6.16	5.80	5.75	6.16	5.97	6.11	5.89	5.96	6.03	6.00
Total OECD Europe....	14.27	14.41	14.70	15.21	13.76	14.06	15.01	14.51	14.57	13.97	14.40	14.58	14.38
Australia & New Zealand	.93	.95	.96	.96	.98	.97	1.03	.98	.98	1.00	.97	1.02	.99
Total OECD.....	41.43	41.81	42.26	43.76	41.19	42.35	44.04	42.84	43.14	41.67	43.12	43.66	42.90
Non-OECD													
China.....	3.61	3.92	4.11	4.36	4.32	4.28	4.32	4.32	4.64	4.60	4.55	4.60	4.60
Former USSR.....	4.02	3.88	3.77	3.88	3.58	3.65	3.80	3.73	3.85	3.70	3.70	3.70	3.74
Other Non-OECD.....	22.34	23.49	23.47	23.80	24.07	23.93	24.29	24.02	24.15	24.49	24.34	24.62	24.40
Total Non-OECD.....	29.97	31.28	31.35	32.04	31.96	31.85	32.41	32.07	32.65	32.79	32.60	32.92	32.74
Total World Demand.....	71.40	73.09	73.61	75.80	73.16	74.21	76.45	74.91	75.79	74.46	75.72	76.58	75.64

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 2000 and Petroleum Supply Monthly, May 2001.

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 2000 and Petroleum Supply Monthly, May 2001.

Other OECD Countries: • Organization for Economic Cooperation and Development (OECD), Quarterly Oil Statistics and Energy Balances, various issues.
• OECD, Monthly Oil Statistics data base, 1995-2001. 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 2000 and Petroleum Supply Monthly, May 2001.

Other OECD Countries: • OECD, Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Monthly Oil Statistics data base, 1995-2001.

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, (2000 Average)
(Million Barrels per Day)

	OECD Europe							OECD Outside Europe			
	Total		United Kingdom	France	Germany ^{1/}	Italy	Other Europe ^{2/}	United States ^{3/}	Canada	Japan	Other ^{4/}
	Total										
Total Net Imports..	22.214	7.168	-1.063	1.867	2.556	1.744	2.063	10.419	-0.851	5.486	-0.009
Imports from OPEC ^{5/}	16.384	5.907	.161	.883	.596	1.288	2.979	5.182	.305	4.438	.552
Imports from Persian Gulf ^{6/}											
Total.....	10.143	3.228	.086	.602	.129	.578	1.833	2.483	.103	4.124	.204
Bahrain.....	.014	.003	.001	.001	-	.000	.001	-.001	.000	.011	.002
Iran.....	1.287	.787	.000	.102	.018	.208	.459	.000	.000	.498	.002
Iraq.....	1.542	.760	-	.148	.004	.168	.440	.620	.047	.072	.043
Kuwait.....	1.067	.259	.016	.029	.013	.031	.170	.272	.000	.536	.000
U.A.E.....	1.387	.028	.015	.007	.000	.000	.005	.012	-	1.305	.042
Qatar.....	.464	.003	-	.002	-	-	.001	.009	-	.444	.008
Saudi Arabia.....	4.381	1.388	.054	.313	.094	.171	.756	1.571	.055	1.258	.108
Imports from OPEC-Africa											
Total.....	3.774	2.488	.052	.277	.431	.697	1.030	1.121	.093	.017	.055
Algeria.....	1.091	.809	.019	.123	.147	.129	.391	.225	.064	.002	-.009
Libya.....	1.209	1.209	.033	.060	.244	.546	.326	.000	-	-	.000
Nigeria.....	1.475	.471	.001	.094	.040	.023	.313	.896	.029	.015	.064
Imports from OPEC-South America											
Total.....	2.072	.190	.024	.004	.035	.011	.116	1.530	.110	.012	.230
Venezuela.....	2.072	.190	.024	.004	.035	.011	.116	1.530	.110	.012	.230
Imports from OPEC-Far East											
Total.....	.409	.003	-	.001	.000	.001	.001	.047	-	.294	.065
Indonesia.....	.409	.003	-	.001	.000	.001	.001	.047	-	.294	.065

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

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

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

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

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

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

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

Sources: See end of Section 3.

Table 3.2 Net Oil Imports into OECD Countries, (4th Quarter 2000)
(Million Barrels per Day)

	OECD Europe							OECD Outside Europe			
	Total		United Kingdom	France	Germany ^{1/}	Italy	Other Europe ^{2/}	United States ^{3/}	Canada	Japan	Other ^{4/}
	Total										
Total Net Imports..	22.609	7.436	-0.943	1.892	2.620	1.753	2.114	10.388	-0.924	5.584	0.126
Imports from OPEC ^{5/}	17.179	6.295	.155	.961	.609	1.357	3.213	5.353	.282	4.642	.607
Imports from Persian Gulf ^{6/}											
Total.....	10.620	3.395	.091	.651	.128	.614	1.910	2.584	.088	4.330	.224
Bahrain.....	.021	.011	.003	.002	-	.000	.006	-.001	.000	.007	.004
Iran.....	1.287	.789	.000	.101	.009	.228	.451	.000	.000	.494	.004
Iraq.....	1.591	.761	-	.157	.002	.142	.460	.589	.042	.169	.031
Kuwait.....	1.161	.243	.017	.025	.012	.032	.158	.310	.000	.608	-.001
U.A.E.....	1.416	.043	.022	.008	.000	.000	.013	.007	-	1.302	.064
Qatar.....	.480	.003	-	.000	-	-	.003	.008	-	.446	.024
Saudi Arabia.....	4.664	1.546	.050	.358	.105	.213	.819	1.671	.045	1.304	.098
Imports from OPEC-Africa											
Total.....	3.940	2.725	.044	.308	.450	.726	1.197	1.047	.078	.041	.049
Algeria.....	1.115	.825	.005	.112	.152	.134	.422	.221	.073	.000	-.004
Libya.....	1.284	1.284	.039	.053	.250	.556	.386	.000	-	-	.000
Nigeria.....	1.542	.616	.000	.142	.048	.036	.389	.827	.006	.041	.053
Imports from OPEC-South America											
Total.....	2.221	.181	.022	.002	.030	.014	.112	1.658	.116	.013	.252
Venezuela.....	2.221	.181	.022	.002	.030	.014	.112	1.658	.116	.013	.252
Imports from OPEC-Far East											
Total.....	.419	.006	-	.003	.000	.003	.000	.062	-	.265	.086
Indonesia.....	.419	.006	-	.003	.000	.003	.000	.062	-	.265	.086

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, (3rd Quarter 2000)
(Million Barrels per Day)

	OECD Europe						OECD Outside Europe				
	Total		United Kingdom	France	Germany ^{1/}	Italy	Other Europe ^{2/}	United States ^{3/}	Canada	Japan	
	Total										
Total Net Imports..	22.904	7.482	-0.998	1.729	2.738	1.745	2.268	10.876	-0.741	5.244	0.043
Imports from OPEC ^{5/}	16.647	6.020	.166	.864	.688	1.251	3.052	5.495	.315	4.227	.590
Imports from Persian Gulf ^{6/}											
Total.....	10.470	3.448	.089	.634	.172	.587	1.966	2.750	.134	3.884	.254
Bahrain.....	.012	.000	.000	.000	-	.000	.000	.000	.000	.012	.000
Iran.....	1.397	.911	.000	.105	.029	.224	.553	.000	.000	.486	.000
Iraq.....	1.718	.744	-	.155	.007	.167	.415	.764	.068	.057	.085
Kuwait.....	1.107	.295	.005	.029	.015	.021	.226	.340	.001	.476	-.005
U.A.E.....	1.370	.057	.035	.014	.000	.002	.006	.015	-	1.250	.048
Qatar.....	.456	.000	-	.000	-	-	.000	.008	-	.433	.015
Saudi Arabia.....	4.411	1.441	.049	.330	.122	.173	.766	1.623	.065	1.171	.111
Imports from OPEC-Africa											
Total.....	3.732	2.367	.047	.226	.476	.656	.963	1.231	.074	.000	.061
Algeria.....	1.093	.831	.019	.126	.187	.117	.382	.219	.045	.000	-.002
Libya.....	1.198	1.198	.028	.060	.259	.539	.313	.000	-	-	.000
Nigeria.....	1.440	.338	.000	.040	.029	.000	.269	1.012	.028	.000	.062
Imports from OPEC-South America											
Total.....	2.024	.202	.030	.005	.040	.008	.119	1.479	.107	.014	.222
Venezuela.....	2.024	.202	.030	.005	.040	.008	.119	1.479	.107	.014	.222
Imports from OPEC-Far East											
Total.....	.433	.004	-	.001	.000	.000	.003	.035	-	.341	.054
Indonesia.....	.433	.004	-	.001	.000	.000	.003	.035	-	.341	.054

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)

	2000											2001	
	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb	
Total.....	21.451	21.450	21.661	22.555	22.365	23.831	22.503	21.932	22.650	23.246	23.399	23.873	
United States ^{1/}	9.893	10.427	10.559	11.107	10.688	11.099	10.841	9.998	10.201	10.958	11.154	10.447	
Canada.....	-.849	-.871	-.908	-.762	-.683	-.740	-.800	-.947	-.800	-1.022	-.748	-.891	
OECD Europe ^{2/}	6.775	6.172	6.570	7.403	6.874	7.632	7.955	7.156	7.535	7.621	6.699	7.886	
Main European Importers													
France.....	2.077	1.793	1.879	1.678	1.723	1.777	1.685	1.858	1.921	1.899	1.799	1.953	
Germany ^{3/}	2.450	2.411	2.448	2.419	2.669	2.694	2.855	2.622	2.616	2.622	2.640	2.627	
Italy.....	1.756	1.576	1.510	1.817	1.598	1.766	1.875	1.693	1.775	1.792	1.817	2.047	
Spain.....	1.394	1.406	1.352	1.464	1.364	1.390	1.438	1.435	1.339	1.496	1.458	1.414	
Netherlands.....	.618	.875	.813	1.058	.868	1.014	.776	.685	.924	1.033	.960	.784	
European Net Exporters													
Norway.....	-3.114	-3.580	-3.160	-2.947	-3.248	-3.279	-2.775	-3.308	-3.293	-3.198	-3.909	-3.133	
United Kingdom....	-1.225	-1.179	-1.027	-1.184	-1.028	-1.050	-.915	-.859	-.856	-1.113	-.926	-.692	
Smaller European Importers													
Austria.....	.196	.188	.166	.251	.192	.210	.262	.272	.218	.213	.201	.240	
Belgium.....	.555	.600	.459	.592	.650	.696	.581	.558	.613	.640	.722	.524	
Denmark.....	-.153	-.198	-.143	-.156	-.139	-.122	-.193	-.140	-.173	-.204	-.172	-.172	
Ireland.....	.164	.098	.164	.159	.113	.117	.151	.165	.121	.132	.141	.132	
Finland.....	.071	.160	.234	.307	.260	.238	.087	.274	.278	.253	.274	.229	
Greece.....	.404	.400	.329	.388	.254	.365	.397	.345	.351	.328	.406	.360	
Iceland.....	.030	.013	.026	.013	.014	.022	.023	.019	.018	.015	.010	.011	
Luxembourg.....	.051	.045	.048	.041	.048	.047	.048	.053	.055	.052	.047	.051	
Portugal.....	.291	.299	.352	.269	.317	.399	.330	.252	.328	.331	.230	.316	
Sweden.....	.427	.395	.366	.312	.378	.361	.429	.251	.395	.337	.271	.244	
Switzerland.....	.210	.217	.251	.238	.245	.270	.289	.259	.266	.257	.291	.298	
Turkey.....	.573	.654	.504	.684	.597	.716	.611	.722	.637	.736	.437	.653	
Japan.....	5.558	6.008	5.326	4.823	5.306	5.733	4.674	5.448	5.690	5.618	5.957	6.081	
Other OECD.....	.074	-.285	.114	-.016	.180	.107	-.167	.277	.024	.072	.337	.351	

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

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

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

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

Sources: See end of Section 3.

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

	2000											2001	
	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb	
Total.....	15.708	16.088	15.558	16.505	15.944	17.560	16.431	17.241	17.090	17.203	16.896	16.484	
United States ^{1/}	5.034	5.140	4.889	5.539	5.155	5.880	5.450	5.295	5.212	5.546	5.385	4.975	
Canada.....	.338	.267	.249	.401	.352	.337	.253	.270	.291	.286	.362	.314	
OECD Europe ^{2/}	5.386	5.379	5.506	6.079	5.646	6.041	6.385	6.404	6.318	6.164	5.665	5.610	
Main European Importers													
France.....	.850	.662	.833	.984	.952	.812	.828	1.014	.856	1.011	.665	.836	
Germany ^{3/}.....	.539	.512	.611	.499	.700	.676	.687	.640	.632	.555	.529	.520	
Italy.....	1.250	1.122	1.291	1.306	1.052	1.288	1.417	1.253	1.423	1.398	1.301	1.407	
Spain.....	.883	.871	.742	.829	.724	.789	.808	.991	.869	.896	.929	.663	
Netherlands.....	.538	.645	.543	.816	.751	.644	.960	.793	.831	.701	.725	.694	
European Net Exporters													
Norway.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
United Kingdom....	.161	.147	.218	.220	.164	.169	.164	.144	.189	.133	.143	.150	
Smaller European Importers													
Austria.....	.069	.096	.058	.101	.101	.104	.072	.111	.133	.147	.074	.086	
Belgium.....	.144	.227	.256	.247	.211	.271	.380	.285	.189	.230	.295	.156	
Denmark.....	.000	.025	.032	.039	.012	.067	.020	.040	.025	.026	.031	.026	
Finland.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.002	.000	
Greece.....	.330	.381	.329	.313	.232	.207	.330	.324	.359	.298	.362	.286	
Portugal.....	.088	.048	.125	.090	.204	.300	.159	.193	.205	.131	.105	.156	
Sweden.....	.084	.060	.030	.103	.081	.179	.039	.025	.142	.083	.081	.087	
Switzerland.....	.074	.089	.077	.092	.093	.098	.103	.096	.086	.113	.111	.116	
Turkey.....	.376	.494	.360	.439	.368	.437	.418	.495	.378	.444	.313	.426	
Japan.....	4.482	4.783	4.354	3.923	4.056	4.752	3.862	4.600	4.686	4.642	4.876	5.019	
Other OECD.....	.467	.518	.559	.562	.736	.550	.480	.672	.582	.565	.608	.567	

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

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

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

NA=Not available.

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

	2000											2001	
	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb	
Total.....	9.233	10.105	9.754	10.205	9.878	11.130	10.401	10.634	10.763	10.469	10.390	10.164	
United States ^{1/}	2.202	2.395	2.208	2.586	2.609	2.822	2.821	2.505	2.469	2.774	2.436	2.334	
Canada.....	.061	.066	.062	.141	.158	.154	.088	.063	.158	.044	.186	.147	
OECD Europe ^{2/}	2.700	2.893	3.212	3.615	3.205	3.425	3.724	3.501	3.458	3.227	2.913	2.798	
Main European Importers													
France.....	.547	.435	.557	.745	.721	.567	.612	.667	.593	.690	.344	.541	
Germany ^{3/}.....	.099	.122	.166	.112	.172	.178	.166	.152	.126	.106	.101	.059	
Italy.....	.506	.406	.642	.649	.480	.568	.719	.636	.627	.580	.479	.680	
Spain.....	.341	.372	.358	.354	.268	.374	.335	.382	.350	.265	.340	.190	
Netherlands.....	.350	.495	.411	.641	.574	.486	.786	.581	.676	.513	.588	.445	
European Net Exporters													
United Kingdom....	.047	.082	.132	.146	.100	.098	.068	.075	.105	.094	.099	.109	
Smaller European Importers													
Austria.....	.035	.047	.035	.069	.039	.063	.046	.046	.058	.066	.023	.041	
Belgium.....	.123	.197	.232	.211	.187	.241	.327	.252	.185	.226	.265	.113	
Denmark.....	.000	.000	.008	.014	.012	.020	.000	.012	.006	.013	.013	.004	
Finland.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
Greece.....	.280	.370	.307	.271	.196	.194	.291	.302	.302	.254	.323	.222	
Portugal.....	.051	.027	.074	.060	.155	.173	.087	.081	.069	.089	.040	.091	
Sweden.....	.067	.010	.000	.070	.068	.131	.013	.000	.135	.067	.067	.072	
Switzerland.....	.009	.004	.012	.012	.009	.009	.007	.012	.007	.000	.000	.010	
Turkey.....	.245	.325	.279	.262	.223	.322	.266	.303	.220	.262	.231	.222	
Japan.....	4.139	4.579	4.056	3.582	3.674	4.447	3.520	4.337	4.404	4.252	4.674	4.712	
Other OECD.....	.131	.173	.215	.281	.232	.281	.249	.229	.273	.172	.180	.173	

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)

	2000											2001	
	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb	
Total Net Imports..	9.893	10.427	10.559	11.107	10.688	11.099	10.841	9.998	10.201	10.958	11.154	10.447	
Imports from OPEC ^{1/}	5.034	5.140	4.889	5.539	5.155	5.880	5.450	5.295	5.212	5.546	5.385	4.975	
Imports from Persian Gulf ^{2/}													
Total.....	2.202	2.395	2.208	2.586	2.609	2.822	2.821	2.505	2.469	2.774	2.436	2.334	
Bahrain.....	.000	.000	-.003	.000	.000	.000	-.001	.000	.000	-.003	.000	.000	
Iran.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
Iraq.....	.468	.657	.438	.830	.762	.765	.765	.653	.585	.528	.294	.236	
Kuwait.....	.162	.264	.170	.210	.264	.405	.352	.337	.248	.344	.242	.280	
U.A.E.....	.017	-.005	.028	.024	.021	-.003	.028	.009	.006	.005	.135	.041	
Qatar.....	.009	.013	.009	.010	.008	.006	.010	.007	.015	.003	.007	.000	
Saudi Arabia.....	1.546	1.466	1.566	1.512	1.554	1.649	1.667	1.499	1.615	1.897	1.758	1.777	
Imports from OPEC-Africa													
Total.....	1.237	1.143	1.183	1.411	1.100	1.358	1.236	1.155	1.063	.925	1.159	1.115	
Algeria.....	.199	.195	.270	.222	.205	.236	.216	.210	.212	.240	.286	.223	
Libya.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
Nigeria.....	1.038	.948	.913	1.189	.895	1.122	1.020	.945	.851	.685	.873	.892	
Imports from OPEC-South America													
Total.....	1.550	1.511	1.461	1.496	1.429	1.639	1.365	1.598	1.624	1.752	1.742	1.453	
Venezuela.....	1.550	1.511	1.461	1.496	1.429	1.639	1.365	1.598	1.624	1.752	1.742	1.453	
Imports from OPEC-Far East													
Total.....	.045	.091	.034	.046	.017	.061	.027	.037	.056	.092	.048	.073	
Indonesia.....	.045	.091	.034	.046	.017	.061	.027	.037	.056	.092	.048	.073	

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

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

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

Sources: See end of Section 3.

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

	2000											2001	
	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb	
Total Net Imports..	5.558	6.008	5.326	4.823	5.306	5.733	4.674	5.448	5.690	5.618	5.957	6.081	
Imports from OPEC ¹ /	4.482	4.783	4.354	3.923	4.056	4.752	3.862	4.600	4.686	4.642	4.876	5.019	
Imports from Persian Gulf ² /													
Total.....	4.139	4.579	4.056	3.582	3.674	4.447	3.520	4.337	4.404	4.252	4.674	4.712	
Bahrain.....	.000	.015	.016	.000	.013	.016	.007	.014	.008	.000	.021	.008	
Iran.....	.492	.582	.380	.425	.474	.511	.472	.475	.660	.351	.652	.598	
Iraq.....	.119	.000	.000	.067	.000	.108	.064	.191	.205	.110	.000	.000	
Kuwait.....	.538	.578	.510	.488	.410	.576	.441	.633	.535	.655	.595	.709	
U.A.E.....	1.129	1.612	1.253	1.242	1.221	1.363	1.162	1.262	1.321	1.325	1.450	1.536	
Qatar.....	.444	.488	.439	.358	.507	.405	.385	.505	.382	.447	.557	.537	
Saudi Arabia.....	1.416	1.304	1.457	1.002	1.049	1.470	.988	1.256	1.293	1.363	1.399	1.323	
Imports from OPEC-Africa													
Total.....	.000	.007	.000	.016	.000	.000	.000	.000	.063	.061	.000	.000	
Algeria.....	.000	.007	.000	.016	.000	.000	.000	.000	.000	.000	.000	.000	
Nigeria.....	.000	.000	.000	.000	.000	.000	.000	.000	.063	.061	.000	.000	
Imports from OPEC-South America													
Total.....	.013	.014	.013	.013	.020	.000	.022	.020	.019	.000	.020	.021	
Venezuela.....	.013	.014	.013	.013	.020	.000	.022	.020	.019	.000	.020	.021	
Imports from OPEC-Far East													
Total.....	.330	.199	.301	.311	.375	.320	.326	.257	.207	.329	.203	.295	
Indonesia.....	.330	.199	.301	.311	.375	.320	.326	.257	.207	.329	.203	.295	

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

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

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

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

Sources: See end of Section 3.

Sources for Section 3 (International Oil Imports)

Oil Imports

United States: • Energy Information Administration (EIA), Petroleum Supply Annual 2000 and Petroleum Supply Monthly, May 2001. Other OECD Countries: • Organization for Economic Cooperation and Development (OECD), Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Monthly Oil Statistics data base, 2000-2001.

**4. Historical Oil Data Series
1970-2000**

Table 4.4 World Oil Supply, 1970-2000
 (Thousands Barrels per Day)

	United States ^{1/}	Persian Gulf ^{2/}	OAPEC ^{3/}	OPEC ^{3/}	World
1970 Average.....	11,673	13,541	14,571	23,567	48,986
1971 Average.....	11,554	15,940	15,427	25,514	51,766
1972 Average.....	11,601	17,734	16,451	27,228	54,574
1973 Average.....	11,428	20,895	18,656	31,015	59,300
1974 Average.....	10,978	21,550	18,399	30,762	59,391
1975 Average.....	10,505	19,223	16,831	27,218	56,511
1976 Average.....	10,251	21,847	19,563	30,841	61,121
1977 Average.....	10,437	22,098	20,372	31,443	63,665
1978 Average.....	10,820	21,067	19,819	30,120	64,225
1979 Average.....	10,707	21,569	22,575	31,300	66,973
1980 Average.....	10,809	18,541	20,715	27,419	64,139
1981 Average.....	10,739	15,894	17,619	23,393	60,746
1982 Average.....	10,783	12,815	13,786	19,702	58,215
1983 Average.....	10,788	11,676	12,416	18,352	58,046
1984 Average.....	11,107	11,433	12,619	18,389	59,638
1985 Average.....	11,192	10,320	11,498	17,151	59,249
1986 Average.....	10,905	12,441	13,653	19,310	61,758
1987 Average.....	10,648	12,869	13,992	19,589	62,418
1988 Average.....	10,473	14,310	15,662	21,465	64,690
1989 Average.....	9,880	15,733	16,658	23,323	65,877
1990 Average.....	9,677	16,249	17,232	24,536	66,743
1991 Average.....	9,883	15,704	16,747	24,625	66,617
1992 Average.....	9,768	17,010	17,871	25,818	66,941
1993 Average.....	9,602	17,792	18,505	26,610	67,335
1994 Average.....	9,413	18,072	18,745	27,031	68,246
1995 Average.....	9,400	18,351	19,069	27,566	69,868
1996 Average.....	9,445	18,486	19,237	28,018	71,397
1997 Average.....	9,461	19,284	20,067	29,355	73,658
1998 Average.....	9,278	20,599	21,282	30,492	75,124
1999 Average.....	8,993	19,856	20,542	29,283	74,184
2000 Average P.....	R9,058	21,183	21,672	30,874	R76,858

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

2/ See Appendix A for countries in this group.

3/ OAPEC=Organization of Arab Petroleum Exporting Countries. OPEC=Organization of Petroleum Exporting Countries.

See Appendix A for countries in these groups.

P=Preliminary. R=Revised data.

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

Sources: See end of Section 4.

Table 4.10 United States--Net Oil Imports, 1990-2000
 (Million Barrels per Day)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Average											
Total Net Imports..	7.161	6.626	6.938	7.618	8.054	7.886	8.498	9.158	9.764	9.912	10.419
Imports from OPEC ^{1/}	4.172	3.918	3.888	4.103	4.036	3.979	4.194	4.542	4.881	4.934	5.182
Imports from Persian Gulf ^{2/}											
Total.....	1.961	1.835	1.774	1.775	1.722	1.563	1.594	1.747	2.131	2.459	2.483
Bahrain.....	-.001	-.001	-.002	-.002	-.002	-.003	-.002	-.002	-.001	.000	-.001
Iran.....	.000	.032	.000	.000	.000	.000	.000	.000	.000	.000	.000
Iraq.....	.518	.000	.000	.000	.000	.000	.001	.089	.336	.725	.620
Kuwait.....	.086	.006	.051	.353	.312	.218	.236	.253	.301	.248	.272
U.A.E.....	.016	.001	.004	.009	.011	.004	-.003	-.003	.000	-.002	.012
Qatar.....	.004	.000	.001	.001	.000	.000	.000	.004	.004	.010	.009
Saudi Arabia.....	1.339	1.797	1.720	1.414	1.402	1.344	1.363	1.406	1.491	1.477	1.571
Imports from OPEC-Africa											
Total.....	1.080	.956	.876	.956	.880	.859	.872	.979	.983	.915	1.121
Algeria.....	.280	.253	.196	.220	.243	.234	.256	.285	.290	.259	.225
Libya.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Nigeria.....	.800	.703	.680	.736	.637	.625	.616	.694	.693	.656	.896
Imports from OPEC-South America											
Total.....	1.016	1.020	1.161	1.295	1.322	1.468	1.667	1.758	1.701	1.481	1.530
Venezuela.....	1.016	1.020	1.161	1.295	1.322	1.468	1.667	1.758	1.701	1.481	1.530
Imports from OPEC-Far East											
Total.....	.113	.106	.075	.074	.109	.087	.058	.057	.065	.080	.047
Indonesia.....	.113	.106	.075	.074	.109	.087	.058	.057	.065	.080	.047

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, 1990-2000
(Million Barrels per Day)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Average											
Total Net Imports..	5.239	5.237	5.413	5.415	5.711	5.662	5.736	5.762	5.352	5.463	5.486
Imports from OPEC ^{1/}	4.062	4.026	4.198	4.245	4.495	4.467	4.470	4.699	4.467	4.403	4.438
Imports from Persian Gulf ^{2/}											
Total.....	3.394	3.370	3.586	3.721	3.946	3.979	4.025	4.304	4.132	4.051	4.124
Bahrain.....	.037	.037	.029	.025	.028	.029	.033	.023	.016	.017	.011
Iran.....	.385	.383	.362	.384	.459	.399	.451	.461	.473	.502	.498
Iraq.....	.146	.000	.000	.000	.000	.000	.000	.015	.017	.099	.072
Kuwait.....	.291	.014	.220	.368	.430	.501	.500	.557	.507	.515	.536
U.A.E.....	1.032	1.285	1.256	1.287	1.398	1.420	1.396	1.441	1.402	1.266	1.305
Qatar.....	.263	.285	.300	.330	.328	.335	.335	.364	.450	.442	.444
Saudi Arabia.....	1.240	1.367	1.420	1.327	1.303	1.296	1.310	1.441	1.268	1.210	1.258
Imports from OPEC-Africa											
Total.....	.011	.011	.007	.008	.017	.026	.032	.036	.025	.038	.017
Algeria.....	.010	.010	.007	.008	.012	.011	.012	.014	.012	.013	.002
Nigeria.....	.001	.001	.000	.000	.005	.016	.020	.023	.013	.025	.015
Imports from OPEC-South America											
Total.....	.011	.010	.010	.009	.009	.002	.003	.003	.000	.001	.012
Venezuela.....	.011	.010	.010	.009	.009	.002	.003	.003	.000	.001	.012
Imports from OPEC-Far East											
Total.....	.682	.673	.624	.533	.551	.488	.442	.380	.326	.329	.294
Indonesia.....	.682	.673	.624	.533	.551	.488	.442	.380	.326	.329	.294

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, 1990-2000
 (Million Barrels per Day)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Average											
Total Net Imports..	8.201	8.452	8.325	7.990	7.216	7.092	7.198	7.196	7.743	7.037	7.168
Imports from OPEC ^{1/}	6.633	6.728	6.758	6.794	6.385	6.154	6.053	6.259	6.693	5.920	5.907
Imports from Persian Gulf ^{2/}											
Total.....	3.908	3.660	3.666	4.048	3.506	3.365	3.171	3.469	3.953	3.301	3.228
Bahrain.....	.020	.002	.003	.004	.003	.000	.001	.001	.004	.001	.003
Iran.....	1.190	1.132	1.113	1.253	1.074	1.149	1.059	.942	1.021	.940	.787
Iraq.....	.591	.000	.000	.001	.000	.000	.006	.336	.724	.808	.760
Kuwait.....	.346	.019	.142	.461	.302	.269	.288	.249	.275	.223	.259
U.A.E.....	.446	.281	.199	.092	.067	.011	.004	.009	.019	.006	.028
Qatar.....	.026	.009	.006	.000	.000	.002	.002	.000	.000	.000	.003
Saudi Arabia.....	1.290	2.217	2.203	2.237	2.060	1.933	1.811	1.932	1.910	1.324	1.388
Imports from OPEC-Africa											
Total.....	2.509	2.818	2.818	2.491	2.644	2.500	2.644	2.568	2.505	2.403	2.488
Algeria.....	.683	.757	.772	.693	.690	.724	.746	.681	.708	.706	.809
Libya.....	1.267	1.332	1.361	1.193	1.233	1.201	1.204	1.268	1.297	1.251	1.209
Nigeria.....	.559	.729	.686	.605	.721	.575	.694	.620	.501	.446	.471
Imports from OPEC-South America											
Total.....	.227	.249	.268	.240	.219	.273	.206	.206	.215	.212	.190
Venezuela.....	.227	.249	.268	.240	.219	.273	.206	.206	.215	.212	.190
Imports from OPEC-Far East											
Total.....	.008	.002	.009	.019	.019	.017	.033	.017	.024	.005	.003
Indonesia.....	.008	.002	.009	.019	.019	.017	.033	.017	.024	.005	.003

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, 1990-2000
 (Million Barrels per Day)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Average											
Total Net Imports..	1.750	1.851	1.766	1.741	1.596	1.702	1.716	1.747	1.855	1.862	1.867
Imports from OPEC ^{1/}	1.101	1.021	.932	1.006	.956	.911	.897	.899	1.029	.918	.883
Imports from Persian Gulf ^{2/}											
Total.....	.864	.708	.640	.757	.651	.647	.573	.617	.729	.629	.602
Bahrain.....	.011	.000	.001	.002	.000	.000	.001	.000	.002	.001	.001
Iran.....	.182	.171	.151	.243	.156	.208	.172	.127	.157	.137	.102
Iraq.....	.062	.000	.000	.000	.000	.000	.000	.078	.171	.148	.148
Kuwait.....	.015	.011	.029	.032	.016	.022	.017	.017	.019	.037	.029
U.A.E.....	.233	.064	.033	.025	.003	.002	.001	.000	.012	.001	.007
Qatar.....	.022	.003	.002	.000	.000	.000	.000	.000	.000	.000	.002
Saudi Arabia.....	.339	.459	.424	.454	.477	.416	.381	.393	.369	.304	.313
Imports from OPEC-Africa											
Total.....	.233	.296	.281	.242	.301	.262	.323	.282	.301	.284	.277
Algeria.....	.092	.107	.105	.066	.089	.103	.105	.131	.115	.117	.123
Libya.....	.079	.104	.087	.063	.059	.043	.051	.060	.061	.067	.060
Nigeria.....	.062	.084	.090	.112	.153	.115	.168	.091	.126	.099	.094
Imports from OPEC-South America											
Total.....	.015	.017	.011	.010	.003	.002	.001	.000	.000	.002	.004
Venezuela.....	.015	.017	.011	.010	.003	.002	.001	.000	.000	.002	.004
Imports from OPEC-Far East											
Total.....	.000	.001	.001	.000	.000	.000	.000	.000	.000	.004	.001
Indonesia.....	.000	.001	.001	.000	.000	.000	.000	.000	.000	.004	.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 4.15 Italy--Net Oil Imports, 1990-2000
 (Million Barrels per Day)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Average											
Total Net Imports..	1.788	1.750	1.819	1.728	1.760	1.802	1.773	1.775	1.809	1.731	1.744
Imports from OPEC ^{1/}	1.375	1.393	1.343	1.222	1.117	1.203	1.244	1.353	1.421	1.234	1.288
Imports from Persian Gulf ^{2/}											
Total.....	.626	.595	.573	.548	.430	.494	.502	.583	.658	.570	.578
Bahrain.....	.000	.001	.001	.000	.000	.000	.001	.000	.002	.000	.000
Iran.....	.192	.231	.239	.221	.143	.233	.263	.258	.273	.269	.208
Iraq.....	.079	.000	.000	.000	.000	.000	.000	.033	.108	.130	.168
Kuwait.....	.063	.000	.007	.012	.001	.000	.000	.000	.000	.003	.031
U.A.E.....	.075	.044	.013	.002	.000	.000	.000	.000	.000	.000	.000
Qatar.....	.000	.004	.001	.000	.000	.002	.002	.000	.000	-	-
Saudi Arabia.....	.216	.315	.312	.313	.286	.260	.236	.291	.274	.169	.171
Imports from OPEC-Africa											
Total.....	.740	.793	.757	.653	.660	.679	.714	.745	.723	.655	.697
Algeria.....	.155	.155	.140	.096	.099	.100	.110	.086	.083	.111	.129
Libya.....	.556	.581	.584	.542	.543	.562	.580	.609	.601	.516	.546
Nigeria.....	.029	.057	.034	.015	.018	.017	.025	.050	.039	.027	.023
Imports from OPEC-South America											
Total.....	.007	.004	.005	.002	.007	.014	.008	.012	.020	.007	.011
Venezuela.....	.007	.004	.005	.002	.007	.014	.008	.012	.020	.007	.011
Imports from OPEC-Far East											
Total.....	.003	.001	.009	.019	.019	.015	.021	.014	.023	.001	.001
Indonesia.....	.003	.001	.009	.019	.019	.015	.021	.014	.023	.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.

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, 1990-2000
 (Million Barrels per Day)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	Average										
Total.....	1.276	0.000	0.000	0.001	0.000	0.000	0.007	0.458	1.109	1.707	1.542
United States ¹ /.....	.518	.000	.000	.000	.000	.001	.089	.336	.725	.620	
Canada.....	.011	.000	.000	.000	.000	.000	.014	.014	.027	.047	
OECD Europe ² /.....	.591	.000	.000	.001	.000	.000	.006	.336	.724	.808	.760
Main European Importers											
France.....	.062	.000	.000	.000	.000	.000	.000	.078	.171	.148	.148
Germany ³ /.....	.004	.000	.000	.000	.000	.000	.000	.001	.020	.017	.004
Italy.....	.079	.000	.000	.000	.000	.000	.000	.033	.108	.130	.168
Netherlands.....	.117	.000	.000	.000	.000	.000	.000	.024	.113	.170	.081
Spain.....	.063	.000	.000	.000	.000	.000	.002	.074	.130	.123	.122
European Net Exporters											
United Kingdom....	.027	.000	.000	.000	.000	.000	.000	.000	-	-	-
Smaller European Importers											
Austria.....	.000	.000	.000	.001	.000	.000	.000	.017	.031	.035	.038
Belgium.....	.029	.000	.000	.000	.000	.000	.000	.010	.047	.027	.037
Denmark.....	.000	.000	.000	.000	.000	.000	.000	.000	-	-	-
Greece.....	.044	.000	.000	.000	.000	.000	.000	.013	.013	.029	.035
Portugal.....	.019	.000	.000	.000	.000	.000	.000	.011	.029	.031	.014
Sweden.....	.000	.000	.000	.000	.000	.000	.000	.000	-	-	.007
Switzerland.....	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.000
Turkey.....	.146	.000	.000	.000	.000	.000	.003	.074	.063	.097	.108
Japan.....	.146	.000	.000	.000	.000	.000	.000	.015	.017	.099	.072
Other OECD.....	.011	.000	.000	.000	.000	.000	.000	.005	.017	.048	.043

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 4.17 OECD Imports from Kuwait, 1990-2000
(Million Barrels per Day)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	Average										
Total.....	0.740	0.039	0.414	1.191	1.081	0.997	1.034	1.065	1.089	0.993	1.067
United States ^{1/}.....	.086	.006	.051	.353	.312	.218	.236	.253	.301	.248	.272
Canada.....	.004	-	-	.000	.027	.000	.000	.000	.000	.001	.000
OECD Europe ^{2/}.....	.346	.019	.142	.461	.302	.269	.288	.249	.275	.223	.259
Main European Importers											
France.....	.015	.011	.029	.032	.016	.022	.017	.017	.019	.037	.029
Germany ^{3/}.....	.013	.000	.009	.022	.026	.015	.016	.012	.016	.015	.013
Italy.....	.063	.000	.007	.012	.001	.000	.000	.000	.000	.003	.031
Netherlands.....	.151	.002	.052	.254	.179	.176	.193	.168	.176	.142	.150
Spain.....	.010	.003	.000	.015	.000	.000	.000	.000	.000	.004	.002
European Net Exporters											
Norway.....	-	-	-	.000	.000	.000	.000	.000	.000	-	-
United Kingdom....	.045	.002	.027	.049	.058	.039	.032	.031	.025	.005	.016
Smaller European Importers											
Austria.....	.000	.000	.000	.000	.000	.000	.000	.000	-	-	-
Belgium.....	.000	.001	.006	.056	.005	.004	.015	.004	.014	.001	.000
Denmark.....	.034	.000	.000	.000	.000	.000	.000	.002	.007	.000	.004
Finland.....	-	.000	-	-	-	-	-	-	.001	.000	.000
Greece.....	.000	.000	.002	.005	.001	.000	.000	.000	.000	.001	.001
Portugal.....	.002	.000	.000	.000	.000	.000	.000	.000	-	-	-
Sweden.....	.001	.000	.000	.002	.000	.000	.000	.000	.000	.000	.000
Switzerland.....	-	.000	.000	.000	.000	.000	.000	.000	.000	-	-
Turkey.....	.011	.000	.010	.016	.016	.014	.015	.014	.016	.015	.013
Japan.....	.291	.014	.220	.368	.430	.501	.500	.557	.507	.515	.536
Other OECD.....	.013	.000	.000	.009	.011	.009	.010	.006	.006	.007	.000

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

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

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

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 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 2000; • 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 2000.

Other OECD Countries: • 1973-1982: Organization for Economic Cooperation and Development (OECD), Quarterly Oil Statistics and Energy Balances, various issues. • 1983-2000: OECD, Monthly Oil Statistics in the EIA, International Energy Database.

Oil Demand

United States: EIA, Petroleum Supply Annual 2000.

Other OECD Countries: • 1973-1981: OECD, Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Annual Oil Statistics data base, 1970-1979. • 1982-2000: OECD, Monthly Oil Statistics in the EIA International Energy Database.

Oil Imports

United States: Energy Information Administration (EIA), Petroleum Supply Annual 2000.

Other OECD Countries: • Organization for Economic Cooperation and Development (OECD), Quarterly Oil Statistics and Energy Balances, various issues. • OECD Monthly Oil Statistics database, 1991-2000.

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, South Korea, 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 December 2000 United States (including territories) oil stocks totaled 1,330 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 1999 and earlier years, for all countries, may be found in EIA's International Energy Annual 1999, published in February 2001, 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 1998, and preliminary demand data for all countries for 1999. 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 1998 and earlier years match the demand numbers in the WORLD ENERGY database on EIA's home page. Numbers for 1999 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, 1990-1999

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
North America										
Canada	7.186	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
Central & South America										
Argentina	7.120	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	7.056	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	7.080	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	6.890	6.890	6.890	6.890	6.890	6.890	6.890	6.890	6.890	6.890
Western Europe										
Austria	7.200	7.200	7.200	7.200	7.200	7.200	7.200	7.200	7.200	7.200
Denmark	7.405	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	7.330
Germany, East	7.340	--	--	--	--	--	--	--	--	--
Germany, West	7.247	--	--	--	--	--	--	--	--	--
Greece	7.231	7.231	7.231	7.231	7.231	7.231	7.231	7.231	7.231	7.231
Italy	7.300	7.300	7.300	7.300	7.300	7.300	7.300	7.300	7.300	7.300
Netherlands	7.239	7.239	7.239	7.239	7.239	7.239	7.239	7.239	7.239	7.239
Norway	7.644	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	6.623	6.623	6.623	6.623	6.623	6.623	6.623	6.623	6.623	6.623
Turkey	7.200	7.200	7.200	7.200	7.200	7.200	7.200	7.200	7.200	7.200
United Kingdom	7.523	7.523	7.523	7.523	7.523	7.523	7.523	7.523	7.523	7.523
Former Yugoslavia	7.418	7.418	--	--	--	--	--	--	--	--
Croatia	--	--	7.418	7.418	7.418	7.418	7.418	7.418	7.418	7.418
Serbia and Montenegro	--	--	7.418	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	7.418

-- = No Production of this form of energy.

Sources: International Energy Annual 1999. DOE/EIA-0219(99) (February 2001).

Table E2. Barrels of Crude Oil per Metric Ton, 1990-1999 (continued)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Eastern Europe & Former U.S.S.R.										
Albania	6.594	6.594	6.594	6.594	6.594	6.594	6.594	6.594	6.594	6.594
Bulgaria	7.332	7.332	7.332	7.332	7.332	7.332	7.332	7.332	7.332	7.332
Former Czechoslovakia	6.780	6.780	6.780	--	--	--	--	--	--	--
Czech Republic	--	--	--	6.780	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	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	--	--	--	--	--	--	--	--
Azerbaijan	--	--	7.270	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	7.270
Georgia	--	--	7.270	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	7.270
Kazakhstan	--	--	7.270	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	7.270
Russia	--	--	7.270	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	7.270
Turkmenistan	--	--	7.270	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	7.270
Uzbekistan	--	--	7.270	7.270	7.270	7.270	7.270	7.270	7.270	7.270
Middle East										
Bahrain	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320
Iran	7.350	7.350	7.350	7.350	7.350	7.350	7.350	7.350	7.350	7.350
Iraq	7.430	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	7.250	7.250	7.250	7.250	7.250	7.250	7.250	7.250	7.250	7.250
Oman	7.330	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	7.323	7.323	7.323	7.323	7.323	7.323	7.323	7.323	7.323	7.323
Syria	7.290	7.290	7.290	7.290	7.290	7.290	7.290	7.290	7.290	7.290
United Arab Emirates	7.596	7.596	7.596	7.596	7.596	7.596	7.596	7.596	7.596	7.596
Yemen	7.631	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 1999. DOE/EIA-0219(99) (February 2001).

Table E2. Barrels of Crude Oil per Metric Ton, 1990-1999 (continued)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Africa										
Algeria	8.130	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	7.410	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	7.260	7.260	7.260
Equatorial Guinea	--	8.077	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	7.285
Libya	7.580	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	7.500	7.500	7.500
South Africa	--	--	--	--	--	--	--	--	7.720	7.720
Sudan	--	-	7.452	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
Far East & Oceania										
Australia	7.868	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	7.300	7.300	7.300
India	7.440	7.440	7.440	7.440	7.440	7.440	7.440	7.330	7.330	7.330
Indonesia	7.360	7.360	7.360	7.360	7.360	7.360	7.360	7.360	7.360	7.360
Japan	7.357	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	7.321	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	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 1999. DOE/EIA-0219(99) (February 2001).