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Foreword



I would like to welcome you to the 2001 edition of the OPEC Annual Statistical Bulletin, the most comprehensive package of statistical data available on the oil and gas industries of the eleven OPEC Member Countries.

One of the principle tasks of the Vienna-based OPEC Secretariat is to undertake research into the international oil industry, as well as related energy and economic areas. This requires access to a large database of statistical information, which is assembled each year and published in the Annual Statistical Bulletin (ASB). While the emphasis is on OPEC and its Member Countries, the ASB also contains information on global trends affecting the industry as a whole. Above all, we strive to be comprehensive: The print version contains information dating from 1981, while the data in the attached CD ROM dates back to 1960, the year OPEC was founded. In an effort to reach a greater audience, we have also made the print version available on our web site at www.opec.org. I am sure that this year's edition will be

as valuable a source of information on the oil and gas industry as its predecessors have been for the last four decades.

A review of the data will show that 2001 provided an excellent testing ground for OPEC's key mechanism for maintaining price stability, the OPEC Price Band. Created in response to the volatile oil market of 1998, the Price Band seeks to maintain market stability by coordinating the efforts of Member Countries to keeping prices within a fair and reasonable range of \$22 to \$28 per barrel. As can be seen in **Table 71**, the average price of OPEC's Reference Basket of crudes in 2001 was \$23.12, which represents a drop of 16 per cent from the year before. That year, prices tended towards the higher end of the band, but in 2001 crude prices sat in the lower range for most of the year before plummeting to \$17.53 in the wake of the global economic downturn and terrorist attacks on the US. **Table 13** shows that this fall in prices was coupled with an equally painful drop of about 7.0 per cent in production, which reduced the petroleum export revenues of Member Countries by a staggering \$39.1 billion in that year alone (see **Table 5**).

OPEC's efforts to stabilize prices within the Price Band forced Member Countries to cut production levels no less than four times, resulting in a cumulative reduction of 5m b/d for the year. When prices remained stubbornly low, several non-OPEC producers joined the Organization's efforts by agreeing to make their own cuts in production or exports. These combined efforts helped OPEC restore the market to an equitable and fair range, although, as they took place in December 2001, readers will have to wait until the 2002 ASB to see the results. One thing is for certain, however, that the OPEC Price Band proved a successful rallying point for efforts by both OPEC and non-OPEC producers to respond quickly to a price collapse and help restore stability to the market.

I would like to turn now to a quick overview of this year's statistical bulletin. The ASB begins with a table detailing the evolution of OPEC's production ceiling allocation since its inception in April 1982. **Section 1** contains a general summary of various economic and oil industry data with an emphasis on OPEC Member Countries. Of particular interest is the fact that the majority of our Member Countries continue to rank at the bottom half of countries listed by per capita income, posting an average GDP per capita of around \$1,600. **Section 2** presents data detailing upstream and downstream activities, with emphasis not only on OPEC but also the leading countries within each category. **Section 3** contains data on developments in transportation capacities and freight rates, while **Section 4** offers tables on the prices of crude and petroleum products. Finally, **Section 5** presents information on the evolution of financial and operational indicators related to the activities of the super major oil companies.

As you will see, the ASB not only provides a valuable and comprehensive source of data for the oil and gas industry, but also illustrates the vital role OPEC plays in the world energy industry. This role encompasses many aspects: protecting the vital interests of its Member Countries, ensuring regular supplies of petroleum to the consuming countries, and stabilizing the market at levels that are fair for both producers and consumers of oil. It is a role that the Organization will continue to refine and strengthen well into the future.

Dr Alí Rodríguez Araque
Secretary General*

* Dr Rodríguez stepped down as Secretary General in June 2002 to head the Venezuela's national oil company, *Petroleos de Venezuela, SA*.

General notes

Definitions

Proven reserves: an estimated quantity of all hydrocarbons statistically defined as crude oil or natural gas, which geological and engineering data demonstrate with reasonable certainty to be recoverable in future years from known reservoirs under existing economic and operating conditions. Reservoirs are considered proven if economic producibility is supported by either actual production or conclusive formation testing. The area of an oil reservoir considered proven includes those portions delineated by drilling and defined by gas-oil or oil-water contacts, if any, and the immediately adjoining portions not yet drilled, but which can be reasonably judged as economically productive on the basis of available geological and engineering data. In the absence of information on fluid contacts, the lowest known structural occurrence of hydrocarbons controls the lower proven limit of the reservoir.

Crude oil: estimates include oil that can be produced economically through application of improved recovery techniques following successful completion of pilot testing. Estimates do not include:

- oil that may become available from known reservoirs but is reported separately as "indicated additional reserves";
- oil, the recovery of which is subject to reasonable doubt because of uncertainty as to geology, reservoir characteristics or economic factors;
- oil that may occur in untested prospects; and
- oil that may be recovered from oil shales, coal, gilsonite and other such sources.

Natural gas: estimates are prepared for total recoverable natural gas, non-associated gas and associated-dissolved gas. Estimates do not include gaseous equivalence of natural gas liquids expected to be recovered from reservoir natural gas as it is produced, natural gas being held in underground storage or non-hydrocarbon gases.

Rig: a derrick complete with engine-house and other equipment necessary for drilling, completing and servicing oil and gas wells.

Well (exploratory and development): a hole drilled for the purpose of finding or producing crude oil or natural gas; or providing services related to the production of crude oil and natural gas.

Completion: this term refers to the installation of permanent equipment for the production of oil or gas.

Oil or gas well: a well completed for the production of oil or gas from one or more zones or reservoirs.

Dry hole: a well found to be incapable of producing either oil or gas in sufficient quantities to justify completion as an oil or gas well.

Crude oil: a mixture of hydrocarbons that exists in a liquid phase in natural underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Production volumes reported as crude oil include:

- liquids technically defined as crude oil;
- small amounts of hydrocarbons that exist in the gaseous phase in natural underground reservoirs, but which are liquid at atmospheric pressure after being recovered from oil well (casing head) gas in lease separators;
- small amounts of non-hydrocarbons produced with the oil.

Natural gas liquids (NGLs): those reservoir gases liquefied at the surface in lease separators, field facilities or gas processing plants. NGLs consist of field condensates and natural gas plant products such as ethane, pentane, propane, butane and natural gasoline.

Natural gas: a mixture of hydrocarbon compounds and small quantities of various non-hydrocarbons existing in the gaseous phase or in solution with oil in natural underground reservoirs at reservoir conditions. The natural gas volumes in this Bulletin refer to Standard Conditions of 60° F, 14.73 psia (15.6° C, 760 mm/Hg).

Gross production: the total flow of natural gas from oil and gas reservoirs of associated-dissolved and non-associated gas.

Marketed production: corresponds to gross production, minus the volumes of gas flared or re-injected into fields, minus the shrinkage.

Re-injection: the total volume of natural gas produced from oil and gas completions, processed through gas-processing plants and field facilities, and used for gas lift, gas injection, and cycling operations.

Shrinkage: contraction due to natural gas processing, purification for the extraction of natural gas liquids.

Flared: total volume of vented or flared gas.

Refinery capacity (operable): the maximum amount of input to crude oil distillation units that can be processed in an average 24-hour period.

Barrels per calendar day (b/cd): the total number of barrels processed in a refinery within a year, divided by 365 days, thus reflecting all operational limitations.

Barrels per stream day (b/sd): the number of barrels of input that a refining facility can process within 24 hours, operating at full capacity under optimal crude and product slate conditions.

Petroleum products: products obtained from the processing of crude oil, and unfinished oils, NGLs, and other hydrocarbon compounds. These include aviation gasoline, motor gasoline, naphtha, kerosene, jet fuel, distillate fuel oil, residual fuel oil, liquefied petroleum gas, lubricants, paraffin wax, petroleum coke, asphalt and other products.

Gasoline: a mixture of relatively volatile hydrocarbons, with or without small quantities of additives, that have been blended to form a fuel suitable for use in internal combustion engines; includes gasoline used in aviation.

Kerosene: medium hydrocarbon distillates in the 150° to 280° C distillation range, and used as a heating fuel as well as for certain types of internal combustion engine; including jet fuel, which is a fuel of naphtha, or of kerosene type, suitable for commercial or military purposes in aircraft turbine engines.

Distillates: middle distillate type of hydrocarbons. Included are products similar to number one and number two heating oils and diesel fuels. These products are used for space heating, diesel engine fuel and electrical power generation.

Residual fuel oil: these are fuels obtained as liquid still bottoms from the distillation of crude used alone or in blends with heavy liquids from other refinery process operations. It is used for the generation of electric power, space heating, vessel bunkering and various industrial purposes.

Output of refined products: the total amount of petroleum products produced from refinery input in a given period, excluding refinery fuels.

Consumption of refined products: inland delivery, including refinery fuels and losses, as well as products from gas plants; excluding bunkers.

Exports of refined products: includes products from gas plants and excludes bunkers.

OPEC Basket: the OPEC Reference Basket price — which was introduced on January 1, 1987 — is the arithmetic average of seven selected crudes. These are: Saharan Blend (Algeria); Minas (Indonesia); Bonny Light (Nigeria); Arab Light (Saudi Arabia); Dubai (United Arab Emirates), Tia Juana Light (Venezuela), and Isthmus (Mexico). Mexico is not a Member of OPEC.

Posted price: announced price reflecting the market development of crude oil and products.

Composite barrel: the composite barrel is a consumption weighted average of final consumer prices (including taxes) of the main groups of refined petroleum products.

Geneva I Agreement: Agreement of January 20, 1972, between certain OPEC Member Countries and international oil companies introducing adjustments to posted prices to take account of the world currency situation. For its calculations, the Geneva I Agreement used the national currencies of Belgium, France, Germany, Italy, Japan, Netherlands, Sweden, Switzerland and the United Kingdom.

Country groupings

(OPEC Member Countries are shown in bold)

North America: Canada, Greenland, St Pierre and Miquelon, United States.

Latin America: Antigua, Argentina, Bahamas, Barbados, Belize, Bermuda, Bolivia, Brazil, British Virgin Islands, Cayman Islands, Chile, Colombia, Costa Rica, Cuba, Dominica, Dominican Republic, Ecuador, El Salvador, Falkland Islands (Malvinas), French Guiana, Grenada, Guadeloupe, Guatemala, Guyana, Haiti, Honduras, Jamaica, Martinique, Mexico, Montserrat, Netherlands Antilles, Nicaragua, Panama (including Panama Canal Zone), Paraguay, Peru, Puerto Rico, St Kitts-Nevis-Anguilla, St Lucia, St Vincent, Suriname, Trinidad & Tobago, Turks and Caicos Islands, United States Virgin Islands, Uruguay, **Venezuela**.

Eastern Europe: Albania, Bulgaria, former Czechoslovakia (Czech Republic, Slovakia), Hungary, Poland, Romania, former Union of Soviet Socialist Republics (Armenia, Azerbaijan, Belarus, Estonia, Georgia, Kazakhstan, Kirgizstan, Latvia, Lithuania, Moldova, Russia, Tajikistan, Turkmenistan, Ukraine, Uzbekistan).

Western Europe: Austria, Belgium (including Luxembourg), Cyprus, Denmark (including Faroe Islands), Finland, France (including Andorra and Monaco), Germany, Gibraltar, Greece, Iceland, Ireland, Italy (including San Marino and Vatican City State [Holy See]), Malta, Netherlands, Norway (including Svalbard and Jan Mayen Islands), Portugal, Spain (including Canary Islands), Sweden, Switzerland (including Liechtenstein), Turkey, United Kingdom, former Yugoslavia (Bosnia and Herzegovina, Croatia, Macedonia [The Former Yugoslav Republic of], Serbia and Montenegro, and Slovenia).

Middle East: Bahrain, **Islamic Republic of Iran**, **Iraq**, Jordan, **Kuwait**, Lebanon, Oman, **Qatar**, **Saudi Arabia**, Syrian Arab Republic, **United Arab Emirates** (Abu Dhabi, Ajman, Dubai, Fujairah, Ras al-Khaimah, Sharjah, Umm al-Qaiwain), Yemen.

Africa: Algeria, Angola, Benin, Botswana, British Indian Ocean Territory, Burkina Faso, Burundi, Cameroon (United Republic of), Cape Verde, Central African Republic, Chad, Comoros, Congo (Republic of the), Congo (Democratic Republic of the), Djibouti, Egypt, Equatorial Guinea, Eritrea, Ethiopia, Gabon, Gambia (The), Ghana, Guinea, Guinea-Bissau, Ivory Coast, Kenya, Lesotho, Liberia, **Socialist Peoples' Libyan Arab Jamahiriya**, Madagascar, Malawi, Mali, Mauritania, Mauritius, Morocco, Mozambique, Namibia, Niger, **Nigeria**, Reunion, Rwanda, St Helena, Sao Tome and Principe, Senegal, Seychelles, Sierre Leone, Somalia, South Africa, Sudan, Swaziland, Tanzania (United Republic of), Togo, Tunisia, Uganda, Western Sahara, Zambia, Zimbabwe.

Asia and Pacific: Afghanistan, American Samoa, Antarctica, Australia, Bangladesh, Bhutan, Brunei, Cambodia, Canton and Enderbury Islands, China (Republic of), Christmas Island, Cocos (Keeling) Islands, Cook Islands, Fiji, French Polynesia, Guam, Hong Kong, India, **Indonesia**, Japan, Johnston Island, Kiribati, Korea (Democratic People's Republic of), Korea (Republic of), Lao People's Democratic Republic, Macau, Malaysia, Maldives, Midway Islands, Mongolia, Myanmar (formerly Burma), Nauru, Nepal, New Caledonia, New Zealand, Niue, Norfolk Island, Pacific Islands (Trust Territory), Pakistan, Papua New Guinea, Philippines, Pitcairn Island, Samoa, Singapore, Solomon Islands, Sri Lanka, Taiwan, Thailand, Tokelau, Tonga, Tuvalu, Vanuatu, Vietnam, Wake Island, Wallis and Futuna Islands.

Economic organizations

Organization of the Petroleum Exporting Countries (OPEC). Members: Algeria (1969), Indonesia (1962), the Islamic Republic of Iran (1960), Iraq (1960), Kuwait (1960), the Socialist Peoples' Libyan Arab Jamahiriya (1962), Nigeria (1971), Qatar (1961), Saudi Arabia (1960), United Arab Emirates (1967), Venezuela (1960).

European Union (EU). Members: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, Netherlands, Portugal, Spain, Sweden and the United Kingdom.

Abbreviations

Symbols:

r	Revised.
na	Not available.
–	Nil or negligible.
*	Provisional or estimated figures, as of July 26, 2002.

Currencies:

\$	US dollar	QRL	Qatari riyal
€	Euro	LD	Libyan dinar
AD	Algerian dinar	N	Nigerian naira
KD	Kuwaiti dinar	SRL	Saudi Arabian riyal
RP	Indonesian rupiah	AED	UAE dirham
IR	Iranian rial	B	Venezuelan bolivar
ID	Iraqi dinar		

Miscellaneous:

b	barrel(s)	ft	feet
b/d	barrels per day	GDP	gross domestic product
b/cd	barrels per calendar day	LNG	liquefied natural gas
b/sd	barrels per stream day	LPG	liquefied petroleum gas
cif	cost, insurance and freight	NGLs	natural gas liquids
cu m	cubic metres	no	number
dwt	deadweight tonnage	NOC	national oil company
fob	free on board	t	tonne

Sources:

AOG	Arab Oil and Gas
API	American Petroleum Institute
BP Statistical Review	BP Statistical Review of World Energy
EIU	Economist Intelligence Unit
IEA	International Energy Agency
IFP	Institut Français du Pétrole
IMF	International Monetary Fund
MEES	Middle East Economic Survey
OAPEC	Organization of Arab Petroleum Exporting Countries
OECD	Organization for Economic Co-operation and Development
OGJ	Oil and Gas Journal
OLADE	Organización Latinoamericana de Energía
PIW	Petroleum Intelligence Weekly
UN	United Nations

Companies:

ADCO	Abu Dhabi Company for Onshore Oil Operations
ADMA	Abu Dhabi Marine Areas
ADMA-OPCO	Abu Dhabi Marine Operating Company
ADNOC	Abu Dhabi National Oil Company
ADOC	Abu Dhabi Oil Company
Agip	Agip SA
Agoco	Arabian Gulf Oil Company (SP Libyan AJ)
Amerada Hess	Amerada Hess Corporation
AOC	Arabian Oil Company
Aquitaine	Societe Nationale des Petroles d'Aquitaine
Aramco	Saudi Arabian Oil Company (Saudi Aramco)
Arco	Atlantic Richfield Company

Asamera	Asamera Oil
Ashland	Ashland Oil
BP	BP Amoco
Braspetro	Petrobras Internacional SA
Brega Marketing	Brega Petroleum Marketing Company
Buttes	Buttes Gas & Oil Company
Calasiatic	Calasiatic Petroleum Company
PT Caltex	PT Caltex Pacific Indonesia
ChevronTexaco	ChevronTexaco Corporation
Conoco	Continental Oil Company
Corpoven	Corpoven SA
DPC	Dubai Petroleum Company
EGPC	Egyptian General Petroleum Corporation
Elf	Elf Aquitaine
ExxonMobil	ExxonMobil Corporation
GASCO	Abu Dhabi Onshore Gas Company
Getty	Getty Oil Corporation
Gulf	Gulf Oil Corporation
Hispanoil	Hispanica de Petroleos SA
INOC	Iraq National Oil Company
Inpex	Indonesia Petroleum Ltd
JORC	Jeddah Oil Refinery Company
KNPC	Kuwait National Petroleum Company KSC
KOC	Kuwait Oil Company KSC
Lagoven	Lagoven SA
Maraven	Maraven SA
Maxus	Maxus Energy Corporation
Mobil	Mobil Oil Corporation
NIGC	National Iranian Gas Company
NIOC	National Iranian Oil Company
NNPC	Nigerian National Petroleum Corporation
NOC	National Oil Corporation (Libya)
NODCO	National Oil Distribution Company (Qatar)
Oasis	Oasis Oil Company of Libya, Inc
Occidental	Occidental Petroleum Corporation
OMV AG	Oesterreichische Mineraloelverwertung
PDVSA	Petroleos de Venezuela SA
Pertamina	Perusahaan Pertambangan Minyak Dan Gas Bumi Negara
Petromer Trend	Petromer Trend Corporation
Petromin	The General Petroleum and Mineral Organization of Saudi Arabia
Phillips	Phillips Petroleum Company
PPMC	Pipeline and Products Marketing Company (Nigeria)
QGPC	Qatar General Petroleum Corporation (now Qatar Petroleum)
Royal Dutch/Shell	Royal Dutch Petroleum Company, The Netherlands, and Shell Transport and Trading Co, UK
Sonatrach	Entreprise Nationale Sonatrach
Stancal	Standard Oil Company of California
PT Stanvac	PT Stanvac Indonesia
Tenneco	Tenneco Incorporated
Tesoro	Tesoro Indonesia Petroleum Corporation
Topco	Texas Overseas Petroleum Company
TotalFinaElf	Total Fina Elf Corporation
Union Oil	Union Oil Company of California
VOO	Veba Oil Operations (SP Libyan AJ)
Waha Oil	Waha Oil Company (SP Libyan AJ)
Wintershall	Wintershall AG
Zadco	Zakum Development Company
ZOC	Zueitina Oil Company (SP Libyan AJ)

OPEC crude oil production ceiling allocations
(1,000 b/d)

	Apr 82– Mar 83 ¹	Apr 83– Oct 84 ²	Nov 84– Oct 86 ³	Nov 86 ⁴	Dec 86 ⁴	1H87 ⁵	2H87 ⁶	1988 ⁷
Algeria	650	725	663	669	669	635	667	667
Indonesia	1,300	1,300	1,189	1,193	1,193	1,133	1,190	1,190
IR Iran	1,200	2,400	2,300	2,317	2,317	2,255	2,369	2,369
Iraq	1,200	1,200	1,200	0	0	1,466	1,540	0
Kuwait	800	1,050	900	921	999	948	996	996
SP Libyan AJ	750	1,100	990	999	999	948	996	996
Nigeria	1,300	1,300	1,300	1,304	1,304	1,238	1,301	1,301
Qatar	300	300	280	300	300	285	299	299
Saudi Arabia	7,150	5,000	4,353	4,353	4,353	4,133	4,343	4,343
United Arab Emirates	1,000	1,100	950	950	950	902	948	948
Venezuela	1,500	1,675	1,555	1,574	1,574	1,495	1,571	1,571
OPEC	17,150	17,150	15,680	14,580	14,658	15,438	16,220	14,680

	1H89 ⁸	Jul 89– Sep 89 ⁹	Oct 89– Dec 89 ¹⁰	Jan 90– Jul 90 ¹¹	Aug 90– Mar 91 ¹²	Apr 91– Sep 91 ¹³	Oct 91– Jan 92 ¹⁴	Feb 92– Sep 92 ¹⁵
Algeria	695	733	771	827	827	827	na	760
Indonesia	1,240	1,307	1,374	1,374	1,374	1,443	na	1,374
IR Iran	2,640	2,783	2,926	3,140	3,140	3,217	na	3,184
Iraq	2,640	2,783	2,926	3,140	3,140	0	na	505
Kuwait	1,037	1,093	1,149	1,500	1,500	0	na	812
SP Libyan AJ	1,037	1,093	1,149	1,233	1,233	1,425	na	1,395
Nigeria	1,355	1,428	1,501	1,611	1,611	1,840	na	1,751
Qatar	312	329	346	371	371	399	na	377
Saudi Arabia	4,524	4,769	5,014	5,380	5,380	8,034	na	7,887
United Arab Emirates	988	1,041	1,094	1,095	1,500	2,320	na	2,244
Venezuela	1,636	1,724	1,812	1,945	1,945	2,235	na	2,147
OPEC	18,104	19,083	20,062	21,616	22,021	21,740	23,650[#]	22,436

	Oct 92– Dec 92 ¹⁶	Jan 93– Feb 93 ¹⁷	Mar 93– Sep 93 ¹⁸	Oct 93– Jun 96 ¹⁹	Jul 96– Dec 97 ²⁰	Jan 98– Mar 98 ²¹	Apr 98– Jun 98 ²²	Jul 98– Mar 99 ²³
Algeria	na	764	732	750	750	909	50	788
Indonesia	na	1,374	1,317	1,330	1,330	1,456	70	1,280
IR Iran	na	3,490	3,340	3,600	3,600	3,942	140	3,318
Iraq	na	500	400	400	0	1,314	0	0
Kuwait	na	1,500	1,600	2,000	2,000	2,190	125	1,980
SP Libyan AJ	na	1,409	1,350	1,390	1,390	1,522	80	1,323
Nigeria	na	1,857	1,780	1,865	1,865	2,042	125	2,033
Qatar	na	380	364	378	378	414	30	640
Saudi Arabia	na	8,395	8,000	8,000	8,000	8,761	300	8,023
United Arab Emirates	na	2,260	2,161	2,161	2,161	2,366	125	2,157
Venezuela	na	2,360	2,257	2,359	2,359	2,583	200	2,845
OPEC	24,200[#]	24,289	23,301	24,233	25,033	27,500		
OPEC excl Iraq							1,245	24,387

OPEC crude oil production ceiling allocations (1,000 b/d)

	Apr 99– Mar 00 ²⁴	Apr 00– Jun 00 ²⁵	Jul 00– Sep 00 ²⁶	1 Oct 00– 30 Oct 00 ²⁷	31 Oct 00– Jan 01 ²⁸	Feb 01– Mar 01 ²⁹	Apr 01 Aug 01 ³⁰	Sep 01 Dec 01 ³¹
Algeria	731	788	811	837	853	805	773	741
Indonesia	1,187	1,280	1,317	1,359	1,385	1,307	1,255	1,203
IR Iran	3,359	0	3,727	3,844	3,917	3,698	3,552	3,406
Iraq	0	0	0	0	0	0	0	0
Kuwait	1,836	1,980	2,037	2,101	2,141	2,021	1,941	1,861
SP Libyan AJ	1,227	1,323	1,361	1,404	1,431	1,350	1,296	1,242
Nigeria	1,885	2,033	2,091	2,157	2,198	2,075	1,993	1,911
Qatar	593	640	658	679	692	653	627	601
Saudi Arabia	7,438	8,023	8,253	8,512	8,674	8,189	7,865	7,541
United Arab Emirates	2,000	2,157	2,219	2,289	2,333	2,201	2,113	2,025
Venezuela	2,720	2,845	2,926	3,019	3,077	2,902	2,786	2,670
OPEC excl Iraq	22,976		25,400	26,200	26,700	25,201	24,201	23,201
OPEC excl Iraq and IR Iran		21,069						

Notes:

- na Not available.
0 No production level allocated.
Including Ecuador and Gabon.

Ceiling as agreed at the:

- 63rd (Extraordinary) Meeting of the OPEC Conference, March 19–20, 1982.
- 67th (Extraordinary) Meeting of the OPEC Conference, March 14, 1983. No allocation for Saudi Arabia which will act as the swing producer. Venezuela: 1.7m b/d including condensates. Nigeria: At the 70th Meeting of the OPEC Conference, July 10–11, 1984, a temporary production rise to 1.4m b/d and 1.45m b/d was decided for August 1984 and September 1984, respectively.
- November 1984–August 1986: 71st (Extraordinary) Meeting of the OPEC Conference, October 29–31, 1984. September 1986–October 1986: 78th Meeting of the OPEC Conference, July 28–August 5, 1986.
- 79th (Extraordinary) Meeting of the OPEC Conference, October 6–22, 1986, with the exception of Iraq.
- 80th Meeting of the OPEC Conference, December 11–20, 1986.
- 81st Meeting of the OPEC Conference, June 25–27, 1987.
- 1H88: 82nd Meeting of the OPEC Conference, December 9–14, 1987, with the exception of Iraq. 2H88: 83rd Meeting of the OPEC Conference, June 11–14, 1988, with the exception of Iraq.
- 84th Meeting of the OPEC Conference, November 21–28, 1988.
- 85th Meeting of the OPEC Conference, June 5–7, 1989.
- 2nd Meeting of the Ministerial Monitoring Committee, September 22–27, 1989.
- 86th Meeting of the OPEC Conference, November 25–28, 1989.
- August 1990–December 1990: 87th Meeting of the OPEC Conference, July 26–27, 1990. 1Q91: 88th Meeting of the OPEC Conference, December 12–13, 1990.
- 2Q91: 3rd Meeting of the Ministerial Monitoring Committee, March 11–12, 1991. Reservations were made by Algeria and IR Iran to the total OPEC production level. 3Q91: 89th Meeting of the OPEC Conference, June 4, 1991.
- 4Q91: 4th Meeting of the Ministerial Monitoring Committee, September 24–25, 1991. January 1992: 90th Meeting of the OPEC Conference, November 26–27, 1991.
- February 1992–June 1992: 6th Meeting of the Ministerial Monitoring Committee, February 12–15, 1992. Reservations were made by IR Iran to the total OPEC ceiling and by Saudi Arabia to their allocated production level. 3Q92: 91st Meeting of the OPEC Conference, May 21–22, 1992. Reservations were made by IR Iran to the total OPEC ceiling and by Saudi Arabia to their allocated production level. The Conference also decided to allow for any additional production from Kuwait.
- 9th Meeting of the Ministerial Monitoring Committee, September 16–17, 1992.
- 92nd Meeting of the OPEC Conference, November 25–27, 1992 with full support of Member Countries, except Iraq and the allowance of additional volumes to Kuwait as they become available during the 1Q93.
- March 1993–June 1993: 10th Meeting of the Ministerial Monitoring Committee, February 13–16, 1993 with full support of Member Countries, except Iraq. 3Q93: 93rd Meeting of the OPEC Conference, June 8–10, 1993 with full support of Member Countries, except Iraq and Kuwait.
- October 1993–March 1994: 94th (Extraordinary) Meeting of the OPEC Conference, September 25–29, 1993 with full support of Member Countries, except Iraq. April 1994–December 1994: 12th Meeting of the Ministerial Monitoring Committee, March 25–26, 1994, with full support of Member Countries, except Iraq. January 1995–December 1995: 97th Meeting of the OPEC Conference, November 21–22, 1994. 1H96: 99th Meeting of the OPEC Conference, November 21–22, 1995.
- 2H96: 100th Meeting of the OPEC Conference, June 5–7, 1996. The remaining volume of 1.2m b/d is to be supplied by Iraq. 1H97: 101st Meeting of the OPEC Conference, November 27–28, 1996. The remaining volume of 1.2m b/d is to be supplied by Iraq. 2H97: 102nd Meeting of the OPEC Conference, June 25–26, 1997. The remaining volume of 1.2m b/d is to be supplied by Iraq.
- 103rd Meeting of the OPEC Conference, November 26–December 1, 1997. The remaining volume of 1.31408m b/d is to be supplied by Iraq.
- 104th Extraord. Meeting of the OPEC Conference, March 30, 1998. Data reflect temporary production cuts till end 1998. Base: February 1998. OPEC excl Iraq production (26.987m b/d) from selected secondary sources. Iraq is not called upon to participate in this agreement.
- 105th Meeting of the OPEC Conference, June 24, 1998. Iraq is not called upon to participate in this agreement.
- 107th Meeting of the OPEC Conference, March 23, 1999. Iraq is not called upon to participate in this agreement.
- 109th Meeting of the OPEC Conference, March 27–29, 2000. Agreement of nine Member Countries.
- 110th (Extraordinary) Meeting of the OPEC Conference, June 21, 2000. Iraq is not called upon to participate in this agreement.
- 111th Meeting of the OPEC Conference, September 10–11, 2000. Iraq is not called upon to participate in this agreement.
- 111th Meeting of the OPEC Conference, September 10–11, 2000; including additional 500,000 b/d (price band mechanism) as announced by the OPEC President on October 30, 2000 and effective from October 31, 2000. Iraq is not called upon to participate in this agreement.
- 113th (Extraordinary) Meeting of the OPEC Conference, January 17, 2001. Iraq is not called upon to participate in this agreement.
- 114th Meeting of the OPEC Conference, March 17, 2001. Iraq is not called upon to participate in this agreement.
- OPEC Conference, July 25, 2001. Iraq is not called upon to participate in this agreement.

Conversion factors

Crude oil

Standard factors	Metric tonne	Long ton	Barrels	Cubic metres (kilolitres)
Metric tonne	1	0.984	7.33	1.165
Long ton	1.016	1	7.45	1.128
Barrels	0.136	0.134	1	0.159
Cubic metres (kilolitres)	0.858	0.887	6.289	1

By country (b/tonne)	1997	1998	1999	2000	2001
Algeria	7.7741	7.9448	7.9448	7.9448	7.9448
Indonesia	7.7600	7.2338	7.2338	7.2338	7.2338
IR Iran	7.3145	7.2957	7.2840	7.2840	7.2840
Iraq	7.4530	7.4127	7.4127	7.4127	7.4127
Kuwait	7.2460	7.246	7.2580	7.2580	7.2580
SP Libyan AJ	7.5876	7.5584	7.5584	7.6806	7.6806
Nigeria	7.3540	7.4114	7.4114	7.4114	7.4114
Qatar	7.6058	7.5898	7.6180	7.6180	7.6180
Saudi Arabia	7.3229	7.2843	7.2845	7.2845	7.2845
United Arab Emirates	7.5964	7.5875	7.5532	7.5532	7.5532
Venezuela	6.9580	7.3104	7.1210	7.1270	7.1270
Average OPEC	7.3718	7.3677	7.3464	7.3532	7.3543

Petroleum products (b/tonne)

Liquefied petroleum gas	11.6482
Aviation spirit	8.6162
Natural gasoline	8.4998
Motor spirit	8.4998
Kerosene	7.7652
Jet fuel	7.7652
Distillate fuel oil	7.2296
Lubricating oils	6.9886
Other fuel oils	6.9118
Residual fuel oils	6.6208
Asphalt and bitumen	6.0478

OPEC Members' mid-year population, 1981–2001 (1,000 inhabitants)

	1981	1982	1983	1984	1985	1986	1987
Algeria	19,564	20,192	20,478	21,510	22,191	22,807	23,446
Indonesia	152,054	155,157	158,324	161,555	164,630	168,350	172,010
IR Iran	40,850	42,313	43,979	45,721	47,541	49,445	50,648
Iraq	13,669	14,110	14,586	15,077	15,585	16,110	16,659
Kuwait	1,430	1,500	1,570	1,640	1,720	1,802	1,885
SP Libyan AJ	2,870	2,990	3,110	3,240	3,370	3,520	3,670
Nigeria	73,409	75,774	78,217	80,699	83,196	85,718	88,273
Qatar	240	260	310	330	360	390	410
Saudi Arabia	9,810	10,250	11,170	11,980	12,650	13,360	13,610
United Arab Emirates	1,100	1,170	1,210	1,310	1,380	1,440	1,500
Venezuela	15,480	15,940	16,390	16,850	17,320	17,530	17,970
OPEC	330,476	339,656	349,344	359,912	369,943	380,472	390,081

	1988	1989	1990	1991	1992	1993	1994
Algeria	24,095	24,700	25,324	25,942	26,581	27,299	27,800
Indonesia	175,590	179,140	179,480	181,390	184,490	187,590	190,680
IR Iran	51,888	53,164	54,484	55,887	57,231	58,668	60,148
Iraq	16,880	17,430	18,080	17,770	18,310	18,890	19,470
Kuwait	1,969	2,055	2,141	1,363	1,422	1,461	1,620
SP Libyan AJ	3,820	3,980	4,150	4,330	4,510	4,700	4,900
Nigeria	90,866	93,505	96,203	98,983	101,884	104,892	108,013
Qatar	430	460	490	500	530	560	590
Saudi Arabia	14,020	14,430	14,870	15,810	16,110	16,380	16,890
United Arab Emirates	1,790	1,860	1,920	2,090	2,160	2,100	2,290
Venezuela	18,160	18,870	19,500	19,970	20,440	20,910	21,380
OPEC	399,508	409,594	416,642	424,035	433,668	443,451	453,668

	1995	1996	1997	1998	1999	2000	2001
Algeria	28,060	28,566	29,045	29,507	30,170	30,610	31,040
Indonesia	194,750	196,810	199,870	204,420	207,440	210,490	213,585
IR Iran	60,557	60,055	60,994	61,900	62,750	63,660	64,583
Iraq	20,040	20,620	21,180	21,750	22,340	22,950	23,600
Kuwait	1,802	1,894	1,980	2,027	2,107	2,189	2,275
SP Libyan AJ	4,760	4,850	4,960	5,060	5,180	5,290	5,402
Nigeria	111,270	114,496	117,681	120,817	123,897	126,910	130,296
Qatar	510	520	530	540	560	570	580
Saudi Arabia	17,090	17,610	18,240	18,930	19,900	20,350	20,810
United Arab Emirates	2,310	2,440	2,620	2,780	2,940	3,110	3,280
Venezuela	21,840	22,310	22,780	23,240	23,710	24,170	24,600
OPEC	462,719	470,243	480,096	490,971	500,994	510,445	520,051

Note: Revisions have been made throughout the time series.

Sources: Direct communications to the Secretariat; national sources; IMF, International Financial Statistics; UN, Monthly Bulletin of Statistics; World Bank, World Tables; World Bank Atlas, World Development Indicators; Secretariat's estimates.

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Area, density and GDP per capita in OPEC Members, 2001

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	Area ¹ (1,000 sq km)	Density (inhabitants/sq km)	GDP per capita (\$)
Algeria	2,382	13	1,760
Indonesia	1,904	112	681
IR Iran	1,648	39	1,767
Iraq	438	54	1,178
Kuwait	18	126	14,420
SP Libyan AJ	1,760	3	5,294
Nigeria	924	141	315
Qatar	11	53	27,853
Saudi Arabia	2,150	10	8,962
United Arab Emirates	84	39	20,576
Venezuela ²	916	27	5,078
OPEC	12,235	43 ³	1,615 ³

Notes:

1. Including inland waters.
2. Excluding Esequibo area.
3. Average OPEC.

Sources: Direct communications to the Secretariat; IMF, International Financial Statistics; UN, Monthly Bulletin of Statistics.

OPEC Members' GDP at current market prices, 1981–2001 (m \$)

	1981	1982	1983	1984	1985	1986	1987
Algeria	44,424	45,120	48,902	52,983	58,087	63,231	64,609
Indonesia	91,841	94,213	87,093	87,638	88,565	88,668	78,207
IR Iran	100,658	123,625	149,726	124,874	166,584	198,248	133,076
Iraq	37,289	42,282	42,129	47,819	49,819	48,457	57,586
Kuwait	25,255	21,586	20,870	21,707	21,446	17,905	22,368
SP Libyan AJ	31,755	31,659	30,170	28,252	27,787	24,089	21,215
Nigeria	82,684	77,172	78,988	83,229	81,080	54,251	27,175
Qatar	8,661	7,597	6,485	6,870	6,153	5,017	5,104
Saudi Arabia	155,144	121,151	107,688	99,716	86,678	73,215	73,552
United Arab Emirates	32,988	30,618	28,030	27,704	27,023	21,574	23,699
Venezuela	66,443	67,854	67,598	60,170	59,869	62,976	46,858
OPEC	677,141	662,877	667,679	640,961	673,092	657,631	553,448

	1988	1989	1990	1991	1992	1993	1994
Algeria	56,736	54,930	62,031	45,723	47,853	49,713	41,978
Indonesia	88,591	101,479	114,289	128,234	139,221	157,963	176,968
IR Iran	122,232	119,597	117,481	119,124	107,335	73,766	105,878
Iraq	64,444	67,640	74,945	10,115	16,806	17,973	17,973
Kuwait	20,690	24,314	18,399	11,011	20,136	24,197	24,995
SP Libyan AJ	23,778	25,168	28,768	32,016	33,537	30,617	31,159
Nigeria	32,401	30,557	32,449	33,265	28,492	21,354	23,663
Qatar	5,717	6,488	7,360	6,884	7,646	7,157	7,374
Saudi Arabia	76,140	82,997	104,671	118,034	123,204	118,516	120,167
United Arab Emirates	23,672	27,268	33,653	33,920	35,413	35,519	36,220
Venezuela	60,379	49,170	48,765	53,615	60,753	60,435	60,882
OPEC	574,780	589,606	642,812	591,940	620,395	597,208	647,258

	1995	1996	1997	1998	1999	2000	2001
Algeria	40,723	45,534	47,792	47,387	48,258	53,435	54,643
Indonesia	202,259	226,874	226,598	99,398	142,077	154,882	145,501
IR Iran	104,763	107,455	100,877	117,861	100,895	100,211	114,141
Iraq	16,777	17,800	15,300	18,100	23,700	31,800	27,800
Kuwait	26,910	31,071	29,867	25,405	29,184	35,830	32,806
SP Libyan AJ	30,868	33,680	37,087	32,882	29,039	34,267	28,597
Nigeria	28,108	35,299	35,788	32,891	34,659	40,914	41,107
Qatar	8,138	9,059	11,298	10,255	12,393	16,454	16,160
Saudi Arabia	127,811	157,744	164,994	145,968	161,170	188,718	186,489
United Arab Emirates	37,080	44,606	49,352	46,481	54,961	67,864	67,488
Venezuela	78,296	73,771	88,811	96,095	103,502	121,285	124,910
OPEC	701,732	782,893	807,765	672,722	739,839	845,660	839,642

Notes: Totals may not add up, due to independent rounding. Revisions have been made throughout the time series.

Sources: Direct communications to the Secretariat; IMF, International Financial Statistics, World Economic Outlook database; UN, Statistical Yearbook; EIU, country reports; national sources; Secretariat's estimates.

OPEC Members' values of exports, 1981–2001 (m \$)

	1981	1982	1983	1984	1985	1986	1987
Algeria	14,396	13,170	12,703	12,803	12,861	7,433	8,641
Indonesia	25,165	22,328	21,146	21,888	18,587	14,805	17,136
IR Iran	11,821	20,452	21,507	17,087	14,175	7,171	11,916
Iraq	10,140	10,033	8,161	9,317	10,409	7,465	9,705
Kuwait	16,300	10,961	11,574	12,280	10,597	7,251	8,264
SP Libyan AJ	15,571	13,984	12,341	11,148	12,314	8,215	8,043
Nigeria	17,837	12,176	10,363	11,849	13,111	5,083	7,560
Qatar	5,686	4,341	3,357	4,513	3,419	1,849	1,985
Saudi Arabia	119,858	79,081	45,859	37,542	27,481	20,086	23,199
United Arab Emirates	21,792	18,224	15,391	15,990	14,764	10,129	12,765
Venezuela	20,980	16,590	13,937	15,997	14,438	8,660	10,577
OPEC	279,545	221,340	176,339	170,414	152,156	98,146	119,790

	1988	1989	1990	1991	1992	1993	1994
Algeria	7,751	9,503	12,926	12,647	11,439	10,163	8,899
Indonesia	19,219	22,160	25,675	29,142	33,967	36,823	40,053
IR Iran	10,709	13,081	19,305	18,661	19,868	18,080	19,434
Iraq	9,609	12,284	10,314	377	518	457	453
Kuwait	7,758	11,476	7,042	1,088	6,572	10,246	11,260
SP Libyan AJ	6,673	8,034	13,225	11,235	9,942	8,590	8,954
Nigeria	6,875	7,871	13,671	12,264	11,886	11,590	11,269
Qatar	2,210	2,738	3,890	3,210	3,841	3,245	3,213
Saudi Arabia	24,376	28,383	44,416	47,697	50,287	42,395	42,614
United Arab Emirates	12,250	17,596	23,544	24,436	24,756	21,250	26,922
Venezuela	10,244	13,286	17,497	15,155	14,185	14,686	16,089
OPEC	117,675	146,412	191,505	175,912	187,260	177,525	189,160

	1995	1996	1997	1998	1999	2000	2001
Algeria	10,248	13,170	13,680	10,060	12,522	20,751	19,132
Indonesia	45,418	49,814	53,444	48,847	48,665	62,124	54,700
IR Iran	18,360	22,391	18,381	13,118	21,030	28,345	24,065
Iraq	496	731	4,602	5,500	12,800	20,603	15,905
Kuwait	12,785	14,889	14,224	9,554	12,218	19,424	16,206
SP Libyan AJ	8,975	9,903	9,656	6,659	7,947	12,687	11,187
Nigeria	12,342	16,154	15,207	9,855	13,856	20,975	20,827
Qatar	3,557	3,832	5,504	5,030	7,213	11,593	10,247
Saudi Arabia	50,040	60,729	60,732	38,822	50,761	77,583	73,032
United Arab Emirates	27,753	28,085	34,020	30,750	34,090	41,262	41,403
Venezuela	18,457	23,060	21,624	17,193	20,190	31,802	27,409
OPEC	208,431	242,758	251,073	195,388	241,292	347,149	314,113

Notes: Totals may not add up due to independent rounding. Revisions have been made throughout the time series. All figures FOB.

Sources: Direct communications to the Secretariat; IMF, International Financial Statistics, Direction of Trade Statistics; UN, Monthly Bulletin of Statistics; EIU, World Outlook and country reports; national sources; Secretariat's estimates.

OPEC Members' values of petroleum exports, 1981–2001 (m \$)

	1981	1982	1983	1984	1985	1986	1987
Algeria	13,066	11,149	9,655	9,778	9,668	5,161	6,555
Indonesia	18,164	15,493	13,558	12,477	9,083	5,501	6,157
IR Iran	10,047	18,690	20,273	15,713	13,012	5,900	9,400
Iraq	10,039	9,933	7,816	8,863	10,097	6,905	9,416
Kuwait	14,229	9,066	10,069	10,996	9,451	6,378	7,523
SP Libyan AJ	14,930	13,692	12,341	10,970	12,132	8,202	6,293
Nigeria	17,291	11,883	9,941	11,534	12,568	4,770	7,024
Qatar	5,496	4,214	2,993	4,386	3,068	1,720	1,829
Saudi Arabia	118,998	78,119	44,830	36,285	25,937	18,061	20,427
United Arab Emirates	18,761	15,956	13,016	12,037	10,896	6,865	7,900
Venezuela	18,609	15,633	13,857	14,824	12,956	7,178	9,054
OPEC	259,629	203,826	158,348	147,863	128,869	76,640	91,578

	1988	1989	1990	1991	1992	1993	1994
Algeria	5,725	6,815	9,588	8,464	7,885	6,902	6,335
Indonesia	5,042	6,062	7,404	6,714	6,619	5,693	6,005
IR Iran	8,419	11,315	16,831	15,276	15,184	12,773	13,576
Iraq	9,312	11,876	9,594	351	482	425	421
Kuwait	6,840	10,432	6,385	874	6,221	9,711	10,459
SP Libyan AJ	6,070	6,573	10,715	10,211	9,326	7,689	7,170
Nigeria	6,267	7,470	13,265	11,792	11,642	10,859	11,040
Qatar	1,709	1,955	3,273	2,828	2,870	2,811	2,623
Saudi Arabia	20,205	24,095	40,130	43,701	46,527	38,621	38,139
United Arab Emirates	7,627	10,215	14,846	14,356	14,251	12,118	11,683
Venezuela	8,158	10,001	13,953	12,302	11,336	10,859	12,292
OPEC	85,375	106,809	145,983	126,869	132,343	118,461	119,742

	1995	1996	1997	1998	1999	2000	2001*
Algeria	6,938	8,826	8,352	5,691	7,556	12,920	11,790
Indonesia	6,443	7,879	7,243	4,600	6,580	10,935	8,944
IR Iran	14,973	19,441	15,553	10,048	16,098	25,443	21,420
Iraq	461	680	4,280	5,111	12,104	18,150	12,676
Kuwait	12,054	14,132	13,468	8,472	11,026	18,184	14,975
SP Libyan AJ	7,763	9,543	8,905	5,612	7,734	12,230	10,880
Nigeria	11,512	14,888	14,391	8,754	12,453	20,040	17,188
Qatar	2,987	3,801	4,655	3,357	4,775	7,834	6,964
Saudi Arabia	43,547	54,272	53,344	32,570	44,939	70,960	62,981
United Arab Emirates	12,822	14,980	15,269	11,131	15,021	26,148	22,414
Venezuela	13,987	19,659	18,140	12,007	16,465	26,755	20,300
OPEC	133,486	168,102	163,599	107,352	154,750	249,599	210,531

Notes: Some countries import substantial amounts of crude and products, resulting in lower net revenue from petroleum operations. Totals may not add up, due to independent rounding. Where applicable, petroleum product exports are included. Data for some countries may include condensates, as well as other NGLs. Iraq excluding border trades.

Sources: Direct communications to the Secretariat; national sources; IMF, International Financial Statistics; AOG; Secretariat's estimates.

OPEC Members' values of imports, 1981–2001 (m \$)

	1981	1982	1983	1984	1985	1986	1987
Algeria	11,303	10,754	10,415	10,293	9,859	9,233	7,071
Indonesia	13,272	16,859	16,352	13,882	10,259	10,718	12,370
IR Iran	16,016	14,345	18,027	14,729	12,006	10,585	12,005
Iraq	20,735	21,534	12,166	11,078	10,556	10,190	7,415
Kuwait	6,969	8,285	7,375	6,896	6,005	5,717	5,495
SP Libyan AJ	8,382	7,175	6,029	6,222	4,101	4,445	4,334
Nigeria	21,049	15,999	12,307	9,393	8,890	4,274	4,465
Qatar	1,518	1,947	1,456	1,162	1,139	1,099	1,134
Saudi Arabia	35,264	40,646	39,195	33,694	23,623	19,114	20,110
United Arab Emirates	9,807	8,762	7,843	6,571	6,537	6,806	7,080
Venezuela	13,106	12,944	8,726	7,774	8,106	8,504	9,659
OPEC	157,420	159,250	139,891	121,694	101,081	90,684	91,137

	1988	1989	1990	1991	1992	1993	1994
Algeria	7,411	9,257	9,833	7,539	8,586	8,206	9,158
Indonesia	13,248	16,360	21,837	25,869	27,280	28,328	31,983
IR Iran	10,608	13,448	18,330	25,190	23,274	19,287	12,617
Iraq	10,268	9,899	6,526	423	603	533	499
Kuwait	6,145	6,301	3,972	4,761	7,257	7,038	6,697
SP Libyan AJ	5,869	4,923	5,336	5,361	5,165	5,551	5,548
Nigeria	5,533	4,187	5,627	8,986	8,275	7,508	6,613
Qatar	1,267	1,326	1,695	1,720	2,015	1,891	1,927
Saudi Arabia	21,784	21,153	24,069	29,074	33,254	28,202	23,343
United Arab Emirates	8,522	10,010	11,199	13,746	17,410	19,520	21,024
Venezuela	12,726	7,803	7,335	11,147	14,066	12,511	9,187
OPEC	103,381	104,667	115,758	133,815	147,185	138,575	128,596

	1995	1996	1997	1998	1999	2000	2001
Algeria	10,400	9,090	8,530	8,810	9,164	9,201	9,940
Indonesia	40,629	42,929	41,680	27,337	24,004	33,515	28,822
IR Iran	12,774	14,989	14,123	14,286	13,433	15,207	18,194
Iraq	665	950	4,000	4,400	6,900	11,153	11,000
Kuwait	7,790	8,373	8,246	8,619	7,617	7,157	7,734
SP Libyan AJ	5,392	5,873	6,123	5,466	3,861	7,700	8,724
Nigeria	8,222	6,438	9,501	9,211	8,588	8,721	9,700
Qatar	3,398	2,868	3,322	3,409	2,500	3,252	3,025
Saudi Arabia	28,091	27,744	28,732	30,013	28,011	30,238	31,223
United Arab Emirates	20,984	22,638	29,952	24,728	33,231	38,139	39,020
Venezuela	12,650	9,880	14,607	15,818	14,064	16,213	18,022
OPEC	150,994	151,773	168,815	152,096	151,372	180,496	185,404

Notes: Totals may not add up due to independent rounding. Revisions have been made throughout the time series. All figures cif.

Sources: Direct communications to the Secretariat; IMF, International Financial Statistics, Direction of Trade Statistics; national sources; EUU, country reports; Secretariat's estimates.

Estimated OPEC Members' current account balances, 1981–2001 (m \$)

	1981	1982	1983	1984	1985	1986	1987
Algeria	90	-183	-85	74	1,015	-2,230	141
Indonesia	-566	-5,324	-6,338	-1,856	-1,923	-3,911	-2,098
IR Iran	-3,446	5,733	358	-414	-476	-5,155	-2,090
Iraq	-10,600	-11,900	-2,000	-1,730	-3,540	-3,040	2,300
Kuwait	13,699	4,963	5,311	6,428	4,798	5,616	4,561
SP Libyan AJ	-3,964	-1,560	-1,643	-1,457	1,906	-166	-1,043
Nigeria	-6,474	-7,282	-4,332	123	2,604	211	-73
Qatar	2,384	1,124	410	830	549	-189	-132
Saudi Arabia	39,627	7,575	-16,852	-18,401	-12,932	-11,795	-9,773
United Arab Emirates	9,207	7,001	5,257	7,463	6,946	2,370	4,086
Venezuela	4,000	-4,246	4,427	4,651	3,327	-2,245	-1,390
Total OPEC	43,958	-4,098	-15,488	-4,289	2,274	-20,533	-5,511

	1988	1989	1990	1991	1992	1993	1994
Algeria	-2,040	-1,081	1,420	2,367	1,020	362	-1,820
Indonesia	-1,397	-1,108	-2,988	-4,260	-2,780	-2,106	-2,792
IR Iran	-1,869	-191	327	-9,448	-6,504	-4,215	4,950
Iraq	-140	2,850	500	-1,000	-1,500	-250	-229
Kuwait	4,602	9,136	3,886	-26,479	-450	2,499	3,227
SP Libyan AJ	-1,826	-1,026	2,201	-219	1,392	-1,362	29
Nigeria	-296	1,090	4,988	1,203	2,268	-780	-2,128
Qatar	-261	-4	306	-100	-9	-659	-502
Saudi Arabia	-7,340	-9,538	-4,152	-27,546	-17,740	-17,268	-10,487
United Arab Emirates	2,533	4,549	5,230	1,634	3,043	4,060	2,600
Venezuela	-5,809	2,161	8,279	1,736	-3,749	-1,993	2,541
Total OPEC	-13,844	6,838	19,998	-62,112	-25,010	-21,713	-4,611

	1995	1996	1997	1998	1999	2000	2001
Algeria	-2,305	1,190	3,210	-920	300	9,920	7,025
Indonesia	-6,431	-7,663	-4,889	4,096	5,785	7,985	5,900
IR Iran	3,358	5,232	2,213	-2,139	6,589	12,645	5,665
Iraq	-402	-523	819	1,168	2,018	3,269	1,031
Kuwait	5,016	7,107	7,934	2,215	5,062	14,670	8,566
SP Libyan AJ	1,998	1,477	1,875	-391	1,984	4,289	875
Nigeria	-2,578	3,507	552	-4,244	506	2,037	1,172
Qatar	-2,160	-1,246	-1,679	-455	2,171	5,418	4,205
Saudi Arabia	-5,325	681	305	-13,150	412	14,336	14,502
United Arab Emirates	4,280	5,100	4,300	-2,900	500	12,300	13,109
Venezuela	2,014	8,914	3,467	-3,253	3,557	13,111	4,364
Total OPEC	-2,536	23,776	18,108	-19,972	28,883	99,979	66,414

Notes: Totals may not add up, due to independent rounding. Revisions have been made throughout the time series.

Sources: Direct communications to the Secretariat; IMF, International Financial Statistics; national sources; EIU, country reports; Secretariat's estimates.

Annual average exchange rates for OPEC Members, 1981–2001
(units of national currency/\$)

	1981	1982	1983	1984	1985	1986	1987
Algeria	4.316	4.592	4.789	4.983	5.028	4.702	4.850
Indonesia	631.757	661.421	909.265	1,025.940	1,110.580	1,282.560	1,643.850
IR Iran ¹	78.328	83.603	86.358	90.030	91.052	78.760	144.910
Iraq	0.295	0.299	0.311	0.311	0.311	0.311	0.311
Kuwait	0.279	0.288	0.291	0.296	0.301	0.291	0.279
SP Libyan AJ	0.296	0.296	0.296	0.296	0.296	0.296	0.295
Nigeria	0.618	0.673	0.724	0.767	0.894	1.755	4.016
Qatar	3.640	3.640	3.640	3.640	3.640	3.640	3.640
Saudi Arabia	3.383	3.428	3.455	3.524	3.622	3.703	3.745
United Arab Emirates	3.671	3.671	3.671	3.671	3.671	3.671	3.671
Venezuela	4.293	4.293	4.297	7.017	7.500	8.083	14.500

	1988	1989	1990	1991	1992	1993	1994
Algeria	5.915	7.609	8.958	18.473	21.836	23.345	35.059
Indonesia	1,685.700	1,770.060	1,842.810	1,950.320	2,029.920	2,087.100	2,160.750
IR Iran ¹	177.970	226.000	304.347	408.587	600.000	1,267.770	1,748.750
Iraq	0.311	0.311	0.311	0.311	0.311	0.311	0.311
Kuwait	0.279	0.294	0.288	0.284	0.293	0.302	0.297
SP Libyan AJ	0.286	0.300	0.283	0.281	0.285	0.305	0.321
Nigeria	4.537	7.365	8.038	9.909	17.298	22.065	21.996
Qatar	3.640	3.640	3.640	3.640	3.640	3.640	3.640
Saudi Arabia	3.745	3.745	3.745	3.745	3.745	3.745	3.745
United Arab Emirates	3.671	3.671	3.671	3.671	3.671	3.671	3.671
Venezuela	14.500	34.682	46.901	56.816	68.376	90.826	148.503

	1995	1996	1997	1998	1999	2000	2001
Algeria	47.663	54.749	57.707	58.739	66.574	75.260	77.215
Indonesia	2,248.610	2,342.300	2,909.380	10,013.600	7,855.150	8,421.770	10,260.800
IR Iran ¹	1,747.930	1,750.760	1,752.920	1,751.860	1,752.930	1,764.430	1,753.560
Iraq ²	0.311	0.311	0.311	0.311	0.311	0.311	0.311
Kuwait	0.298	0.299	0.303	0.305	0.304	0.307	0.307
SP Libyan AJ	0.346	0.362	0.382	0.394	0.499	0.510	0.597
Nigeria ³	21.895	21.884	21.886	21.886	92.338	101.697	111.231
Qatar	3.640	3.640	3.640	3.640	3.640	3.640	3.640
Saudi Arabia	3.745	3.745	3.745	3.745	3.745	3.745	3.745
United Arab Emirates	3.671	3.671	3.671	3.673	3.673	3.673	3.673
Venezuela	176.842	417.332	488.635	547.556	605.717	679.960	723.666

Notes: Conversions to the dollar are based on annual average market exchange rates; otherwise, official rates are applied.

- From 1987–92, the rates apply to a trade-weighted average of floating, competitive and basic official exchange rates, as given by the World Bank. In May 1995 a rate of IR 3,000/\$ was introduced applicable to exports.
- The parallel market rate was ID 1,100/\$ in 1995, ID 1,160/\$ in 1996, ID 1,498/\$ in 1997, ID 1,600/\$ in 1998, ID 1,800/\$ in 1999, ID 1,950/\$ in 2000 and ID 1,800/\$ in 2001.
- The autonomous market rate was N 82.3/\$ in 1995, N 81/\$ in 1996, N 83.5/\$ in 1997 and N 85.25/\$ in 1998. In January 1999, the dual exchange rate system was abolished.

Sources: IMF, *International Financial Statistics*; World Bank, *World Tables*; EIU, *country reports*.

OPEC proven crude oil reserves, 1981–2001 (m b)

	1981	1982	1983	1984	1985	1986	1987
Algeria	8,080	9,440	9,220	9,000	8,820	8,800	8,564
Indonesia	11,018	10,534	10,080	9,611	9,180	9,000	9,000
IR Iran	57,020	56,148	55,257	58,874	59,000	92,860	92,860
Iraq	32,000	59,000	65,000	65,000	65,000	72,000	100,000
Kuwait	67,730	67,150	67,000	92,710	92,464	94,522	94,525
SP Libyan AJ	22,600	22,186	21,784	21,425	21,300	22,800	22,800
Nigeria	16,500	16,750	16,550	16,650	16,600	16,066	15,980
Qatar	3,450	3,425	3,330	4,500	4,500	4,500	4,500
Saudi Arabia	167,850	165,484	168,848	171,710	171,490	169,744	169,585
United Arab Emirates	32,176	32,354	32,340	32,490	32,990	97,203	98,105
Venezuela	19,888	24,900	25,887	28,028	54,454	55,521	58,101
OPEC	438,312	467,371	475,295	509,998	535,798	643,016	674,020

	1988	1989	1990	1991	1992	1993	1994
Algeria	9,200	9,236	9,200	9,200	9,200	9,200	9,979
Indonesia	9,000	5,114	5,415	5,909	5,598	5,167	4,980
IR Iran	92,860	92,860	92,850	92,860	92,860	92,860	94,300
Iraq	100,000	100,000	100,000	100,000	100,000	100,000	100,000
Kuwait	94,525	97,125	97,025	96,500	96,500	96,500	96,500
SP Libyan AJ	22,800	22,800	22,800	22,800	22,800	22,800	22,800
Nigeria	16,000	16,000	17,100	20,000	20,991	20,991	20,991
Qatar	4,500	4,500	2,993	2,993	3,121	3,121	3,500
Saudi Arabia	254,989	260,050	260,342	260,936	261,203	261,355	261,374
United Arab Emirates	98,105	98,105	98,100	98,100	98,100	98,100	98,100
Venezuela	58,505	59,040	60,054	62,649	63,330	64,448	64,877
OPEC	760,484	764,830	765,879	771,947	773,702	774,541	777,400

	1995	1996	1997	1998	1999	2000	2001
Algeria	9,979	10,800	11,200	11,314	11,314	11,314	11,314
Indonesia	4,980	4,980	4,980	4,980	5,201	5,123	5,123
IR Iran	93,700	92,600	92,600	93,700	93,100	99,530	99,080
Iraq	100,000	112,000	112,500	112,500	112,500	112,500	112,500
Kuwait	96,500	96,500	96,500	96,500	96,500	96,500	96,500
SP Libyan AJ	29,500	29,500	29,500	29,500	29,500	36,000	36,000
Nigeria	20,828	20,828	20,828	22,500	29,000	29,000	31,506
Qatar	3,700	3,700	3,700	3,700	3,700	13,157	15,207
Saudi Arabia	261,450	261,444	261,541	261,542	262,784	262,766	262,697
United Arab Emirates	98,100	97,800	97,800	97,800	97,800	97,800	97,800
Venezuela	66,329	72,667	74,931	76,108	76,848	76,848	77,685
OPEC	785,066	802,819	806,080	810,144	818,247	840,538	845,412

Notes: Figures as at year-end. Totals may not add up, due to independent rounding. Revisions have been made throughout the time series.

Sources: Direct communications to the Secretariat; OGI; World Petroleum Trends; national sources; World Oil; AOG.

World proven crude oil reserves by region, 1981–2001 (m b)

	1981	1982	1983	1984	1985	1986	1987
North America	36,850	35,948	35,514	36,218	36,103	35,123	35,770
Latin America	84,106	89,587	90,795	92,922	118,579	119,158	121,951
Eastern Europe	65,695	65,384	65,255	64,662	64,233	62,135	60,370
Western Europe	22,333	21,340	21,985	22,579	22,067	19,822	17,188
Middle East	365,244	388,592	397,053	431,006	431,428	537,184	566,768
Africa	56,354	57,877	57,309	56,255	56,200	57,265	57,063
Asia and Pacific	39,222	39,004	38,722	38,167	38,452	38,349	38,695
Total world	669,804	697,732	706,633	741,808	767,061	869,035	897,805
OPEC	438,312	467,371	475,295	509,998	535,798	643,016	674,020
OPEC percentage	65.4	67.0	67.3	68.8	69.9	74.0	75.1

	1988	1989	1990	1991	1992	1993	1994
North America	35,351	35,877	35,586	33,344	32,091	31,018	30,334
Latin America	121,569	121,070	122,329	125,066	129,760	130,936	131,309
Eastern Europe	59,788	59,592	58,568	58,534	58,953	58,932	58,968
Western Europe	17,846	16,892	16,890	16,950	17,385	17,877	19,786
Middle East	655,830	663,348	662,019	662,461	663,307	663,485	665,766
Africa	57,839	58,792	59,733	62,409	63,855	63,523	67,110
Asia and Pacific	44,488	41,528	42,530	44,040	44,423	43,858	43,476
Total world	992,709	997,099	997,655	1,002,804	1,009,774	1,009,629	1,016,749
OPEC	760,484	764,830	765,879	771,947	773,702	774,541	777,400
OPEC percentage	76.6	76.7	76.8	77.0	76.6	76.7	76.5

	1995	1996	1997	1998	1999	2000	2001
North America	30,271	30,722	30,652	31,272	30,147	33,066	33,346
Latin America	132,473	138,762	140,342	141,909	123,104	123,780	123,896
Eastern Europe	58,961	67,366	67,374	67,281	67,260	67,160	66,790
Western Europe	20,990	18,540	18,751	18,348	18,843	18,033	18,128
Middle East	665,273	675,996	676,755	677,806	678,737	694,754	696,261
Africa	74,177	74,776	75,195	76,980	83,504	90,004	92,797
Asia and Pacific	43,404	43,428	43,438	44,255	44,387	44,391	44,980
Total world	1,025,550	1,049,590	1,052,508	1,057,853	1,045,981	1,070,686	1,074,850
OPEC	785,066	802,819	806,080	810,144	818,247	840,538	845,412
OPEC percentage	76.6	76.5	76.6	76.6	78.2	78.5	78.7

Notes: Figures as at year-end. Totals may not add up, due to independent rounding. Revisions have been made throughout the time series.
Sources: Direct communications to the Secretariat; OGI; national sources; World Oil; MEES; PIW; AOG; World Petroleum Trends.

OPEC proven natural gas reserves, 1981–2001 (billion standard cu m)

	1981	1982	1983	1984	1985	1986	1987
Algeria	3,678	3,613	3,531	3,442	3,349	3,259	3,163
Indonesia	864	960	1,189	1,699	1,982	2,265	2,367
IR Iran	14,085	14,069	14,045	14,016	13,986	13,955	13,922
Iraq	773	816	821	818	821	821	1,000
Kuwait	1,046	1,040	1,036	1,038	1,037	1,167	1,205
SP Libyan AJ	665	653	640	628	626	728	727
Nigeria	1,147	1,385	1,370	1,355	1,340	2,400	2,407
Qatar	2,830	3,145	3,400	4,280	4,440	4,440	4,440
Saudi Arabia	3,346	3,432	3,544	3,608	3,687	4,021	4,190
United Arab Emirates	2,529	2,973	3,049	3,108	3,148	5,414	5,684
Venezuela	1,365	1,471	1,562	1,666	1,735	2,622	2,838
OPEC	32,328	33,557	34,188	35,658	36,151	41,092	41,943

	1988	1989	1990	1991	1992	1993	1994
Algeria	3,234	3,250	3,300	3,626	3,650	3,700	2,963
Indonesia	2,561	2,553	2,864	2,803	1,154	1,934	3,255
IR Iran	14,200	17,000	17,003	19,800	20,700	20,700	20,764
Iraq	2,690	3,115	3,107	3,100	3,100	3,100	3,115
Kuwait	1,378	1,400	1,518	1,511	1,495	1,492	1,499
SP Libyan AJ	827	1,218	1,208	1,309	1,299	1,289	1,310
Nigeria	2,476	2,832	2,840	3,400	3,716	3,683	3,450
Qatar	4,621	4,620	4,615	6,428	6,713	7,070	7,070
Saudi Arabia	5,020	5,218	5,223	5,221	5,249	5,249	5,260
United Arab Emirates	5,663	5,650	5,623	5,793	5,795	5,795	6,777
Venezuela	2,856	2,993	3,429	3,582	3,693	3,693	3,965
OPEC	45,526	49,849	50,729	56,572	56,564	57,705	59,428

	1995	1996	1997	1998	1999	2000	2001
Algeria	3,690	3,700	4,077	4,077	4,523	4,523	4,523
Indonesia	3,500	3,851	3,902	3,650	3,770	3,790	3,800
IR Iran	19,350	23,000	23,000	24,100	22,370	26,600	26,600
Iraq	3,360	3,360	3,188	3,188	3,285	3,109	3,109
Kuwait	1,494	1,489	1,490	1,482	1,482	1,557	1,557
SP Libyan AJ	1,313	1,311	1,315	1,315	1,315	1,314	1,314
Nigeria	3,474	3,475	3,483	3,510	3,568	3,610	4,503
Qatar	8,500	8,500	8,500	10,900	11,157	14,443	25,768
Saudi Arabia	5,545	5,693	5,882	6,068	6,146	6,301	6,456
United Arab Emirates	5,859	5,784	6,063	5,996	5,936	6,060	6,060
Venezuela	4,065	4,052	4,121	4,147	4,152	4,152	4,163
OPEC	60,149	64,215	65,021	68,433	67,704	75,459	87,853

Notes: Figures as at year-end. Totals may not add up, due to independent rounding. Revisions have been made throughout the time series.

Sources: Direct communications to the Secretariat; Cedigaz; OGI; national sources; World Oil; MEES; PIW; EIU.

World proven natural gas reserves by region, 1981–2001 (*billion standard cu m*)

	1981	1982	1983	1984	1985	1986	1987
North America	8,204	8,269	8,261	8,204	8,284	8,209	8,047
Latin America	5,039	5,180	5,280	5,408	5,651	6,545	7,030
Eastern Europe	33,349	35,624	36,489	37,962	40,506	41,548	42,207
Western Europe	5,088	5,018	5,278	5,377	5,358	5,406	5,353
Middle East	25,027	25,907	26,405	27,385	27,704	30,428	31,193
Africa	6,019	6,395	6,383	6,235	6,143	7,379	7,370
Asia and Pacific	5,829	6,175	6,719	7,710	8,313	9,401	9,717
Total world	88,556	92,568	94,814	98,281	101,960	108,915	110,916
OPEC	32,328	33,557	34,188	35,658	36,151	41,092	41,943
OPEC percentage	36.5	36.3	36.1	36.3	35.5	37.7	37.8

	1988	1989	1990	1991	1992	1993	1994
North America	7,451	7,403	7,528	7,456	7,384	7,271	6,871
Latin America	7,104	7,089	7,515	7,637	7,822	7,928	7,890
Eastern Europe	42,974	52,434	54,925	55,755	56,739	56,717	58,855
Western Europe	5,260	5,232	5,402	5,585	5,623	5,388	5,781
Middle East	34,359	37,864	38,014	43,138	44,432	44,940	46,008
Africa	7,684	8,466	8,524	9,603	9,947	10,188	9,223
Asia and Pacific	10,060	10,536	11,020	11,896	11,012	13,109	14,167
Total world	114,890	129,024	132,927	141,071	142,957	145,541	148,795
OPEC	45,526	49,849	50,729	56,572	56,564	57,705	59,428
OPEC percentage	39.6	38.6	38.2	40.1	39.6	39.6	39.9

	1995	1996	1997	1998	1999	2000	2001
North America	6,574	6,643	6,576	6,454	6,488	6,741	7,042
Latin America	7,915	7,985	8,080	8,173	7,763	8,039	8,082
Eastern Europe	58,051	57,313	57,741	57,302	56,627	56,525	56,377
Western Europe	5,843	6,511	7,156	7,147	7,127	7,076	7,028
Middle East	45,635	49,467	49,795	53,406	52,053	59,807	71,356
Africa	9,923	10,171	10,634	10,791	11,501	11,969	13,107
Asia and Pacific	13,290	14,106	14,332	14,198	14,757	14,910	15,225
Total world	147,231	152,196	154,314	157,471	156,315	165,067	178,216
OPEC	60,149	64,215	65,020	68,433	67,704	75,459	87,853
OPEC percentage	40.9	42.2	42.1	43.5	43.3	45.7	49.3

Notes: Figures as at year-end. Totals may not add up, due to independent rounding. Revisions have been made throughout the time series.

Sources: Direct communications to the Secretariat; Cedigaz; OGJ; national sources; World Oil.

Crude oil production in OPEC Members, 1981–2001 (1,000 b/d)

	1981	1982	1983	1984	1985	1986	1987
Algeria	797.8	704.5	660.9	695.4	672.4	673.9	648.2
Indonesia	1,604.2	1,324.8	1,245.3	1,280.1	1,181.5	1,256.8	1,158.1
IR Iran	1,565.0	2,420.6	2,441.7	2,032.4	2,192.3	2,037.1	2,297.6
Iraq	897.4	1,078.4	1,098.8	1,221.3	1,404.4	1,876.5	2,358.7
Kuwait ¹	1,129.7	824.3	1,054.1	1,163.0	936.3	1,174.3	971.6
SP Libyan AJ	1,217.8	1,136.0	1,121.1	984.6	997.7	1,308.0	972.5
Nigeria	1,439.6	1,287.0	1,235.5	1,388.0	1,498.9	1,466.6	1,323.0
Qatar	415.2	332.0	269.0	325.3	289.3	305.7	218.9
Saudi Arabia ¹	9,808.0	6,483.0	4,539.4	4,079.1	3,175.0	4,784.2	3,975.2
United Arab Emirates	1,502.3	1,248.8	1,149.0	1,069.0	1,009.1	1,128.6	1,242.3
Venezuela	2,108.3	1,895.0	1,800.8	1,695.5	1,564.0	1,648.5	1,575.5
OPEC	22,485.3	18,734.4	16,615.6	15,933.7	14,921.0	17,660.2	16,741.5

	1988	1989	1990	1991	1992	1993	1994
Algeria	672.9	727.3	783.5	803.0	756.5	747.3	752.5
Indonesia	1,161.5	1,231.0	1,299.3	1,450.0	1,347.7	1,327.3	1,332.8
IR Iran	2,478.5	2,814.1	3,135.3	3,406.8	3,431.6	3,425.2	3,596.0
Iraq	2,744.5	2,785.8	2,112.6	282.5	526.2	659.5	748.7
Kuwait ¹	1,190.1	1,277.5	858.6	189.7	1,057.2	1,881.8	2,006.6
SP Libyan AJ	1,022.7	1,129.2	1,389.1	1,405.9	1,432.7	1,361.0	1,389.8
Nigeria	1,341.3	1,716.3	1,726.7	1,893.1	1,957.0	1,905.2	1,820.9
Qatar	228.0	320.2	405.6	391.2	423.2	390.3	378.7
Saudi Arabia ¹	5,100.1	5,064.5	6,412.5	8,117.8	8,331.7	8,047.7	8,049.0
United Arab Emirates	1,323.5	1,593.0	1,762.6	2,027.4	2,235.7	2,159.3	2,166.5
Venezuela	1,578.1	1,747.4	2,135.2	2,286.2	2,345.6	2,326.0	2,367.9
OPEC	18,841.4	20,406.3	22,021.1	22,253.6	23,845.1	24,230.5	24,609.4

	1995	1996	1997	1998	1999	2000	2001
Algeria	752.5	805.7	846.1	827.3	749.6	796.0	776.6
Indonesia	1,328.4	1,326.7	1,330.4	1,315.4	1,355.5	1,272.5	1,214.2
IR Iran	3,595.0	3,596.0	3,603.4	3,714.0	3,439.0	3,661.3	3,572.0
Iraq	736.9	740.4	1,383.9	2,181.1	2,719.8	2,810.2	2,593.7
Kuwait ¹	2,006.6	2,005.6	2,007.1	2,051.5	1,872.7	1,996.1	1,947.0
SP Libyan AJ	1,399.0	1,394.0	1,395.8	1,449.0	1,287.2	1,347.2	1,323.5
Nigeria	1,842.6	1,863.1	1,876.7	1,939.0	1,781.5	2,053.6	2,017.6
Qatar	389.8	393.1	405.0	618.1	608.5	648.2	632.9
Saudi Arabia ¹	8,023.4	8,102.3	8,011.7	8,280.2	7,564.7	8,094.5	7,888.9
United Arab Emirates	2,148.0	2,161.3	2,160.7	2,244.1	2,048.8	2,174.7	2,114.2
Venezuela	2,378.5	2,381.0	2,411.0	3,120.0	2,800.4	2,891.0	2,791.9
OPEC	24,600.8	24,769.2	25,431.8	27,739.7	26,227.8	27,745.2	26,872.5

Notes: Totals may not add up due to independent rounding. Revisions have been made throughout the time series.

1. Including share of production from Neutral Zone.

Sources: Direct communications to the Secretariat; various national and secondary sources.

World crude oil production by region, 1981–2001 (1,000 b/d)

	1981	1982	1983	1984	1985	1986	1987
North America	9,681.3	9,727.1	9,885.9	10,115.3	10,204.6	9,864.0	9,556.8
Latin America	5,945.9	6,226.2	6,101.2	6,161.1	6,082.7	6,041.9	6,053.4
Eastern Europe	12,528.9	12,636.3	12,699.5	12,605.9	11,986.3	12,309.1	12,448.4
Western Europe	2,736.4	2,984.3	3,381.4	3,689.7	3,878.2	3,988.5	4,076.8
Middle East	15,858.5	12,929.7	11,149.8	10,518.3	9,724.8	12,102.9	11,920.0
Africa	4,642.2	4,403.2	4,442.5	4,609.0	4,871.1	5,149.5	4,789.0
Asia and Pacific	4,848.8	4,619.2	4,797.2	5,253.1	5,547.1	5,761.4	5,758.8
Total world	56,242.1	53,525.9	52,457.5	52,952.4	52,294.7	55,217.3	54,603.2
OPEC	22,485.3	18,734.4	16,615.6	15,933.7	14,921.0	17,660.2	16,741.5
OPEC percentage	40.0	35.0	31.7	30.1	28.5	32.0	30.7

	1988	1989	1990	1991	1992	1993	1994
North America	9,414.2	8,852.0	8,515.6	8,549.8	8,409.9	8,146.3	8,005.6
Latin America	6,103.6	6,334.3	6,861.0	7,140.7	7,271.4	7,348.0	7,562.0
Eastern Europe	12,367.7	12,037.7	11,275.9	10,140.6	8,844.5	7,922.2	7,168.6
Western Europe	4,062.6	3,862.7	4,068.8	4,299.5	4,591.9	4,867.1	5,585.0
Middle East	14,149.9	15,133.7	16,076.9	15,896.5	17,563.1	18,264.5	18,808.5
Africa	4,949.4	5,541.6	5,961.6	6,212.2	6,324.7	6,166.9	6,121.2
Asia and Pacific	5,869.2	6,022.7	6,289.2	6,439.1	6,388.3	6,477.9	6,695.6
Total world	56,916.6	57,784.6	59,049.0	58,678.4	59,393.9	59,192.9	59,946.5
OPEC	18,841.4	20,406.3	22,021.1	22,253.6	23,845.1	24,230.5	24,609.4
OPEC percentage	33.1	35.3	37.3	37.9	40.1	40.9	41.1

	1995	1996	1997	1998	1999	2000	2001
North America	7,933.2	7,850.7	7,862.1	7,615.3	7,225.7	7,213.1	7,181.3
Latin America	7,688.6	8,137.5	8,481.6	9,477.1	9,128.4	9,295.8	9,318.1
Eastern Europe	7,050.3	6,930.8	7,093.0	7,083.3	7,212.0	7,629.3	8,245.3
Western Europe	5,771.0	6,105.5	6,130.3	6,055.2	6,097.3	6,239.1	6,147.7
Middle East	18,856.3	19,019.3	19,606.6	21,108.5	20,279.9	21,437.4	20,772.9
Africa	6,199.6	6,419.4	6,589.8	6,708.6	6,348.5	6,774.8	6,625.4
Asia and Pacific	6,805.0	6,965.5	7,082.9	6,957.2	7,068.1	7,222.0	7,208.0
Total world	60,303.9	61,428.8	62,846.3	65,005.1	63,360.0	65,811.4	65,498.7
OPEC	24,600.8	24,769.2	25,431.8	27,739.7	26,227.8	27,745.2	26,872.5
OPEC percentage	40.8	40.3	40.5	42.7	41.4	42.2	41.0

Notes: Totals may not add up due to independent rounding. Revisions have been made throughout the time series.

Sources: Direct communications to the Secretariat; various national and secondary sources.

Marketed production of natural gas in OPEC Members, 1981–2001 (million standard cu m)

	1981	1982	1983	1984	1985	1986	1987
Algeria	21,862	26,686	36,267	35,039	36,470	37,560	43,170
Indonesia	18,775	19,076	21,992	32,969	33,905	35,374	36,550
IR Iran	5,950	7,200	11,000	13,500	14,600	15,200	16,000
Iraq	620	680	470	590	850	1,550	3,750
Kuwait	4,684	3,675	4,035	4,376	4,200	5,730	4,780
SP Libyan AJ	3,150	3,350	3,710	4,600	5,200	5,600	5,000
Nigeria	2,155	1,413	2,298	2,051	2,800	3,299	3,493
Qatar	4,323	5,055	5,235	5,930	5,460	5,800	5,610
Saudi Arabia	22,245	8,950	4,380	18,200	18,800	25,200	26,800
United Arab Emirates	9,075	8,320	8,400	11,060	13,210	15,220	18,890
Venezuela	14,886	15,883	15,640	17,300	17,326	19,074	18,587
OPEC	107,725	100,288	113,427	145,615	152,821	169,607	182,630

	1988	1989	1990	1991	1992	1993	1994
Algeria	46,290	48,400	51,600	53,910	53,246	53,872	51,157
Indonesia	38,510	43,234	47,580	51,370	54,190	55,860	63,473
IR Iran	20,000	22,200	24,200	32,200	35,100	36,900	40,400
Iraq	5,600	6,450	3,980	1,740	2,270	2,550	3,170
Kuwait	6,840	8,160	4,190	500	2,620	5,420	5,970
SP Libyan AJ	5,500	6,800	6,200	6,540	6,770	6,360	6,390
Nigeria	3,770	4,322	4,010	4,400	4,421	5,050	4,550
Qatar	5,860	6,200	6,300	7,630	12,620	13,500	13,500
Saudi Arabia	29,100	29,800	33,520	35,170	38,250	40,040	42,770
United Arab Emirates	19,360	22,380	22,110	25,810	22,170	22,990	25,820
Venezuela	19,028	19,538	21,966	21,902	21,617	25,613	24,675
OPEC	199,858	217,484	225,656	241,172	253,274	268,155	281,875

	1995	1996	1997	1998	1999	2000	2001
Algeria	62,301	67,114	75,730	80,876	85,848	88,617	84,136
Indonesia	63,360	66,660	67,150	64,250	70,960	68,365	69,000
IR Iran	38,600	40,410	47,000	50,000	56,755	60,147	69,145
Iraq	3,170	3,240	3,050	2,950	3,180	3,150	2,760
Kuwait	9,278	9,302	9,270	9,491	8,688	9,600	9,500
SP Libyan AJ	6,340	6,420	6,570	6,360	5,200	5,880	6,180
Nigeria	4,844	5,460	5,850	5,900	6,950	12,460	15,680
Qatar	13,500	13,700	17,400	19,580	22,050	29,100	32,400
Saudi Arabia	42,930	44,510	45,840	46,720	46,200	49,970	53,690
United Arab Emirates	31,320	33,800	36,310	37,070	38,990	38,380	44,940
Venezuela	25,200	29,730	30,211	31,440	26,771	27,801	31,710
OPEC	300,843	320,346	344,381	354,637	371,592	393,470	419,141

Notes: Totals may not add up due to independent rounding. Revisions have been made throughout the time series.

Sources: Direct communications to the Secretariat; Cedigaz; BP Statistical Review of World Energy; national sources; IFP, The World Gas Industry; MEES; PIW; AOG; Secretariat's estimates.

World marketed production of natural gas by region, 1981–2001 (million standard cu m)

	1981	1982	1983	1984	1985	1986	1987
North America	613,645	579,058	527,184	572,803	550,086	533,375	555,588
Latin America	65,556	69,866	75,865	76,961	74,024	76,554	76,067
Eastern Europe	515,060	554,240	586,270	634,810	696,610	738,070	777,380
Western Europe	196,320	184,454	194,171	198,920	206,116	201,735	212,750
Middle East	52,806	40,750	37,770	58,656	63,860	76,070	83,830
Africa	29,489	35,060	46,344	46,632	50,361	53,140	58,949
Asia and Pacific	78,059	83,696	91,392	108,419	118,095	127,414	127,240
Total world	1,550,935	1,547,124	1,558,996	1,697,201	1,759,152	1,806,358	1,891,804
OPEC	107,725	100,288	113,427	145,615	152,821	169,607	182,630
OPEC percentage	6.9	6.5	7.3	8.6	8.7	9.4	9.7

	1988	1989	1990	1991	1992	1993	1994
North America	582,498	595,216	611,194	616,016	633,128	651,464	682,075
Latin America	79,578	81,798	85,696	85,642	82,317	93,043	94,765
Eastern Europe	816,670	841,010	852,500	844,990	803,100	791,430	748,930
Western Europe	200,560	205,110	203,850	216,240	219,600	231,280	233,820
Middle East	94,530	106,180	105,740	115,040	126,510	135,910	146,480
Africa	63,510	68,202	70,890	74,890	75,387	79,452	77,077
Asia and Pacific	133,450	143,964	151,170	164,300	175,970	183,810	201,133
Total world	1,970,796	2,041,480	2,081,040	2,117,118	2,116,012	2,166,389	2,184,280
OPEC	199,858	217,484	225,656	241,172	253,274	268,155	281,875
OPEC percentage	10.1	10.7	10.8	11.4	12.0	12.4	12.9

	1995	1996	1997	1998	1999	2000	2001
North America	685,328	697,549	700,829	709,042	710,703	720,884	737,194
Latin America	99,630	109,950	114,471	122,670	125,251	131,461	137,390
Eastern Europe	734,800	740,350	694,510	714,320	726,720	744,280	740,290
Western Europe	241,800	278,990	271,960	271,640	277,020	282,630	285,060
Middle East	152,708	159,962	178,680	187,161	196,193	213,267	241,245
Africa	88,975	96,174	106,410	111,876	118,138	131,087	133,386
Asia and Pacific	210,470	227,740	239,190	241,880	258,390	273,115	289,670
Total world	2,213,711	2,310,715	2,306,050	2,358,589	2,412,415	2,496,724	2,564,235
OPEC	300,843	320,346	344,381	354,637	371,592	393,470	419,141
OPEC percentage	13.6	13.9	14.9	15.0	15.4	15.8	16.3

Notes: Totals may not add up due to independent rounding. Revisions have been made throughout the time series.

Sources: Direct communications to the Secretariat; Cedigaz; BP Statistical Review; national sources; IFP, The World Gas Industry; MEES; PIW; AOG.

Refinery capacity in OPEC Members, 1981–2001 (1,000 b/d)

	1981	1982	1983	1984	1985	1986	1987
Algeria	471.2	471.2	471.2	471.2	471.2	471.2	471.2
Indonesia	473.4	473.4	837.0	837.0	837.0	738.7	738.7
IR Iran	1,320.0	670.0	670.0	615.0	615.0	615.0	615.0
Iraq	305.5	215.5	365.5	365.5	365.5	365.5	365.5
Kuwait	594.0	594.0	564.0	564.0	564.0	614.0	670.0
SP Libyan AJ	117.0	117.0	117.0	315.0	333.0	342.0	342.0
Nigeria	234.0	234.0	234.0	234.0	234.0	243.0	265.5
Qatar	10.5	13.0	63.0	63.0	63.0	63.0	63.0
Saudi Arabia	765.0	765.0	935.0	1,190.0	1,440.0	1,440.0	1,425.0
United Arab Emirates	135.0	135.0	180.0	180.0	180.0	180.0	180.0
Venezuela	1,444.9	1,323.1	1,323.1	1,224.2	1,229.2	1,224.2	1,258.1
OPEC	5,870.5	5,011.2	5,759.8	6,058.9	6,331.9	6,296.6	6,394.0

	1988	1989	1990	1991	1992	1993	1994
Algeria	471.2	474.5	474.5	474.5	474.5	474.5	468.6
Indonesia	738.7	751.3	751.3	782.8	782.8	782.8	895.3
IR Iran	615.0	777.0	777.0	957.0	957.0	1,092.0	1,092.0
Iraq	365.5	550.0	550.0	550.0 ¹	550.0 ¹	595.0	603.0
Kuwait	670.0	670.0	670.0	670.0 ¹	670.0 ¹	670.0 ¹	820.0
SP Libyan AJ	342.0	342.0	342.0	342.0	342.0	342.0	342.0
Nigeria	265.5	400.5	400.5	400.5	400.5	400.5	400.5
Qatar	63.0	63.0	63.0	63.0	63.0	63.0	63.0
Saudi Arabia	1,425.0	1,750.0	1,750.0	1,750.0	1,550.0	1,550.0	1,670.0
United Arab Emirates	180.0	180.0	192.5	192.5	192.5	205.0	205.0
Venezuela	1,201.1	1,167.0	1,224.0	1,224.0	1,224.0	1,181.0	1,181.0
OPEC	6,337.0	7,125.3	7,194.8	7,406.3	7,206.3	7,355.8	7,740.4

	1995	1996	1997	1998	1999	2000	2001
Algeria	462.2	462.2	462.2	462.2	462.2	487.0	462.2
Indonesia	891.2	891.2	891.2	929.7	929.7	1,057.0	1,057.0
IR Iran	1,092.0	1,092.0	1,208.0	1,524.0	1,524.0	1,474.0	1,474.0
Iraq	603.0	603.0	603.0	603.0	603.0	603.0	603.0
Kuwait	820.0	797.0	874.5	829.6	899.0	899.0	899.0
SP Libyan AJ	342.0	342.0	342.0	342.0	342.0	380.0	380.0
Nigeria	424.0	424.0	424.0	424.0	424.0	445.0	445.0
Qatar	63.0	63.0	63.0	63.0	63.0	63.0	63.0
Saudi Arabia	1,670.0	1,670.0	1,693.0	1,780.0	1,810.0	1,825.0	1,825.0
United Arab Emirates	211.0	246.0	291.0	291.0	411.0	420.0	491.3
Venezuela	1,181.0	1,183.2	1,183.2	1,200.3	1,188.4	1,183.2	1,183.2
OPEC	7,759.4	7,773.6	8,035.1	8,448.8	8,656.3	8,836.2	8,882.7

Notes: Figures as at year-end. Some figures were converted from barrels per stream day. Totals may not add up due to independent rounding. According to direct communications, refinery capacity for Kuwait was 336,000 b/cd in 1992 and 552,000 b/cd in 1993.

1. Pre-Gulf crisis capacity.

Sources: Direct communications to the Secretariat; OJG; AOG; national sources.

World refinery capacity by region, 1981–2001 (1,000 b/cd)

	1981	1982	1983	1984	1985	1986	1987
North America	20,053.2	19,004.2	18,031.3	17,589.3	17,382.6	17,325.2	17,784.3
Latin America	8,623.5	8,136.2	8,014.9	7,433.1	7,426.2	7,088.3	7,427.3
Eastern Europe ¹	13,708.5	13,858.5	14,108.5	14,038.5	14,038.5	14,298.5	14,277.0
Western Europe	20,576.9	18,359.4	17,332.1	16,755.9	15,303.6	14,881.8	15,205.2
Middle East	4,109.6	3,422.2	3,748.4	3,979.4	4,227.9	4,301.4	4,371.2
Africa	2,186.2	2,278.0	2,324.6	2,539.7	2,603.4	2,612.4	2,658.3
Asia and Pacific	12,609.8	12,969.7	12,547.2	12,445.5	12,372.6	12,540.7	12,392.9
Total world	81,867.8	78,028.2	76,106.9	74,781.4	73,354.8	73,048.3	74,116.2
OPEC	5,870.5	5,011.2	5,759.8	6,058.9	6,331.9	6,296.6	6,394.0
OPEC percentage	7.2	6.4	7.6	8.1	8.6	8.6	8.6

	1988	1989	1990	1991	1992	1993	1994
North America	17,510.7	17,423.8	17,557.7	17,705.1	17,037.5	16,988.9	17,418.5
Latin America	7,357.5	7,564.0	7,765.7	7,538.9	7,604.8	7,443.6	7,387.6
Eastern Europe ¹	14,317.0	14,317.0	12,255.1	12,202.7	12,204.5	12,183.9	12,305.2
Western Europe	14,937.8	14,734.6	14,833.0	14,973.5	15,055.7	14,887.0	14,757.8
Middle East	4,377.7	5,049.2	5,055.8	5,266.9	5,079.9	5,260.1	5,559.1
Africa	2,651.5	2,790.8	2,826.4	2,820.2	2,818.8	2,746.1	2,780.9
Asia and Pacific	12,254.6	12,399.0	12,849.1	13,207.4	14,129.8	14,426.2	14,992.1
Total world	73,406.7	74,278.4	73,142.8	73,714.6	73,930.9	73,935.8	75,201.2
OPEC	6,337.0	7,125.3	7,194.8	7,406.3	7,206.3	7,355.8	7,740.4
OPEC percentage	8.6	9.6	9.8	10.0	9.7	9.9	10.3

	1995	1996	1997	1998	1999	2000	2001
North America	17,359.2	17,324.4	17,627.6	17,802.7	18,452.6	18,444.8	18,508.4
Latin America	7,447.2	7,457.9	7,922.6	7,606.3	7,664.6	8,106.7	7,920.4
Eastern Europe ¹	12,193.9	12,125.4	11,976.2	11,294.4	11,317.3	9,972.2	10,164.6
Western Europe	14,698.9	14,672.2	14,864.4	15,065.0	14,929.2	14,982.5	15,045.9
Middle East	5,565.1	5,528.3	5,781.0	6,134.5	6,353.9	6,337.9	6,409.2
Africa	2,795.9	2,833.3	2,888.3	2,944.5	2,982.5	3,282.5	3,247.3
Asia and Pacific	15,905.8	16,604.3	16,866.6	18,681.8	19,491.0	20,130.0	20,248.2
Total world	75,966.0	76,545.7	77,926.8	79,529.2	81,191.1	81,256.6	81,544.0
OPEC	7,759.4	7,773.6	8,035.1	8,448.8	8,656.3	8,836.2	8,882.7
OPEC percentage	10.2	10.2	10.3	10.6	10.7	10.9	10.9

Notes: Totals may not add up due to independent rounding. Figures as at year-end. Some figures were converted from barrels per stream day.

1. Downward changes as of 1990 reflect more accurate statistics from the countries of the former Soviet Union.

Sources: Direct communications to the Secretariat; OGI; AOG; national sources; Eastern Bloc Research, CIS and East European Energy Databook; China Oil, Gas and Petrochemicals.

Output of refined products in OPEC Members, 1981–2001 (1,000 b/d)

	1981	1982	1983	1984	1985	1986	1987
Algeria	283.7	400.2	386.8	407.9	390.0	433.0	431.0
Indonesia	530.8	534.0	526.1	499.3	501.4	550.0	568.7
IR Iran	626.6	658.7	624.0	618.0	647.0	558.4	541.2
Iraq	190.0	190.5	292.0	340.0	344.0	346.4	351.1
Kuwait	276.3	420.0	468.4	478.9	566.5	599.0	593.1
SP Libyan AJ	111.3	121.6	126.4	128.5	143.9	182.1	204.9
Nigeria	151.9	162.1	151.2	160.2	135.2	136.0	135.2
Qatar	7.8	7.4	8.4	14.2	23.2	29.0	33.0
Saudi Arabia	758.8	804.8	877.2	917.6	1,115.6	1,333.5	1,386.8
United Arab Emirates	54.8	84.0	108.6	142.2	148.5	166.0	168.3
Venezuela	839.8	850.7	833.7	839.7	892.4	895.8	831.4
OPEC	3,831.8	4,234.0	4,402.8	4,546.5	4,907.7	5,229.2	5,244.7

	1988	1989	1990	1991	1992	1993	1994
Algeria	433.3	433.6	435.3	428.6	434.5	426.1	429.8
Indonesia	606.5	640.4	711.2	677.8	649.9	770.5	767.4
IR Iran	614.1	669.9	751.0	806.1	851.4	911.7	916.9
Iraq	351.5	389.2	344.8	274.3	358.0	417.7	457.7
Kuwait	652.2	689.0	554.7	105.7	313.3	449.4	782.4
SP Libyan AJ	222.8	261.5	278.0	282.0	282.4	286.8	295.4
Nigeria	154.8	214.2	257.2	242.8	218.9	220.3	108.4
Qatar	37.6	49.3	57.2	53.2	58.4	49.4	57.1
Saudi Arabia	1,442.3	1,335.2	1,537.6	1,417.1	1,447.5	1,482.0	1,511.3
United Arab Emirates	174.1	177.8	187.7	183.8	185.4	193.4	208.4
Venezuela	975.8	1,010.1	1,038.6	1,087.8	1,050.6	1,069.3	1,126.8
OPEC	5,665.0	5,870.2	6,153.3	5,559.2	5,850.3	6,276.6	6,661.7

	1995	1996	1997	1998	1999	2000	2001
Algeria	440.7	429.4	435.6	410.2	430.6	441.4	456.0
Indonesia	854.3	892.9	887.6	928.4	933.7	968.2	1,006.1
IR Iran	942.0	957.0	974.4	1,337.8	1,361.2	1,316.4	1,364.6
Iraq	447.8	438.3	444.5	459.1	442.8	493.2	531.9
Kuwait	821.7	787.7	879.6	876.1	903.3	729.5	659.7
SP Libyan AJ	300.4	304.7	307.6	317.5	324.9	337.8	341.5
Nigeria	161.3	193.0	192.5	113.6	131.1	88.6	227.8
Qatar	57.8	60.9	54.8	59.5	59.2	57.8	42.1
Saudi Arabia	1,449.9	1,641.0	1,584.4	1,600.3	1,593.2	1,649.7	1,636.9
United Arab Emirates	230.1	234.9	298.4	222.4	232.9	315.3	309.5
Venezuela	1,201.1	1,335.2	1,327.3	1,332.7	1,209.3	1,240.8	1,264.5
OPEC	6,907.0	7,275.0	7,386.7	7,657.5	7,622.2	7,638.7	7,840.7

Notes: Totals may not add up due to independent rounding. Data excludes production of gas plants.

Sources: Direct communications to the Secretariat; national sources; UN, Energy Statistics Yearbook; OAPC Report; OECD, Energy Statistics and Balances of non-OECD Countries.

World output of refined products by region, 1981–2001 (1,000 b/d)

	1981	1982	1983	1984	1985	1986	1987
North America	15,771.0	14,927.1	14,604.5	15,162.9	15,221.4	15,912.0	16,162.6
Latin America	5,781.0	5,554.3	5,274.7	5,352.4	5,078.7	5,100.8	5,226.3
Eastern Europe	10,453.8	10,375.4	10,459.8	10,018.1	9,848.9	10,702.5	10,803.8
Western Europe	12,552.5	11,970.6	11,890.3	11,888.9	11,626.2	12,409.3	12,298.4
Middle East	2,599.3	2,810.5	3,045.7	3,218.4	3,558.6	3,790.3	3,847.6
Africa	1,531.2	1,704.5	1,736.2	1,724.7	1,735.6	1,826.5	1,864.1
Asia and Pacific	8,892.5	8,698.9	8,884.6	8,984.9	8,818.0	9,085.3	9,276.3
Total world	57,581.3	56,041.3	55,896.0	56,350.2	55,887.4	58,826.7	59,479.1
OPEC	3,831.8	4,234.0	4,402.8	4,546.5	4,907.7	5,229.2	5,244.7
OPEC percentage	6.7	7.6	7.9	8.1	8.8	8.9	8.8

	1988	1989	1990	1991	1992	1993	1994
North America	16,639.3	16,860.7	16,986.4	16,911.2	17,013.5	17,522.4	17,628.6
Latin America	5,356.4	5,554.8	5,706.2	5,777.4	5,910.4	6,045.3	6,258.2
Eastern Europe	10,698.9	10,546.6	9,850.4	9,202.5	7,762.4	6,849.0	5,996.7
Western Europe	12,844.9	12,868.7	13,234.6	13,436.9	13,829.2	13,930.0	14,266.8
Middle East	4,057.9	4,102.4	4,278.5	3,696.4	4,117.2	4,409.1	4,864.9
Africa	1,944.4	2,090.4	2,190.2	2,183.8	2,168.8	2,231.2	2,201.7
Asia and Pacific	9,683.1	10,387.6	11,056.2	11,758.2	12,505.6	13,344.7	13,819.5
Total world	61,224.8	62,411.2	63,302.6	62,966.5	63,307.1	64,331.9	65,036.3
OPEC	5,665.0	5,870.2	6,153.3	5,559.2	5,850.3	6,276.6	6,661.7
OPEC percentage	9.3	9.4	9.7	8.8	9.2	9.8	10.2

	1995	1996	1997	1998	1999	2000	2001
North America	17,833.2	18,355.2	18,675.2	18,918.4	18,934.9	19,305.1	19,200.2
Latin America	6,223.7	6,469.6	6,554.7	6,750.3	6,592.6	6,653.1	6,801.6
Eastern Europe	6,014.0	5,814.7	5,839.8	5,768.0	5,697.9	5,828.0	6,165.4
Western Europe	14,241.7	14,590.2	14,885.9	15,262.7	14,572.8	14,833.1	14,774.8
Middle East	4,881.3	5,060.4	5,190.6	5,534.4	5,554.4	5,534.2	5,521.1
Africa	2,325.4	2,360.1	2,365.1	2,298.6	2,376.3	2,404.8	2,584.4
Asia and Pacific	14,604.8	15,540.9	16,351.5	16,306.8	17,256.7	17,843.9	17,941.8
Total world	66,124.1	68,191.0	69,862.9	70,839.1	70,985.5	72,402.2	72,989.1
OPEC	6,907.0	7,275.0	7,386.7	7,657.5	7,622.2	7,638.7	7,840.7
OPEC percentage	10.4	10.7	10.6	10.8	10.7	10.6	10.7

Notes: Totals may not add up due to independent rounding. Revisions have been made throughout the time series. Data excludes production of gas plants.

Sources: Direct communications to the Secretariat; UN, Energy Statistics Yearbook; OECD, Monthly Oil and Gas Statistics, Energy Statistics and Balances of non-OECD Countries; BP Statistical Review; national sources; OAEPC Report.

Consumption of refined products in OPEC Members, 1981–2001 (1,000 b/d)

	1981	1982	1983	1984	1985	1986	1987
Algeria	103.9	116.4	122.2	140.5	143.5	147.2	152.6
Indonesia	458.7	479.7	467.6	468.6	462.8	470.0	491.6
IR Iran	618.1	719.1	871.4	723.0	735.0	711.5	751.0
Iraq	204.6	203.2	249.7	234.2	256.0	261.3	281.3
Kuwait	49.4	67.9	74.4	89.5	101.7	96.1	85.0
SP Libyan AJ	109.7	118.8	117.3	108.5	103.0	94.0	99.5
Nigeria	235.8	236.3	225.9	203.3	214.0	196.3	218.7
Qatar	6.8	7.8	8.5	8.9	10.5	11.6	11.6
Saudi Arabia	498.6	546.6	603.6	651.8	632.1	621.3	632.0
United Arab Emirates	72.5	83.7	85.0	98.3	100.9	102.6	109.4
Venezuela	389.4	391.2	384.2	352.1	355.8	375.9	377.7
OPEC	2,747.5	2,970.7	3,209.8	3,078.7	3,115.3	3,087.8	3,210.4

	1988	1989	1990	1991	1992	1993	1994
Algeria	158.0	168.1	177.5	162.3	190.7	186.8	177.3
Indonesia	514.0	547.9	629.7	661.4	701.4	711.4	751.7
IR Iran	766.0	778.5	853.8	892.6	940.7	960.2	920.0
Iraq	294.7	303.3	324.7	308.8	440.3	563.6	623.5
Kuwait	75.0	72.4	65.2	66.2	101.1	95.2	106.2
SP Libyan AJ	104.3	107.7	100.5	105.9	107.5	125.5	153.5
Nigeria	231.7	247.8	254.8	234.6	244.9	211.1	160.4
Qatar	12.5	13.0	13.2	12.8	13.9	13.7	16.3
Saudi Arabia	685.9	701.4	680.0	676.3	729.4	767.5	792.4
United Arab Emirates	112.7	114.3	115.9	118.8	124.9	133.1	132.1
Venezuela	386.8	367.5	375.0	379.8	402.3	419.8	412.1
OPEC	3,341.6	3,421.9	3,590.3	3,619.5	3,997.2	4,188.1	4,245.5

	1995	1996	1997	1998	1999	2000	2001
Algeria	172.7	168.7	163.6	171.2	175.8	185.6	187.7
Indonesia	774.7	846.4	928.6	880.3	925.7	988.5	1,017.2
IR Iran	945.0	984.1	981.6	1,318.0	1,192.2	1,189.0	1,222.0
Iraq	612.9	594.5	601.4	620.7	599.6	655.3	694.0
Kuwait	117.6	114.1	131.8	158.8	163.8	167.6	168.1
SP Libyan AJ	174.1	175.3	174.1	170.8	167.8	155.5	159.7
Nigeria	186.1	199.7	206.0	198.6	184.3	206.7	242.4
Qatar	17.2	19.3	21.6	23.2	22.2	23.6	25.4
Saudi Arabia	751.2	807.4	814.5	865.8	908.4	937.0	982.0
United Arab Emirates	125.5	123.0	115.0	130.0	127.9	135.1	137.8
Venezuela	416.6	403.5	411.1	441.7	383.2	410.0	418.3
OPEC	4,293.7	4,455.0	4,567.7	4,995.4	4,872.7	5,053.8	5,254.7

World consumption of refined products by region, 1981–2001 (1,000 b/d)

	1981	1982	1983	1984	1985	1986	1987
North America	17,055.2	16,145.2	15,903.5	16,641.7	16,547.9	17,092.8	17,548.7
Latin America	4,580.6	4,477.5	4,262.4	4,317.1	4,298.0	4,549.5	4,714.3
Eastern Europe	10,511.6	10,519.5	10,506.6	10,422.0	10,506.8	10,490.8	10,550.1
Western Europe	11,980.4	11,484.7	11,195.2	11,201.7	11,419.6	11,767.9	11,889.9
Middle East	1,834.8	2,025.8	2,318.5	2,263.6	2,284.3	2,277.9	2,379.3
Africa	1,422.0	1,447.0	1,517.1	1,519.4	1,549.8	1,531.9	1,633.5
Asia and Pacific	10,172.3	10,036.2	10,181.4	10,012.0	9,905.2	10,377.3	10,671.2
Total world	57,556.9	56,135.9	55,884.6	56,377.5	56,511.5	58,088.1	59,386.9
OPEC	2,747.5	2,970.7	3,209.8	3,078.7	3,115.3	3,087.8	3,210.4
OPEC percentage	4.8	5.3	5.7	5.5	5.5	5.3	5.4

	1988	1989	1990	1991	1992	1993	1994
North America	18,225.0	18,260.4	17,572.5	17,132.1	17,528.3	17,946.1	18,485.7
Latin America	4,806.8	4,943.1	4,962.4	5,153.4	5,337.7	5,455.8	5,764.1
Eastern Europe	10,316.0	10,039.3	9,771.7	9,396.9	8,011.1	6,824.5	5,916.5
Western Europe	12,106.1	12,095.1	12,223.9	12,566.3	12,697.5	12,659.2	12,709.4
Middle East	2,449.5	2,476.7	2,582.4	2,714.6	3,012.7	3,274.2	3,376.8
Africa	1,700.7	1,754.2	1,778.3	1,828.5	1,902.8	1,836.6	1,858.9
Asia and Pacific	11,286.4	11,983.6	12,746.0	13,271.0	14,150.5	15,077.8	15,943.3
Total world	60,890.4	61,552.3	61,637.3	62,062.8	62,640.6	63,074.1	64,054.7
OPEC	3,341.6	3,421.9	3,590.3	3,619.5	3,997.2	4,188.1	4,245.5
OPEC percentage	5.5	5.6	5.8	5.8	6.4	6.7	6.7

	1995	1996	1997	1998	1999	2000	2001
North America	18,395.9	18,929.9	19,373.5	19,701.8	20,378.1	20,463.1	20,369.9
Latin America	5,863.7	5,926.5	6,197.9	6,405.0	6,239.6	6,370.4	6,240.7
Eastern Europe	5,884.0	5,407.6	5,543.6	5,381.0	5,144.4	4,834.3	5,009.0
Western Europe	12,995.9	13,376.7	13,450.1	13,735.4	13,802.8	13,691.2	13,911.3
Middle East	3,385.8	3,469.0	3,521.0	4,004.8	3,947.4	4,046.9	4,187.3
Africa	1,935.7	1,972.0	2,034.4	2,092.6	2,106.7	2,059.8	2,111.7
Asia and Pacific	16,747.6	17,650.9	18,475.3	17,881.1	18,815.5	19,355.2	19,312.7
Total world	65,208.7	66,732.7	68,595.9	69,201.7	70,434.5	70,820.8	71,142.7
OPEC	4,293.7	4,436.0	4,549.4	4,979.0	4,850.9	5,053.8	5,254.7
OPEC percentage	6.6	6.7	6.7	7.3	7.0	7.2	7.2

Note: Revisions have been made throughout the time series.

Sources: Direct communications to the Secretariat; UN, Energy Statistics Yearbook; OECD, Monthly Oil Data Statistics, World Energy Statistics and Balances; BP Statistical Review; national sources; OPEC Report; OLADE Data Bank.

Crude oil exports by OPEC Members, 1981–2001 (1,000 b/d)

	1981	1982	1983	1984	1985	1986	1987
Algeria	521.8	228.9	260.4	181.6	272.0	255.0	240.0
Indonesia	992.5	818.6	858.3	876.3	705.7	793.8	701.0
IR Iran	714.6	1,623.2	1,718.7	1,521.8	1,568.3	1,454.0	1,710.0
Iraq	872.0	846.0	702.0	867.0	1,085.4	1,393.5	1,717.0
Kuwait	813.8	368.8	544.4	658.0	475.9	756.0	607.0
SP Libyan AJ	1,062.5	974.0	937.4	929.6	894.6	1,067.0	810.0
Nigeria	1,228.4	1,002.8	935.2	1,094.1	1,333.3	1,221.2	1,065.2
Qatar	391.0	322.8	279.5	386.2	280.0	307.0	254.0
Saudi Arabia	9,017.9	5,639.4	3,920.8	3,186.9	2,150.7	3,265.8	2,416.5
United Arab Emirates	1,439.0	1,167.0	1,077.3	1,036.7	977.7	1,132.0	1,250.0
Venezuela	1,266.0	1,057.9	976.7	998.9	825.9	948.7	1,026.9
OPEC	18,319.5	14,049.4	12,210.7	11,737.1	10,569.5	12,594.0	11,797.6

	1988	1989	1990	1991	1992	1993	1994
Algeria	244.0	280.5	280.6	344.7	279.4	308.0	329.2
Indonesia	646.6	675.7	684.7	798.8	652.0	681.6	792.6
IR Iran	1,696.0	2,120.0 ¹	2,220.0 ¹	2,420.0 ¹	2,528.0	2,600.0	2,650.0
Iraq	2,095.0	2,260.0	1,596.0	39.0	60.7	59.2	60.0
Kuwait	698.0	850.0	645.0	85.0	695.6	1,440.0	1,263.5
SP Libyan AJ	890.0	872.0	1,090.0	1,220.0	1,180.0	1,110.0	1,125.0
Nigeria	1,110.5	1,525.9	1,550.0	1,610.0	1,585.0	1,557.0	1,590.0
Qatar	305.0	320.0	347.8	336.6	362.3	340.6	322.6
Saudi Arabia	3,030.1	3,335.5	4,499.8	6,526.3	6,581.9	6,292.9	6,233.6
United Arab Emirates	1,345.0	1,650.0	1,895.0	2,195.0	2,060.0	1,970.0	1,955.0
Venezuela	972.7	986.3	1,242.0	1,381.3	1,429.0	1,540.3	1,696.4
OPEC	13,032.9	14,875.9	16,050.9	16,956.7	17,413.9	17,899.6	18,017.9

	1995	1996	1997	1998	1999	2000	2001
Algeria	332.8	390.8	373.1	549.4	414.6	461.1	441.5
Indonesia	743.9	706.7	709.7	678.0	781.9	622.5	599.2
IR Iran	2,621.0	2,630.0	2,587.0	2,512.0	2,291.0	2,492.2	2,446.0*
Iraq	63.5	88.1	746.6	1,417.6	2,130.9	2,039.8*	1,710.2
Kuwait	1,186.4	1,224.2	1,134.2	1,190.2	948.2	1,230.7*	1,214.1*
SP Libyan AJ	1,120.3	1,123.4	1,115.7	1,161.0	991.7	1,005.0	987.6*
Nigeria	1,665.0	1,812.9	1,855.5	1,832.8	1,705.1	1,986.4	2,089.4
Qatar	333.0	367.0	465.0	572.4	580.5	617.6	605.5*
Saudi Arabia	6,290.8	6,109.3	6,184.5	6,390.4	5,719.7	6,253.1	6,035.9
United Arab Emirates	1,925.0	1,943.2	1,949.0	2,039.0	1,919.0	1,814.9	1,786.7
Venezuela	1,819.9	1,976.4	2,210.8	2,243.9	1,923.0	2,003.5	1,964.7*
OPEC	18,101.6	18,372.0	19,331.1	20,586.9	19,405.5	20,526.7*	19,880.8*

Notes: Data includes re-exports.

1. Corresponds to a fiscal year ending March 20.

Sources: Direct communications to the Secretariat; UN, Energy Statistics Yearbook; OECD, Monthly Oil Data Statistics, Energy Statistics of OECD/non-OECD Countries; secondary sources.

OPEC crude oil exports by region, 1981–2001 (1,000 b/d)

	1981	1982	1983	1984	1985	1986	1987
North America	2,987.4	1,559.8	1,289.6	1,258.9	1,169.7	2,131.6	2,450.3
United States	2,657.7	1,371.9	1,179.6	1,164.2	1,077.4	1,984.8	2,333.9
Latin America	1,763.0	1,370.0	1,210.4	1,120.5	908.6	811.9	657.4
Eastern Europe	180.2	172.4	122.0	197.2	221.2	431.7	408.0
Western Europe	7,117.9	5,510.3	4,637.8	4,623.5	4,425.3	5,181.1	4,321.5
France	1,428.1	1,121.7	875.1	840.3	709.7	795.4	484.4
Germany	949.8	810.6	653.8	498.7	414.4	522.2	467.7
Italy	1,318.6	1,223.5	1,052.5	1,027.8	986.8	1,142.2	997.6
United Kingdom	487.9	373.3	240.9	182.8	208.6	255.3	182.3
Middle East	436.8	479.1	387.0	371.1	384.3	425.2	305.7
Africa	295.6	202.0	147.2	160.9	158.8	195.4	220.1
Asia and Pacific	5,538.6	4,714.3	4,372.2	3,952.0	3,293.1	3,417.1	3,434.3
Japan	3,083.1	2,788.2	2,699.2	2,709.5	2,301.2	2,166.6	2,291.2
Unspecified	–	41.5	44.5	53.0	8.5	–	0.3
Total world	18,319.5	14,049.4	12,210.7	11,737.1	10,569.5	12,594.0	11,797.6

	1988	1989	1990	1991	1992	1993	1994
North America	2,714.7	3,372.7	3,770.0	3,714.4	3,391.2	3,690.1	3,768.1
United States	2,603.6	3,206.1	3,570.6	3,511.5	3,306.5	3,542.2	3,555.3
Latin America	716.8	667.3	708.9	661.4	844.0	766.8	810.6
Eastern Europe	473.0	518.2	332.0	230.0	241.6	142.9	174.5
Western Europe	4,649.5	5,147.1	5,362.9	5,552.6	5,515.9	5,578.4	5,267.5
France	542.3	639.9	730.6	858.3	837.0	1,025.6	892.5
Germany	561.0	651.3	700.3	738.9	741.1	626.5	744.8
Italy	888.1	982.0	1,134.6	1,235.4	1,142.4	1,120.0	938.9
United Kingdom	240.0	206.0	296.8	285.4	270.3	347.5	231.0
Middle East	280.4	284.4	300.9	286.9	309.3	298.8	313.3
Africa	196.4	231.0	294.3	356.7	281.3	277.0	296.2
Asia and Pacific	3,959.4	4,655.2	5,281.9	6,154.7	6,805.1	7,124.6	7,387.7
Japan	2,321.6	2,682.5	2,964.5	3,128.2	3,253.5	3,371.2	3,598.7
Unspecified	42.7	–	–	–	25.5	21.0	–
Total world	13,032.9	14,875.9	16,050.9	16,956.7	17,413.9	17,899.6	18,017.9

	1995	1996	1997	1998	1999	2000	2001
North America	3,676.8	3,689.2	4,214.0	4,731.0	4,455.1	4,798.0	4,945.7
United States	3,439.9	3,463.4	3,960.2	4,448.1	4,175.6	4,515.9	4,640.8
Latin America	675.0	800.4	713.1	771.4	826.2	913.5	935.1
Eastern Europe	197.9	183.9	234.0	247.6	181.3	205.1	158.7
Western Europe	5,110.1	5,053.6	5,307.1	5,827.3	4,981.0	5,112.4	4,448.0
France	882.9	839.8	850.1	992.9	824.5	804.7	718.5
Germany	597.9	576.2	532.4	550.1	478.5	499.7	419.0
Italy	1,028.9	1,113.6	1,258.9	1,357.6	1,188.7	1,212.2	1,027.4
United Kingdom	203.5	183.8	134.5	148.5	86.8	76.2	83.5
Middle East	304.2	312.4	307.8	310.1	293.6	272.1	273.6
Africa	506.0	517.3	563.7	578.4	557.7	621.8	598.1
Asia and Pacific	7,620.7	7,759.3	7,985.9	8,104.1	7,900.1	8,271.8	8,178.5
Japan	3,598.0	3,558.2	3,743.3	3,563.2	3,492.8	3,542.5	3,581.3
Unspecified	10.9	55.9	5.4	16.8	210.5	332.1	343.0
Total world	18,101.6	18,372.0	19,331.1	20,586.9	19,405.5	20,526.7	19,880.8

Note: Data includes re-exports.

Sources: Direct communications to the Secretariat; UN, Energy Statistics Yearbook; secondary sources; Secretariat's estimates.

Share of total OPEC crude oil exports by region, 1981–2001 (per cent)

	1981	1982	1983	1984	1985	1986	1987
North America	16.3	11.1	10.6	10.7	11.1	16.9	20.8
United States	14.5	9.8	9.7	9.9	10.2	15.8	19.8
Latin America	9.6	9.8	9.9	9.5	8.6	6.4	5.6
Eastern Europe	1.0	1.2	1.0	1.7	2.1	3.4	3.5
Western Europe	38.9	39.2	38.0	39.4	41.9	41.1	36.6
France	7.8	8.0	7.2	7.2	6.7	6.3	4.1
Germany	5.2	5.8	5.4	4.2	3.9	4.1	4.0
Italy	7.2	8.7	8.6	8.8	9.3	9.1	8.5
United Kingdom	2.7	2.7	2.0	1.6	2.0	2.0	1.5
Middle East	2.4	3.4	3.2	3.2	3.6	3.4	2.6
Africa	1.6	1.4	1.2	1.4	1.5	1.6	1.9
Asia and Pacific	30.2	33.6	35.8	33.7	31.2	27.1	29.1
Japan	16.8	19.8	22.1	23.1	21.8	17.2	19.4
Unspecified	–	0.3	0.4	0.5	0.1	–	–
Total world	100	100	100	100	100	100	100

	1988	1989	1990	1991	1992	1993	1994
North America	20.8	22.7	23.5	21.9	19.5	20.6	20.9
United States	20.0	21.6	22.2	20.7	19.0	19.8	19.7
Latin America	5.5	4.5	4.4	3.9	4.8	4.3	4.5
Eastern Europe	3.6	3.5	2.1	1.4	1.4	0.8	1.0
Western Europe	35.7	34.6	33.4	32.7	31.7	31.2	29.2
France	4.2	4.3	4.6	5.1	4.8	5.7	5.0
Germany	4.3	4.4	4.4	4.4	4.3	3.5	4.1
Italy	6.8	6.6	7.1	7.3	6.6	6.3	5.2
United Kingdom	1.8	1.4	1.8	1.7	1.6	1.9	1.3
Middle East	2.2	1.9	1.9	1.7	1.8	1.7	1.7
Africa	1.5	1.6	1.8	2.1	1.6	1.5	1.6
Asia and Pacific	30.4	31.3	32.9	36.3	39.1	39.8	41.0
Japan	17.8	18.0	18.5	18.4	18.7	18.8	20.0
Unspecified	0.3	–	–	–	0.1	0.1	–
Total world	100	100	100	100.0	100.0	100.0	100.0

	1995	1996	1997	1998	1999	2000	2001
North America	20.3	20.1	21.8	23.0	23.0	23.4	24.9
United States	19.0	18.9	20.5	21.6	21.5	22.0	23.3
Latin America	3.7	4.4	3.7	3.7	4.3	4.5	4.7
Eastern Europe	1.1	1.0	1.2	1.2	0.9	1.0	0.8
Western Europe	28.2	27.5	27.5	28.3	25.7	24.9	22.4
France	4.9	4.6	4.4	4.8	4.2	3.9	3.6
Germany	3.3	3.1	2.8	2.7	2.5	2.4	2.1
Italy	5.7	6.1	6.5	6.6	6.1	5.9	5.2
United Kingdom	1.1	1.0	0.7	0.7	0.4	0.4	0.4
Middle East	1.7	1.7	1.6	1.5	1.5	1.3	1.4
Africa	2.8	2.8	2.9	2.8	2.9	3.0	3.0
Asia and Pacific	42.1	42.2	41.3	39.4	40.7	40.3	41.1
Japan	19.9	19.4	19.4	17.3	18.0	17.3	18.0
Unspecified	0.1	0.3	0.0	0.1	1.1	1.6	1.7
Total world	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Note: Data includes re-exports.

Sources: Direct communications to the Secretariat; UN, Energy Statistics Yearbook; secondary sources; Secretariat's estimates.

World crude oil exports by region, 1981–2001 (1,000 b/d)

	1981	1982	1983	1984	1985	1986	1987
North America	386.7	440.9	446.0	533.5	687.0	736.3	771.0
Latin America	2,655.3	2,828.0	2,825.0	2,842.8	2,613.3	2,649.0	2,764.3
Eastern Europe	2,372.9	2,429.6	2,515.1	2,563.1	2,299.3	2,535.1	2,684.6
Western Europe	1,535.0	1,708.8	1,951.5	2,226.6	2,346.2	2,523.7	2,597.5
Middle East	13,681.9	10,393.2	8,705.1	8,122.2	7,072.9	8,880.2	8,585.1
Africa	3,566.2	2,970.6	3,000.4	3,243.1	3,662.7	3,679.4	3,366.1
Asia and Pacific	1,651.5	1,628.0	1,726.5	1,977.8	1,959.2	2,007.6	1,880.2
Total world	25,849.5	22,399.1	21,169.6	21,509.1	20,640.6	23,011.3	22,648.8
OPEC	18,319.5	14,049.4	12,210.7	11,737.1	10,569.5	12,594.0	11,797.6
OPEC percentage	70.9	62.7	57.7	54.6	51.2	54.7	52.1

	1988	1989	1990	1991	1992	1993	1994
North America	864.4	788.3	763.0	878.7	926.4	1,015.5	1,081.3
Latin America	2,735.1	2,716.0	3,001.0	3,219.6	3,340.0	3,496.2	3,743.3
Eastern Europe	2,822.9	2,502.1	2,132.9	1,215.0	1,479.7	1,802.0	1,878.1
Western Europe	2,512.6	2,461.3	2,650.6	2,935.5	3,178.8	3,475.8	4,172.3
Middle East	9,960.7	11,430.2	12,212.3	12,607.9	13,332.9	13,888.5	13,764.0
Africa	3,539.5	4,053.1	4,364.3	4,697.9	4,599.7	4,534.6	4,401.3
Asia and Pacific	1,893.1	1,878.5	2,099.1	2,303.5	2,228.9	2,245.2	2,301.5
Total world	24,328.3	25,829.5	27,223.2	27,858.1	29,086.5	30,457.8	31,341.8
OPEC	13,032.9	14,875.9	16,050.9	16,956.7	17,413.9	17,899.6	18,017.9
OPEC percentage	53.6	57.6	59.0	60.9	59.9	58.8	57.5

	1995	1996	1997	1998	1999	2000*	2001*
North America	1,152.5	1,182.3	1,139.6	1,258.7	1,168.0	1,226.7	1,153.9
Latin America	4,075.4	4,585.6	5,061.7	5,188.5	4,715.5	5,039.5	5,060.9
Eastern Europe	1,888.9	2,069.0	2,177.9	2,428.2	2,565.0	3,058.3	3,346.1
Western Europe	4,281.3	4,408.7	4,569.2	4,525.7	4,670.5	4,985.2	4,904.9
Middle East	13,795.6	13,820.0	14,553.7	15,597.9	15,147.0	16,016.5	15,390.6
Africa	4,571.9	4,876.0	5,035.2	5,226.1	4,863.0	5,172.4	5,261.5
Asia and Pacific	2,284.8	2,214.9	2,275.6	2,210.7	2,222.1	2,266.2	2,214.8
Total world	32,050.4	33,156.5	34,812.9	36,435.8	35,351.0	37,764.9	37,332.7
OPEC	18,101.6	18,372.0	19,331.1	20,586.9	19,405.5	20,526.7	19,880.8
OPEC percentage	56.5	55.4	55.5	56.5	54.9	54.4	53.3

Notes: Data includes re-exports. Revisions have been made throughout the time series.

Sources: Direct communications to the Secretariat; UN, Energy Statistics Yearbook; OECD, Monthly Oil Data Statistics, Energy Statistics of OECD/non-OECD Countries; secondary sources.

Exports of refined products by OPEC Members, 1981–2001 (1,000 b/d)

	1981	1982	1983	1984	1985	1986	1987
Algeria	201.8	404.3	291.6	399.9	320.0	376.0	365.0
Indonesia	155.8	121.1	130.2	191.9	149.8	159.3	187.9
IR Iran	140.0	181.0	57.0	56.7	39.4	10.0	3.0
Iraq	53.9	0.1	38.3	49.6	12.3	7.8	110.0
Kuwait	280.8	370.4	414.3	394.9	492.9	525.0	553.0
SP Libyan AJ	62.1	78.0	78.7	76.8	90.9	101.9	110.5
Nigeria	43.4	10.9	16.3	20.0	20.0	8.8	15.7
Qatar	13.2	11.6	16.8	26.0	28.3	36.0	41.1
Saudi Arabia	484.9	507.6	389.2	442.1	574.3	712.3	1,021.4
United Arab Emirates	37.7	45.7	60.7	97.7	92.1	111.6	114.0
Venezuela	476.2	476.2	507.6	502.3	530.7	572.1	477.3
OPEC	1,949.8	2,206.9	2,000.7	2,257.9	2,350.7	2,620.8	2,998.9

	1988	1989	1990	1991	1992	1993	1994
Algeria	375.0	393.3	452.8	400.0	419.1	374.6	384.0
Indonesia	204.9	230.8	239.7	230.0	254.4	239.1	250.1
IR Iran	8.0	38.0	60.0	88.0	70.0	70.0	119.5
Iraq	110.0	145.0	126.2	11.5	16.1	17.6	17.8
Kuwait	635.0	690.0	380.0	40.0	256.0	419.0	622.3
SP Libyan AJ	90.0	127.5	150.0	140.0	170.0	142.0	130.0
Nigeria	21.0	30.0	30.0	31.0	30.0	32.5	25.0
Qatar	44.0	75.0	74.0	81.6	103.8	116.2	103.0
Saudi Arabia	1,141.0	1,072.6	1,305.8	1,226.1	1,287.6	1,385.7	1,360.1
United Arab Emirates	117.0	155.0	165.0	170.0	173.0	160.0	155.0
Venezuela	622.5	617.7	616.8	712.0	615.2	634.5	633.5
OPEC	3,368.4	3,574.9	3,600.3	3,130.2	3,395.2	3,591.2	3,800.3

	1995	1996	1997	1998	1999	2000	2001
Algeria	395.8	406.1	462.3	461.9	599.7	544.3	555.8
Indonesia	294.1	297.1	257.3	220.8	191.9	188.8	196.3*
IR Iran	165.6	172.5 ^f	225.9 ^f	277.8 ^f	362.9 ^g	347.3 ^f	307.7*
Iraq	18.3	23.6	18.9	23.0	23.0	23.0	25.0*
Kuwait	794.2	751.5	848.0	795.0	838.6	674.5	642.3*
SP Libyan AJ	132.7 ^f	125.3 ^f	147.9 ^f	168.6	201.2	237.0	225.0*
Nigeria	38.8	22.6	25.3	3.8	14.1	17.3	45.7
Qatar	98.0	107.0	125.0	95.1	75.3	75.3	78.1*
Saudi Arabia	1,321.6	1,492.0	1,392.9	1,368.9	1,279.7	1,228.1	1,082.6
United Arab Emirates	269.1	271.9	323.1	319.1	331.0	391.7 ^f	398.2
Venezuela	688.3	742.1	841.5	846.2	828.0	779.6	761.1*
OPEC	4,216.5^f	4,411.7^f	4,668.0^f	4,580.2^f	4,745.3^f	4,506.8^f	4,317.8^g

Note: Data includes re-exports and exports of petroleum products from gas plants.

Sources: Direct communications to the Secretariat; UN, Energy Statistics Yearbook; OECD, Monthly Oil Data Statistics, Energy Statistics of OECD/non-OECD Countries; secondary sources.

World exports of refined products by region, 1981–2001 (1,000 b/d)

	1981	1982	1983	1984	1985	1986	1987
North America	610.4	806.3	802.8	777.8	818.4	813.1	829.4
Latin America	1,824.6	1,770.6	1,749.5	1,736.0	1,473.2	1,454.5	1,429.2
Eastern Europe	1,391.3	1,413.9	1,500.4	1,463.4	1,372.1	1,552.9	1,584.4
Western Europe	2,710.7	2,898.8	3,064.4	3,012.8	2,990.2	3,336.8	3,245.4
Middle East	1,334.5	1,393.1	1,249.0	1,361.6	1,533.4	1,756.6	2,212.6
Africa	412.3	599.9	488.9	607.4	539.3	599.0	637.1
Asia and Pacific	920.3	995.5	1,061.4	1,196.2	1,151.7	1,247.3	1,333.9
Total world	9,204.1	9,878.1	9,916.4	10,155.2	9,878.3	10,760.2	11,272.0
OPEC	1,949.8	2,206.9	2,000.7	2,257.9	2,350.7	2,620.8	2,998.9
OPEC percentage	21.2	22.3	20.2	22.2	23.8	24.4	26.6

	1988	1989	1990	1991	1992	1993	1994
North America	955.9	1,005.8	1,071.8	1,230.8	1,187.9	1,123.7	1,123.7
Latin America	1,599.9	1,651.6	1,651.4	1,755.2	1,669.7	1,827.8	1,787.1
Eastern Europe	1,561.4	1,519.1	1,169.6	996.2	759.8	913.0	1,018.1
Western Europe	3,331.6	3,443.0	3,637.9	3,673.4	3,855.3	4,047.1	4,090.2
Middle East	2,418.2	2,550.7	2,509.9	2,005.8	2,308.9	2,551.4	2,765.7
Africa	642.0	726.9	828.4	779.3	845.7	826.3	852.7
Asia and Pacific	1,354.6	1,539.8	1,608.3	1,665.6	1,821.0	1,968.4	2,088.6
Total world	11,863.6	12,436.9	12,477.3	12,106.2	12,448.3	13,257.8	13,726.0
OPEC	3,368.4	3,574.9	3,600.3	3,130.2	3,395.2	3,591.2	3,800.3
OPEC percentage	28.4	28.7	28.9	25.9	27.3	27.1	27.7

	1995	1996	1997	1998	1999*	2000*	2001*
North America	1,147.3	1,203.6	1,251.3	1,174.2	1,171.2	1,360.3	1,374.5
Latin America	1,772.4	1,848.1	2,002.2	2,130.5	2,079.2	2,063.9	2,131.7
Eastern Europe	1,044.6	1,188.9	1,220.7	1,112.8	1,143.8	1,325.8	1,512.3
Western Europe	3,936.6	4,154.9	4,246.3	4,263.2	4,252.7	4,436.1	4,454.1
Middle East	3,023.7	3,197.3	3,335.9	3,284.2	3,302.1	3,140.3	2,962.6
Africa	867.1	871.0	1,049.4	957.6	1,162.2	1,142.7	1,193.6
Asia and Pacific	2,355.5	2,697.1	2,970.8	2,936.4	2,852.7	2,844.1	2,869.8
Total world	14,147.1	15,160.9	16,076.7	15,858.9	15,963.9	16,313.0	16,498.5
OPEC	4,216.5	4,411.7	4,668.0	4,580.2	4,745.3	4,506.8	4,317.8
OPEC percentage	29.8	29.1	29.0	28.9	29.7	27.6	26.2

Notes: Data includes re-exports and exports of petroleum products from gas plants. Revisions have been made throughout the time series.

Sources: Direct communications to the Secretariat; UN, Energy Statistics Yearbook; OECD, Energy Statistics of OECD/non-OECD Countries; secondary sources; Secretariat's estimates.

Exports of crude oil and refined products by OPEC Members, 1981–2001 (1,000 b/d)

	1981	1982	1983	1984	1985	1986	1987
Algeria	723.6	633.2	552.0	581.5	592.0	631.0	605.0
Indonesia	1,148.3	939.7	988.5	1,068.2	855.5	953.1	888.9
IR Iran	854.6	1,804.2	1,775.7	1,578.5	1,607.7	1,464.0	1,713.0
Iraq	925.9	846.1	740.3	916.6	1,097.7	1,401.3	1,827.0
Kuwait	1,094.6	739.2	958.7	1,052.9	968.8	1,281.0	1,160.0
SP Libyan AJ	1,124.6	1,052.0	1,016.1	1,006.4	985.5	1,168.9	920.5
Nigeria	1,271.8	1,013.7	951.5	1,114.1	1,353.3	1,230.0	1,080.9
Qatar	404.2	334.4	296.3	412.2	308.3	343.0	295.1
Saudi Arabia	9,502.8	6,147.0	4,310.0	3,629.0	2,725.0	3,978.1	3,437.9
United Arab Emirates	1,476.7	1,212.7	1,138.0	1,134.4	1,069.8	1,243.6	1,364.0
Venezuela	1,742.2	1,534.1	1,484.3	1,501.2	1,356.6	1,520.8	1,504.2
OPEC	20,269.3	16,256.3	14,211.4	13,995.0	12,920.2	15,214.8	14,796.5

	1988	1989	1990	1991	1992	1993	1994
Algeria	619.0	673.8	733.4	744.7	698.5	682.6	713.2
Indonesia	851.5	906.5	924.4	1,028.8	906.4	920.7	1,042.7
IR Iran	1,704.0	2,158.0 ¹	2,280.0 ¹	2,508.0 ¹	2,598.0	2,670.0	2,769.5
Iraq	2,205.0	2,405.0	1,722.2	50.5	76.8	76.9	77.8
Kuwait	1,333.0	1,540.0	1,025.0	125.0	951.6	1,859.0	1,885.8
SP Libyan AJ	980.0	999.5	1,240.0	1,360.0	1,350.0	1,252.0	1,255.0
Nigeria	1,131.5	1,555.9	1,580.0	1,641.0	1,615.0	1,589.5	1,615.0
Qatar	349.0	395.0	421.8	418.2	466.1	456.8	425.6
Saudi Arabia	4,171.1	4,408.1	5,805.6	7,752.4	7,869.5	7,678.6	7,593.7
United Arab Emirates	1,462.0	1,805.0	2,060.0	2,365.0	2,233.0	2,130.0	2,110.0
Venezuela	1,595.2	1,604.0	1,858.8	2,093.3	2,044.2	2,174.8	2,329.9
OPEC	16,401.3	18,450.8	19,651.2	20,086.9	20,809.2	21,490.9	21,818.3

	1995	1996	1997	1998	1999	2000	2001
Algeria	728.6	796.9	835.4	1,011.3	1,014.2	1,005.3	997.3
Indonesia	1,038.0	1,003.8	967.0	898.8	973.8	811.3	795.5 ^a
IR Iran	2,786.6	2,802.5 ^a	2,812.9 ^a	2,789.8 ^a	2,653.9 ^a	2,839.5 ^a	2,753.7 ^a
Iraq	81.8	111.7	765.5	1,440.6	2,153.9	2,062.8 ^a	1,735.2 ^a
Kuwait	1,980.6	1,975.7	1,982.2	1,985.2	1,786.7	1,905.2 ^a	1,856.4 ^a
SP Libyan AJ	1,253.0 ^a	1,248.7 ^a	1,263.6 ^a	1,329.6	1,192.9	1,242.0	1,212.6 ^a
Nigeria	1,703.8	1,835.5	1,880.8	1,836.7	1,719.2	2,003.7	2,135.2
Qatar	431.0	474.0	590.0	667.5	655.8	692.9	683.6 ^a
Saudi Arabia	7,612.4	7,601.3	7,577.4	7,759.3	6,999.3	7,481.2	7,118.4
United Arab Emirates	2,194.1	2,215.1	2,272.1	2,358.1	2,250.0	2,206.6 ^a	2,184.9
Venezuela	2,508.2	2,718.5	3,052.3	3,090.1	2,751.0	2,783.1	2,725.8 ^a
OPEC	22,318.1^a	22,783.7^a	23,999.2^a	25,167.1^a	24,150.8^a	25,033.6^a	24,198.6^a

Notes: Data includes re-exports and exports of petroleum products from gas plants.

1. Corresponds to a fiscal year ending March 20.

Sources: Direct communications to the Secretariat; UN, Energy Statistics Yearbook; OECD, Monthly Oil Data Statistics, Energy Statistics of OECD/non-OECD Countries; secondary sources.

World exports of crude oil and refined products by region, 1981–2001 (1,000 b/d)

	1981	1982	1983	1984	1985	1986	1987
North America	997.1	1,247.2	1,248.8	1,311.3	1,505.4	1,549.4	1,600.4
Latin America	4,479.9	4,598.6	4,574.5	4,578.8	4,086.5	4,103.5	4,193.5
Eastern Europe	3,764.2	3,843.5	4,015.5	4,026.5	3,671.4	4,088.0	4,269.0
Western Europe	4,245.7	4,607.6	5,015.9	5,239.4	5,336.4	5,860.5	5,842.9
Middle East	15,016.4	11,786.3	9,954.1	9,483.8	8,606.3	10,636.8	10,797.7
Africa	3,978.5	3,570.5	3,489.3	3,850.5	4,202.0	4,278.4	4,003.2
Asia and Pacific	2,571.8	2,623.5	2,787.9	3,174.0	3,110.9	3,254.9	3,214.1
Total world	35,053.6	32,277.2	31,085.9	31,664.3	30,518.9	33,771.5	33,920.9
OPEC	20,269.3	16,256.3	14,211.4	13,995.0	12,920.2	15,214.8	14,796.5
OPEC percentage	57.8	50.4	45.7	44.2	42.3	45.1	43.6

	1988	1989	1990	1991	1992	1993	1994
North America	1,820.3	1,794.1	1,834.8	2,109.5	2,114.3	2,139.2	2,205.0
Latin America	4,335.0	4,367.6	4,652.4	4,974.8	5,009.7	5,324.0	5,530.3
Eastern Europe	4,384.3	4,021.2	3,302.5	2,211.2	2,239.5	2,715.0	2,896.2
Western Europe	5,844.2	5,904.3	6,288.5	6,608.9	7,034.1	7,522.9	8,262.5
Middle East	12,378.9	13,980.9	14,722.2	14,613.7	15,641.9	16,439.9	16,529.7
Africa	4,181.5	4,780.0	5,192.7	5,477.2	5,445.4	5,360.8	5,254.0
Asia and Pacific	3,247.7	3,418.3	3,707.4	3,969.1	4,049.9	4,213.6	4,390.1
Total world	36,191.9	38,266.4	39,700.5	39,964.3	41,534.8	43,715.5	45,067.8
OPEC	16,401.3	18,450.8	19,651.2	20,086.9	20,809.2	21,490.9	21,818.3
OPEC percentage	45.3	48.2	49.5	50.3	50.1	49.2	48.4

	1995	1996	1997	1998	1999	2000*	2001*
North America	2,299.8	2,385.9	2,390.9	2,432.9	2,339.2	2,587.0	2,528.4
Latin America	5,847.7	6,433.7	7,063.9	7,319.1	6,794.7	7,103.5	7,192.6
Eastern Europe	2,933.5	3,257.9	3,398.6	3,541.0	3,708.8	4,384.1	4,858.4
Western Europe	8,217.9	8,563.6	8,815.6	8,788.8	8,923.2	9,421.3	9,359.0
Middle East	16,819.3	17,017.3	17,889.6	18,882.0	18,449.1	19,156.8	18,353.2
Africa	5,439.0	5,747.0	6,084.7	6,183.7	6,025.1	6,315.1	6,455.0
Asia and Pacific	4,640.3	4,911.9	5,246.4	5,147.1	5,074.8	5,110.2	5,084.6
Total world	46,197.4	48,317.4	50,889.6	52,294.7	51,314.9	54,077.9	53,831.2
OPEC	22,318.1	22,783.7	23,999.2	25,167.1	24,150.8	25,033.6	24,198.6
OPEC percentage	48.3	47.2	47.2	48.1	47.1	46.3	45.0

Notes: Data includes re-exports and exports of petroleum products from gas plants. Revisions have been made throughout the time series.

Sources: Direct communications to the Secretariat; UN, Energy Statistics Yearbook; OECD, Monthly Oil Data Statistics, Energy Statistics of OECD/non-OECD Countries.

Natural gas exports by OPEC Members, 1981–2001 (million standard cu m)

	1981	1982	1983	1984	1985	1986	1987
Algeria	7,081	10,001	18,361	18,924	21,640	20,440	25,750
Indonesia	11,753	12,332	12,962	18,978	20,250	20,342	22,121
IR Iran	256	–	–	–	–	–	–
Iraq	–	–	–	–	–	650	2,750
Kuwait	–	–	–	–	–	–	–
SP Libyan AJ	998	1,103	770	970	1,230	860	800
Nigeria	–	–	–	–	–	–	–
Qatar	–	–	–	–	–	–	–
Saudi Arabia	–	–	–	–	–	–	–
United Arab Emirates	2,646	2,981	2,476	2,874	3,036	3,004	2,869
Venezuela	–	–	–	–	–	–	–
OPEC	22,734	26,417	34,569	41,746	46,156	45,296	54,290

	1988	1989	1990	1991	1992	1993	1994
Algeria	26,120	29,420	31,330	33,890	35,488	35,054	31,693
Indonesia	24,580	24,870	27,530	29,710	31,630	31,800	35,150
IR Iran	–	–	1,500	3,010	–	500	–
Iraq	3,100	3,600	2,000	–	–	–	–
Kuwait	–	–	–	–	–	–	–
SP Libyan AJ	1,060	1,430	1,240	1,580	1,840	1,600	1,480
Nigeria	–	–	–	–	–	–	–
Qatar	–	–	–	–	–	–	–
Saudi Arabia	–	–	–	–	–	–	–
United Arab Emirates	3,180	3,110	3,200	3,450	3,420	3,350	4,150
Venezuela	–	–	–	–	–	–	–
OPEC	58,040	62,430	66,800	71,640	72,378	72,304	72,473

	1995	1996	1997	1998	1999	2000	2001
Algeria	37,356	40,970	48,740	52,690	59,320	61,693	56,975
Indonesia	33,310	35,280	35,280	36,400	39,120	36,220	32,800
IR Iran	100	100	–	–	–	–	358
Iraq	–	–	–	–	–	–	–
Kuwait	–	–	–	–	–	–	–
SP Libyan AJ	1,490	1,200	1,120	910	960	800	770
Nigeria	–	–	–	–	740	5,730	7,830
Qatar	–	–	2,860	4,790	8,100	14,040	16,540
Saudi Arabia	–	–	–	–	–	–	–
United Arab Emirates	6,530	6,740	7,310	6,720	7,070	6,950	7,080
Venezuela	–	–	–	–	–	–	–
OPEC	78,786	84,290	95,310	101,510	115,310	125,433	122,353

Note: Totals may not add up due to independent rounding.

Sources: Direct communications to the Secretariat; Cedigaz; national sources; IFP, The World Gas Industry; MEES; PIW; AOG; IEA, Natural Gas Statistics.

World natural gas exports by region, 1981–2001 (million standard cu m)

	1981	1982	1983	1984	1985	1986	1987
North America	23,262	23,649	21,707	22,941	27,662	22,712	29,423
Latin America	5,270	4,981	4,352	3,708	2,210	2,210	2,270
Eastern Europe	57,853	60,619	59,354	66,888	69,250	77,400	83,480
Western Europe	69,734	62,553	65,061	70,514	68,135	61,670	63,390
Middle East	2,902	2,981	2,476	2,874	3,036	3,654	5,619
Africa	8,079	11,104	19,131	19,894	22,870	21,300	26,550
Asia and Pacific	21,556	21,889	24,144	32,904	35,509	36,453	38,698
Total world	188,656	187,776	196,225	219,723	228,672	225,399	249,430
OPEC	22,734	26,417	34,569	41,746	46,156	45,296	54,290
OPEC percentage	12.1	14.1	17.6	19.0	20.2	20.1	21.8

	1988	1989	1990	1991	1992	1993	1994
North America	37,660	40,410	43,130	51,030	63,680	67,545	75,340
Latin America	2,230	2,210	2,200	2,220	2,200	2,127	2,180
Eastern Europe	88,830	103,480	110,200	105,200	99,100	100,900	106,730
Western Europe	59,210	64,810	62,240	67,710	71,910	74,440	73,870
Middle East	6,280	6,710	6,700	6,460	3,420	3,850	4,160
Africa	27,180	30,850	32,570	35,470	37,328	36,654	33,173
Asia and Pacific	41,110	41,600	47,290	51,470	55,810	57,930	64,040
Total world	262,500	290,070	304,330	319,560	333,448	343,446	359,493
OPEC	58,040	62,430	66,800	71,640	72,378	72,304	72,473
OPEC percentage	22.1	21.5	21.9	22.4	21.7	21.1	20.2

	1995	1996	1997	1998	1999	2000	2001
North America	83,791	85,638	86,370	90,610	99,200	108,345	117,681
Latin America	2,178	2,436	2,981	3,825	8,730	10,500	12,890
Eastern Europe	117,270	123,460	116,450	121,100	127,490	131,670	131,320
Western Europe	71,370	90,120	89,660	88,480	95,500	109,490	116,530
Middle East	7,130	7,340	10,670	12,010	15,670	23,700	31,408
Africa	38,846	42,170	49,860	53,600	61,020	68,223	65,575
Asia and Pacific	66,660	72,700	74,830	76,000	79,490	78,480	80,020
Total world	387,245	423,864	430,821	445,625	487,100	530,408	555,424
OPEC	78,786	84,290	95,310	101,510	115,310	125,433	122,353
OPEC percentage	20.3	19.9	22.1	22.8	23.7	23.6	22.0

Note: Totals may not add up due to independent rounding.

Sources: Direct communications to the Secretariat; Cedigaz; national sources; IFP, The World Gas Industry; MEES; PIW; AOG; IEA, Natural Gas Statistics.

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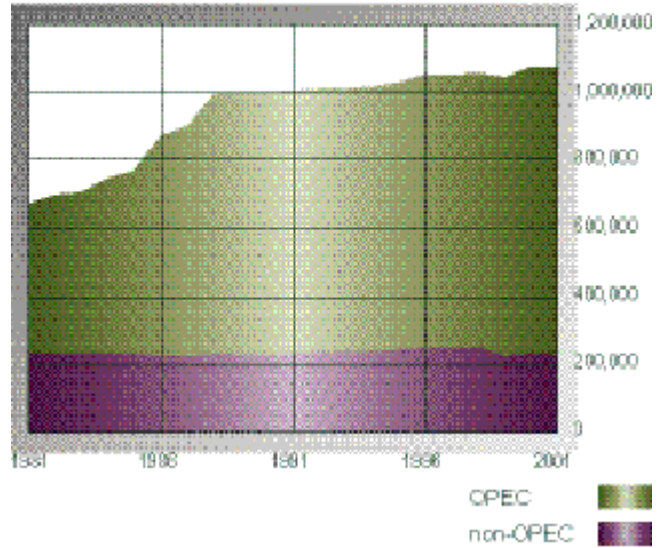
World proven crude oil reserves by country, 1997–2001 (m b)

	1997	1998	1999	2000	2001	% change 01/00
North America	30,652.1	31,272.3	30,146.9	33,065.7	33,345.7	0.8
Canada	8,635.1	8,726.3	9,112.9	11,300.7	11,300.7	–
United States	22,017.0	22,546.0	21,034.0	21,765.0	22,045.0	1.3
Latin America	140,342.1	141,909.2	123,103.5	123,779.8	123,896.1	0.1
Argentina	2,621.0	2,621.2	2,753.4	3,071.2	2,973.7	–3.2
Brazil	6,680.8	7,106.2	7,357.5	8,100.0	8,464.0	4.5
Colombia	2,800.0	2,577.2	2,577.0	1,972.0	1,750.0	–11.3
Ecuador	3,290.0	3,199.0	3,040.0	3,100.0	3,100.0	–
Mexico	47,822.0	47,822.0	28,399.0	28,260.0	26,941.0	–4.7
Venezuela	74,930.8	76,108.4	76,848.1	76,848.1	77,685.0	1.1
Others	2,197.5	2,475.2	2,128.6	2,428.5	2,982.4	22.8
Eastern Europe	67,373.9	67,281.4	67,259.7	67,159.7	66,790.4	–0.5
Former USSR	65,405.0	65,405.0	65,405.0	65,305.0	65,405.0	0.2
Others	1,968.9	1,876.4	1,854.7	1,854.7	1,385.4	–25.3
Western Europe	18,751.4	18,348.3	18,843.1	18,032.6	18,128.3	0.5
Denmark	861.7	943.5	1,069.3	1,069.3	1,113.3	4.1
Italy	729.3	621.8	621.8	621.8	621.8	–
Norway	10,913.0	10,366.0	10,850.0	10,125.0	10,271.0	1.4
United Kingdom	5,002.8	5,190.9	5,153.3	5,002.8	4,930.0	–1.5
Others	1,244.6	1,226.1	1,148.8	1,213.7	1,192.2	–1.8
Middle East	676,755.3	677,806.2	678,736.9	694,753.9	696,261.3	0.2
IR Iran	92,600.0	93,700.0	93,100.0	99,530.0	99,080.0	–0.5
Iraq	112,500.0	112,500.0	112,500.0	112,500.0	112,500.0	–
Kuwait	96,500.0	96,500.0	96,500.0	96,500.0	96,500.0	–
Oman	5,400.0	5,400.0	5,700.0	5,848.0	5,848.0	–
Qatar	3,700.0	3,700.0	3,700.0	13,157.0	15,207.0	15.6
Saudi Arabia	261,541.0	261,542.0	262,784.0	262,766.0	262,697.0	–
Syrian Arab Republic	2,500.0	2,500.0	2,500.0	2,500.0	2,500.0	–
United Arab Emirates	97,800.0	97,800.0	97,800.0	97,800.0	97,800.0	–
Others	4,214.3	4,164.2	4,152.9	4,152.9	4,129.3	–0.6
Africa	75,194.7	76,980.5	83,504.0	90,003.9	92,797.1	3.1
Algeria	11,200.0	11,314.0	11,314.0	11,314.0	11,314.0	–
Angola	5,412.2	5,412.0	5,412.0	5,412.0	5,412.0	–
Egypt	2,924.0	2,924.0	2,947.6	2,947.6	2,947.6	–
Gabon	2,499.0	2,499.0	2,499.0	2,499.0	2,499.0	–
SP Libyan AJ	29,500.0	29,500.0	29,500.0	36,000.0	36,000.0	–
Nigeria	20,828.0	22,500.0	29,000.0	29,000.0	31,506.0	8.6
Others	2,831.5	2,831.5	2,831.4	2,831.3	3,118.5	10.1
Asia and Pacific	43,438.2	44,255.1	44,386.8	44,390.5	44,980.0	1.3
Australia	1,800.1	2,895.0	2,895.0	2,895.0	3,500.0	20.9
Brunei	1,350.0	1,350.0	1,350.0	1,350.0	1,350.0	–
China	24,000.0	24,000.0	24,000.0	24,000.0	24,000.0	–
India	5,468.2	5,167.0	5,018.0	5,018.0	5,018.0	–
Indonesia	4,979.7	4,979.7	5,201.0	5,122.6	5,122.6	–
Malaysia	3,900.0	3,900.0	3,900.0	3,900.0	3,900.0	–
Others	1,940.2	1,963.4	2,022.8	2,104.9	2,089.3	–0.7
Total world	1,052,507.7	1,057,853.0	1,045,980.9	1,070,686.1	1,074,850.2	0.4
OPEC	806,079.5	810,144.1	818,247.0	840,537.7	845,411.6	0.6
OPEC percentage	76.6	76.6	78.2	78.5	78.7	

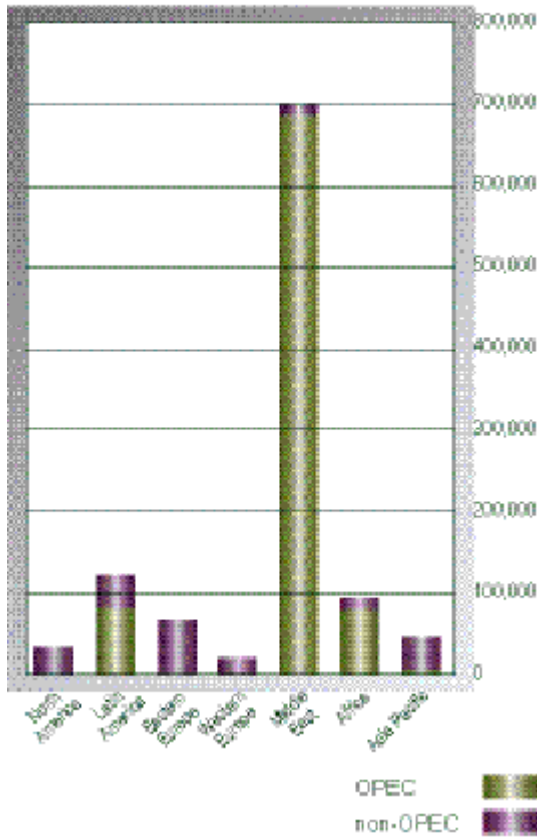
Notes: Figures as at year-end. Totals may not add up, due to independent rounding. Revisions have been made throughout the time series.

Sources: Direct communications to the Secretariat; OGJ; national sources; World Oil; BP Statistical Review; World Petroleum Trends.

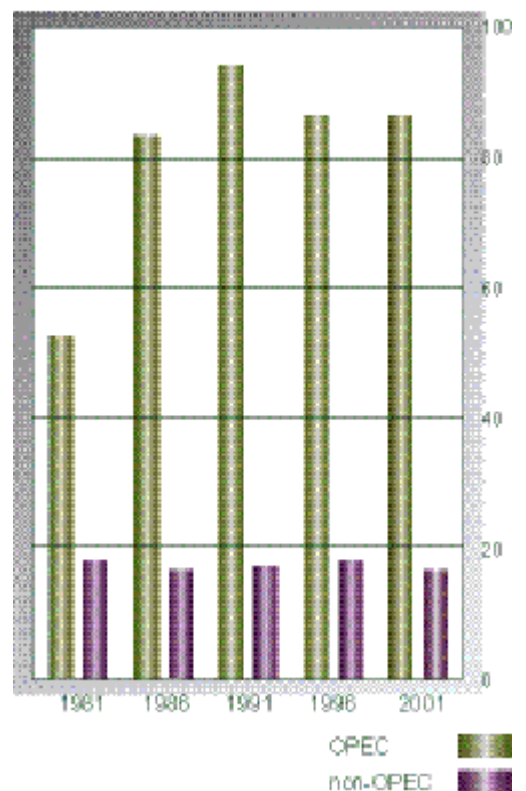
Graph 1:
World proven crude oil reserves, 1981–2001
(m b)



Graph 2:
Crude oil reserves by region, 2001
(m b)



Graph 3:
Crude oil reserves to
production ratios 1981–2001
(years)



World proven natural gas reserves by country, 1997–2001 (billion standard cu m)

	1997	1998	1999	2000	2001	% change 01/00
North America	6,576.0	6,454.0	6,487.5	6,741.0	7,041.7	4.5
Canada	1,841.0	1,809.0	1,747.5	1,718.0	1,691.7	-1.5
United States	4,735.0	4,645.0	4,740.0	5,023.0	5,350.0	6.5
Latin America	8,080.3	8,172.6	7,762.7	8,038.7	8,082.2	0.5
Argentina	683.8	687.0	729.0	778.0	810.0	4.1
Bolivia	130.0	122.9	518.0	675.0	790.0	17.0
Colombia	196.3	195.0	195.0	198.0	198.0	-
Mexico	1,796.9	1,760.0	861.0	835.0	797.0	-4.6
Trinidad & Tobago	517.0	560.0	602.0	705.0	558.0	-20.9
Venezuela	4,120.8	4,147.5	4,152.4	4,152.4	4,163.0	0.3
Others	635.5	700.2	705.3	695.2	766.2	10.2
Eastern Europe	57,740.8	57,301.8	56,626.8	56,524.7	56,376.7	-0.3
Hungary	84.0	87.0	81.3	81.3	81.3	-
Poland	155.0	145.0	146.0	152.0	152.0	-
Romania	374.0	360.0	348.0	335.0	322.0	-3.9
Former USSR	57,100.0	56,682.0	56,023.7	55,928.6	55,793.6	-0.2
Others	27.8	27.8	27.8	27.8	27.8	-
Western Europe	7,156.3	7,147.2	7,126.7	7,076.1	7,027.8	-0.7
Denmark	137.0	123.0	142.0	144.0	141.0	-2.1
Germany	343.0	347.5	340.0	325.6	364.3	11.9
Italy	278.0	222.0	208.0	199.0	185.0	-7.0
Netherlands	1,787.0	1,771.0	1,714.0	1,655.0	1,616.0	-2.4
Norway	3,654.0	3,780.0	3,808.0	3,841.0	3,833.0	-0.2
United Kingdom	765.0	755.0	755.0	760.0	735.0	-3.3
Others	192.3	148.7	159.7	151.5	153.5	1.3
Middle East	49,794.6	53,406.0	52,053.0	59,807.0	71,355.6	19.3
IR Iran	23,000.0	24,100.0	22,370.0	26,600.0	26,600.0	-
Iraq	3,188.0	3,188.0	3,285.0	3,109.0	3,109.0	-
Kuwait	1,490.0	1,482.0	1,482.0	1,557.0	1,557.0	-
Qatar	8,500.0	10,900.0	11,157.0	14,443.0	25,768.0	78.4
Saudi Arabia	5,882.0	6,068.0	6,146.0	6,301.0	6,455.6	2.5
United Arab Emirates	6,063.0	5,996.0	5,936.0	6,060.0	6,060.0	-
Others	1,671.6	1,672.0	1,677.0	1,737.0	1,806.0	4.0
Africa	10,634.1	10,791.0	11,501.0	11,969.3	13,107.3	9.5
Algeria	4,077.0	4,077.0	4,523.0	4,523.0	4,523.0	-
Egypt	927.1	1,020.0	1,223.0	1,433.0	1,557.0	8.7
SP Libyan AJ	1,314.0	1,315.0	1,315.0	1,314.0	1,314.0	-
Nigeria	3,483.0	3,510.0	3,568.0	3,610.0	4,503.0	24.7
Others	833.0	869.0	872.0	1,089.3	1,210.3	11.1
Asia and Pacific	14,332.0	14,198.0	14,757.0	14,910.0	15,225.0	2.1
Australia	3,280.0	3,310.0	3,500.0	3,530.0	3,550.0	0.6
China	1,199.0	1,200.0	1,375.0	1,515.0	1,560.0	3.0
India	665.0	650.0	650.0	650.0	645.0	-0.8
Indonesia	3,902.0	3,650.0	3,770.0	3,790.0	3,800.0	0.3
Malaysia	2,464.0	2,410.0	2,476.0	2,314.0	2,390.0	3.3
Pakistan	595.0	612.0	625.0	710.0	750.0	5.6
Others	2,227.0	2,366.0	2,361.0	2,401.0	2,530.0	5.4
Total world	154,314.1	157,470.6	156,314.7	165,066.8	178,216.3	8.0
OPEC	65,019.8	68,433.5	67,704.4	75,459.4	87,852.6	16.4
OPEC percentage	42.1	43.5	43.3	45.7	49.3	

Notes: Figures as at year-end. Totals may not add up due to independent rounding. Revisions have been made throughout the time series.

Sources: Direct communications to the Secretariat; Cedigaz; OGJ; national sources; World Oil.

Active rigs in OPEC Members and in world, 1997–2001

	1997	1998	1999	2000	2001	% change 01/00
Algeria	30	21	12	17	20	17.6
Indonesia	61	38	28	34	49	44.1
IR Iran	23	27	27	27	33	22.2
Iraq	7	7	9	9	–	–
Kuwait	9	9	9	9	6	–33.3
SP Libyan AJ	19	15	14	14	4	–71.4
Nigeria	10	12	4	10	9	–10.0
Qatar	16	13	5	5	14	180.0
Saudi Arabia	28	27	20	27	31	14.8
United Arab Emirates	24	17	13	12	18	50.0
Venezuela	108	65	59	73	60	–17.8
OPEC	335	251	200	237	244	3.0
North America	1,541	933	1,185	1,510	1,085	–28.1
Canada	508	345	385	410	198	–51.7
United States	1,033	588	800	1100	887	–19.4
Latin America	287	213	196	257	255	–0.8
Argentina	60	28	40	68	62	–8.8
Bolivia	10	15	11	10	6	–40.0
Brazil	20	19	19	25	27	8.0
Chile	2	2	–	1	1	–
Colombia	18	15	14	14	16	14.3
Ecuador	5	6	4	9	12	33.3
Mexico	50	53	44	46	63	37.0
Trinidad & Tobago	6	6	3	6	5	–16.7
Western Europe	94	68	59	73	83	13.7
France	3	1	1	1	–	–
Germany	5	4	4	2	5	150.0
Italy	10	10	8	7	7	–
Netherlands	7	7	4	5	8	60.0
Norway	19	12	16	24	24	–
United Kingdom	35	24	17	19	23	21.1
Middle East	154	150	123	151	158	4.6
Bahrain	1	3	3	3	–	–
Oman	25	25	19	26	27	3.8
Syrian Arab Republic	16	24	23	23	19	–
Yemen	5	5	3	6	7	16.7
Africa	128	92	59	77	69	–10.4
Angola	10	5	5	7	4	–42.9
Egypt	42	18	15	20	24	20.0
Gabon	6	4	2	2	1	–50.0
South Africa	1	1	1	–	1	–
Asia and Pacific	186	159	136	156	170	9.0
Australia	11	18	5	12	10	–16.7
Brunei	3	2	2	2	2	–
India	51	46	46	51	50	–2.0
Malaysia	5	9	7	10	10	–
New Zealand	–	–	2	2	2	–
Pakistan	13	8	9	10	5	–50.0
World¹	2,390	1,615	1,758	2,224	1,820	–18.2
OPEC percentage	14.0	15.5	11.4	10.7	13.4	

Notes: Figures as at year-end. Regional totals include all countries in the area. Revisions have been made throughout the time series.

1. Excluding Eastern Europe.

Sources: Oil and Energy Trends, Statistics Review; direct communications to the Secretariat; national sources.

Wells completed in OPEC Members, 1997–2001

	1997	1998	1999	2000	2001	% change 01/00
Algeria	105	85	91	137	148	8.0
Oil	57	45	49	74	86	16.2
Gas	23	22	23	35	35	–
Dry	23	18	19	28	27	–3.6
Others	2	–	–	–	–	–
Average depth (ft)	9,130	9,130	9,130	10,161	11,155	9.8
Indonesia	1,006	1,016	1,051	1,031	1,200	16.4
Oil	528	639	715	771	855	10.9
Gas	166	171	139	46	85	84.8
Dry	71	84	55	40	62	55.0
Others	241	122	142	174	198	13.8
Average depth (ft)	3,478	4,502	3,285	3,300	3,324	0.7
IR Iran	125	124	134	150	99	–34.0
Oil	112	76	84	95	73	–23.2
Gas	3	12	5	–	18	–
Dry	5	–	–	–	1	–
Others	5	36	45	55	7	–87.3
Average depth (ft)	7,402	7,543	7,073	6,301	9,229	46.5
Iraq	na	12	12	na	na	na
Oil	na	na	na	na	na	na
Gas	na	na	na	na	na	na
Dry	na	na	na	na	na	na
Others	na	na	na	na	na	na
Average depth (ft)	na	9,000	7,667	na	na	na
Kuwait	45	36	99	138	100	–27.5
Oil	29	30	99	128	93	–27.3
Gas	–	–	–	–	–	–
Dry	–	–	–	–	–	–
Others	16	6	–	10	7	–30
Average depth (ft)	6,796	10,473	8,000	7,643	7,580	–0.8
SP Libyan AJ	128	123	90	109	97	–11.0
Oil	96	90	70	71	78	9.9
Gas	4	5	2	2	2	–
Dry	20	19	11	25	9	–64.0
Others	8	9	7	11	8	–27.3
Average depth (ft)	7,077	7,724	7,724	7,796	7,600	–2.5
Nigeria	137	132	82	85	110	29.4
Oil	95	88	54	62	80	29.0
Gas	8	10	6	3	4	33.3
Dry	9	11	7	10	13	30.0
Others	25	23	15	10	13	30.0
Average depth (ft)	9,364	9,538	9,615	9,311	9,000	–3.3
Qatar	121	117	66	66	87	31.8
Oil	100	79	40	40	61	52.5
Gas	10	13	4	12	1	–91.7
Dry	4	–	–	2	4	100.0
Others	7	25	22	12	21	75.0
Average depth (ft)	6,883	7,300	7,300	7,410	9,165	23.7

Wells completed in OPEC Members, 1997–2001

	1997	1998	1999	2000	2001	% change 01/00
Saudi Arabia	305	284	224	257	265	3.1
Oil	na	na	na	na	na	na
Gas	na	na	na	na	na	na
Dry	na	na	na	na	na	na
Others	na	na	na	na	na	na
Average depth (ft)	8,754	8,176	8,175	8,049	8,100	0.6
Saudi-Kuwaiti Neutral Zone	46	40	35	40	50	25.0
Oil	36	33	29	37	43	16.2
Gas	–	–	–	–	–	–
Dry	1	2	3	1	2	100.0
Others	9	5	3	2	5	150.0
Average depth (ft)	7,413	7,048	7,050	7,020	6,500	–7.4
United Arab Emirates	148	125	108	87	92	5.7
Oil	72	65	50	43	46	7.0
Gas	45	22	28	30	30	–
Dry	7	7	6	2	4	100.0
Others	24	31	24	12	12	–
Average depth (ft)	10,097	11,045	11,908	9,110	9,150	0.4
Venezuela	1,088	1,110	827	691	1,278	84.9
Oil	1,013	671	386	564	989	75.4
Gas	4	3	2	–	1	–
Dry	1	18	19	2	6	200.0
Others	70	418	420	125	282	125.6
Average depth (ft)	6,119	5,445	6,186	5,866	6,531	11.3
OPEC	3,254	3,204	2,819	2,791	3,526	26.3
Oil	2,138	1,816	1,576	1,885	2,404	27.5
Gas	263	258	209	128	176	37.5
Dry	141	159	120	110	128	16.4
Others	407	675	678	411	553	34.5
Average depth (ft)	6,107	6,199	5,853	5,773	7,939	37.5
Total world^{1,2}	68,553	50,106	45,095	60,095	74,178	23.4
Oil	22,316	14,206	11,058	17,338	18,267	5.4
Gas	17,103	15,983	15,301	22,861	30,678	34.2
Dry	9,596	7,169	5,765	6,280	6,259	–0.3
Others	3,693	2,589	2,681	3,227	2,155	–33.2
Average depth (ft)	5,212	5,466	5,343	5,054	5,212	3.1

Notes: Others = service and suspended wells. Figures include development and exploration wells.

1. Excluding Eastern Europe.

2. Summation of wells by category may not equal total due to unavailability of individual data for some countries.

Sources: Direct communications to the Secretariat; World Oil.

Producing wells in OPEC Members, 1997–2001

	1997	1998	1999	2000	2001	% change 01/00
Algeria	1,214	1,175	1,136	1,235	1,284	4.0
Flowing	886	865	836	930	967	4.0
Artificial lift	328	310	300	305	317	3.9
Indonesia	8,729	8,837	8,226	9,341	9,150	-2.0
Flowing	630	1,184	720	1,511	1,465	-3.0
Artificial lift	8,099	7,653	7,506	7,830	7,685	-1.9
IR Iran	1,121	1,152	1,211	1,287	na	na
Flowing	1,121	1,152	1,211	1,287	na	na
Artificial lift	-	-	-	-	-	-
Iraq	na	na				na
Flowing	na	na	na	na	na	na
Artificial lift	na	na	na	na	na	na
Kuwait	788	810	730	785	805	2.5
Flowing	788	810	730	785	805	2.5
Artificial lift	-	-	-	-	-	-
SP Libyan AJ	1,470	1,425	1,430	1,436	1,545	7.6
Flowing	955	912	902	904	1,004	11.1
Artificial lift	515	513	528	532	541	1.7
Nigeria	2,251	2,125	2,145	2,109	2,430	15.2
Flowing	1,864	1,760	1,770	1,779	2,030	14.1
Artificial lift	387	365	375	330	400	21.2
Qatar	360	412	411	415	442	6.5
Flowing	317	348	322	325	307	-5.5
Artificial lift	43	64	89	90	135	50.0
Saudi Arabia	1,565	1,535	1,475	1,550	1,575	1.6
Flowing	1,455	1,430	1,400	1,457	1,480	1.6
Artificial lift	110	105	75	93	95	2.2
Saudi-Kuwaiti Neutral Zone	532	455	465	550	615	11.8
Flowing	267	182	190	210	218	3.8
Artificial lift	265	273	275	340	397	16.8
United Arab Emirates	1,435	1,451	1,424	1,505	1,410	-6.3
Flowing	1,056	1,069	1,075	1,143	1,063	-7.0
Artificial lift	379	382	349	362	347	-4.1
Venezuela	15,584	15,090	12,820	15,506	14,987	-3.3
Flowing	1,245	1,245	1,056	1,223	665	-45.6
Artificial lift	14,339	13,845	11,764	14,283	14,322	0.3
OPEC¹	35,049	34,467	31,473	35,719	34,243	-4.1
Flowing	10,584	10,957	10,212	11,554	10,004	-13.4
Artificial lift	24,465	23,510	21,261	24,165	24,239	0.3
Total world^{1,2}	798,064	772,096	772,050	883,938	893,238	1.1
Flowing	53,137	50,206	48,245	51,849	49,816	-3.9
Artificial lift	743,859	721,083	722,975	832,089	843,422	1.4

Notes: Excluding shut-in wells. Figures as at year-end.

1. Summation of wells by category may not equal the total for OPEC due to lack of data for some countries.

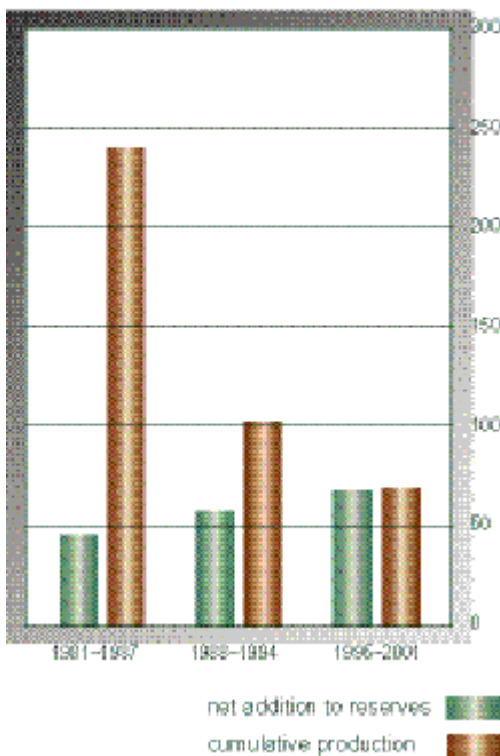
2. Excluding Eastern Europe.

Sources: Direct communications to the Secretariat; World Oil; national sources.

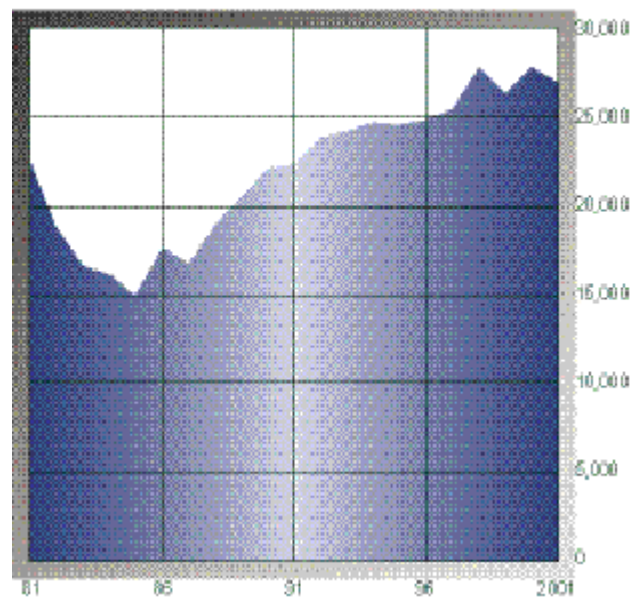
OPEC cumulative production and net addition to reserves, 1981–2001 (bn b)

	Production	Net addition to reserves		Production	Net addition to reserves
before 1981	193.564		1991	269.013	6.07
1981	201.772	3.70	1992	277.741	1.76
1982	208.610	29.06	1993	286.585	0.84
1983	214.674	7.92	1994	295.567	2.86
1984	220.506	34.70	1995	304.546	7.67
1985	225.952	25.80	1996	313.612	17.75
1986	232.398	107.22	1997	322.895	3.26
1987	238.509	31.00	1998	333.020	4.06
1988	245.405	86.46	1999	342.593	8.10
1989	252.853	4.35	2000	352.747	22.29
1990	260.891	1.05	2001	362.556	4.87

Graph 4:
OPEC cumulative production and
net addition to reserves, 1981–2001
(bn b)



Graph 5:
OPEC crude oil production, 1981–2001
(1,000 b/d)



Cumulative crude oil production in OPEC Members (1,000 b)

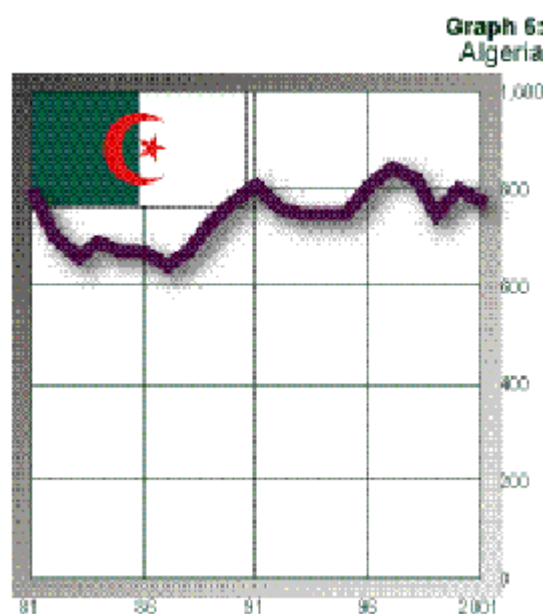
Algeria

Year	Daily average	Cumulative	% change in daily av	Year	Daily average	Cumulative	% change in daily av
1918–1957		2,533		1980	1,019.9	6,404,548	-11.6
1958	8.8	5,745		1981	797.8	6,695,745	-21.8
1959	25.6	15,089	190.9	1982	704.5	6,952,888	-11.7
1960	181.1	81,372	607.4	1983	660.9	7,194,116	-6.2
1961	330.9	202,150	82.7	1984	695.4	7,448,633	5.2
1962	436.9	361,619	32.0	1985	672.4	7,694,050	-3.3
1963	504.3	545,688	15.4	1986	673.9	7,940,017	0.2
1964	557.8	749,843	10.6	1987	648.2	8,176,620	-3.8
1965	558.7	953,769	0.2	1988	672.9*	8,422,905	3.8
1966	718.7	1,216,094	28.6	1989	727.3	8,688,369	8.1
1967	825.7	1,517,475	14.9	1990	783.5	8,974,340	7.7
1968	904.2	1,848,412	9.5	1991	803.0	9,267,435	2.5
1969	946.4	2,193,848	4.7	1992	756.5	9,544,314	-5.8
1970	1,029.1	2,569,469	8.7	1993	747.3	9,817,079	-1.2
1971	785.4	2,856,140	-23.7	1994	752.5	10,091,741	0.7
1972	1,062.3	3,244,942	35.3	1995	752.5	10,366,404	-
1973	1,097.3	3,645,457	3.3	1996	805.7	10,661,290	7.1
1974	1,008.6	4,013,596	-8.1	1997	846.1	10,970,116	5.0
1975	982.6	4,372,245	-2.6	1998	827.3	11,272,081	-2.2
1976	1,075.1	4,765,728	9.4	1999	749.6	11,545,697	-9.4
1977	1,152.3	5,186,312	7.2	2000	796.0	11,837,030	6.2
1978	1,161.2	5,610,136	0.8 ¹	2001	776.6	12,120,489	-2.4
1979	1,153.8	6,031,277	-0.6				

1. Data not comparable due to inclusion of condensates prior to 1978.

Sources: Direct communications to the Secretariat; 1988: direct communications to the Secretariat and secondary sources.

OPEC Members' crude oil production, 1981–2001
(1,000 b/d)



Cumulative crude oil production in OPEC Members (1,000 b)

Indonesia

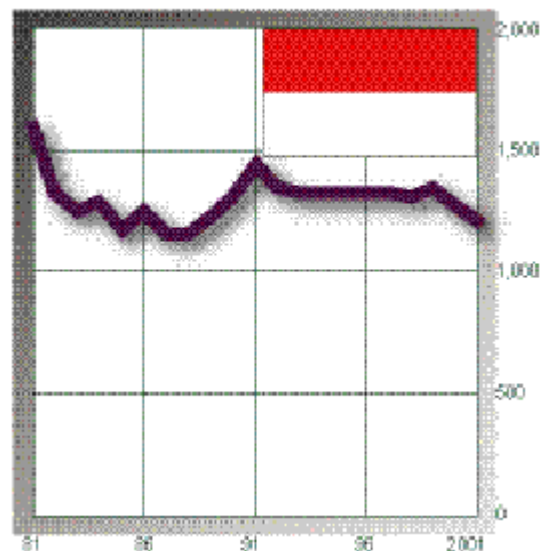
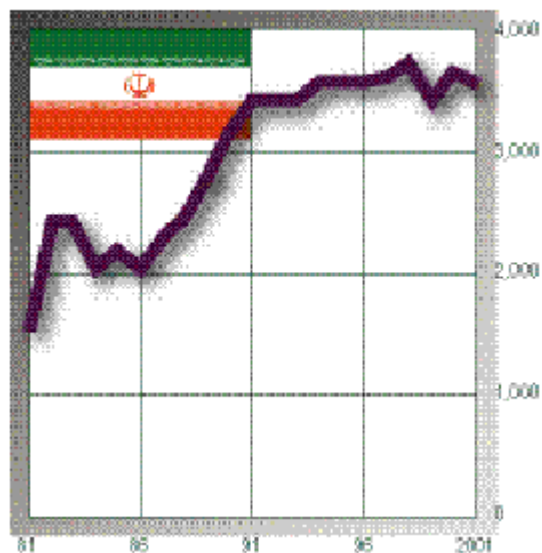
Year	Daily average	Cumulative	% change in daily av	Year	Daily average	Cumulative	% change in daily av
1893	2.0	730		1940	169.4	976,114	-0.4
1894	2.0	1,460		1941	147.1	1,029,805	-13.2
1895	3.0	2,555	50.0	1942	65.8	1,053,822	-55.3
1896	4.0	4,019	33.3	1943	132.3	1,102,112	101.1
1897	7.0	6,574	75.0	1944	60.8	1,124,364	-54.0
1898	8.0	9,494	14.3	1945	20.8	1,131,956	-65.8
1899	5.0	11,319	-37.5	1946	5.7	1,134,037	-72.6
1900	6.0	13,515	20.0	1947	22.0	1,142,067	286.0
1901	11.0	17,530	83.3	1948	86.8	1,173,836	294.5
1902	7.0	20,085	-36.4	1949	118.4	1,217,052	36.4
1903	16.0	25,925	128.6	1950	132.6	1,265,451	12.0
1904	18.0	32,513	12.5	1951	151.9	1,320,894	14.6
1905	22.0	40,543	22.2	1952	170.6	1,383,334	12.3
1906	22.0	48,573	-	1953	205.9	1,458,487	20.7
1907	27.0	58,428	22.7	1954	217.6	1,537,911	5.7
1908	28.0	68,676	3.7	1955	235.5	1,623,869	8.2
1909	30.0	79,626	7.1	1956	254.8	1,717,126	8.2
1910	30.0	90,576	-	1957	312.1	1,831,042	22.5
1911	33.0	102,621	10.0	1958	325.1	1,949,704	4.2
1912	30.0	113,601	-9.1	1959	373.1	2,085,885	14.8
1913	31.0	124,916	3.3	1960	409.6	2,235,799	9.8
1914	31.0	136,231	-	1961	424.3	2,390,668	3.6
1915	33.0	148,276	6.5	1962	453.4	2,556,159	6.9
1916	34.0	160,720	3.0	1963	444.0	2,718,219	-2.1
1917	36.0	173,860	5.9	1964	456.6	2,885,335	2.8
1918	35.0	186,635	-2.8	1965	480.6	3,060,754	5.3
1919	42.0	201,965	20.0	1966	464.6	3,230,333	-3.3
1920	47.9	219,496	14.0	1967	505.4	3,414,804	8.8
1921	46.5	236,469	-2.9	1968	600.7	3,634,660	18.9
1922	46.8	253,551	0.6	1969	742.3	3,905,600	23.6
1923	54.4	273,407	16.2	1970	853.6	4,217,164	15.0
1924	55.9	293,866	2.8	1971	892.1	4,542,780	4.5
1925	58.7	315,292	5.0	1972	1,080.8	4,938,353	21.2
1926	58.2	336,535	-0.9	1973	1,338.5	5,426,905	23.8
1927	75.2	363,983	29.2	1974	1,374.5	5,928,598	2.7
1928	87.6	396,044	16.5	1975	1,306.5	6,405,470	-4.9
1929	107.6	435,318	22.8	1976	1,503.6	6,955,791	15.1
1930	114.3	477,038	6.2	1977	1,686.2	7,571,238	12.1
1931	97.4	512,589	-14.8	1978	1,635.2	8,168,086	-3.0
1932	106.6	551,605	9.4	1979	1,590.8	8,748,731	-2.7
1933	116.9	594,273	9.7	1980	1,575.7	9,325,438	-0.9
1934	127.5	640,811	9.1	1981	1,604.2	9,910,982	1.8
1935	129.2	687,969	1.3	1982	1,324.8	10,394,534	-17.4
1936	136.7	738,001	5.8	1983	1,245.3	10,849,068	-6.0
1937	155.4	794,722	13.7	1984	1,280.1	11,317,585	2.8
1938	157.0	852,027	1.0	1985	1,181.5	11,748,832	-7.7
1939	170.1	914,113	8.3	1986	1,256.8	12,207,564	6.4

Cumulative crude oil production in OPEC Members (1,000 b)

Indonesia

Year	Daily average	Cumulative	% change in daily av
1987	1,158.1	12,630,257	-7.9
1988	1,161.5*	13,055,378	0.3
1989	1,231.0	13,504,693	6.0
1990	1,299.3	13,978,938	5.5
1991	1,450.0	14,508,188	11.6
1992	1,347.7	15,001,446	-7.1
1993	1,327.3	15,485,910	-1.5
1994	1,332.8	15,972,382	0.4
1995	1,328.4	16,457,248	-0.3
1996	1,326.7	16,942,822	-0.1
1997	1,330.4	17,428,404	0.3
1998	1,315.4	17,908,514	-1.1
1999	1,355.5	18,403,271	3.1
2000	1,272.5	18,869,006	-6.1
2001	1,214.2	19,312,182	-4.6

Sources: Direct communications to the Secretariat; 1893–1954: Twentieth Century Petroleum Statistics, De Golyer and MacNaughton; 1988: direct communications to the Secretariat and secondary sources.

Graph 7:
IndonesiaGraph 8:
IR Iran

Cumulative crude oil production in OPEC Members (1,000 b)

IR Iran

Year	Daily average	Cumulative	% change in daily av	Year	Daily average	Cumulative	% change in daily av
1913	5.0	1,825		1958	826.1	3,438,146	14.8
1914	8.0	4,745	60.0	1959	928.2	3,776,939	12.4
1915	10.0	8,395	25.0	1960	1,067.7	4,167,717	15.0
1916	12.0	12,787	20.0	1961	1,202.2	4,606,520	12.6
1917	19.0	19,722	58.3	1962	1,334.5	5,093,613	11.0
1918	23.6	28,336	24.2	1963	1,491.3	5,637,937	11.7
1919	27.8	38,483	17.8	1964	1,710.7	6,264,053	14.7
1920	33.4	50,707	20.1	1965	1,908.3	6,960,583	11.6
1921	45.7	67,388	36.8	1966	2,131.8	7,738,690	11.7
1922	61.0	89,653	33.5	1967	2,603.2	8,688,858	22.1
1923	69.1	114,874	13.3	1968	2,839.8	9,728,225	9.1
1924	88.5	147,265	28.1	1969	3,375.8	10,960,392	18.9
1925	96.0	182,305	8.5	1970	3,829.0	12,357,977	13.4
1926	98.2	218,148	2.3	1971	4,539.5	14,014,894	18.6
1927	108.7	257,824	10.7	1972	5,023.1	15,853,349	10.7
1928	118.7	301,268	9.2	1973	5,860.9	17,992,577	16.7
1929	115.5	343,426	-2.7	1974	6,021.6	20,190,461	2.7
1930	125.6	389,270	8.7	1975	5,350.1	22,143,248	-11.2
1931	121.6	433,654	-3.2	1976	5,882.9	24,296,396	10.0
1932	135.2	483,137	11.2	1977	5,662.8	26,363,325	-3.7
1933	149.0	537,522	10.2	1978	5,241.7	28,276,547	-7.4
1934	158.5	595,374	6.4	1979	3,167.9	29,432,830	-39.6
1935	156.9	652,643	-1.0	1980	1,816.6*	30,097,718	-42.7
1936	171.4	715,375	9.2	1981	1,565.0*	30,668,945	-13.9
1937	213.2	793,193	24.4	1982	2,420.6*	31,552,479	54.7
1938	214.7	871,559	0.7	1983	2,441.7	32,443,694	0.9
1939	214.1	949,705	-0.3	1984	2,032.4	33,187,553	-16.8
1940	181.2	1,016,024	-15.4	1985	2,192.3	33,987,752	7.9
1941	139.1	1,066,796	-23.2	1986	2,037.1	34,731,298	-7.1
1942	198.0	1,139,066	42.3	1987	2,297.6	35,569,930	12.8
1943	204.4	1,213,672	3.2	1988	2,478.5*	36,477,070	7.9
1944	278.8	1,315,713	36.4	1989	2,814.1	37,504,208	13.5
1945	357.6	1,446,237	28.3	1990	3,135.3*	38,648,595	11.4
1946	402.2	1,593,040	12.5	1991	3,406.8*	39,892,071	8.7
1947	424.7	1,748,055	5.6	1992	3,431.6	41,148,034	0.7
1948	520.2	1,938,448	22.5	1993	3,425.2	42,398,234	-0.2
1949	560.9	2,143,177	7.8	1994	3,596.0	43,710,774	5.0
1950	664.3	2,385,646	18.4	1995	3,595.0	45,022,949	-
1951	349.6	2,513,250	-47.4	1996	3,596.0	46,339,085	-
1952	27.6	2,523,352	-92.1	1997	3,603.4	47,654,319	0.2
1953	26.8	2,533,134	-2.9	1998	3,714.0	49,009,929	3.1
1954	61.4	2,555,545	129.1	1999	3,439.0	50,265,164	-7.4
1955	328.9	2,675,594	435.7	2000	3,661.3	51,605,182	6.5
1956	541.8	2,873,892	64.7	2001	3,572.0	52,908,962	-2.4
1957	719.8	3,136,619	32.9				

Sources: Direct communications to the Secretariat; 1913–1959: De Golyer and MacNaughton, *Twentieth Century Petroleum Statistics*; 1960–1963: NIOC, *Iran Petroleum Statistics*; 1980–1981: secondary sources; 1982, 1988, 1990, 1991: direct communications to the Secretariat and secondary sources.

Cumulative crude oil production in OPEC Members (1,000 b)

Iraq

Year	Daily average	Cumulative	% change in daily av	Year	Daily average	Cumulative	% change in daily av
1928	2.7	988		1965	1,312.6	4,848,984	4.6
1929	3.0	2,083	11.1	1966	1,392.2	5,357,137	6.1
1930	2.0	2,813	-33.3	1967	1,228.1	5,805,393	-11.8
1931	2.0	3,543	-	1968	1,503.3	6,355,601	22.4
1932	1.4	4,056	-30.0	1969	1,521.2	6,910,839	1.2
1933	1.6	4,640	14.3	1970	1,548.6	7,476,078	1.8
1934	16.5	10,662	931.3	1971	1,694.1	8,094,425	9.4
1935	78.1	39,169	373.3	1972	1,465.5	8,630,798	-13.5
1936	85.7	70,535	9.7	1973	2,018.1	9,367,404	37.7
1937	92.4	104,261	7.8	1974	1,970.6	10,086,673	-2.4
1938	91.5	137,658	-1.0	1975	2,261.7	10,912,194	14.8
1939	85.5	168,866	-6.6	1976	2,415.4	11,796,236	6.8
1940	55.9	189,325	-34.6	1977	2,348.2	12,653,333	-2.8
1941	36.3	202,575	-35.1	1978	2,562.0	13,588,476	9.1
1942	55.7	222,905	53.4	1979	3,476.9	14,857,556	35.7
1943	79.3	251,850	42.4	1980	2,646.4	15,826,156	-23.9
1944	92.5	285,705	16.6	1981	897.4	16,153,707	-66.1
1945	100.1	322,241	8.2	1982	1,078.4*	16,547,318	20.2
1946	101.8	359,398	1.7	1983	1,098.8	16,948,376	1.9
1947	103.0	396,993	1.2	1984	1,221.3	17,395,379	11.2
1948	76.6	425,029	-25.6	1985	1,404.4	17,907,969	15.0
1949	90.6	458,098	18.3	1986	1,876.5	18,592,904	33.6
1950	139.6	509,052	54.1	1987	2,358.7	19,453,818	25.7
1951	180.8	575,044	29.5	1988	2,744.5*	20,458,289	16.4
1952	389.0	717,418	115.2	1989	2,785.8	21,475,101	1.5
1953	581.4	929,629	49.5	1990	2,112.6*	22,246,208	-24.2
1954	636.2	1,161,842	9.4	1991	282.5*	22,349,308	-86.6
1955	697.0	1,416,247	9.6	1992	526.2	22,541,898	86.3
1956	641.0	1,650,853	-8.0	1993	659.5	22,782,603	25.3
1957	449.5	1,814,920	-29.9	1994	748.7	23,055,870	13.5
1958	731.3	2,081,845	62.7	1995	736.9	23,324,835	-1.6
1959	856.9	2,394,613	17.2	1996	740.4	23,595,829	0.5
1960	972.2	2,750,439	13.5	1997	1,383.9	24,100,958	86.9
1961	1,007.1	3,118,030	3.6	1998	2,181.1	24,897,053	57.6
1962	1,009.2	3,486,388	0.2	1999	2,719.8*	25,889,795	24.7
1963	1,161.9	3,910,482	15.1	2000	2,810.2*	26,918,322	3.3
1964	1,255.2	4,369,885	8.0	2001	2,593.7	27,865,016	-7.7

Sources: Direct communications to the Secretariat; 1982, 1988, 1990, 1999, 2000, 2001: direct communications to the Secretariat and secondary sources; 1991: secondary sources.

Cumulative crude oil production in OPEC Members (1,000 b)

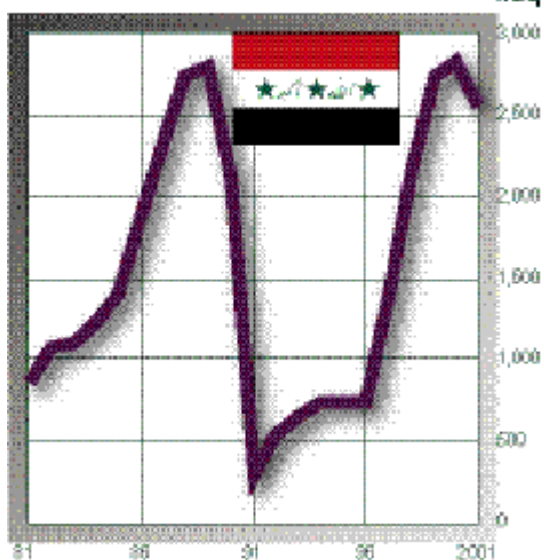
Kuwait

Year	Daily average	Cumulative	% change in daily av	Year	Daily average	Cumulative	% change in daily av
1946	16.2	5,913		1974	2,546.1	17,429,052	-15.7
1947	44.5	22,156	174.7	1975	2,084.2	18,189,785	-18.1
1948	127.2	68,711	185.8	1976	2,145.4	18,975,000	2.9
1949	246.5	158,683	93.8	1977	1,969.0	19,693,684	-8.2
1950	344.4	284,389	39.7	1978	2,131.4	20,471,641	8.2
1951	561.4	489,300	63.0	1979	2,500.3	21,384,250	17.3
1952	747.1	762,739	33.1	1980	1,663.7	21,993,164	-33.5
1953	861.9	1,077,332	15.4	1981	1,129.7	22,405,504	-32.1
1954	959.7	1,427,623	11.3	1982	824.3	22,706,374	-27.0
1955	1,103.6	1,830,437	15.0	1983	1,054.1	23,091,120	27.9
1956	1,108.5	2,236,148	0.4	1984	1,163.0	23,516,778	10.3
1957	1,171.6	2,663,782	5.7	1985	936.3	23,858,536	-19.5
1958	1,435.8	3,187,849	22.6	1986	1,174.3*	24,287,170	25.4
1959	1,441.1	3,713,850	0.4	1987	971.6	24,641,808	-17.3
1960	1,691.8	4,333,049	17.4	1988	1,190.1*	25,077,395	22.5
1961	1,735.0	4,966,324	2.6	1989	1,277.5*	25,543,698	7.3
1962	1,957.8	5,680,921	12.8	1990	858.6*	25,857,094	-32.8
1963	2,096.3	6,446,071	7.1	1991	189.7*	25,926,341	-77.9
1964	2,301.0	7,288,237	9.8	1992	1,057.2	26,313,277	457.2
1965	2,360.3	8,149,746	2.6	1993	1,881.8	27,000,134	78.0
1966	2,484.1	9,056,443	5.2	1994	2,006.6	27,732,543	6.6
1967	2,499.8	9,968,870	0.6	1995	2,006.6	28,464,952	-
1968	2,613.5	10,925,411	4.5	1996	2,005.6	29,199,001	-
1969	2,773.4	11,937,702	6.1	1997	2,007.1	29,931,593	0.1
1970	2,989.6	13,028,906	7.8	1998	2,051.5	30,680,390	2.2
1971	3,196.7	14,195,701	6.9	1999	1,872.7	31,363,926	-8.7
1972	3,283.0	15,397,279	2.7	2000	1,996.1	32,094,497	6.6
1973	3,020.4	16,499,725	-8.0	2001	1,947.0	32,805,166	-2.5

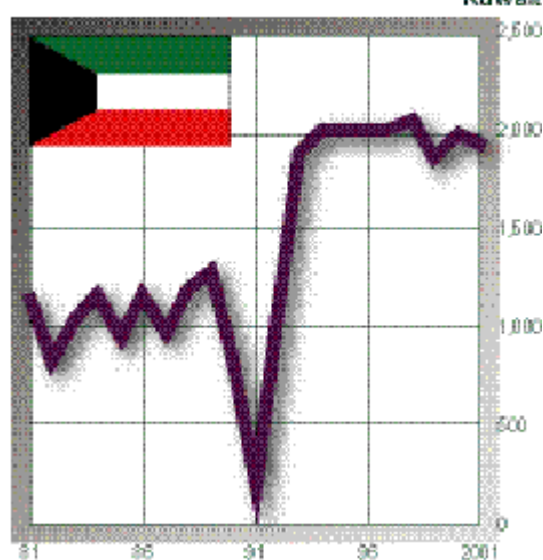
Notes: Figures include share of production from Neutral Zone.

Sources: Direct communications to the Secretariat; 1986, 1988, 1989, 1991: direct communications to the Secretariat and secondary sources; 1990: secondary sources.

Graph 9:
Iraq



Graph 10:
Kuwait



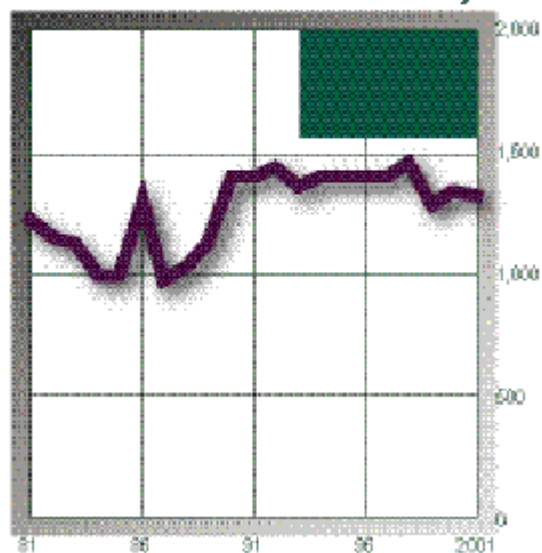
Cumulative crude oil production in OPEC Members (1,000 b)

SP Libyan AJ

Year	Daily average	Cumulative	% change in daily av	Year	Daily average	Cumulative	% change in daily av
1961	18.2	6,643		1982	1,136.0	13,669,980	-6.7
1962	182.3	73,183	901.6	1983	1,121.1*	14,079,167	-1.3
1963	441.8	234,440	142.3	1984	984.6	14,439,530	-12.2
1964	862.4	550,078	95.2	1985	997.7*	14,803,707	1.3
1965	1,218.8	994,940	41.3	1986	1,308.0	15,281,127	31.1
1966	1,501.1	1,542,841	23.2	1987	972.5	15,636,091	-25.6
1967	1,740.5	2,178,124	15.9	1988	1,022.7*	16,010,407	5.2
1968	2,602.1	3,130,493	49.5	1989	1,129.2	16,422,557	10.4
1969	3,109.1	4,265,314	19.5	1990	1,389.1*	16,929,582	23.0
1970	3,318.0	5,476,384	6.7	1991	1,405.9*	17,442,752	1.2
1971	2,760.8	6,484,076	-16.8	1992	1,432.7	17,967,121	1.9
1972	2,239.4	7,303,696	-18.9	1993	1,361.0	18,463,883	-5.0
1973	2,174.9	8,097,535	-2.9	1994	1,389.8	18,971,170	2.1
1974	1,521.3	8,652,809	-30.1	1995	1,399.0	19,481,819	0.7
1975	1,479.8	9,192,936	-2.7	1996	1,394.0	19,992,025	-0.4
1976	1,932.6	9,900,269	30.6	1997	1,395.8	20,501,479	0.1
1977	2,063.4	10,653,397	6.8	1998	1,449.0*	21,030,374	3.8
1978	1,982.5	11,377,013	-3.9	1999	1,287.2*	21,500,196	-11.2
1979	2,091.7	12,140,485	5.5	2000	1,347.2	21,993,272	4.7
1980	1,831.6	12,810,843	-12.4	2001	1,323.5	22,476,335	-1.8
1981	1,217.8	13,255,340	-33.5				

Sources: Direct communications to the Secretariat; 1961–1984: direct communications to the Secretariat, PIW, OAEPC Bulletin; 1985, 1988, 1990, 1998, 1999: direct communications to the Secretariat and secondary sources; 1991: secondary sources.

Graph 11:
SP Libyan AJ



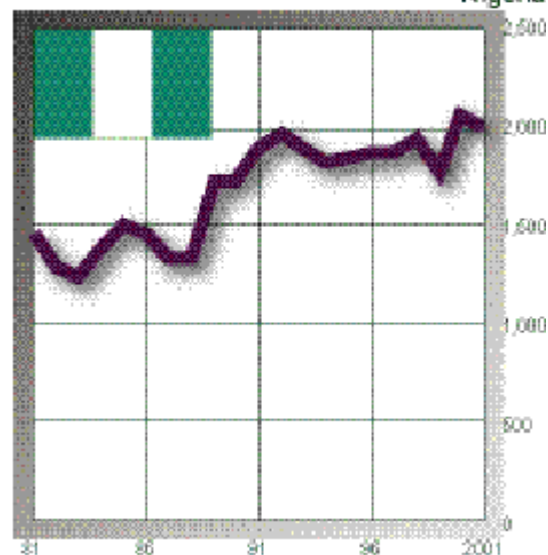
Cumulative crude oil production in OPEC Members (1,000 b)

Nigeria

Year	Daily average	Cumulative	% change in daily av	Year	Daily average	Cumulative	% change in daily av
1958	5.1	1,862		1980	2,058.0	8,389,456	-10.6
1959	11.2	5,950	119.6	1981	1,439.6	8,914,910	-30.0
1960	17.4	12,318	55.4	1982	1,287.0	9,384,665	-10.6
1961	46.0	29,108	164.4	1983	1,235.5	9,835,623	-4.0
1962	67.5	53,745	46.7	1984	1,388.0	10,343,631	12.3
1963	76.5	81,668	13.3	1985	1,498.9	10,890,729	8.0
1964	120.2	125,661	57.1	1986	1,466.6	11,426,038	-2.2
1965	274.2	225,744	128.1	1987	1,323.0	11,908,933	-9.8
1966	417.6	378,168	52.3	1988	1,341.3*	12,399,867	1.4
1967	319.1	494,640	-23.6	1989	1,716.3	13,026,316	28.0
1968	141.3	546,355	-55.7	1990	1,726.7	13,656,562	0.6
1969	540.3	743,565	282.4	1991	1,893.1	14,347,544	9.6
1970	1,083.1	1,138,896	100.5	1992	1,957.0	15,063,806	3.4
1971	1,531.2	1,697,784	41.4	1993	1,905.2	15,759,204	-2.6
1972	1,815.7	2,362,331	18.6	1994	1,820.9	16,423,824	-4.4
1973	2,054.3	3,112,150	13.1	1995	1,842.6	17,096,371	1.2
1974	2,255.0	3,935,225	9.8	1996	1,863.1	17,778,253	1.1
1975	1,783.2	4,586,093	-20.9	1997	1,876.7	18,463,264	0.7
1976	2,066.8	5,342,537	15.9	1998	1,939.0*	19,171,015	3.3
1977	2,085.1	6,103,598	0.9	1999	1,781.5	19,821,263	-8.1
1978	1,897.0	6,796,000	-9.0	2000	2,053.6	20,572,881	15.3
1979	2,302.0	7,636,228	21.3	2001	2,017.6	21,309,305	-1.8

Sources: Direct communications to the Secretariat; 1988, 1998: direct communications to the Secretariat and secondary sources; Central Bank of Nigeria, Economic and Financial Review; Ministry of Mines and Power, Petroleum Division's Annual Reports.

Graph 12:
Nigeria



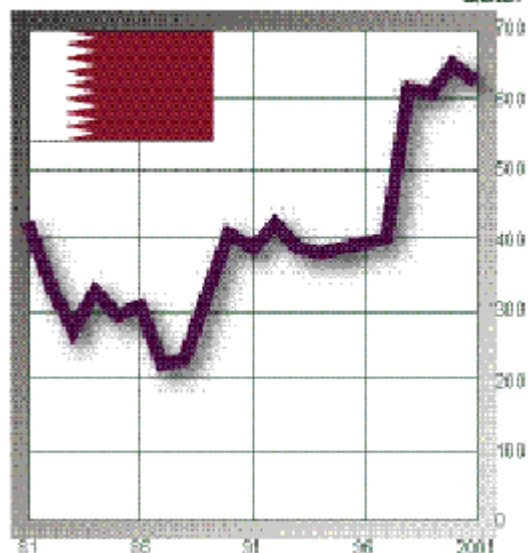
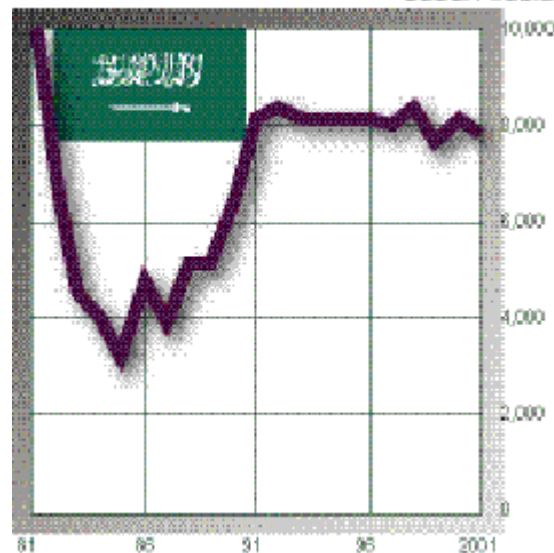
Cumulative crude oil production in OPEC Members (1,000 b)

Qatar

Year	Daily average	Cumulative	% change in daily av
1949	2	730	
1950	33.6	12,994	1,580.0
1951	49.3	30,989	46.7
1952	69.0	56,243	40.0
1953	85.0	87,268	23.2
1954	99.9	123,731	17.5
1955	115.0	165,706	15.1
1956	123.9	211,053	7.7
1957	138.5	261,606	11.8
1958	175.1	325,517	26.4
1959	170.4	387,713	-2.7
1960	174.6	451,617	2.5
1961	177.2	516,295	1.5
1962	186.2	584,258	5.1
1963	191.5	654,156	2.8
1964	215.3	732,955	12.4
1965	232.6	817,854	8.0
1966	291.3	924,179	25.2
1967	323.6	1,042,293	11.1
1968	339.5	1,166,550	4.9
1969	355.5	1,296,307	4.7
1970	362.4	1,428,583	1.9
1971	430.7	1,585,789	18.8
1972	482.4	1,762,347	12.0
1973	570.3	1,970,507	18.2
1974	518.4	2,159,723	-9.1
1975	437.6	2,319,447	-15.6

Year	Daily average	Cumulative	% change in daily av
1976	497.3	2,501,464	13.6
1977	444.6	2,663,744	-10.6
1978	486.7	2,841,383	9.5
1979	508.1	3,026,842	4.4
1980	471.4	3,199,374	-7.2
1981	415.2	3,350,924	-11.9
1982	332.0	3,472,104	-20.0
1983	269.0	3,570,289	-19.0
1984	325.3	3,689,348	20.9
1985	289.3*	3,794,957	-11.1
1986	305.7*	3,906,528	5.6
1987	218.9*	3,986,431	-28.4
1988	228.0*	4,069,875	4.1
1989	320.2	4,186,764	40.5
1990	405.6	4,334,808	26.7
1991	391.2	4,477,596	-3.6
1992	423.2	4,632,487	8.2
1993	390.3	4,774,946	-7.8
1994	378.7	4,913,172	-3.0
1995	389.8	5,055,460	2.9
1996	393.1	5,199,318	0.8
1997	405.0	5,347,148	3.0
1998	618.1	5,572,755	52.6
1999	608.5	5,794,857	-1.6
2000	648.2	6,032,088	6.5
2001	632.9	6,263,096	-2.4

Sources: Direct communications to the Secretariat; 1949–1963: De Golyer and MacNaughton, *Twentieth Century Petroleum Statistics*; 1985–1987: direct communications to the Secretariat and secondary sources; 1988: secondary sources.

Graph 13:
QatarGraph 14:
Saudi Arabia

Cumulative crude oil production in OPEC Members (1,000 b)

Saudi Arabia

Year	Daily average	Cumulative	% change in daily av	Year	Daily average	Cumulative	% change in daily av
1938	1.4	511		1970	3,799.1	13,283,848	18.1
1939	10.8	4,453	671.4	1971	4,768.9	15,024,497	25.5
1940	13.9	9,540	28.7	1972	6,016.3	17,226,462	26.2
1941	11.8	13,847	-15.1	1973	7,596.2	19,999,075	26.3
1942	12.4	18,373	5.1	1974	8,479.7	23,094,166	11.6
1943	13.3	23,228	7.3	1975	7,075.4	25,676,687	-16.6
1944	21.3	31,024	60.2	1976	8,577.2	28,815,932	21.2
1945	58.4	52,340	174.2	1977	9,199.9	32,173,898	7.3
1946	164.2	112,273	181.2	1978	8,301.1	35,203,793	-9.8
1947	246.2	202,136	49.9	1979	9,532.6	38,683,202	14.8
1948	390.3	344,986	58.5	1980	9,900.5	42,306,785	3.9
1949	476.7	518,981	22.1	1981	9,808.0	45,886,705	-0.9
1950	546.7	718,527	14.7	1982	6,483.0	48,253,000	-33.9
1951	761.5	996,474	39.3	1983	4,539.4	49,909,884	-30.0
1952	824.8	1,298,351	8.3	1984	4,079.1	51,402,828	-10.1
1953	844.6	1,606,630	2.4	1985	3,175.0	52,561,686	-22.2
1954	961.8	1,957,687	13.9	1986	4,784.2	54,307,919	50.7
1955	976.6	2,314,146	1.5	1987	3,975.2	55,758,849	-16.9
1956	1,002.8	2,681,171	2.7	1988	5,100.1*	57,625,503	28.3
1957	1,030.8	3,057,413	2.8	1989	5,064.5	59,474,046	-0.7
1958	1,058.5	3,443,765	2.7	1990	6,412.5	61,814,608	26.6
1959	1,152.7	3,864,501	8.9	1991	8,117.8	64,777,605	26.6
1960	1,313.5	4,345,242	13.9	1992	8,331.7	67,827,007	2.6
1961	1,480.1	4,885,478	12.7	1993	8,047.7	70,764,418	-3.4
1962	1,642.9	5,485,137	11.0	1994	8,049.0	73,702,303	-
1963	1,786.0	6,137,027	8.7	1995	8,023.4	76,630,844	-0.3
1964	1,896.5	6,831,146	6.2	1996	8,102.3	79,596,286	1.0
1965	2,205.3	7,636,080	16.3	1997	8,011.7	82,520,556	-1.1
1966	2,601.8	8,585,737	18.0	1998	8,280.2	85,542,829	3.4
1967	2,805.0	9,609,562	7.8	1999	7,564.7	88,303,945	-8.6
1968	3,042.9	10,723,264	8.5	2000	8,094.5	91,266,532	7.0
1969	3,216.2	11,897,177	5.7	2001	7,888.9	94,145,980	-2.5

Note: Figures include share of production from Neutral Zone.

Sources: Direct communications to the Secretariat; 1988: direct communications to the Secretariat and secondary sources.

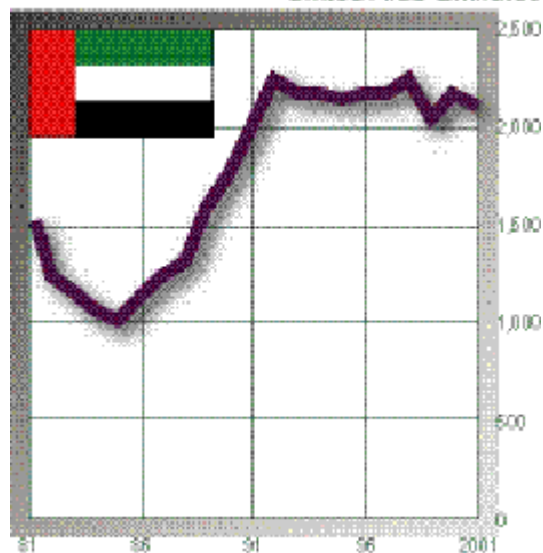
Cumulative crude oil production in OPEC Members (1,000 b)

United Arab Emirates

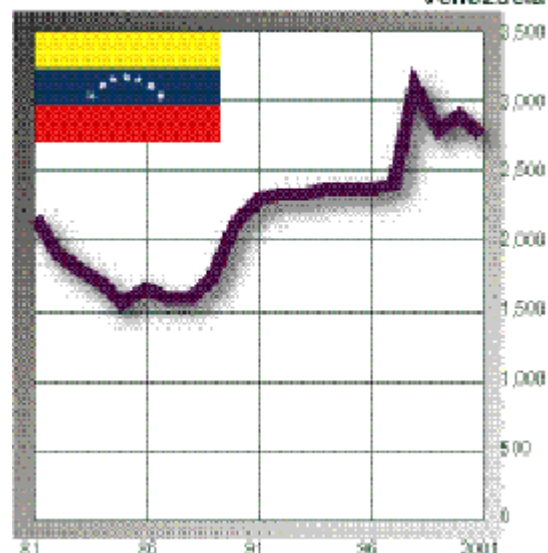
Year	Daily average	Cumulative	% change in daily av	Year	Daily average	Cumulative	% change in daily av
1962	14.2	5,183		1982	1,248.8	8,168,382	-16.9
1963	48.2	22,776	239.4	1983	1,149.0	8,587,775	-8.0
1964	186.8	91,145	287.6	1984	1,069.0	8,979,037	-7.0
1965	282.2	194,148	51.1	1985	1,009.1*	9,347,375	-5.6
1966	360.0	325,548	27.6	1986	1,128.6*	9,759,296	11.8
1967	382.1	465,014	6.1	1987	1,242.3*	10,212,731	10.1
1968	496.6	646,770	30.0	1988	1,323.5*	10,697,122	6.5
1969	627.8	875,917	26.4	1989	1,593.0*	11,278,568	20.4
1970	779.6	1,160,471	24.2	1990	1,762.6*	11,921,927	10.6
1971	1,059.5	1,547,188	35.9	1991	2,027.4*	12,661,931	15.0
1972	1,202.7	1,987,377	13.5	1992	2,235.7*	13,480,186	10.3
1973	1,532.6	2,546,776	27.4	1993	2,159.3	14,268,325	-3.4
1974	1,678.6	3,159,465	9.5	1994	2,166.5	15,059,110	0.3
1975	1,663.8	3,766,752	-0.9	1995	2,148.0	15,843,130	-0.9
1976	1,936.4	4,475,475	16.4	1996	2,161.3	16,634,166	0.6
1977	1,998.7	5,205,004	3.2	1997	2,160.7	17,422,821	-
1978	1,830.5	5,873,137	-8.4	1998	2,244.1	18,241,918	3.9
1979	1,830.7	6,541,339	-	1999	2,048.8	18,989,730	-8.7
1980	1,701.9	7,164,231	-7.0	2000	2,174.7	19,785,670	6.1
1981	1,502.3	7,712,570	-11.7	2001	2,114.2	20,557,351	-2.8

Sources: Direct communications to the Secretariat; 1962–1966: PIW; 1985, 1992: direct communications to the Secretariat and secondary sources; 1986–1991: secondary sources.

Graph 15:
United Arab Emirates



Graph 16:
Venezuela



Cumulative crude oil production in OPEC Members (1,000 b)

Venezuela

Year	Daily average	Cumulative	% change in daily av	Year	Daily average	Cumulative	% change in daily av
1917	0.3	110		1960	2,846.1	13,865,487	2.7
1918	0.9	438	200.0	1961	2,919.9	14,931,250	2.6
1919	0.8	730	-11.1	1962	3,199.8	16,099,177	9.6
1920	1.3	1,206	62.5	1963	3,247.9	17,284,661	1.5
1921	4.0	2,666	207.7	1964	3,392.8	18,526,426	4.5
1922	6.1	4,892	52.5	1965	3,472.9	19,794,034	2.4
1923	11.9	9,236	95.1	1966	3,371.1	21,024,486	-2.9
1924	24.9	18,349	109.2	1967	3,542.1	22,317,352	5.1
1925	54.6	38,278	119.3	1968	3,604.8	23,636,709	1.8
1926	97.7	73,939	78.9	1969	3,594.1	24,948,556	-0.3
1927	165.5	134,346	69.4	1970	3,708.0	26,301,976	3.2
1928	289.5	240,303	74.9	1971	3,549.1	27,597,397	-4.3
1929	372.8	376,375	28.8	1972	3,219.9	28,775,880	-9.3
1930	370.5	511,608	-0.6	1973	3,366.0	30,004,470	4.5
1931	320.2	628,481	-13.6	1974	2,976.3	31,090,820	-11.6
1932	319.0	745,235	-0.4	1975	2,346.2	31,947,183	-21.2
1933	323.8	863,422	1.5	1976	2,294.4	32,786,934	-2.2
1934	373.4	999,713	15.3	1977	2,237.9	33,603,767	-2.5
1935	406.9	1,148,231	9.0	1978	2,165.5	34,394,184	-3.2
1936	422.5	1,302,866	3.8	1979	2,356.4	35,254,273	8.8
1937	508.9	1,488,615	20.4	1980	2,165.0	36,046,663	-8.1
1938	515.2	1,676,663	1.2	1981	2,108.3	36,816,192	-2.6
1939	560.4	1,881,209	8.8	1982	1,895.0	37,507,867	-10.1
1940	502.3	2,065,051	-10.4	1983	1,800.8	38,165,159	-5.0
1941	621.3	2,291,825	23.7	1984	1,695.5	38,785,712	-5.8
1942	405.9	2,439,979	-34.7	1985	1,564.0	39,356,572	-7.8
1943	491.5	2,619,376	21.1	1986	1,648.5	39,958,275	5.4
1944	702.3	2,876,418	42.9	1987	1,575.5	40,533,332	-4.4
1945	886.0	3,199,808	26.2	1988	1,578.1	41,110,930	0.2
1946	1,064.3	3,588,277	20.1	1989	1,747.4	41,748,731	10.7
1947	1,191.5	4,023,175	12.0	1990	2,135.2	42,528,079	22.2
1948	1,338.8	4,513,176	12.4	1991	2,286.2	43,362,542	7.1
1949	1,321.4	4,995,487	-1.3	1992	2,345.6	44,221,032	2.6
1950	1,498.0	5,542,257	13.4	1993	2,326.0	45,070,022	-0.8
1951	1,704.6	6,164,436	13.8	1994	2,367.9	45,934,305	1.8
1952	1,803.9	6,824,663	5.8	1995	2,378.5	46,802,458	0.4
1953	1,765.0	7,468,888	-2.2	1996	2,381.0	47,673,904	0.1
1954	1,895.3	8,160,673	7.4	1997	2,411.0	48,553,919	1.3
1955	2,157.2	8,948,051	13.8	1998	3,120.0	49,692,719	29.4
1956	2,456.8	9,847,239	13.9	1999	2,800.4	50,714,865	-10.2
1957	2,779.2	10,861,647	13.1	2000	2,891.0	51,772,971	3.2
1958	2,604.8	11,812,399	-6.3	2001	2,791.9	52,792,016	-3.4
1959	2,771.0	12,823,814	6.4				

Sources: Direct communications to the Secretariat; 1917-1963: Ministry of Mines and Hydrocarbons Industry, statistical data 1966.

World crude oil production by country, 1997–2001 (1,000 b/d)

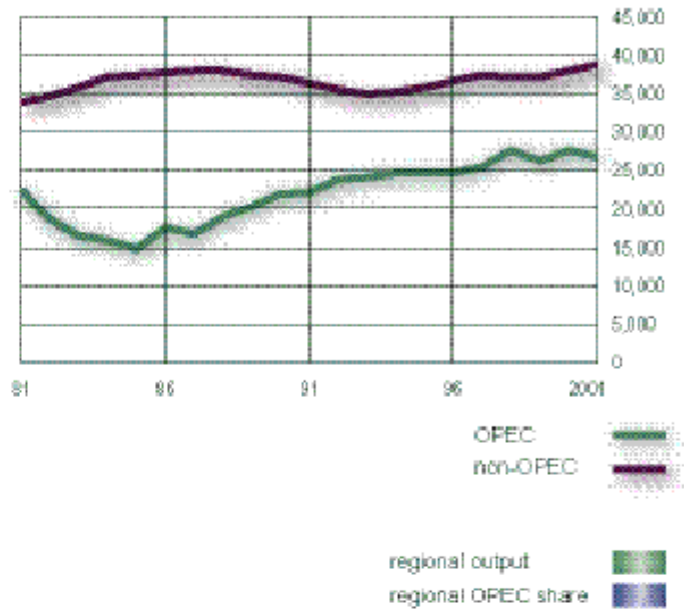
	1997	1998	1999	2000	2001	% change 01/00
North America	7,862.1	7,615.3	7,225.7	7,213.1	7,181.3	-0.4
Canada	1,410.6	1,363.4	1,344.3	1,391.4	1,380.0	-0.8
USA	6,451.4	6,251.9	5,881.5	5,821.6	5,801.3	-0.3
Latin America	8,481.6	9,477.1	9,128.4	9,295.8	9,318.1	0.2
Argentina	834.2	846.9	801.5	759.9	765.0	0.7
Brazil	841.6	975.4	1,101.6	1,233.0	1,305.1	5.9
Chile	8.5	8.1	7.7	7.8	8.3	6.8
Colombia	652.5	746.9	815.5	687.2	603.7	-12.2
Ecuador	386.8	377.9	372.1	391.4	405.8	3.7
Mexico	3,022.4	3,070.6	2,906.1	3,012.1	3,127.1	3.8
Peru	118.3	115.6	105.9	99.2	95.1	-4.2
Trinidad & Tobago	123.8	122.6	125.0	119.5	110.3	-7.7
Venezuela	2,411.0	3,120.0	2,800.4	2,891.0	2,791.9	-3.4
Others	82.7	93.0	92.6	94.6	105.9	11.8
Eastern Europe	7,093.0	7,083.3	7,212.0	7,629.3	8,245.3	8.1
Albania	8.1	7.0	6.2	6.3	6.0	-5.3
Hungary	33.2	31.3	29.0	26.9	28.9	7.3
Romania	129.0	125.0	118.0	118.0	118.4	0.3
Former USSR	6,912.1	6,907.5	7,044.9	7,459.1	8,070.4	8.2
Others	10.6	12.6	13.9	18.9	21.6	14.2
Western Europe	6,130.3	6,055.2	6,097.3	6,239.1	6,147.7	-1.5
Denmark	230.9	236.5	297.3	362.6	346.5	-4.4
France	35.6	34.2	30.5	28.4	27.9	-1.7
Germany	55.5	56.9	53.9	61.9	64.4	4.0
Italy	107.8	104.7	83.4	74.1	69.2	-6.6
Netherlands	56.0	53.6	51.2	27.6	26.6	-3.6
Norway	3,062.9	2,908.0	2,880.7	3,182.8	3,226.5	1.4
Turkey	67.8	68.0	60.2	54.1	49.6	-8.4
United Kingdom	2,422.1	2,506.4	2,569.9	2,378.1	2,267.6	-4.6
Former Yugoslavia	49.0	46.6	42.7	41.5	39.2	-5.6
Others	42.7	40.3	27.5	28.1	30.3	7.9
Middle East	19,606.6	21,108.5	20,279.9	21,437.4	20,772.9	-3.1
Bahrain	182.4	185.0	176.4	180.5	176.0	-2.5
IR Iran	3,603.4	3,714.0	3,439.0	3,661.3	3,572.0	-2.4
Iraq	1,383.9	2,181.1	2,719.8*	2,810.2*	2,593.7	-7.7
Kuwait ¹	2,007.1	2,051.5	1,872.7	1,996.1	1,947.0	-2.5
Oman	899.6	896.1	903.3	898.7	872.4	-2.9
Qatar	405.0	618.1	608.5	648.2	632.9	-2.4
Saudi Arabia ¹	8,011.7	8,280.2	7,564.7	8,094.5	7,888.9	-2.5
Syrian Arab Republic	572.0	553.4	537.5	529.1	519.1	-1.9
United Arab Emirates	2,160.7	2,244.1	2,048.8	2,174.7	2,114.2	-2.8
Yemen	380.8	385.1	409.2	444.2	456.7	2.8
Africa	6,589.8	6,708.6	6,348.5	6,774.8	6,625.4	-2.2
Algeria	846.1	827.3	749.6	796.0	776.6	-2.4
Angola	713.6	734.4	765.0	752.0	740.4	-1.5
Cameroon	100.0	100.0	100.0	100.7	80.0	-20.5
Congo	265.0	265.0	265.0	265.0	265.0	-
Egypt	822.6	790.1	755.7	695.0	639.3	-8.0
Gabon	367.5	359.9	340.0	327.4	300.8	-8.1
SP Libyan AJ	1,395.8	1,449.0*	1,287.2*	1,347.2	1,323.5	-1.8
Nigeria	1,876.7	1,939.0*	1,781.5	2,053.6	2,017.6	-1.8
Tunisia	78.4	78.8	79.9	76.1	68.8	-9.6
Others	124.0	164.9	224.6	361.8	413.5	14.3
Asia and Pacific	7,082.9	6,957.2	7,068.1	7,222.0	7,208.0	-0.2
Australia	567.8	536.9	518.5	699.8	633.7	-9.4
Brunei	147.0	141.3	166.8	177.9	180.5	1.5
China	3,252.4	3,152.2	3,211.9	3,230.6	3,297.2	2.1
India	678.7	658.8	655.8	645.7	642.4	-0.5
Indonesia	1,330.4	1,315.4	1,355.5	1,272.5	1,214.2	-4.6
Malaysia	624.2	639.6	617.5	598.4	601.7	0.5
New Zealand	59.2	47.0	41.4	36.7	33.2	-9.5
Others	423.2	466.0	500.8	560.4	605.1	8.0
Total world	62,846.3	65,005.1	63,360.0	65,811.4	65,498.7	-0.5
OPEC	25,431.8	27,739.7	26,227.8	27,745.2	26,872.5	-3.1
OPEC percentage	40.5	42.7	41.4	42.2	41.0	

Notes: Totals may not add up due to independent rounding. Revisions have been made throughout the time series.

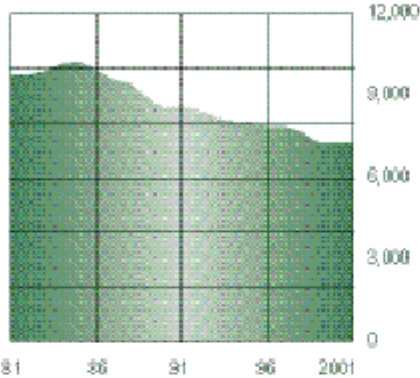
1. Including share of production from Neutral Zone.

Sources: Direct communications to the Secretariat; various national and secondary sources.

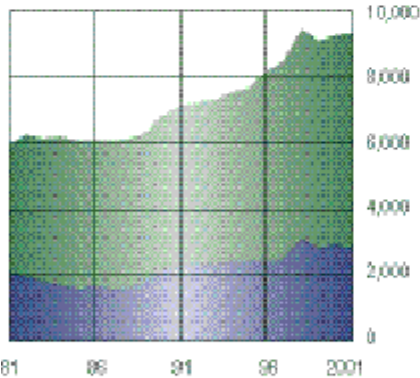
Graph 17:
World crude oil production, 1981–2001
(1,000 b/d)



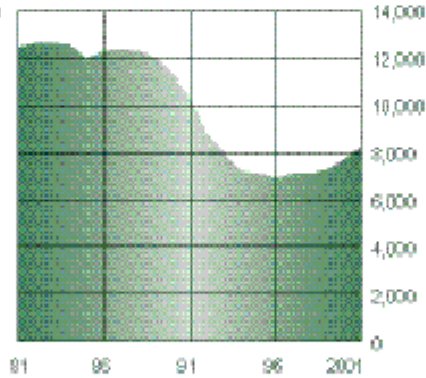
Graph 18:
North America



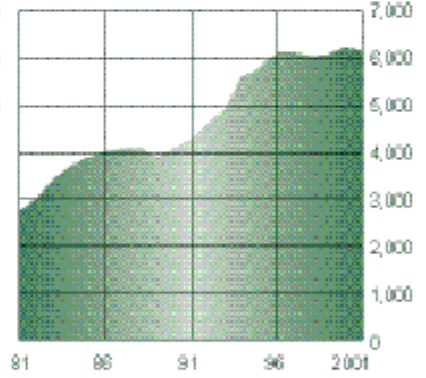
Graph 19:
Latin America



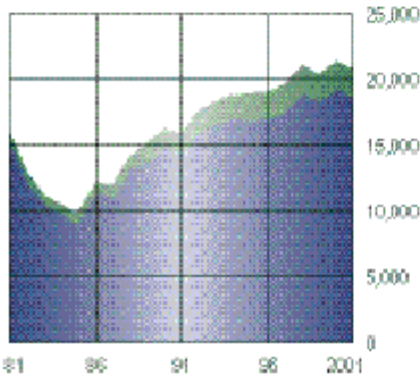
Graph 20:
Eastern Europe



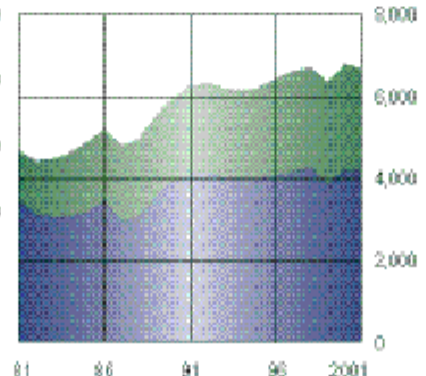
Graph 21:
Western Europe



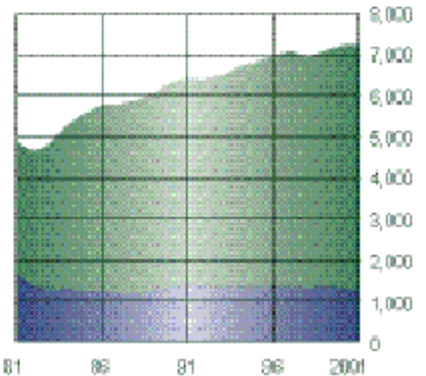
Graph 22:
Middle East



Graph 23:
Africa



Graph 24:
Asia and Far East



Breakdown of natural gas production in OPEC Members, 1997–2001
(million standard cu m)

	1997	1998	1999	2000	2001	% change 01/00
Algeria						
Gross production	155,721	157,188	155,835	170,179	173,106	1.7
Marketed production	75,730	80,876	85,848	88,617	84,136	-5.1
Flaring	6,927	6,931	6,733	6,800	4,760	-30.0
Reinjection	67,118	63,959	58,204	69,162	78,152	13.0
Shrinkage	5,946	5,422	5,050	5,600	6,058	8.2
Indonesia						
Gross production	88,680	84,380	86,880	82,167	86,800	5.6
Marketed production	67,150	64,250	70,960	68,365	69,000	0.9
Flaring	4,900	5,000	4,810	4,807	5,200	8.2
Reinjection	15,190	13,730	6,480	4,453	7,500	68.4
Shrinkage	1,440	1,400	4,630	4,542	5,100	12.3
IR Iran						
Gross production	82,600	89,000	104,605	122,379	114,325	-6.6
Marketed production	47,000	50,000	56,755	60,147	69,145	15.0
Flaring	11,000	10,000	12,500	12,550	7,439	-40.7
Reinjection	21,000	25,000	29,850	44,132	32,441	-26.5
Shrinkage	3,600	4,000	5,500	5,550	5,300	-4.5
Iraq						
Gross production	3,800	4,000	4,380	4,350	3,950	-9.2
Marketed production	3,050	2,950	3,180	3,150	2,760	-12.4
Flaring	500	800	950	950	950	-
Reinjection	-	-	-	-	-	-
Shrinkage	250	250	250	250	240	-4.0
Kuwait						
Gross production	10,870	11,081	10,144	11,200	10,546	-5.8
Marketed production	9,270	9,491	8,688	9,600	9,500	-1.0
Flaring	510	500	458	500	324	-35.2
Reinjection	-	-	-	-	-	-
Shrinkage	1,090	1,090	998	1,100	722	-34.4
SP Libyan AJ						
Gross production	12,910	12,600	9,200	10,150	10,330	1.8
Marketed production	6,570	6,360	5,200	5,880	6,180	5.1
Flaring	1,850	1,830	1,300	1,380	1,360	-1.4
Reinjection	3,890	3,810	2,100	2,540	2,450	-3.5
Shrinkage	600	600	600	350	340	-2.9
Nigeria						
Gross production	32,280	31,750	30,700	34,860	38,180	9.5
Marketed production	5,850	5,900	6,950	12,460	15,680	25.8
Flaring	22,600	20,900	18,850	17,200	16,800	-2.3
Reinjection	3,230	4,200	4,000	4,000	4,000	-
Shrinkage	600	750	900	1,200	1,700	41.7
Qatar						
Gross production	23,710	26,200	29,300	37,150	40,850	10.0
Marketed production	17,400	19,580	22,050	29,100	32,400	11.3
Flaring	-	-	-	-	-	-
Reinjection	3,710	3,860	4,000	4,250	4,200	-1.2
Shrinkage	2,600	2,760	3,250	3,800	4,250	11.8

Breakdown of natural gas production in OPEC Members, 1997–2001
(million standard cu m)

	1997	1998	1999	2000	2001	% change 01/00
Saudi Arabia						
Gross production	47,550	48,140	48,690	53,510	57,000	6.5
Marketed production	45,840	46,720	46,200	49,970	53,690	7.4
Flaring	990	430	310	580	230	-60.3
Reinjection	300	100	50	100	90	-10.0
Shrinkage	420	890	2,130	2,860	2,990	4.5
United Arab Emirates						
Gross production	48,090	48,980	51,000	50,530	60,290	19.3
Marketed production	36,310	37,070	38,990	38,380	44,940	17.1
Flaring	1,520	1,500	1,300	1,290	1,290	-
Reinjection	7,000	7,150	7,450	7,500	10,000	33.3
Shrinkage	3,260	3,260	3,260	3,360	4,060	20.8
Venezuela						
Gross production	59,153	61,350	57,066	61,878	62,370	0.8
Marketed production	30,211	31,440	26,771	27,801	31,710	14.1
Flaring	4,430	4,400	3,702	4,874	3,320	-31.9
Reinjection	18,440	18,710	19,712	20,407	21,200	3.9
Shrinkage	6,072	6,800	6,881	8,796	6,140	-30.2
OPEC						
Gross production	565,364	574,669	587,800	638,353	657,747	3.0
Marketed production	344,381	354,637	371,592	393,470	419,141	6.5
Flaring	55,227	52,291	50,913	50,931	41,673	-18.2
Reinjection	139,878	140,519	131,846	156,544	160,033	2.2
Shrinkage	25,878	27,222	33,449	37,408	36,900	-1.4

Notes: Totals may not add up due to independent rounding. Revisions have been made throughout the time series.

Sources: Direct communications to the Secretariat; Cedigaz; BP Statistical Review; national sources; Secretariat's estimates.

World marketed production of natural gas by country, 1997–2001 (*million standard cu m*)

	1997	1998	1999	2000	2001	% change 01/00
North America	700,829	709,042	710,703	720,884	737,194	2.3
Canada	165,580	170,300	177,370	183,190	186,810	2.0
United States	535,249	538,742	533,333	537,694	550,384	2.4
Latin America	114,471	122,670	125,251	131,461	137,390	4.5
Argentina	27,380	29,590	34,570	37,410	37,150	-0.7
Bolivia	3,170	3,030	2,470	3,150	4,050	28.6
Brazil	5,520	5,800	6,170	5,310	5,950	12.1
Chile	2,130	2,010	1,200	1,140	1,200	5.3
Colombia	3,970	6,260	5,180	5,700	5,700	-
Mexico	31,700	34,330	36,150	35,820	35,310	-1.4
Trinidad & Tobago	9,300	9,300	11,730	14,050	15,190	8.1
Venezuela	30,211	31,440	26,771	27,801	31,710	14.1
Others	1,090	910	1,010	1,080	1,130	4.6
Eastern Europe	694,510	714,320	726,720	744,280	740,290	-0.5
Hungary	4,370	3,850	3,400	3,190	3,250	1.9
Poland	3,300	3,740	3,650	3,900	4,000	2.6
Romania	15,700	14,600	14,600	13,600	13,000	-4.4
Former USSR	670,680	691,710	704,710	723,240	719,690	-0.5
Others	460	420	360	350	350	-
Western Europe	271,960	271,640	277,020	282,630	285,060	0.9
Denmark	7,880	7,580	7,770	8,190	8,380	2.3
Germany	21,520	21,000	22,430	21,240	21,440	0.9
Italy	19,460	19,010	17,480	15,700	14,600	-7.0
Netherlands	81,840	79,910	72,030	67,750	72,260	6.7
Norway	45,940	46,200	49,880	52,880	54,600	3.3
United Kingdom	85,840	89,020	98,710	108,330	105,900	-2.2
Others	9,480	8,920	8,720	8,540	7,880	-7.7
Middle East	178,680	187,161	196,193	213,267	241,245	13.1
Bahrain	7,970	8,290	8,410	8,530	8,900	4.3
IR Iran	47,000	50,000	56,755	60,147	69,145	15.0
Iraq	3,050	2,950	3,180	3,150	2,760	-12.4
Kuwait	9,270	9,491	8,688	9,600	9,500	-1.0
Oman	6,970	7,010	5,590	8,390	13,770	64.1
Qatar	17,400	19,580	22,050	29,100	32,400	11.3
Saudi Arabia	45,840	46,720	46,200	49,970	53,690	7.4
Syrian Arab Republic	4,560	5,750	6,040	5,700	5,840	2.5
United Arab Emirates	36,310	37,070	38,990	38,380	44,940	17.1
Others	310	300	290	300	300	-
Africa	106,410	111,876	118,138	131,087	133,386	1.8
Algeria	75,730	80,876	85,848	88,617	84,136	-5.1
Egypt	13,500	13,740	14,670	18,300	21,200	15.8
SP Libyan AJ	6,570	6,360	5,200	5,880	6,180	5.1
Nigeria	5,850	5,900	6,950	12,460	15,680	25.8
Others	4,760	5,000	5,470	5,830	6,190	6.2

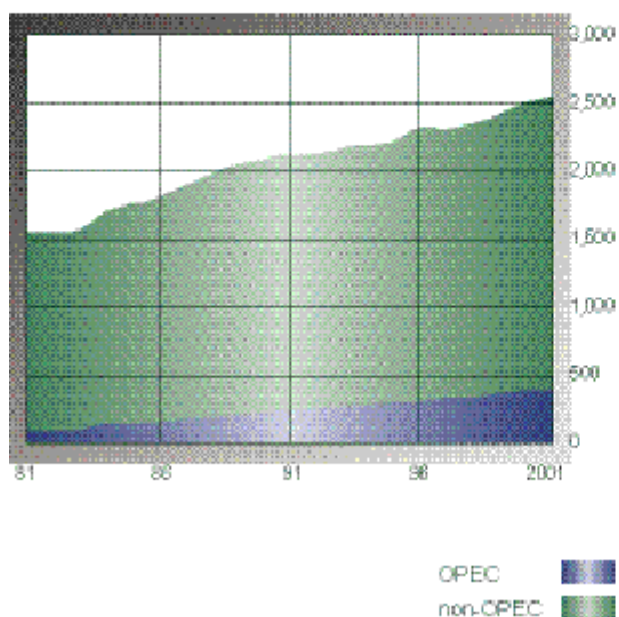
World marketed production of natural gas by country, 1997–2001 (million standard cu m)

	1997	1998	1999	2000	2001	% change 01/00
Asia and Pacific	239,190	241,880	258,390	273,115	289,670	6.1
Australia	30,430	30,960	31,700	32,300	33,800	4.6
Bangladesh	7,630	8,200	9,050	9,500	9,900	4.2
Brunei	9,180	8,920	9,450	9,940	10,350	4.1
China	21,200	22,190	24,190	27,100	30,300	11.8
India	20,300	21,540	21,300	22,500	22,750	1.1
Indonesia	67,150	64,250	70,960	68,365	69,000	0.9
Malaysia	38,400	38,800	40,270	48,350	53,660	11.0
Myanmar	1,510	1,760	1,720	3,400	7,350	116.2
New Zealand	4,590	4,810	5,300	5,400	5,600	3.7
Pakistan	19,780	20,100	22,200	22,800	23,400	2.6
Thailand	15,230	16,100	17,710	18,620	18,730	0.6
Others	3,790	4,250	4,540	4,840	4,830	-0.2
Total world	2,306,050	2,358,589	2,412,415	2,496,724	2,564,235	2.7
OPEC	344,381	354,637	371,592	393,470	419,141	6.5
OPEC percentage	14.9	15.0	15.4	15.8	16.3	

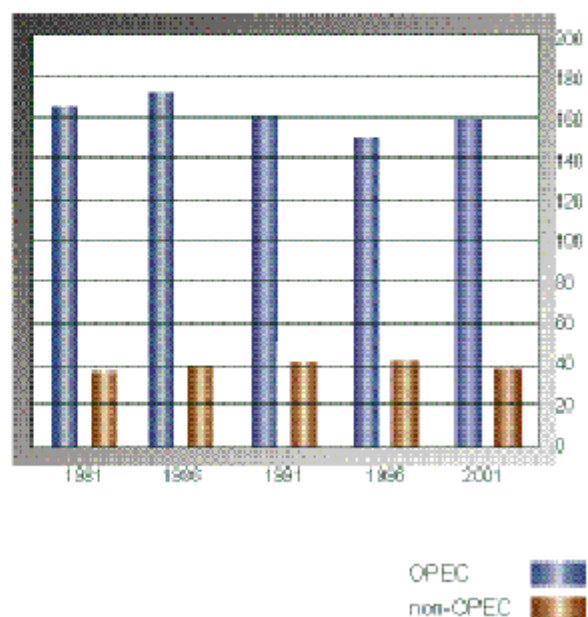
Notes: Totals may not add up due to independent rounding. Revisions have been made throughout the time series.

Sources: Direct communications to the Secretariat; Cedigaz; BP Statistical Review; national sources.

Graph 25:
World marketed gas production, 1981–2001
(bn cu m)



Graph 26:
World natural gas reserves to production ratios
(gross production minus re-injection)
(years)



Crude oil production by companies in OPEC Members 1997–2001 (1,000 b/d)

						% change
Algeria	1997	1998*	1999*	2000*	2001*	01/00
Sonatrach	813.8	770.5	698.1	741.3	723.3	–
Total Algérie	8.0	7.8	7.1	7.5	7.3	–
Medaloil	na	na	na	na	na	na
Hispanoil	na	na	na	na	na	na
Braspetro	na	na	na	na	na	na
Total	846.1	827.3	749.6	796.0	776.6	–2.4

Note: Sum of figures may not equal totals due to unavailability of data for some companies. Revisions have been made throughout the time series.

Sources: Direct communications to the Secretariat; oil company annual reports; Secretariat's estimates.

						% change
Indonesia	1997*	1998*	1999*	2000	2001	01/00
Pertamina	65.2	61.3	57.6	45.9	43.8	na
PT Stanvac	na	na	na	na	na	na
Calasiatic/Topco	na	na	na	na	na	na
Total production sharing	1,155.7	1,086.4	1,021.2	1,150.0	1,097.3	–4.6
PT Caltex	617.8	580.7	545.9	693.5	661.7	–
Inpex	na	na	na	na	na	na
Arri	61.9	58.2	54.7	54.7	52.2	–
Arco	na	na	na	na	na	na
Hudbay Oil	na	na	na	na	na	na
Total Indonesia	78.0	73.3	68.9	21.5	20.5	–
Calasiatic/Topco	–	–	–	–	–	–
Unocal	54.5	51.3	48.2	55.4	52.9	–
Petromer Trend	na	na	na	na	na	na
Conoco	29.8	28.0	26.3	47.8	45.6	–
Maxus SES	92.3	86.8	81.6	126.7	120.9	–
Asamera North, South	3.0	2.8	2.6	na	na	na
Tesoro	na	na	na	na	na	na
Marathon	18.4	17.3	16.3	na	na	na
CSR	na	na	na	na	na	na
Hufco	na	na	na	na	na	na
Kodeco Energy	2.9	2.7	2.6	3.8	3.6	–
Vico	50.9	47.9	45.0	na	na	na
PTSI	7.4	7.0	6.6	na	na	na
Lasmo	5.1	4.8	4.5	na	na	na
PT Stanvac (Rimau)	na	na	na	na	na	na
Others	133.6	125.6	118.0	146.6	139.9	–
Total	1,330.4	1,315.4	1,355.5	1,272.5	1,214.2	–4.6

Notes: Sum of figures may not equal totals due to unavailability of data for some companies. Revisions have been made throughout the time series.

Sources: Direct communications to the Secretariat; Secretariat's estimates.

						% change
IR Iran	1997	1998	1999	2000	2001	01/00
NIOC	3,603.4	3,714.0	3,439.0	3,661.3	3,572.0	–
Total	3,603.4	3,714.0	3,439.0	3,661.3	3,572.0	–2.4

Sources: Direct communications to the Secretariat; Secretariat's estimates.

Crude oil production by companies in OPEC Members 1997–2001 (1,000 b/d)

Iraq	1997	1998	1999	2000	2001	% change
						01/00
INOC	1,383.9	2,181.1	2,719.8	2,810.2	2,593.7	–
Total	1,383.9	2,181.1	2,719.8	2,810.2	2,593.7	–7.7

Sources: Direct communications to the Secretariat; Secretariat's estimates.

Kuwait	1997*	1998*	1999*	2000*	2001*	% change
						01/00
KOC	1,813.4	1,853.5	1,692.0	1,803.4	1,759.1	–
AOC	193.7	198.0	180.7	na	na	na
Total	2,007.1	2,051.5	1,872.7	1,996.1	1,947.0	–2.5

Sources: Direct communications to the Secretariat; Secretariat's estimates.

SP Libyan AJ	1997	1998	1999	2000	2001	% change
						01/00
Ageco/NOC	na	na	na	na	350.0	na
Oasis/NOC	na	na	na	na	na	na
Occidental/OMV/NOC	na	na	na	na	10.0	na
Agip	na	na	na	na	220.0	na
Esso Standard/NOC	na	na	na	na	na	na
Mobil/NOC	na	na	na	na	na	na
Umm Jawaby/Sirte/NOC	na	na	na	na	40.0	na
Aquitaine/NOC	na	na	na	na	na	na
Wintershall	na	na	na	na	70.0	na
NOC, others	na	na	na	na	350.0	na
Total	1,395.8	1,449.0	1,287.2	1,347.2	1,323.5	–1.8

Notes: Sum of figures may not equal totals due to unavailability of data for some companies. Revisions have been made throughout the time series.

Sources: Direct communications to the Secretariat; OAPC Bulletin; secondary sources; Secretariat's estimates.

Nigeria	1997*	1998*	1999*	2000*	2001*	% change
						01/00
Shell/NNPC	865.4	894.3	821.5	947.0	930.4	–
Gulf/NNPC	372.9	385.4	354.1	408.0	400.8	–
Mobil/NNPC	278.0	287.2	263.9	304.2	298.9	–
Agip/NNPC	144.5	149.3	137.2	158.1	155.4	–
Elf/NNPC	123.2	127.3	116.9	134.8	132.4	–
Texaco/NNPC	52.6	54.4	49.9	57.6	56.6	–
Pan Ocean	3.3	3.4	3.1	3.6	3.6	–
Tenneco	na	na	na	na	na	na
Phillips	na	na	na	na	na	na
Others	18.7	19.4	17.8	20.5	20.2	–
Production sharing	na	na	na	na	na	na
Ashland	18.0	18.6	17.1	19.7	19.4	–
Total	1,876.7	1,939.0	1,781.5	2,053.6	2,017.6	–1.8

Notes: Sum of figures may not equal totals due to unavailability of data for some companies. Revisions have been made throughout the time series.

Sources: Direct communications to the Secretariat; secondary sources; Secretariat's estimates.

Crude oil production by companies in OPEC Members 1997–2001 (1,000 b/d)

Qatar	1997*	1998*	1999*	2000*	2001*	% change
						01/00
QGPC						
Offshore	271.9	416.7	408.5	435.2	424.9	–
Onshore	133.1	201.4	200.0	213.0	208.0	–
Total	405.0	618.1	608.5	648.2	632.9	–2.4

Source: Direct communications to the Secretariat; Secretariat's estimates.

Saudi Arabia	1997	1998	1999	2000	2001	% change
						01/00
Aramco	na	na	na	na	na	na
AOC	na	198.0	na	na	na	na
Getty Oil Company	na	na	na	na	na	na
Total	8,011.7	8,280.2	7,564.7	8,094.5	7,888.9	–2.5

Notes: Sum of figures may not equal totals due to unavailability of data for some companies. Revisions have been made throughout the time series.

Sources: Direct communications to the Secretariat; Saudi Aramco, Annual Report; Saudi Arabian Monetary Agency; MEES; AOG.

United Arab Emirates	1997*	1998*	1999*	2000*	2001*	% change
						01/00
Abu Dhabi						
ADCO	1,008.4	1,047.3	956.2	1,014.9	986.7	–
ADMA	459.4	477.2	435.6	462.4	449.5	–
Total	29.0	30.2	27.5	29.2	28.4	–
ADOC	22.8	23.7	21.7	23.0	22.3	–
Amerada Hess	10.1	10.4	9.5	10.1	9.8	–
Zadco	319.1	331.4	302.6	321.2	312.2	–
Dubai						
DPC	305.1	316.9	289.3	307.1	298.5	–
Sharjah						
Buttes	6.7	7.0	6.4	6.8	6.6	–
Total	2,160.7	2,244.1	2,048.8	2,174.7	2,114.2	–2.8

Notes: Sum of figures may not equal totals due to unavailability of data for some companies. Revisions have been made throughout the time series.

Sources: Direct communications to the Secretariat; oil company annual reports; national sources; Secretariat's estimates.

Venezuela	1997*	1998*	1999*	2000*	2001*	% change
						01/00
Lagoven	950.6	1,230.1	–	–	–	–
Maraven	794.6	1,028.3	–	–	–	–
Meneven	–	–	–	–	–	–
Corpoven	665.8	861.6	–	–	–	–
PDVSA	–	–	2,800.4	2,891.0	2,791.9	–
Total	2,411.0	3,120.0	2,800.4	2,891.0	2,791.9	–3.4

Sources: Direct communications to the Secretariat; national sources; Secretariat's estimates.

Parent companies' percentage equity in companies holding producing rights
in OPEC Members, 2001

	BP Amoco ¹	TotalFinaElf ²	Exxon ³	Mobil ³	Shell	Chevron ⁴	Texaco ⁴	Government or NOC	Others
Algeria									
Sonatrach	-	-	-	-	-	-	-	100.00	-
Total Algérie	-	85.00	-	-	-	-	-	15.00	-
Medaloil	-	-	-	-	-	-	-	51.00	49.00
Hispanoil	-	-	-	-	-	-	-	51.00	49.00
Braspetro	-	-	-	-	-	-	-	51.00	49.00
Indonesia									
Pertamina	-	-	-	-	-	-	-	100.00	-
PT Stanvac	-	-	50.00	50.00	-	-	-	-	-
Calasiatic/Topco	-	-	-	-	-	50.00	50.00	-	-
Production sharing									
PT Caltex	-	-	-	-	-	50.00	50.00	-	-
Inpex	-	-	-	-	-	-	-	-	100.00
Arco	-	-	-	-	-	-	-	-	100.00
Total Indonésie	-	100.00	-	-	-	-	-	-	-
Hudbay Oil	-	-	-	-	-	-	-	-	100.00
Mobil Oil	-	-	-	100.00	-	-	-	-	-
Unocal	-	-	-	-	-	-	-	-	100.00
Petromer Trend	-	-	-	-	-	-	-	-	100.00
Maxus	-	-	-	-	-	-	-	-	100.00
Conoco	-	-	-	-	-	-	-	-	100.00
Tesoro	-	-	-	-	-	-	-	-	100.00
Asamera	-	-	-	-	-	-	-	-	100.00
Marathon	-	-	-	-	-	-	-	-	100.00
IR Iran									
NIOC	-	-	-	-	-	-	-	100.00	-
Iraq									
INOC	-	-	-	-	-	-	-	100.00	-
Kuwait									
KOC	-	-	-	-	-	-	-	100.00	-
AOC	-	-	-	-	-	-	-	20.00	80.00
SP Libyan AJ									
Oasis/NOC	-	-	-	-	-	-	-	59.17	40.83
Occidental/OMV//NOC	-	-	-	-	-	-	-	51.00	49.00
Agip/NOC	-	-	-	-	-	-	-	50.00	50.00
Umm Jawaby/Sirte/NOC	-	-	-	-	-	-	-	100.00	-
Aquitaine/NOC ²	-	-	-	-	-	-	-	85.00	15.00
Wintershall	-	-	-	-	-	-	-	-	100.00
Glesenberg	-	-	-	-	-	-	-	82.90	17.10
Grace Petroleum/Sirte	-	-	-	-	-	-	-	88.00	12.00
Occidental/OMV/NOC	-	-	-	-	-	-	-	81.00	19.00

Parent companies' percentage equity in companies holding producing rights
in OPEC Members, 2001

	BP Amoco ¹	TotalFinaElf ²	Exxon ³	Mobil ³	Shell	Chevron ⁴	Texaco ⁴	Government or NOC	Others
Nigeria									
Shell/NNPC	–	–	–	–	30.00	–	–	60.00	10.00
Chevron/NNPC	–	–	–	–	–	40.00	–	60.00	–
Mobil/NNPC	–	–	–	40.00	–	–	–	60.00	–
Agip/Phillips/NNPC	–	–	–	–	–	–	–	60.00	40.00
Elf/NNPC	–	–	–	–	–	–	–	60.00	40.00
Texaco/NNPC	–	–	–	–	–	20.00	20.00	60.00	–
Pan Ocean	–	–	–	–	–	–	–	60.00	40.00
Tenneco	–	–	–	–	–	–	–	80.00	20.00
Phillips	–	–	–	–	–	–	–	60.00	40.00
Production sharing									
Ashland	–	–	–	–	–	–	–	50.00	50.00
Qatar									
QGPC	–	–	–	–	–	–	–	100.00	–
Saudi Arabia									
Aramco	–	–	–	–	–	–	–	100.00	–
AOC	–	–	–	–	–	–	–	20.00	80.00
Getty Oil Company	–	–	–	–	–	–	–	–	100.00
United Arab Emirates									
ADCO	9.50	9.50	4.75	4.75	9.50	–	–	60.00	2.00
ADMA	14.67	13.33	–	–	–	–	–	60.00	12.00
Total	–	65.70	–	–	–	–	–	–	34.30
Amerada Hess	–	–	–	–	–	–	–	–	100.00
ADOC	–	–	–	–	–	–	–	–	100.00
DPC	–	–	–	–	–	–	–	–	100.00
Buttes	–	–	–	–	–	–	–	–	100.00
Zadco	–	–	–	–	–	–	–	88.00	12.00
Venezuela									
PDVSA	–	–	–	–	–	–	–	100.00	–

Notes: Figures as at year-end.

1. BP and Amoco merged on December 31, 1998.

2. TotalFina merged with Elf on February 9, 2000.

3. Exxon and Mobil merged on November 30, 1999.

4. Chevron and Texaco merged in October 2001.

Sources: FT, Oil and Gas International Yearbook; Petroleum Economist.

Parent companies' estimated gross share of crude oil production in OPEC Members,
1997–2001 (1,000 b/d)

	1997	1998	1999	2000	2001
Algeria	846	827	750	796	777
Total Algérie ¹	8	8	7	8	7
Government or NOC	814	771	699	741	723
Others	24	49	44	47	47
Indonesia¹	1,330	1,315	1,356	1,273	1,214
Total Indonésie ¹	78	77	80	75	71
Exxon ²	20	20	20	19	18
Mobil ²	63	62	64	60	58
Chevron ⁴	309	305	315	295	282
Texaco ⁴	309	305	315	295	282
Government or NOC	65	64	66	62	59
Others	486	481	496	465	444
IR Iran	3,603	3,714	3,439	3,661	3,572
Government or NOC	3,603	3,714	3,439	3,661	3,572
Others	–	–	–	–	–
Iraq	1,384	2,181	2,720	2,810	2,594
Government or NOC	1,384	2,181	2,720	2,810	2,594
Others	–	–	–	–	–
Kuwait	2,007	2,052	1,873	1,996	1,947
Government or NOC	1,813	1,853	1,692	1,803	1,759
Others	194	198	181	193	188
SP Libyan AJ	1,396	1,449	1,287	1,347	1,324
Government or NOC	1,039	1,079	958	1,003	974
Others	357	370	329	344	350
Nigeria	1,877	1,939	1,782	2,054	2,018
TotalFinaElf ²	49	51	47	54	53
Mobil ²	111	115	105	121	119
Shell	260	269	247	284	279
Chevron ⁴	159	164	151	174	171
Texaco ⁴	10	10	10	11	11
Government or NOC	1,126	1,164	1,069	1,233	1,211
Others	161	167	153	176	173
Qatar	405	618	609	648	633
Government or NOC	405	618	609	648	633
Others	–	–	–	–	–
Saudi Arabia	8,012	8,280	7,565	8,095	7,889
Government or NOC	7,852	8,082	7,384	7,901	7,700
Others	160	198	181	194	189
United Arab Emirates	2,161	2,244	2,049	2,175	2,114
BP Amoco ³	163	169	155	164	159
TotalFinaElf ¹	176	183	167	177	172
Exxon ²	75	78	71	75	73
Mobil ²	75	78	71	75	73
Shell	96	100	91	97	94
Government or NOC	1,163	1,208	1,103	1,171	1,138
Others	413	429	392	416	404
Venezuela	2,411	3,120	2,800	2,891	2,792
Government or NOC	2,411	3,120	2,800	2,891	2,792
Others	–	–	–	–	–

Parent companies' estimated gross share of crude oil production in OPEC Members, 1997–2001 (1,000 b/d)

	1997	1998	1999	2000	2001
OPEC	25,432	27,740	26,230	27,746	26,874
BP Amoco ³	163	169	155	164	159
TotalFinaElf ¹	312	319	301	314	304
Exxon ²	95	98	92	95	92
Mobil ²	249	255	241	257	250
Shell	356	368	338	381	373
Chevron ⁴	468	470	466	470	453
Texaco ⁴	319	316	324	306	293
Government or NOC	21,675	23,854	22,539	23,924	23,155
Others	1,795	1,891	1,775	1,835	1,795

Notes: Totals may not add up due to independent rounding.

1. TotalFina merged with Elf on February 9, 2000.

2. Exxon and Mobil merged on November 30, 1999.

3. BP and Amoco merged on December 31, 1998.

4. Chevron and Texaco merged to in October 2001.

Sources: Direct communications to the Secretariat; Secretariat's estimates.

Refinery capacity in OPEC Members by location, 1997–2001 (1,000 b/d)

	Location	1997	1998	1999	2000	2001*
Algeria		462.2	462.2	462.2	487.0	462.2
Sonatrach	Skikda	323.4	323.4	323.4	324.7	323.4
	Arzew	53.9	53.9	53.9	54.1	53.9
	El Harrach	58.2	58.2	58.2	54.1	58.2
	Hassi Messaoud	26.7	26.7	26.7	54.1	26.7
	In Amenas	–	–	–	–	–
Indonesia		891.2	929.7	929.7	1,057.0	1,057.0
Pertamina	Musi ¹	119.3	109.1	109.1	135.2	135.2
	Balongan	112.5	125.0	125.0	125.0	125.0
	Dumai	108.0	114.0	114.0	120.0	120.0
	Cilacap	270.0	285.0	285.0	348.0	348.0
	Balikipapan	228.2	240.9	240.9	260.0	260.0
	Sungai Pakning	45.0	47.5	47.5	50.0	50.0
	Pangkalan Brandan	4.8	4.8	4.8	5.0	5.0
	Wonokromo	na	na	na	na	na
	Cepu	3.4	3.4	3.4	3.8	3.8
	Kasim	–	–	–	10.0	10.0
IR Iran		1,208.0	1,524.0	1,524.0	1,474.0	1,474.0
NIOC	Abadan	297.0	450.0	450.0	400.0	400.0
	Arak	135.0	150.0	150.0	150.0	150.0
	Tehran	220.0	225.0	225.0	225.0	225.0
	Isfahan	254.0	265.0	265.0	265.0	265.0
	Tabriz	99.0	112.0	112.0	112.0	112.0
	Shiraz	40.0	40.0	40.0	40.0	40.0
	Kermanshah	27.0	30.0	30.0	30.0	30.0
	Lavan	20.0	20.0	20.0	20.0	20.0
	Masjid-I-Sulaiman	–	–	–	–	–
	Bandar Abbas	116.0	232.0	232.0	232.0	232.0
Iraq		603.0	603.0	603.0	603.0	603.0
INOC	Basrah	126.0	126.0	126.0	126.0	126.0
	Daurah	100.0	100.0	100.0	100.0	100.0
	Kirkuk	27.0	27.0	27.0	27.0	27.0
	Baiji (Salaheddin)	140.0	140.0	140.0	140.0	140.0
	Baiji (North)	150.0	150.0	150.0	150.0	150.0
	Khanaqin/Alwand	10.5	10.5	10.5	10.5	10.5
	Samawah	27.0	27.0	27.0	27.0	27.0
	Haditha	14.0	14.0	14.0	14.0	14.0
	Muftiah	4.5	4.5	4.5	4.5	4.5
	Gaiyarah	4.0	4.0	4.0	4.0	4.0
Kuwait		874.5	829.6	899.0	899.0	899.0
KNPC	Mina Al-Ahmadi	426.5	409.4	450.0	450.0	450.0
	Shuaiba	193.0	181.5	194.0	194.0	194.0
	Mina Abdullah	255.0	238.7	255.0	255.0	255.0
SP Libyan AJ		342.0	342.0	342.0	380.0	380.0
NOC	Zawia	108.0	108.0	108.0	120.0	120.0
	Marsa El-Brega	9.0	9.0	9.0	10.0	10.0
	Ras Lanuf	198.0	198.0	198.0	220.0	220.0
	Tobruk	18.0	18.0	18.0	20.0	20.0
	Sarir	9.0	9.0	9.0	10.0	10.0

Refinery capacity in OPEC Members by location, 1997–2001 (1,000 b/d)

	Location	1997	1998	1999	2000	2001*
Nigeria		424.0	424.0	424.0	445.0	445.0
WRPC	Warri	125.0	125.0	125.0	125.0	125.0
KRPC	Kaduna	110.0	110.0	110.0	110.0	110.0
PHRC	Port Harcourt	54.0	54.0	54.0	60.0	60.0
	Port Harcourt New	135.0	135.0	135.0	150.0	150.0
Qatar		63.0	63.0	63.0	63.0	63.0
NODCO	Umm Said I	13.0	13.0	13.0	13.0	13.0
	Umm Said II	50.0	50.0	50.0	50.0	50.0
Saudi Arabia		1,693.0	1,780.0	1,810.0	1,825.0	1,825.0
Saudi Aramco	Ras Tanura	300.0	325.0	325.0	325.0	325.0
	Jeddah	88.0	60.0	60.0	60.0	60.0
	Riyadh	140.0	125.0	110.0	115.0	115.0
Getty	Mina Saud	–	–	–	–	–
AOC	Khafji	30.0	30.0	30.0	30.0	30.0
Saudi Aramco	Yanbu (domestic)	190.0	210.0	210.0	225.0	225.0
Saudi Aramco/Mobil	Yanbu (export)	320.0	320.0	365.0	365.0	365.0
Saudi Aramco/Shell	Jubail	300.0	310.0	310.0	305.0	305.0
Saudi Aramco/Petrola	Rabigh	325.0	400.0	400.0	400.0	400.0
United Arab Emirates		291.0	291.0	411.0	420.0	491.3
ADNOC	Al-Ruwais	126.0	126.0	126.0	140.0	140.0
	Umm Al-Narr	85.0	85.0	85.0	90.0	90.0
Metro Oil	Fujairah	80.0	80.0	80.0	70.0	70.0
Emirate Oil	Jebel Ali	–	–	120.0	120.0	120.0
Sharjah Oil Refinery	Hamriyah	–	–	–	–	71.3
Venezuela		1,183.2	1,200.3	1,188.4	1,183.2	1,183.2
PDVSA	Amuay	571.0	571.0	571.0	564.0	564.0
	Caripito	–	–	–	–	–
	Cardon	297.0	297.0	297.0	293.0	293.0
	San Lorenzo	–	–	–	–	–
	Bajo Grande	–	–	–	11.0	11.0
	Moron	–	–	–	–	–
	Tucupita	–	–	–	–	–
	Puerto La Cruz/El Chaure	195.0	200.2	200.2	200.2	200.2
	San Roque	5.2	5.2	5.2	0.0	0.0
	El Palito	115.0	126.9	115.0	115.0	115.0
	Barinas	–	–	–	–	–
OPEC		8,035.1	8,448.8	8,656.3	8,836.2	8,882.7

Notes: Figures as at year-end. Some figures were converted from barrels per stream day. Totals may not add up due to independent rounding.

1. Plaju and Sungai Gerong.

Sources: Direct communications to the Secretariat; OGI; national sources; AOG.

World refinery capacity by country, 1997–2001 (1,000 b/d)

	1997	1998	1999	2000	2001	% change 01/00
North America	17,627.6	17,802.7	18,452.6	18,444.8	18,508.4	0.3
Canada	1,851.8	1,872.7	1,911.7	1,906.3	1,943.9	2.0
USA	15,775.8	15,930.0	16,541.0	16,538.5	16,565.5	0.2
Latin America	7,922.6	7,606.3	7,664.6	8,106.7	7,920.4	-2.3
Argentina	666.5	652.7	661.8	639.1	639.1	-
Brazil	1,662.3	1,772.3	1,783.3	1,918.1	1,785.8	-6.9
Colombia	248.9	248.9	248.9	285.9	285.9	-
Mexico	1,520.0	1,525.0	1,525.0	1,525.0	1,525.0	-
Netherland Antilles	525.0	250.0	320.0	320.0	320.0	-
Trinidad & Tobago	245.0	160.0	160.0	160.0	160.0	-
Venezuela	1,183.2	1,200.3	1,188.4	1,183.2	1,183.2	-
Virgin Islands	545.0	545.0	525.0	525.0	525.0	-
Others	1,326.7	1,252.2	1,252.2	1,550.4	1,496.4	-3.5
Eastern Europe	11,976.2	11,294.4	11,317.3	9,972.2	10,164.6	1.9
Former USSR	10,170.5	9,748.8	9,761.7	8,399.6	7,906.3	-5.9
Others	1,805.6	1,545.6	1,555.6	1,572.6	2,258.3	43.6
Western Europe	14,864.4	15,065.0	14,929.2	14,982.5	15,045.9	0.4
Belgium	629.8	714.8	719.0	768.0	791.0	3.0
France	1,865.2	1,946.9	1,901.9	1,895.5	1,896.5	0.1
Germany	2,183.7	2,246.0	2,275.3	2,259.0	2,258.8	-
Italy	2,453.4	2,446.2	2,340.6	2,359.1	2,282.8	-3.2
Netherlands	1,187.8	1,187.8	1,187.8	1,203.8	1,205.8	0.2
Spain	1,293.7	1,315.5	1,315.5	1,293.5	1,293.5	-
United Kingdom	1,825.8	1,854.0	1,784.7	1,771.0	1,784.0	0.7
Others	3,425.1	3,353.7	3,404.4	3,432.6	3,533.5	2.9
Middle East	5,781.0	6,134.5	6,353.9	6,337.9	6,409.2	1.1
IR Iran	1,208.0	1,524.0	1,524.0	1,474.0	1,474.0	-
Iraq	603.0	603.0	603.0	603.0	603.0	-
Kuwait	874.5	829.6	899.0	899.0	899.0	-
Qatar	63.0	63.0	63.0	63.0	63.0	-
Saudi Arabia	1,693.0	1,780.0	1,810.0	1,825.0	1,825.0	-
United Arab Emirates	291.0	291.0	411.0	420.0	491.3	17.0
Others	1,048.5	1,043.9	1,043.9	1,053.9	1,053.9	-
Africa	2,888.3	2,944.5	2,982.5	3,282.5	3,247.3	-1.1
Algeria	462.2	462.2	462.2	487.0	462.2	-5.1
Egypt	546.1	577.8	577.8	726.3	726.3	-
Gabon	17.1	17.1	17.1	17.1	17.3	-
SP Libyan AJ	342.0	342.0	342.0	380.0	380.0	-
Nigeria	424.0	424.0	424.0	445.0	445.0	-
Others	1,097.0	1,121.5	1,159.4	1,227.1	1,216.5	-0.9
Asia and Pacific	16,866.6	18,681.8	19,491.0	20,130.0	20,248.2	0.6
China	2,967.0	4,346.8	4,346.8	4,346.8	4,528.1	-
India	1,086.4	1,141.5	1,857.7	2,113.2	2,134.6	1.0
Indonesia	891.2	929.7	929.7	1,057.0	1,057.0	-
Japan	4,966.0	5,059.5	4,997.7	4,962.1	4,786.3	-3.5
South Korea	2,450.1	2,450.1	2,450.1	2,460.1	2,560.1	4.1
Singapore	1,157.0	1,172.0	1,255.0	1,270.0	1,258.5	-0.9
Taiwan	770.0	770.0	770.0	920.0	920.0	-
Australia	762.1	807.1	812.4	846.5	848.3	0.2
Others	1,816.8	2,005.1	2,071.6	2,154.3	2,155.3	-
Total world	77,926.8	79,529.2	81,191.1	81,256.6	81,544.0	0.4
OPEC	8,035.1	8,448.8	8,656.3	8,836.2	8,882.7	0.5
OPEC percentage	10.3	10.6	10.7	10.9	10.9	

Notes: Figures as at year-end. Some figures were converted from barrels per stream day. Totals may not add up due to independent rounding.

Sources: Direct communications to the Secretariat; OGJ; AOG; national sources.

Output of refined products by type in OPEC Members, 1997–2001 (1,000 b/d)

	1997	1998	1999	2000	2001	% change 01/00
Algeria	435.6	410.2	430.6	441.4	456.0	3.3
Gasoline	47.1	48.2	54.3	45.6	44.9	-1.6
Kerosene	26.1	21.1	28.5	34.0	31.6	-7.0
Distillates	135.3	128.5	134.3	130.0	139.0	6.9
Residuals	108.5	98.9	105.7	104.5	107.6	3.0
Others	118.6	113.4	107.8	127.3	133.0	4.5
Indonesia	887.6	928.4	933.7	968.2	1,006.1	3.9
Gasoline	171.5	191.0	193.5	193.5	204.1	5.5
Kerosene	131.0	148.2	158.6	158.6	163.8	3.3
Distillates	250.9	256.3	262.7	262.7	272.0	3.5
Residuals	78.1	77.8	74.4	87.4	91.8	5.1
Others	256.2	255.1	243.6	265.9	274.3	3.2
IR Iran	974.4	1,337.8	1,361.2	1,316.4	1,436.7	9.1
Gasoline	154.2	179.7	189.0	182.6	183.0	0.2
Kerosene	131.6	157.4	162.4	156.9	163.9	4.5
Distillates	296.9	357.8	369.7	357.3	370.0	3.6
Residuals	263.9	402.6	410.4	397.6	415.9	4.6
Others	127.7	240.4	229.7	222.0	303.9	36.9
Iraq	444.5	459.1^r	442.8^r	493.2	531.9	7.9
Gasoline	69.4	71.6 ^r	69.1 ^r	75.8	na	na
Kerosene	32.9	34.0	32.8 ^r	36.5	na	na
Distillates	137.0	141.5	136.4 ^r	151.9	na	na
Residuals	138.7	143.2	138.2 ^r	150.0	na	na
Others	66.6	68.7 ^r	66.3 ^r	78.9	na	na
Kuwait	879.6	876.1	903.3	729.5	665.2	-8.8
Gasoline	42.6	48.3	46.0	43.6	33.0	-24.3
Kerosene	140.8	141.3	156.2	126.1	96.9	-23.2
Distillates	259.7	251.6	266.1	217.6	310.8	42.8
Residuals	210.8	196.1	201.6	152.0	156.4	2.9
Others	225.7	238.7	233.4	190.2	68.0	-64.3
SP Libyan AJ	307.6	317.5	324.9	337.8	341.5	1.1
Gasoline	46.1	47.4	47.7	49.0	na	na
Kerosene	36.9	36.9	36.0	34.8	na	na
Distillates	87.3	87.0	86.0	85.5	na	na
Residuals	88.2	93.2	98.3	101.7	na	na
Others	49.1	53.0	56.9	66.8	na	na
Nigeria	192.5	113.6	131.1	88.6	227.8	157.0
Gasoline	61.0	36.0	39.5	21.4	60.1	181.3
Kerosene	24.0	14.2	19.5	14.4	34.0	136.2
Distillates	49.6	29.3	33.8	20.9	50.4	141.0
Residuals	42.2	24.9	28.5	28.5	59.5	109.0
Others	15.7	9.3	9.7	3.5	23.8	581.2
Qatar	54.8	59.5^r	59.2^r	57.8	42.1	-27.0
Gasoline	12.3	14.1 ^r	13.7 ^r	13.5	na	na
Kerosene	9.4	9.9 ^r	9.3 ^r	9.0	na	na
Distillates	13.2 ^r	13.7 ^r	13.5 ^r	13.3	na	na
Residuals	16.4	17.9 ^r	18.5 ^r	18.1	na	na
Others	3.5 ^r	3.8 ^r	3.1 ^r	3.9	na	na

Output of refined products by type in OPEC Members, 1997–2001 (1,000 b/d)

	1997	1998	1999	2000	2001	% change 01/00
Saudi Arabia	1,584.4	1,600.3	1,593.2	1,649.7	1,636.9	-0.8
Gasoline	247.1	267.5	272.7	275.0	270.9	-1.5
Kerosene	166.7	145.9	166.1	183.3	164.5	-10.3
Distillates	525.9	529.7	517.4	543.0	530.9	-2.2
Residuals	453.1	483.5	449.4	449.2	464.5	3.4
Others	191.6	173.8	187.6	199.3	206.1	3.4
United Arab Emirates	298.4	222.4	232.9	315.3	309.5	-1.8
Gasoline	35.2	35.2	34.0	29.6	na	na
Kerosene	67.1	57.4	58.1	84.7	na	na
Distillates	75.6	66.8	72.8	79.7	na	na
Residuals	48.9	33.7	36.7	36.9	na	na
Others	71.6	29.3	31.1	84.4	na	na
Venezuela	1,327.3	1,332.7	1,209.3	1,240.8	1,264.5	1.9
Gasoline	186.5	342.8	197.7	201.3	na	na
Kerosene	90.9	92.6	96.0	93.8	na	na
Distillates	392.9	402.0	354.6	339.9	na	na
Residuals	226.0	240.0	211.1	260.3	na	na
Others	431.0	255.3	349.8	345.6	na	na
OPEC	7,386.7	7,657.5	7,622.2	7,638.7	7,918.2	3.7
Gasoline	1,073.0	1,281.8	1,167.5	1,130.8	na	na
Kerosene	857.4	858.9	925.2	932.3	na	na
Distillates	2,224.3	2,264.1	2,236.5	2,201.8	na	na
Residuals	1,674.8	1,811.9	1,772.8	1,786.0	na	na
Others	1,557.3	1,440.8	1,519.1	1,587.8	na	na

Notes: Totals may not add up due to independent rounding. Data excludes production of gas plants.

Sources: Direct communications to the Secretariat; national sources; UN, Energy Statistics Yearbook; OAPC Report; OECD, Energy Statistics and Balances of non-OECD Countries.

World output of refined products by country, 1997–2001 (1,000 b/d)

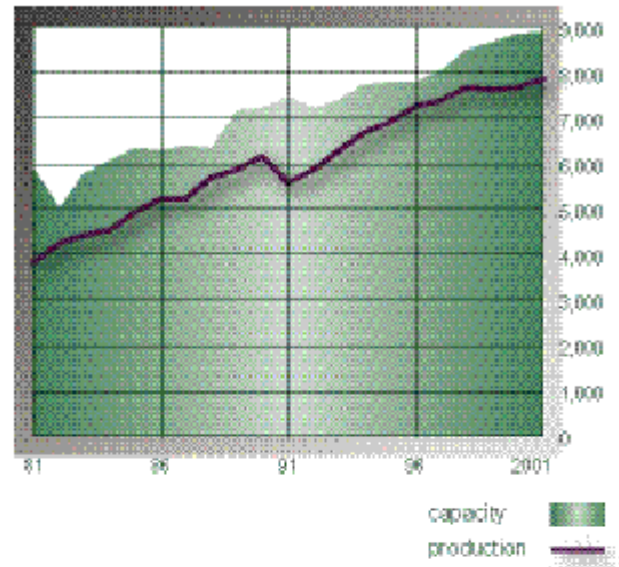
	1997	1998	1999	2000	2001	% change 01/00
North America	18,675.2	18,918.4	18,934.9	19,305.1	19,200.2	-0.5
Canada	1,895.8	1,912.5	1,934.7	1,980.9	2,028.6	2.4
United States	16,779.4	17,005.9	17,000.1	17,324.2	17,171.6	-0.9
Latin America	6,554.7	6,750.3	6,592.6	6,653.1	6,801.6	2.2
Argentina	525.8	543.5	552.8	535.1	537.3	0.4
Brazil	1,511.7	1,620.8	1,675.7	1,719.3	1,757.1	2.2
Mexico	1,368.0	1,370.6	1,312.7	1,294.7	1,325.9	2.4
Venezuela	1,327.3	1,332.7	1,209.3	1,240.8	1,264.5	1.9
Virgin Islands	411.0	421.0	418.0	422.0	431.0	2.1
Others	1,410.9	1,461.7	1,424.0	1,441.1	1,485.8	3.1
Eastern Europe	5,839.8	5,768.0	5,697.9	5,828.0	6,165.4	5.8
Bulgaria	121.8	115.9	118.7	129.1	126.8	-1.8
Romania	259.6	275.0	219.7	216.5	219.1	1.2
Former USSR	4,695.3	4,586.3	4,571.9	4,676.7	5,018.1	7.3
Others	763.1	790.8	787.5	805.6	801.3	-0.5
Western Europe	14,885.9	15,262.7	14,572.8	14,833.1	14,774.8	-0.4
Belgium	756.7	784.6	741.2	787.8	823.6	4.5
France	1,889.0	1,953.6	1,754.0	1,802.2	1,841.0	2.2
Germany	2,356.4	2,484.6	2,447.3	2,466.9	2,427.7	-1.6
Italy	1,946.8	2,026.8	1,936.3	1,995.0	2,040.1	2.3
Netherlands	1,729.9	1,733.1	1,661.3	1,750.0	1,782.2	1.8
Norway	324.9	312.4	326.2	325.9	298.9	-8.3
Portugal	276.2	296.3	284.1	259.0	277.8	7.2
Spain	1,178.7	1,266.2	1,250.3	1,234.9	1,195.3	-3.2
United Kingdom	2,052.6	1,980.1	1,862.2	1,867.8	1,736.8	-7.0
Others	2,374.6	2,425.0	2,309.9	2,343.6	2,351.4	0.3
Middle East	5,190.6	5,534.4	5,554.4	5,534.2	5,521.1	-0.2
IR Iran	974.4	1,337.8	1,361.2	1,316.4	1,364.6	3.7
Iraq	444.5	459.1	442.8	493.2	531.9	7.9
Kuwait	879.6	876.1	903.3	729.5	659.7	-9.6
Qatar	54.8	59.5	59.2	57.8	42.1	-27.0
Saudi Arabia	1,584.4	1,600.3	1,593.2	1,649.7	1,636.9	-0.8
United Arab Emirates	298.4	222.4	232.9	315.3	309.5	-1.8
Others	954.6	979.4	961.8	972.3	976.2	0.4
Africa	2,365.1	2,298.6	2,376.3	2,404.8	2,584.4	7.5
Algeria	435.6	410.2	430.6	441.4	456.0	3.3
Egypt	560.0	577.5	564.0	575.8	587.3	2.0
Gabon	14.1	15.6	16.7	16.2	16.5	1.4
SP Libyan AJ	307.6	317.5	324.9	337.8	341.5	1.1
Nigeria	192.5	113.6	131.1	88.6	227.8	157.0
Others	855.3	864.0	909.1	944.9	955.3	1.1
Asia and Pacific	16,351.5	16,306.8	17,256.7	17,843.9	17,941.8	0.5
Australia	794.8	776.8	807.5	786.7	788.8	0.3
China	2,838.2	2,962.4	3,522.9	3,871.3	3,913.4	1.1
India	1,330.1	1,375.8	1,606.1	1,680.0	1,737.1	3.4
Indonesia	887.6	928.4	933.7	968.2	1,006.1	3.9
Japan	4,513.8	4,446.3	4,377.1	4,357.6	4,330.1	-0.6
Philippines	356.1	338.8	331.7	346.0	355.3	2.7
Singapore	996.4	1,001.8	894.3	911.3	925.9	1.6
South Korea	2,494.2	2,355.2	2,481.1	2,526.7	2,465.1	-2.4
New Zealand	105.2	109.7	104.1	108.3	106.9	-1.3
Taiwan	695.4	709.1	867.2	886.3	903.1	1.9
Others	1,339.7	1,302.6	1,331.0	1,401.6	1,410.0	0.6
Total world	69,862.9	70,839.1	70,985.5	72,402.2	72,989.1	0.8
OPEC	7,386.7	7,657.5	7,622.2	7,638.7	7,840.7	2.6
OPEC percentage	10.6	10.8	10.7	10.6	10.7	

Notes: Totals may not add up due to independent rounding. Revisions have been made throughout the time series. Data excludes production of gas plants.

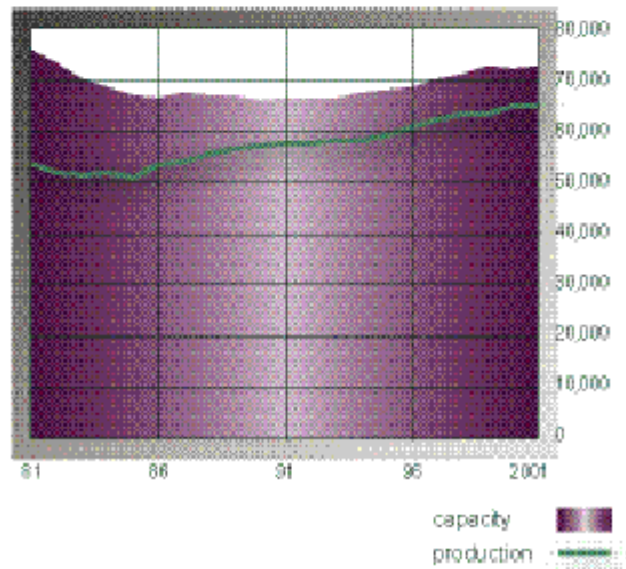
Sources: Direct communications to the Secretariat; UN, Energy Statistics Yearbook; OECD, Monthly Oil and Gas Statistics; BP Statistical Review; national sources; OAPC Report; OECD, Energy Statistics and Balances of non-OECD Countries.

Output of refined products vs refinery capacity, 1981–2001
(1,000 b/d)

Graph 27:
OPEC



Graph 28:
non-OPEC



Consumption of refined products by type in OPEC Members, 1997–2001 (1,000 b/d)

	1997	1998	1999	2000	2001	% change 01/00
Algeria	163.6	171.2	175.8	185.6	187.7	1.1
Gasoline	46.0	45.6	43.1	41.2	40.3	-2.3
Kerosene	7.4	7.2	7.0	8.2	9.6	16.9
Distillates	61.9	67.4	70.2	79.2	84.3	6.5
Residuals	0.3	0.3	0.3	0.3	0.2	-13.2
Others	48.0	50.7	55.1	56.8	53.3	-6.1
Indonesia	928.6	880.3	925.7	988.5	1,017.2	2.9
Gasoline	181.3	169.4	198.8	213.6	220.8	3.4
Kerosene	217.4	204.1	217.1	226.8	223.2	-1.6
Distillates	395.1	380.1	374.0	398.5	414.7	4.1
Residuals	91.3	86.3	93.7	103.3	109.4	5.9
Others	43.5	40.4	42.1	46.3	49.1	6.0
IR Iran	981.6	1,318.0	1,192.2	1,189.0	1,222.0	2.8
Gasoline	186.0	260.3	213.1	202.0	236.8	17.2
Kerosene	154.7	210.6	175.2	165.0	166.7	1.0
Distillates	342.4	430.9	360.7	348.0	376.1	8.1
Residuals	194.5	253.5	254.8	230.0	212.4	-7.6
Others	104.0	162.7	188.4	244.0	230.0	-5.8
Iraq	601.4	620.7	599.6	655.3	694.0	5.9
Gasoline	122.2	126.5	122.5	134.0	141.8	5.8
Kerosene	66.1	68.0	65.7	71.9	76.3	6.2
Distillates	180.9	185.1	178.3	194.3	206.0	6.0
Residuals	123.2	128.3	124.1	135.7	143.4	5.7
Others	109.0	112.7	109.1	119.5	126.6	6.0
Kuwait	131.8	158.8	163.8	167.6	168.1	0.3
Gasoline	39.6	41.3	39.4	36.3	44.5	22.7
Kerosene	9.4	11.0	8.8	8.0	9.2	15.1
Distillates	10.1	10.1	11.4	11.1	13.4	20.6
Residuals	69.1	92.8	100.5	108.9	97.8	-10.2
Others	3.7	3.5	3.6	3.3	3.2	-4.9
SP Libyan AJ	174.1	170.8	167.8	155.5	159.7	2.8
Gasoline	39.1	43.9	47.2	42.2	40.3	-4.6
Kerosene	16.2	10.9	7.4	6.5	7.2	10.4
Distillates	53.1	59.5	64.1	59.0	60.7	2.9
Residuals	47.9	43.7	39.9	39.6	43.9	10.7
Others	17.8	12.8	9.2	8.1	7.7	-5.5
Nigeria	206.0	198.6	184.3	206.7	242.4	17.3
Gasoline	93.2	90.0	84.2	111.7	137.8	23.4
Kerosene	40.8	39.6	37.2	25.6	34.3	33.9
Distillates	47.3	45.4	42.4	46.6	54.6	17.1
Residuals	22.6	21.5	18.7	20.8	14.4	-30.8
Others	2.0	2.0	1.8	2.0	1.4	-31.4
Qatar	21.6	23.2	22.2	23.6	25.4	7.6
Gasoline	10.7	11.5	11.0	11.7	12.5	7.3
Kerosene	3.5	3.8	3.7	3.9	4.2	8.3
Distillates	6.4	6.8	6.5	6.9	7.5	7.8
Residuals	na	na	na	na	na	na
Others	1.0	1.1	1.0	1.1	1.2	7.0

Consumption of refined products by type in OPEC Members, 1997–2001 (1,000 b/d)

	1997	1998	1999	2000	2001	% change 01/00
Saudi Arabia	814.5	865.8	908.4	937.0	982.0	4.8
Gasoline	258.4	271.9	269.8	273.3	282.3	3.3
Kerosene	57.6	56.8	52.9	55.3	53.8	-2.8
Distillates	336.6	342.4	357.1	372.9	400.4	7.4
Residuals	101.4	132.1	166.2	170.4	177.7	4.3
Others	60.6	62.6	62.3	65.0	67.7	4.2
United Arab Emirates	115.0	130.0	127.9	135.1	137.8	2.0
Gasoline	36.0	39.0	34.3	32.6	32.5	-0.5
Kerosene	2.3	2.6	2.6	2.7	2.7	-0.9
Distillates	38.0	52.0	51.4	58.1	59.5	2.3
Residuals	27.7	27.5	31.4	33.2	35.4	6.4
Others	11.0	9.0	8.4	8.4	7.8	-6.8
Venezuela	411.1	441.7	383.2	410.0	418.3	2.0
Gasoline	187.7	194.6	199.5	208.2	207.4	-0.4
Kerosene	11.2	7.1	6.7	6.2	6.6	6.4
Distillates	76.0	80.2	73.6	81.5	78.0	-4.3
Residuals	13.9	21.5	21.9	25.7	26.8	4.1
Others	122.4	138.3	81.6	88.3	99.6	12.8
OPEC	4,567.7	4,979.0	4,850.9	5,053.8	5,254.7	4.0
Gasoline	1,200.3	1,294.0	1,262.9	1,306.8	1,397.0	6.9
Kerosene	586.7	621.7	584.3	580.1	593.7	2.3
Distillates	1,547.6	1,659.9	1,589.6	1,656.0	1,755.1	6.0
Residuals	691.9	807.6	851.4	868.0	861.4	-0.8
Others	541.3	595.8	562.6	642.9	647.5	0.7

World consumption of refined products by country, 1997–2001 (1,000 b/d)

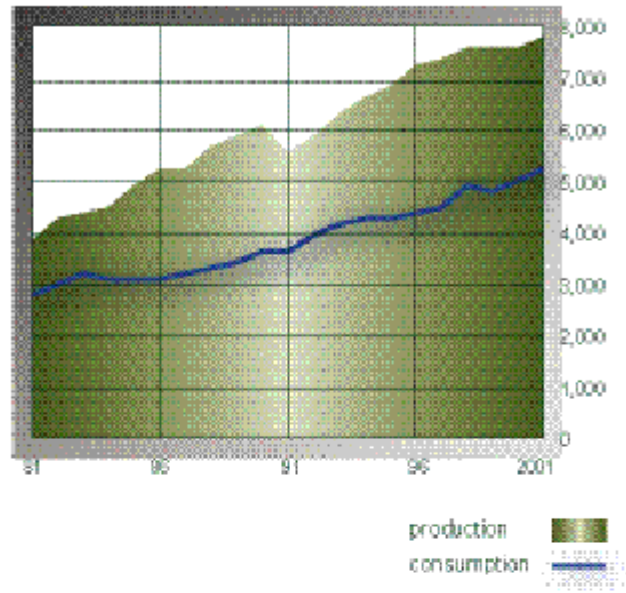
	1997	1998	1999	2000	2001	% change 01/00
North America	19,373.5	19,701.8	20,378.1	20,463.1	20,369.9	-0.5
Canada	1,841.6	1,837.8	1,885.9	1,916.1	1,819.6	-5.0
United States	17,529.4	17,861.5	18,489.6	18,544.5	18,547.8	-
Others	2.5	2.5	2.5	2.5	2.5	-
Latin America	6,197.9	6,405.0	6,239.6	6,370.4	6,240.7	-2.0
Argentina	478.5	503.7	486.3	459.5	409.6	-10.9
Brazil	1,752.1	1,837.3	1,818.7	1,935.8	1,887.1	-2.5
Colombia	283.5	275.9	245.8	266.3	247.7	-7.0
Ecuador	129.5	132.1	117.6	118.3	117.6	-0.6
Mexico	1,946.5	1,980.9	1,923.1	1,910.6	1,891.0	-1.0
Venezuela	411.1	441.7	383.2	410.0	418.3	2.0
Others	1,196.7	1,233.4	1,264.8	1,269.9	1,269.4	-
Eastern Europe	5,543.6	5,381.0	5,144.4	4,834.3	5,009.0	3.6
Former Czechoslovakia	233.1	251.9	243.5	237.5	244.9	3.1
Romania	270.0	242.0	198.0	198.0	197.0	-0.5
Former USSR	4,407.4	4,246.5	4,027.1	3,759.4	3,929.9	4.5
Others	633.2	640.6	675.8	639.4	637.2	-0.3
Western Europe	13,450.1	13,735.4	13,802.8	13,691.2	13,911.3	1.6
France	1,899.7	1,978.5	1,999.8	1,976.6	1,990.2	0.7
Germany	2,827.8	2,833.7	2,748.2	2,678.4	2,723.1	1.7
Italy	1,783.9	1,805.2	1,798.6	1,756.3	1,773.1	1.0
Netherlands	453.0	447.7	553.5	562.4	580.3	3.2
Spain	1,129.9	1,219.4	1,260.8	1,293.9	1,335.9	3.2
United Kingdom	1,710.9	1,701.7	1,695.6	1,663.2	1,717.5	3.3
Others	3,644.8	3,749.3	3,746.3	3,760.3	3,791.2	0.8
Middle East	3,521.0	4,004.8	3,947.4	4,046.9	4,187.3	3.5
IR Iran	981.6	1,318.0	1,192.2	1,189.0	1,222.0	2.8
Iraq	601.4	620.7	599.6	655.3	694.0	5.9
Kuwait	131.8	158.8	163.8	167.6	168.1	0.3
Qatar	21.6	23.2	22.2	23.6	25.4	7.6
Saudi Arabia	814.5	865.8	908.4	937.0	982.0	4.8
Syrian Arab Republic	244.5	261.3	271.8	279.8	288.8	3.2
United Arab Emirates	115.0	130.0	127.9	135.1	137.8	2.0
Others	610.5	627.0	661.6	659.5	669.3	1.5
Africa	2,034.4	2,092.6	2,106.7	2,059.8	2,111.7	2.5
Algeria	163.6	171.2	175.8	185.6	187.7	1.1
Egypt	404.3	462.5	458.4	401.2	411.5	2.6
SP Libyan AJ	174.1	170.8	167.8	155.5	159.7	2.8
Nigeria	206.0	198.6	184.3	206.7	242.4	17.3
Tunisia	77.8	80.0	83.1	86.1	88.3	2.6
Others	1,008.7	1,009.5	1,037.3	1,024.7	1,022.1	-0.3
Asia and Pacific	18,475.3	17,881.1	18,815.5	19,355.2	19,312.7	-0.2
Australia	821.4	840.7	840.6	824.9	839.0	1.7
China	3,946.4	3,797.3	4,154.8	4,660.0	4,665.0	0.1
India	1,703.4	1,773.1	1,927.9	1,990.9	1,982.3	-0.4
Indonesia	928.6	880.3	925.7	988.5	1,017.2	2.9
Japan	5,352.9	5,222.6	5,313.7	5,224.2	5,170.5	-1.0
New Zealand	124.2	121.2	125.2	125.6	124.8	-0.7
South Korea	2,174.4	1,830.7	1,988.2	2,042.4	2,022.6	-1.0
Thailand	750.0	681.3	707.6	682.1	663.9	-2.7
Others	2,674.0	2,733.9	2,831.8	2,816.6	2,827.5	0.4
Total world	68,595.9	69,201.7	70,434.5	70,820.8	71,142.7	0.5
OPEC	4,549.4	4,979.0	4,850.9	5,053.8	5,254.7	4.0
OPEC percentage	6.6	7.2	6.9	7.1	7.4	

Note: Revisions have been made throughout the time series.

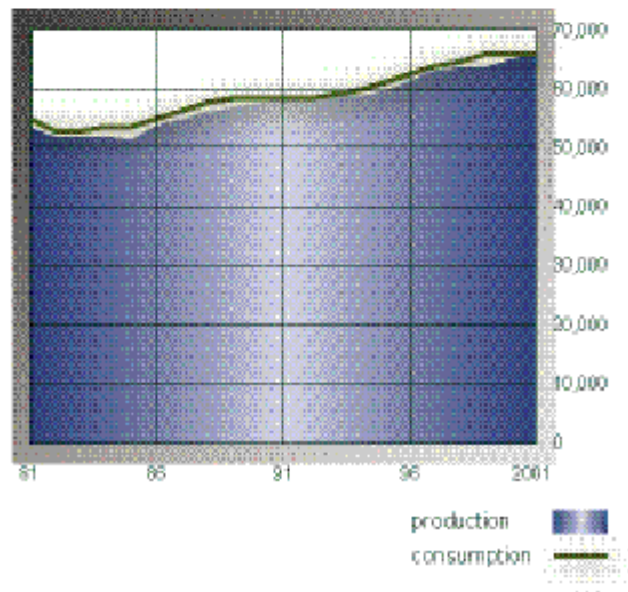
Sources: Direct communications to the Secretariat; UN, Energy Statistics Yearbook; OECD, World Energy Statistics and Balances; BP Statistical Review; national sources; OAPC Report; OLADE.

Production and consumption of refined products, 1981–2001
(1,000 b/d)

Graph 29:
OPEC



Graph 30:
non-OPEC



OPEC Members' crude oil exports by destination, 1997–2001 (1,000 b/d)

Algeria	1997	1998	1999	2000	2001
North America	59.7	204.8	79.0	59.9	85.2
Canada	59.7	66.7	64.3	59.9	77.9
United States	–	138.0	14.7	–	7.3
Latin America	4.1	3.4	14.6	15.0	11.3
Eastern Europe	4.6	11.2	3.8	8.9	–
Western Europe	301.3	326.8	315.4	353.7	318.1
Belgium	–	–	–	3.6	–
France	101.6	103.8	82.8	71.2	121.8
Germany	–	36.0	31.5	74.1	38.0
Italy	84.7	102.0	117.1	130.7	98.7
Netherlands	2.9	8.7	8.5	2.0	1.3
Spain	23.8	31.1	36.6	30.1	26.0
United Kingdom	8.0	14.0	24.3	11.7	27.3
Middle East	–	–	–	–	–
Africa	3.4	3.3	1.7	–	–
Asia and Pacific	–	–	–	–	26.8
Unspecified	–	–	–	23.5	–
Total world	373.1	549.4	414.6	461.1	441.5

Sources: Direct communications to the Secretariat; UN, Energy Statistics Yearbook; OECD, Monthly Oil Data Statistics; secondary sources; Secretariat's estimates.

Indonesia	1997	1998	1999	2000	2001*
North America	58.3	68.1	73.5	38.8	40.0
United States	58.3	68.1	73.5	38.8	40.0
Latin America	–	–	–	–	–
Eastern Europe	–	–	–	–	–
Western Europe	–	–	–	–	–
Italy	–	–	–	–	–
Middle East	–	0.6	0.7	1.5	1.3
Africa	–	–	–	–	–
Asia and Pacific	651.4	609.4	673.4	552.1	532.6
Australia	79.4	141.6	118.9	56.3	88.4
China	138.3	77.6	86.5	92.6	87.6
Japan	289.1	219.8	259.5	205.2	179.6
Philippines	5.1	2.8	1.2	–	–
South Korea	74.8	87.9	125.7	102.5	128.0
Singapore	24.4	42.4	33.2	42.9	3.6
Taiwan	22.9	27.8	28.6	25.1	27.3
Unspecified	–	–	34.3	30.1	25.4
Total world	709.7	678.0	781.9	622.5	599.2

Sources: Direct communications to the Secretariat; UN, Energy Statistics Yearbook; OECD, Monthly Oil Data Statistics; secondary sources; Secretariat's estimates.

OPEC Members' crude oil exports by destination, 1997–2001 (1,000 b/d)

IR Iran	1997	1998	1999	2000*	2001*
North America	32.5	–	–	–	–
Canada	32.5	–	–	–	–
United States	–	–	–	–	–
Latin America	35.0	50.0	50.0	60.0	60.0
Eastern Europe	145.0	120.0	100.0	110.0	110.0
Western Europe	1,065.0	1,033.9	949.2	920.8	843.2
France	128.6	159.3	137.1	102.8	72.9
Germany	23.5	19.9	16.2	18.3	5.1
Italy	259.9	292.9	286.4	209.7	206.5
Netherlands	89.8	75.5	71.6	64.9	23.4
United Kingdom	–	9.1	–	–	–
Middle East	25.0	25.0	25.0	30.0	30.0
Africa	200.0	190.0	150.0	200.0	200.0
Asia and Pacific	1,084.5	1,093.1	1,016.8	1,171.4	1,202.8
Australia	–	–	–	–	–
Japan	465.2	460.3	496.6	490.5	536.6
Unspecified	–	–	–	–	–
Total world	2,587.0	2,512.0	2,291.0	2,492.2	2,446.0

Note: Corresponds to a fiscal year ending March 20.

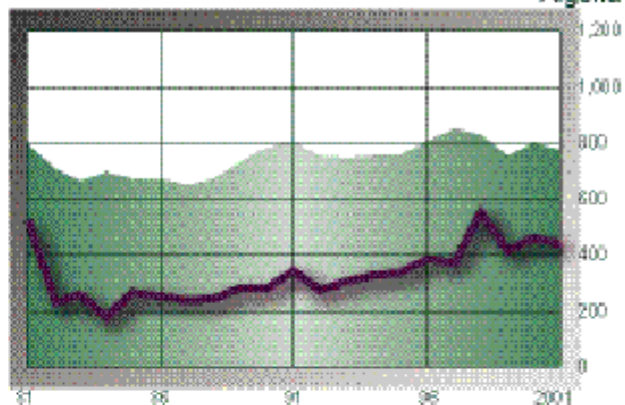
Sources: Direct communications to the Secretariat; UN, Energy Statistics Yearbook; OECD, Monthly Oil Data Statistics; secondary sources; Secretariat's estimates.

OPEC Members' crude oil production vs exports, 1981–2001 (1,000 b/d)

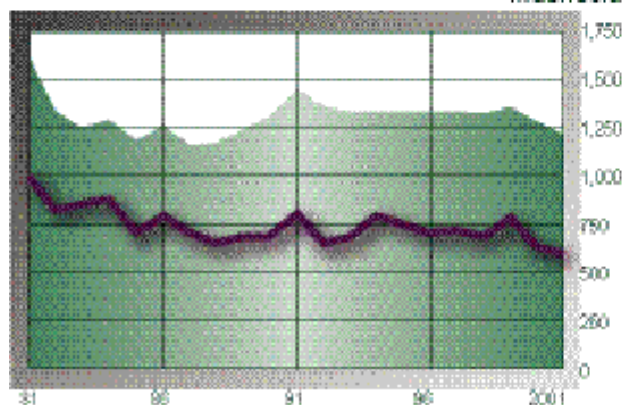
(1,000 b/d)

production
exports

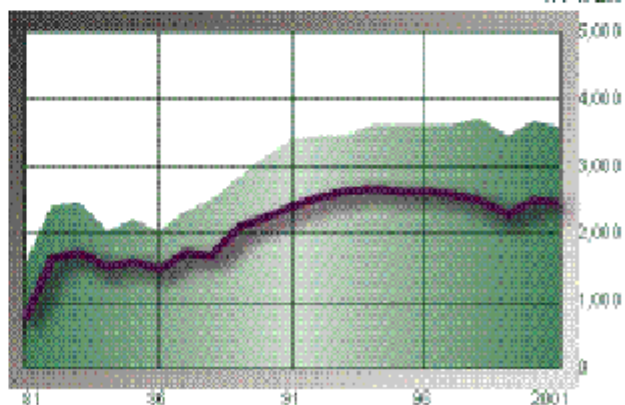
Graph 31: Algeria



Graph 32: Indonesia



Graph 33: IR Iran



OPEC Members' crude oil exports by destination, 1997–2001 (1,000 b/d)

Iraq	1997	1998*	1999*	2000*	2001*
North America	105.1	358.3	780.9	700.4	922.5
United States	91.7	345.2	754.4	658.9	846.1
Latin America	–	–	–	–	–
Eastern Europe	81.3	110.0	70.0	80.0	35.0
Western Europe	341.0	739.0	831.7	781.1	398.6
France	77.2	168.4	146.2	146.3	95.8
Germany	0.7	19.3	16.7	4.4	0.4
Italy	34.9	113.6	137.0	177.7	79.3
Netherlands	22.5	108.2	162.4	63.5	95.3
Spain	73.9	130.4	123.5	122.2	51.9
United Kingdom	–	–	–	–	–
Middle East	70.0	75.0	75.0	75.0	85.0
Africa	27.5	–	–	–	–
Asia and Pacific	121.7	135.3	232.2	227.4	47.3
Japan	15.1	17.2	98.3	72.0	5.4
Unspecified	–	–	141.0	175.9	221.8
Total world	746.6	1,417.6	2,130.9	2,039.8	1,710.2

Sources: Direct communications to the Secretariat; UN, Energy Statistics Yearbook; OECD, Monthly Oil Data Statistics; secondary sources; Secretariat's estimates.

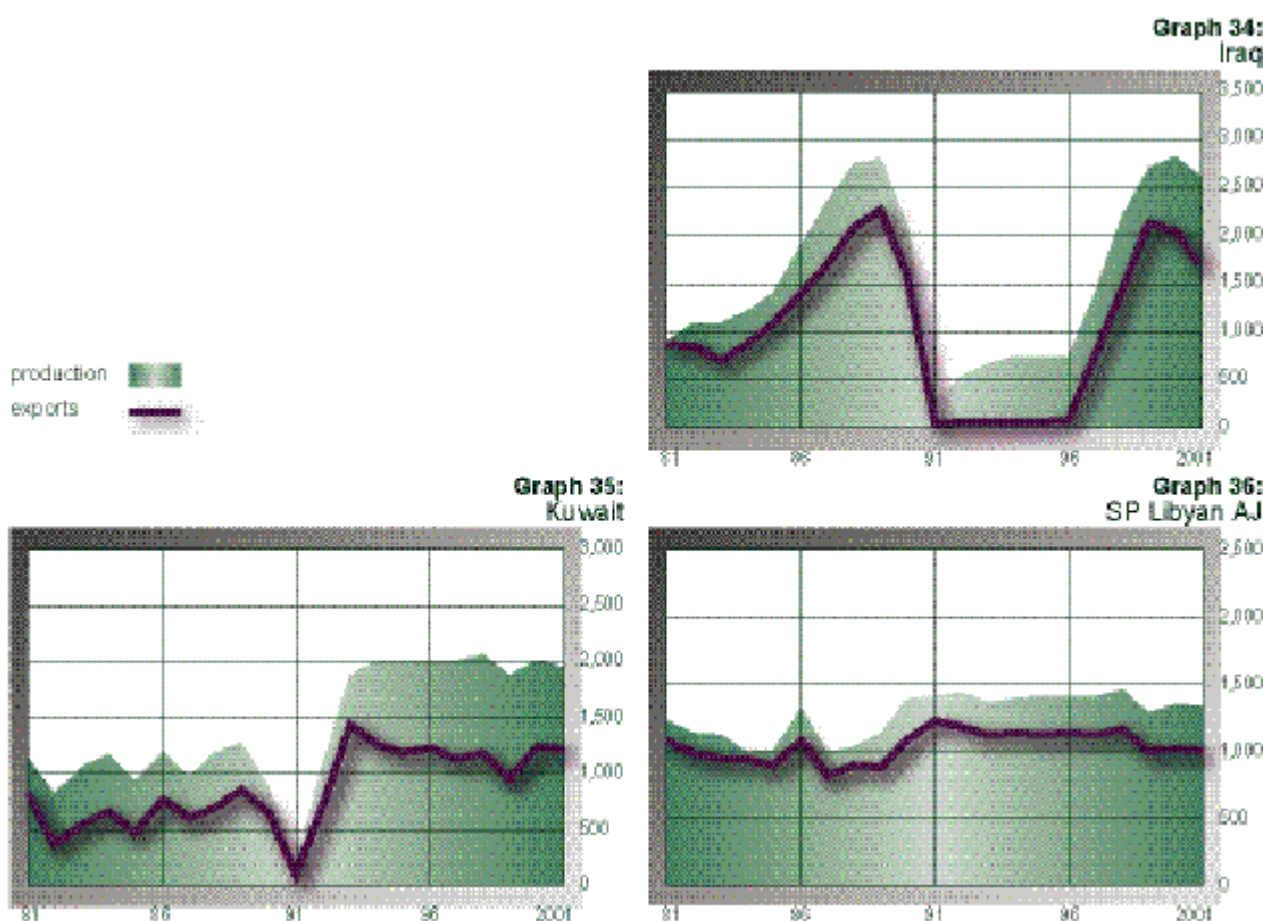
Kuwait	1997	1998	1999	2000*	2001*
North America	223.4	219.5	158.0	270.5	238.5
United States	223.4	219.3	158.0	270.5	238.5
Latin America	–	–	–	–	–
Eastern Europe	–	–	–	–	–
Western Europe	155.0	186.0	116.2	203.4	159.3
France	17.5	16.9	15.0	27.1	20.3
Germany	12.3	16.3	14.8	13.0	2.2
Italy	0.1	–	2.7	31.8	13.2
Netherlands	90.6	95.2	82.4	131.6	121.8
Spain	–	0.3	–	–	–
United Kingdom	32.0	18.6	–	–	–
Middle East	–	–	–	–	–
Africa	57.6	53.8	24.8	25.0	25.0
Asia and Pacific	692.8	724.1	647.2	699.2	739.4
Australia	4.2	4.3	1.1	0.9	–
Japan	401.5	391.9	346.4	395.7	411.0
Unspecified	5.4	6.8	1.9	32.6	52.0
Total world	1,134.2	1,190.2	948.2	1,230.7	1,214.1

Sources: Direct communications to the Secretariat; UN, Energy Statistics Yearbook; OECD, Monthly Oil Data Statistics; secondary sources; Secretariat's estimates.

OPEC Members' crude oil exports by destination, 1997–2001 (1,000 b/d)

SP Libyan AJ	1997	1998	1999	2000	2001*
North America	–	–	–	–	–
Latin America	–	–	–	–	–
Eastern Europe	3.0	5.0	7.5	3.5	13.7
Western Europe	1,084.7	1,131.0	974.2	986.5	963.9
Austria	23.9	30.6	22.9	12.9	25.5
Belgium	0.1	1.6	–	3.2	0.1
France	49.9	49.5	46.0	48.5	60.8
Germany	234.6	264.2	250.0	233.7	202.5
Italy	538.4	539.7	438.9	466.9	409.6
Netherlands	–	–	–	–	–
Spain	102.1	130.8	128.1	140.7	145.5
Switzerland	26.4	19.5	37.6	36.3	47.7
United Kingdom	–	–	18.5	7.1	–
Middle East	–	–	–	–	–
Africa	20.0	20.0	10.0	15.0	10.0
Asia and Pacific	8.0	5.0	–	–	–
Unspecified	–	–	–	–	–
Total world	1,115.7	1,161.0	991.7	1,005.0	987.6

Sources: Direct communications to the Secretariat; UN, Energy Statistics Yearbook; OECD, Monthly Oil Data Statistics; secondary sources; Secretariat's estimates.



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OPEC Members' crude oil exports by destination, 1997–2001 (1,000 b/d)

Nigeria	1997	1998	1999	2000	2001
North America	838.7	827.2	676.0	931.2	868.7
United States	817.3	805.5	654.4	904.3	855.8
Latin America	80.6	92.1	110.1	105.7	151.9
Eastern Europe	0.1	1.4	–	2.6	–
Western Europe	586.6	478.1	426.3	437.9	534.2
France	86.8	120.4	94.7	91.5	103.3
Germany	94.1	40.2	22.2	37.8	60.9
Italy	46.1	34.5	26.2	23.7	35.4
Netherlands	36.5	7.1	3.0	7.4	28.0
Sweden	5.1	7.1	–	5.2	5.1
United Kingdom	4.2	10.7	9.2	–	2.3
Middle East	–	–	–	–	–
Africa	109.5	118.4	130.4	129.8	149.0
Asia and Pacific	240.0	315.6	362.4	379.2	385.7
Japan	21.6	12.3	23.5	15.1	11.8
Unspecified	–	–	–	–	–
Total world	1,855.5	1,832.8	1,705.1	1,986.4	2,089.4

Sources: Direct communications to the Secretariat; UN, Energy Statistics Yearbook; OECD, Monthly Oil Data Statistics; secondary sources; Secretariat's estimates.

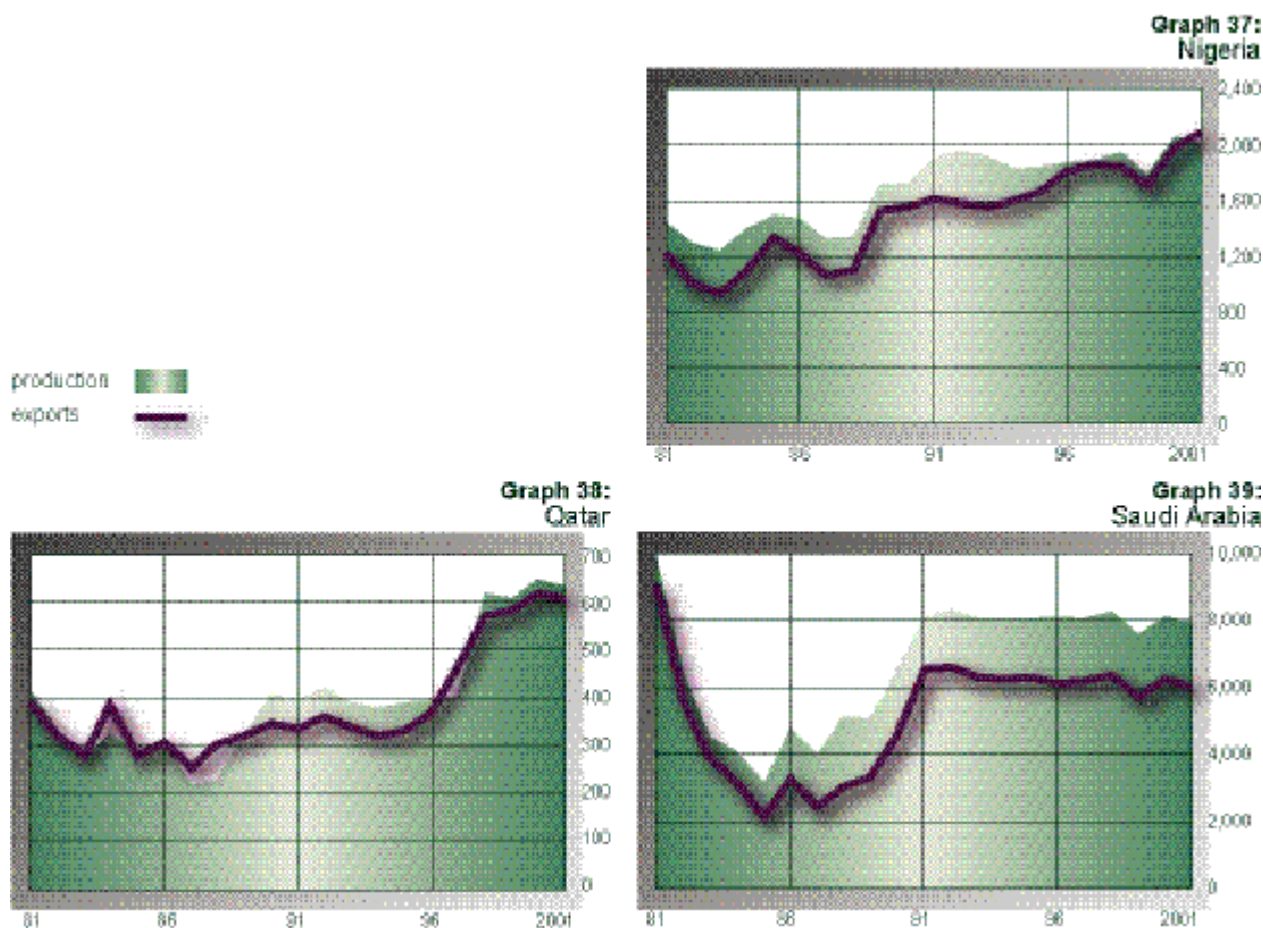
Qatar	1997	1998	1999	2000*	2001*
North America	–	1.4	0.9	–	0.2
United States	–	1.4	0.9	–	0.2
Latin America	5.0	–	–	–	–
Eastern Europe	–	–	–	–	–
Western Europe	–	–	–	2.7	–
France	–	–	–	2.0	–
Germany	–	–	–	–	–
Italy	–	–	–	–	–
Netherlands	–	–	–	–	–
Middle East	–	–	–	–	–
Africa	–	–	–	–	–
Asia and Pacific	460.0	561.0	546.4	563.1	561.5
Japan	326.8	349.2	391.0	390.3	427.2
Thailand	–	–	–	–	–
Unspecified	–	10.0	33.3	51.8	43.8
Total world	465.0	572.4	580.5	617.6	605.5

Sources: Direct communications to the Secretariat; UN, Energy Statistics Yearbook; OECD, Monthly Oil Data Statistics; secondary sources; Secretariat's estimates.

OPEC Members' crude oil exports by destination, 1997–2001 (1,000 b/d)

Saudi Arabia	1997	1998	1999	2000	2001
North America	1,339.0	1,491.1	1,463.6	1,581.3	1,534.4
United States	1,305.0	1,412.7	1,405.0	1,524.3	1,482.4
Latin America	90.9	86.1	73.8	61.6	100.7
Eastern Europe	–	–	–	–	–
Western Europe	1,619.5	1,769.1	1,244.7	1,325.5	1,112.0
France	388.5	363.2	302.6	315.2	238.5
Germany	116.9	104.4	88.8	92.3	81.1
Italy	285.1	272.2	179.0	169.7	182.0
Netherlands	293.9	290.7	224.5	244.8	212.7
Spain	184.6	190.8	127.9	133.8	127.0
United Kingdom	61.2	65.7	14.5	41.5	30.9
Middle East	212.8	209.6	189.0	165.6	157.4
Africa	105.7	135.9	201.8	217.7	177.0
Asia and Pacific	2,816.6	2,698.6	2,546.8	2,901.5	2,954.4
Japan	1,010.5	907.5	792.5	908.1	942.9
Unspecified	–	–	–	–	–
Total world	6,184.5	6,390.4	5,719.7	6,253.1	6,035.9

Sources: Direct communications to the Secretariat; UN, Energy Statistics Yearbook; OECD, Monthly Oil Data Statistics; secondary sources; Secretariat's estimates.

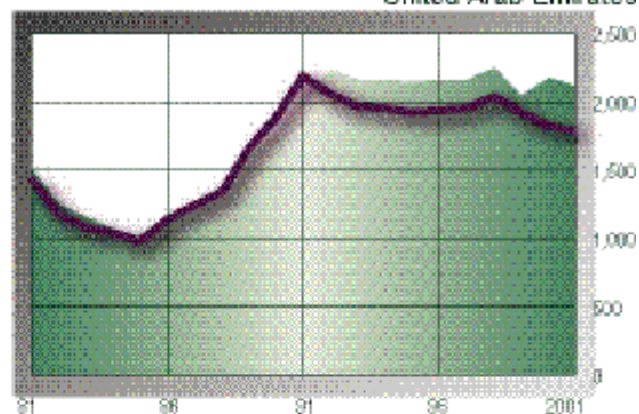


OPEC Members' crude oil exports by destination, 1997–2001 (1,000 b/d)

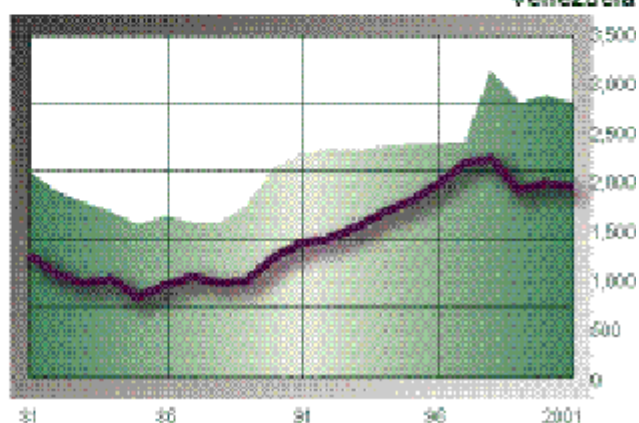
United Arab Emirates	1997	1998	1999	2000	2001*
North America	–	2.5	–	1.3	19.6
United States	–	2.5	–	1.3	19.6
Latin America	–	7.5	–	–	–
Eastern Europe	–	–	–	–	–
Western Europe	2.0	13.0	1.0	1.3	6.1
France	–	11.2	–	0.1	5.1
Germany	1.0	–	–	–	–
Italy	–	–	–	–	–
Netherlands	1.0	–	–	1.2	–
United Kingdom	–	1.3	–	–	–
Middle East	–	–	4.0	–	–
Africa	40.0	57.0	39.0	34.3	37.0
Asia and Pacific	1,907.0	1,959.0	1,875.0	1,778.0	1,724.0
Japan	1,213.4	1,205.0	1,085.0	1,065.8	1,066.8
Unspecified	–	–	–	–	–
Total world	1,949.0	2,039.0	1,919.0	1,814.9	1,786.7

Sources: Direct communications to the Secretariat; UN, Energy Statistics Yearbook; OECD, Monthly Oil Data Statistics; secondary sources; Secretariat's estimates.

Graph 40:
United Arab Emirates



Graph 41:
Venezuela



production 
exports 

OPEC Members' crude oil exports by destination, 1997–2001 (1,000 b/d)

Venezuela	1997	1998	1999	2000	2001*
North America	1,557.3	1,558.2	1,223.2	1,214.8	1,236.7
Canada	92.8	102.9	108.6	96.9	85.7
United States	1,464.5	1,455.3	1,114.6	1,117.8	1,151.0
Latin America	497.5	532.4	577.6	671.2	611.2
Brazil	na	na	na	na	na
Chile	na	na	na	na	na
Jamaica	na	na	na	na	na
Netherlands Antilles	na	na	na	na	na
Panama	na	na	na	na	na
Puerto Rico	na	na	na	na	na
Eastern Europe	–	–	–	–	–
Western Europe	152.1	150.3	122.1	99.5	112.8
France	–	–	–	–	–
Germany	49.3	49.7	38.4	26.2	28.7
Italy	9.6	2.6	1.3	2.0	2.8
Netherlands	9.1	13.0	12.6	7.4	9.3
Spain	18.9	31.3	24.4	22.5	32.7
United Kingdom	29.2	29.1	20.4	16.0	22.9
Middle East	–	–	–	–	–
Africa	–	–	–	–	–
Asia and Pacific	3.9	3.0	–	–	4.0
Japan	–	–	–	–	–
Unspecified	–	–	–	18.1	–
Total world	2,210.8	2,243.9	1,923.0	2,003.5	1,964.7

Sources: Direct communications to the Secretariat; UN, Energy Statistics Yearbook; OECD, Monthly Oil Data Statistics; secondary sources; Secretariat's estimates.

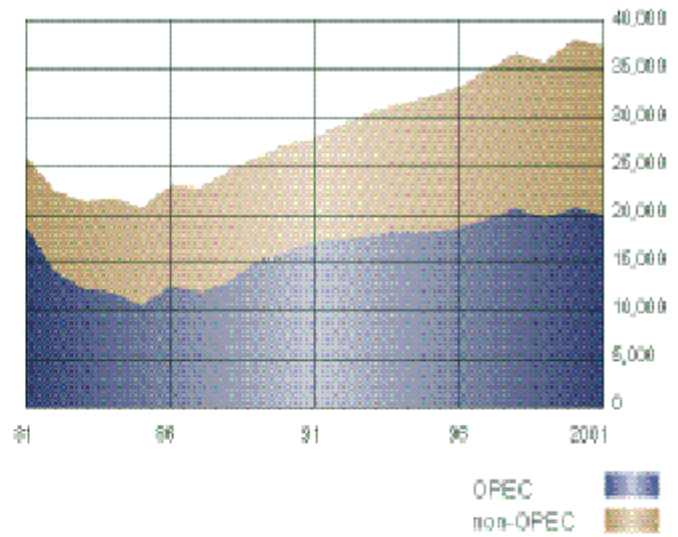
World crude oil exports by country, 1997–2001 (1,000 b/d)

	1997	1998	1999	2000*	2001*	% change 01/00
North America	1,139.6	1,258.7	1,168.0	1,226.7	1,153.9	-5.9
Canada	1,042.9	1,146.4	1,047.4	1,175.2	1,130.2	-3.8
United States	96.7	112.2	120.6	51.5	23.7	-54.0
Latin America	5,061.7	5,188.5	4,715.5	5,039.5	5,060.9	0.4
Colombia	344.7	444.4	515.4	608.0	576.0	-5.3
Ecuador	256.5	242.8	226.4	219.4	243.0	10.8
Mexico	1,793.0	1,807.4	1,671.7	1,848.5	1,882.5	1.8
Trinidad & Tobago	55.6	52.4	58.0	60.2	62.7	4.2
Venezuela	2,210.8	2,243.9	1,923.0	2,003.5	1,964.7	-1.9
Others	401.0	397.6	320.9	300.0	331.9	10.7
Eastern Europe	2,177.9	2,428.2	2,565.0	3,058.3	3,346.1	9.4
Former USSR	2,174.0	2,425.1	2,562.8	3,056.3	3,344.4	9.4
Others	3.9	3.1	2.2	2.0	1.7	-15.0
Western Europe	4,569.2	4,525.7	4,670.5	4,985.2	4,904.9	-1.6
Norway	2,833.4	2,713.9	2,696.0	2,902.8	2,978.8	2.6
United Kingdom	1,502.2	1,606.7	1,707.0	1,735.4	1,645.9	-5.2
Others	233.7	205.1	267.4	347.1	280.3	-19.2
Middle East	14,553.7	15,597.9	15,147.0	16,016.5	15,390.6	-3.9
Iran	2,587.0	2,512.0	2,291.0	2,492.2	2,446.0	-1.9
Iraq	746.6	1,417.6	2,130.9	2,039.8	1,710.2	-16.2
Kuwait	1,134.2	1,190.2	948.2	1,230.7	1,214.1	-1.3
Oman	852.4	842.6	891.5	905.0	917.0	1.3
Qatar	465.0	572.4	580.5	617.6	605.5	-2.0
Saudi Arabia	6,184.5	6,390.4	5,719.7	6,253.1	6,035.9	-3.5
Syrian Arab Republic	350.8	340.3	347.1	338.0	346.0	2.4
United Arab Emirates	1,949.0	2,039.0	1,919.0	1,814.9	1,786.7	-1.6
Others	284.2	293.3	319.2	325.3	329.3	1.2
Africa	5,035.2	5,226.1	4,863.0	5,172.4	5,261.5	1.7
Algeria	373.1	549.4	414.6	461.1	441.5	-4.2
Angola	664.3	698.1	699.3	668.9	660.2	-1.3
Cameroon	107.8	120.8	107.2	107.9	111.7	3.5
Congo	224.1	238.2	256.2	249.8	250.0	0.1
Egypt	122.2	55.5	56.1	51.6	53.6	3.9
Gabon	351.3	336.1	314.4	308.2	315.0	2.2
SP Libyan AJ	1,115.7	1,161.0	991.7	1,005.0	987.6	-1.7
Nigeria	1,855.5	1,832.8	1,705.1	1,986.4	2,089.4	5.2
Others	221.3	234.2	318.3	333.5	352.4	5.7
Asia and Pacific	2,275.6	2,210.7	2,222.1	2,266.2	2,214.8	-2.3
Australia	206.5	216.7	205.3	383.6	356.3	-7.1
Brunei	146.8	146.3	168.4	171.9	176.2	2.5
China	400.4	312.9	143.7	209.3	164.7	-21.3
Indonesia	709.7	678.0	781.9	622.5	599.2	-3.7
Malaysia	373.3	401.7	395.5	380.2	397.6	4.6
Vietnam	218.2	248.0	300.9	286.9	303.2	5.7
Others	220.8	207.2	226.3	211.7	217.6	2.8
Total world	34,812.9	36,435.8	35,351.0	37,764.9	37,332.7	-1.1
OPEC	19,331.1	20,586.9	19,405.5	20,526.7	19,880.8	-3.1
OPEC percentage	55.5	56.5	54.9	54.4	53.3	

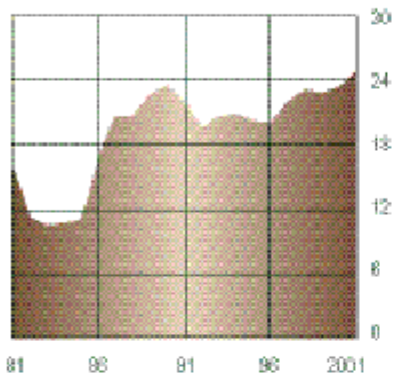
Notes: Data includes re-exports. Revisions have been made throughout the time series.

Sources: Direct communications to the Secretariat; UN, Energy Statistics Yearbook; OECD, Monthly Oil Data Statistics, Energy Statistics of OECD/non-OECD Countries; secondary sources; Secretariat's estimates.

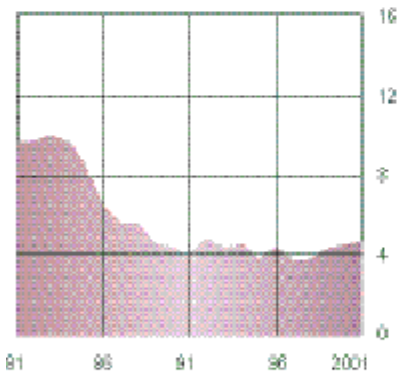
Graph 42:
Crude oil exports, 1981–2001
(1,000 b/d)



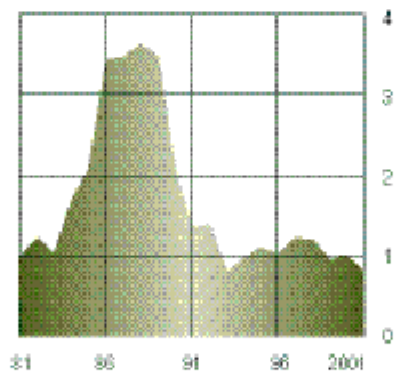
Graph 43:
North America



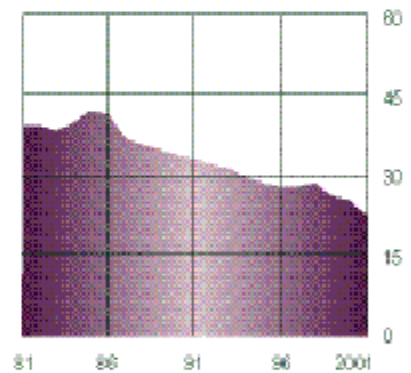
Graph 44:
Latin America



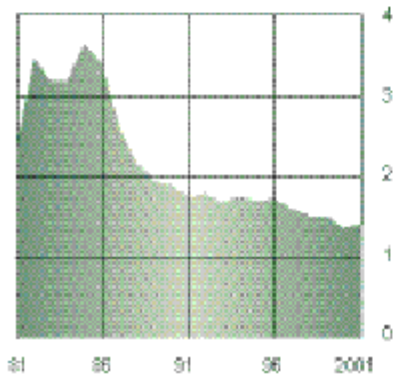
Graph 45:
Eastern Europe



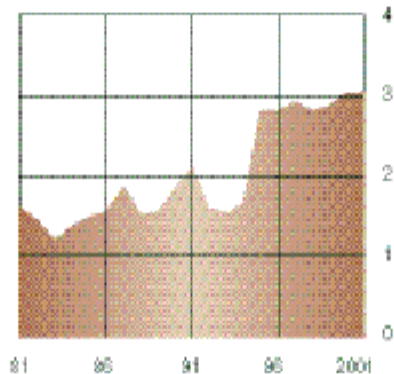
Graph 46:
Western Europe



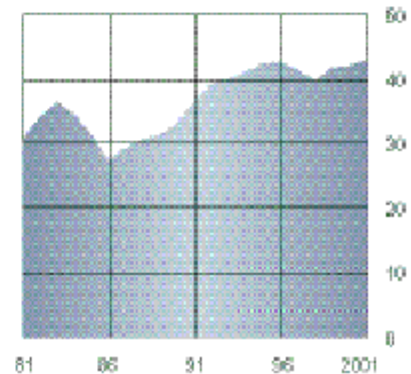
Graph 47:
Middle East



Graph 48:
Africa



Graph 49:
Asia and Pacific



OPEC refined product exports by destination, 1997–2001 (1,000 b/d)

Algeria	1997	1998	1999	2000	2001
North America	134.0	139.2	108.3	131.9	138.1
United States	134.0	135.3	106.9	130.8	136.6
Latin America	49.5	52.6	139.4	65.2	51.3
Eastern Europe	0.5	–	–	–	–
Western Europe	224.4	236.4	274.1	306.4	302.2
France	48.9	44.6	52.2	48.2	55.9
Italy	49.3	52.6	70.3	61.1	55.6
Netherlands	56.1	51.4	46.9	49.3	39.5
Spain	20.0	30.7	37.3	47.8	69.6
United Kingdom	0.0	8.3	2.0	6.4	1.1
Middle East	1.1	0.5	2.3	0.4	1.7
Africa	15.5	13.6	45.2	21.2	22.0
Asia and Pacific	37.3	19.6	30.4	19.2	40.4
Unspecified	–	–	–	–	–
Total world	462.3	461.9	599.7	544.3	555.8

Sources: Direct communications to the Secretariat; UN, Energy Statistics Yearbook; OECD, Monthly Oil Data Statistics; secondary sources; Secretariat's estimates.

Indonesia	1997	1998	1999	2000*	2001*
North America	10.8	12.1	5.2	6.7	7.8
United States	10.8	12.1	5.2	6.7	7.8
Latin America	–	–	–	–	–
Western Europe	20.2	27.5	11.7	3.7	7.9
Italy	18.7	24.6	6.9	0.8	–
Middle East	0.1	–	–	–	–
Africa	–	–	–	–	–
Asia and Pacific	226.2	181.2	175.0	178.4	180.7
Japan	101.5	79.0	72.8	67.4	71.4
South Korea	40.8	38.7	38.3	54.5	46.0
Singapore	36.5	31.9	27.0	30.1	32.3
Unspecified	–	–	–	–	–
Total world	257.3	220.8	191.9	188.8	196.3

Sources: Direct communications to the Secretariat; UN, Energy Statistics Yearbook; OECD, Monthly Oil Data Statistics; secondary sources; Secretariat's estimates.

OPEC refined product exports by destination, 1997–2001 (1,000 b/d)

Kuwait	1997	1998	1999	2000*	2001*
North America	–	1.2	1.9	8.3	9.5
United States	–	1.2	1.7	8.3	8.5
Latin America	na	na	na	na	na
Western Europe	45.8	59.5	57.9	59.7	55.2
Italy	–	0.4	–	–	5.1
Netherlands	29.5	25.5	31.5	21.9	5.2
United Kingdom	0.4	6.8	5.4	16.5	19.6
Middle East	na	na	na	na	na
Africa	na	na	na	na	na
Asia and Pacific	na	na	na	na	na
Australia	0.6	–	0.5	–	0.1
Japan	159.6	143.3	141.6	128.4	126.1
Unspecified	–	–	–	–	–
Total world	848.0	795.0	838.6	674.5	642.3

Sources: Direct communications to the Secretariat; UN, Energy Statistics Yearbook; OECD, Monthly Oil Data Statistics; secondary sources; Secretariat's estimates.

Saudi Arabia	1997	1998	1999	2000	2001
North America	74.6	46.1	28.6	21.1	15.8
Latin America	70.0	87.0	45.0	56.3	37.1
Western Europe	82.1	95.3	62.5	78.0	80.9
Middle East	185.4	138.0	92.5	119.9	123.1
Africa	81.5	114.6	91.0	108.7	101.4
Asia and Pacific	899.3	887.9	960.1	844.0	724.3
Unspecified	–	–	–	–	–
Total world	1,392.9	1,368.9	1,279.7	1,228.1	1,082.6

Sources: Direct communications to the Secretariat; UN, Energy Statistics Yearbook; OECD, Monthly Oil Data Statistics; secondary sources; Secretariat's estimates.

OPEC refined product exports by destination, 1997–2001 (1,000 b/d)

Venezuela	1997	1998	1999	2000*	2001*
North America	441.1	423.1	460.5	407.3	368.6
United States	427.5	397.1	357.4	315.5	284.4
Latin America	348.6	363.7	313.2	301.3	312.2
Western Europe	44.3	54.9	41.1	58.5	62.3
Italy	2.7	16.7	6.3	8.7	7.2
United Kingdom	3.9	0.6	2.7	3.4	1.3
Africa	–	–	–	–	–
Asia and Pacific	7.5	4.5	13.1	12.5	17.9
Japan	2.5	0.1	0.7	12.5	17.2
Unspecified	–	–	–	–	–
Total world	841.5	846.2	828.0	779.6	761.1

Sources: Direct communications to the Secretariat; UN, Energy Statistics Yearbook; OECD, Monthly Oil Data Statistics; secondary sources; Secretariat's estimates.

World exports of refined products by country, 1997–2001 (1,000 b/d)

	1997	1998	1999*	2000*	2001*	% change 01/00
North America	1,251.3	1,174.2	1,171.2	1,360.3	1,374.5	1.0
Canada	382.7	352.6	366.9	370.9	411.4	10.9
United States	868.4	821.6	804.3	989.3	963.1	-2.6
Others	0.1	-	-	-	-	-
Latin America	2,002.2	2,130.5	2,079.2	2,063.9	2,131.7	3.3
Argentina	101.6	110.3	81.1	109.0	119.6	9.7
Ecuador	40.3	34.6	33.9	35.0	40.0	14.3
Mexico	90.9	106.8	100.5	89.2	96.2	7.8
Netherlands Antilles	213.9	220.5	193.6	205.0	220.0	7.3
Trinidad & Tobago	89.6	134.9	133.3	142.6	145.0	1.7
Venezuela	841.5	846.2	828.0	779.6	761.1	-2.4
Virgin Islands	375.5	385.0	382.1	385.9	397.2	2.9
Others	249.0	292.4	326.6	317.6	352.6	11.0
Eastern Europe	1,220.7	1,112.8	1,143.8	1,325.8	1,512.3	14.1
Romania	62.1	69.6	44.6	50.4	54.3	7.8
Former USSR	993.0	872.0	913.1	1,086.3	1,246.5	14.7
Others	165.5	171.2	186.1	189.1	211.5	11.8
Western Europe	4,246.3	4,263.2	4,252.7	4,436.1	4,454.1	0.4
Belgium	370.5	387.4	400.2	414.1	407.1	-1.7
France	369.4	332.2	366.9	396.1	399.1	0.8
Germany	264.6	305.6	352.0	393.3	388.6	-1.2
Italy	421.9	458.6	409.2	430.8	451.5	4.8
Netherlands	1,305.2	1,304.5	1,298.7	1,371.2	1,416.8	3.3
United Kingdom	570.4	518.6	479.8	443.2	416.9	-5.9
Others	944.2	956.3	946.0	987.2	974.1	-1.3
Middle East	3,335.9	3,284.2	3,302.1	3,140.3	2,962.6	-5.7
Bahrain	248.5	248.0	260.2	260.0	274.0	5.4
IR Iran	225.9	277.8	362.9	347.3	307.7	-11.4
Iraq	18.9	23.0	23.0	23.0	25.0	8.6
Kuwait	848.0	795.0	838.6	674.5	642.3	-4.8
Qatar	125.0	95.1	75.3	75.3	78.1	3.7
Saudi Arabia	1,392.9	1,368.9	1,279.7	1,228.1	1,082.6	-11.8
United Arab Emirates	323.1	319.1	331.0	391.7	398.2	1.7
Others	153.6	157.3	131.5	140.4	154.7	10.2
Africa	1,049.4	957.6	1,162.2	1,142.7	1,193.6	4.5
Algeria	462.3	461.9	599.7	544.3	555.8	2.1
Egypt	109.5	103.3	93.6	87.3	96.3	10.3
Gabon	5.2	5.7	6.9	7.0	7.7	9.3
Nigeria	25.3	3.8	14.1	17.3	45.7	164.4
SP Libyan AJ	147.9	168.6	201.2	237.0	225.0	-5.0
Others	299.3	214.2	246.7	249.8	263.1	5.3
Asia and Pacific	2,970.8	2,936.4	2,852.7	2,844.1	2,869.8	0.9
Australia	135.0	121.9	122.9	122.8	122.7	-0.1
China	198.4	188.6	264.8	292.0	246.9	-15.4
Indonesia	257.3	220.8	191.9	188.8	196.3	4.0
Japan	174.7	133.7	109.3	90.1	96.1	6.6
Malaysia	151.3	139.9	146.1	143.7	153.0	6.5
Singapore	973.7	969.8	940.6	892.6	942.0	5.5
Others	1,080.5	1,161.7	1,077.0	1,114.1	1,112.8	-0.1
Total world	16,076.7	15,858.9	15,963.9	16,313.0	16,498.5	1.1
OPEC	4,668.0	4,580.2	4,745.3	4,506.8	4,317.8	-4.2
OPEC percentage	29.0	28.9	29.7	27.6	26.2	

Notes: Data includes re-exports and exports of petroleum products from gas plants. Revisions have been made throughout the time series.

Sources: Direct communications to the Secretariat; UN, Energy Statistics Yearbook; OECD, Energy Statistics of OECD/non-OECD Countries, Monthly Oil Data Statistics; secondary sources; Secretariat's estimates.

World natural gas exports by country, 1997–2001 (million standard cu m)

	1997	1998	1999	2000	2001	% change 01/00
North America	86,370	90,610	99,200	108,345	117,681	8.6
Canada	82,130	86,112	94,700	101,445	107,372	5.8
United States	4,240	4,498	4,500	6,900	10,309	49.4
Latin America	2,981	3,825	8,730	10,500	12,890	22.8
Argentina	670	1,200	3,410	4,200	6,050	44.0
Bolivia	1,830	2,200	1,570	2,030	2,900	42.9
Mexico	481	425	1,560	330	290	-12.1
Trinidad & Tobago	–	–	2,190	3,940	3,650	-7.4
Eastern Europe	116,450	121,100	127,490	131,670	131,320	-0.3
Former USSR	116,450	121,100	127,490	131,670	131,320	-0.3
Western Europe	89,660	88,480	95,500	109,490	116,530	6.4
Denmark	2,970	2,700	2,710	3,040	3,100	2.0
France	–	850	700	800	800	–
Germany	2,430	3,100	3,800	5,110	4,180	-18.2
Netherlands	40,110	36,360	35,000	36,620	42,200	15.2
Norway	42,310	42,570	45,490	48,910	50,500	3.3
United Kingdom	1,840	2,900	7,800	15,010	15,750	4.9
Middle East	10,670	12,010	15,670	23,700	31,408	32.5
IR Iran	–	–	–	–	358	–
Oman	500	500	500	2,710	7,430	174.2
Qatar	2,860	4,790	8,100	14,040	16,540	17.8
United Arab Emirates	7,310	6,720	7,070	6,950	7,080	1.9
Africa	49,860	53,600	61,020	68,223	65,575	-3.9
Algeria	48,740	52,690	59,320	61,693	56,975	-7.6
SP Libyan AJ	1,120	910	960	800	770	-3.8
Nigeria	–	–	740	5,730	7,830	36.6
Asia and Far East	74,830	76,000	79,490	78,480	80,020	2.0
Australia	9,540	10,000	10,100	10,050	10,200	1.5
Brunei	8,300	8,200	8,410	8,790	9,000	2.4
Indonesia	35,280	36,400	39,120	36,220	32,800	-9.4
Malaysia	21,710	21,400	21,770	22,090	22,410	1.4
Myanmar	–	–	90	1,330	5,200	291.0
Taiwan	–	–	–	–	410	–
Total world	430,821	445,625	487,100	530,408	555,424	4.7
OPEC	95,310	101,510	115,310	125,433	122,353	-2.5
OPEC percentage	22.1	22.8	23.7	23.6	22.0	

Note: Totals may not add up due to independent rounding.

Sources: Direct communications to the Secretariat; Cedigaz; national sources; IEA, Natural Gas Statistics.

World imports of crude oil by country, 1997–2001 (1,000 b/d)

	1997	1998	1999	2000	2001	% change 01/00
North America	9,133.9	9,588.6	9,666.7	10,125.5	10,131.2	0.1
Canada	764.2	774.4	822.5	919.7	908.3	-1.2
United States	8,369.8	8,814.2	8,844.3	9,205.8	9,223.0	0.2
Latin America	1,920.8	1,983.0	1,840.4	1,863.0	1,831.1	-1.7
Brazil	574.5	550.3	476.7	452.3	416.9	-7.8
Chile	171.7	186.3	192.5	196.3	198.8	1.3
Cuba	19.3	15.9	13.0	14.6	15.0	2.3
Netherlands Antilles	235.6	248.8	213.3	227.9	222.0	-2.6
Puerto Rico	123.5	124.5	122.2	126.3	123.0	-2.6
Virgin Islands	428.3	438.7	438.9	443.1	447.0	0.9
Others	367.9	418.6	383.7	402.4	408.5	1.5
Eastern Europe	1,006.5	978.0	884.9	928.1	922.3	-0.6
Bulgaria	118.2	111.0	112.1	124.5	122.7	-1.4
Former Czechoslovakia	141.4	138.6	121.3	114.4	117.6	2.7
Romania	128.4	122.8	88.3	93.2	97.6	4.7
Former USSR	100.0	50.0	10.0	5.0	-	-
Others	518.4	555.7	553.2	590.9	584.4	-1.1
Western Europe	11,408.7	11,976.0	11,257.6	11,546.0	11,552.0	0.1
Belgium	662.0	699.9	648.7	684.9	646.0	-5.7
France	1,765.7	1,813.4	1,654.8	1,714.4	1,713.2	-0.1
Germany	2,030.2	2,208.5	2,098.6	2,093.6	2,123.6	1.4
Greece	362.6	374.9	321.9	391.1	381.7	-2.4
Italy	1,592.6	1,727.4	1,624.3	1,689.1	1,668.5	-1.2
Netherlands	1,117.8	1,147.7	1,086.4	1,103.9	1,095.4	-0.8
Spain	1,124.1	1,206.4	1,172.1	1,160.5	1,146.7	-1.2
Sweden	410.2	402.0	394.6	422.6	402.8	-4.7
Turkey	471.2	479.2	464.1	437.2	469.3	7.3
United Kingdom	837.3	796.6	713.3	853.6	905.7	6.1
Others	1,035.1	1,120.0	1,078.9	995.1	999.0	0.4
Middle East	505.7	524.2	483.0	498.2	487.3	-2.2
Bahrain	212.4	211.1	225.5	227.0	223.5	-1.5
Syrian Arab Republic	-	-	-	-	-	-
Yemen	-	-	-	-	-	-
Others	293.2	313.1	257.5	271.2	263.8	-2.8
Africa	810.5	788.3	772.5	784.4	777.0	-0.9
Côte d'Ivoire	59.1	72.1	72.1	73.0	70.0	-4.1
Kenya	36.7	43.1	35.8	37.0	35.0	-5.4
Morocco	125.3	124.0	147.9	150.3	153.4	2.1
Others	589.4	549.0	516.7	524.1	518.6	-1.0
Asia and Pacific	12,040.2	11,557.3	11,896.3	12,708.6	12,412.5	-2.3
Australia	361.7	406.0	454.9	376.0	401.9	6.9
India	684.3	788.6	925.9	964.3	974.0	1.0
Indonesia	190.6	212.2	232.0	219.1	326.0	48.8
Japan	4,579.3	4,284.2	4,212.8	4,245.0	4,171.9	-1.7
New Zealand	75.1	90.1	88.5	90.5	83.7	-7.6
Philippines	353.3	319.4	322.2	325.0	320.0	-1.5
Singapore	1,117.7	1,047.4	894.8	942.6	927.1	-1.6
South Korea	2,414.4	2,314.7	2,408.0	2,460.2	2,349.8	-4.5
Taiwan	627.2	664.8	698.2	757.8	733.2	-3.2
Thailand	699.9	646.0	672.9	654.8	648.3	-1.0
Others	936.6	783.9	985.9	1,673.4	1,476.6	-11.8
Total world	36,826.1	37,395.5	36,801.4	38,453.8	38,113.3	-0.9

Note: Revisions have been made throughout the time series.

Sources: Direct communications to the Secretariat; UN, Energy Statistics Yearbook; OECD, Energy Statistics of OECD/non-OECD Countries, Monthly Oil Data Statistics; secondary sources; Secretariat's estimates.

World imports of refined products by country, 1997–2001 (1,000 b/d)

	1997	1998*	1999*	2000*	2001*	% change 01/00
North America	1,304.6	1,404.5	1,509.1	1,761.9	1,998.2	13.4
Canada	179.9	184.9	173.8	163.9	210.4	28.3
United States	1,120.6	1,215.4	1,331.0	1,593.7	1,783.5	11.9
Others	4.1	4.2	4.3	4.3	4.3	–
Latin America	1,426.5	1,476.8	1,486.3	1,548.1	1,473.9	–4.8
Brazil	304.2	301.6	304.7	288.4	297.2	3.1
Cuba	131.9	132.3	135.0	131.0	130.0	–0.8
Mexico	292.9	324.7	354.8	437.1	364.6	–16.6
Netherlands Antilles	33.3	33.3	33.5	33.2	33.8	1.8
Panama	20.5	23.8	21.0	17.0	18.1	6.5
Puerto Rico	96.7	98.7	99.0	99.0	100.0	1.0
Others	546.8	562.5	538.4	542.4	530.1	–2.3
Eastern Europe	339.6	359.2	269.0	199.6	221.0	10.7
Bulgaria	8.8	6.0	6.0	12.0	9.7	–19.2
Former USSR	97.7	105.0	40.0	10.0	10.0	–
Hungary	32.4	30.2	26.8	21.1	24.3	15.2
Poland	83.7	98.4	92.3	62.7	63.0	0.5
Others	117.0	119.6	103.9	93.8	114.0	21.5
Western Europe	4,561.0	4,651.2	4,843.5	5,166.7	5,261.7	1.8
Belgium	276.3	287.6	291.4	302.0	322.1	6.7
France	329.3	372.6	574.2	556.8	543.3	–2.4
Germany	1,062.5	961.4	879.1	915.8	945.9	3.3
Italy	431.7	414.2	368.0	359.4	324.2	–9.8
Netherlands	796.2	771.1	813.0	957.4	1,000.1	4.5
United Kingdom	180.4	245.8	257.2	293.8	354.8	20.8
Others	1,484.5	1,598.6	1,660.5	1,781.5	1,771.2	–0.6
Middle East	339.5	347.1	342.0	347.7	362.8	4.3
Syrian Arab Republic	19.2	23.0	20.0	20.2	21.0	4.0
Others	320.3	324.2	322.0	327.5	341.8	4.4
Africa	444.3	469.3	480.6	533.1	447.2	–16.1
Egypt	35.6	47.7	49.3	50.7	53.2	4.9
Morocco	32.7	25.7	27.0	28.5	29.6	3.9
Nigeria	37.0	44.5	52.6	106.3	12.7	–88.0
Senegal	8.6	9.4	9.5	9.6	9.9	3.1
Tunisia	53.8	52.6	53.1	51.4	50.0	–2.7
Others	276.7	289.4	289.1	286.6	291.8	1.8
Asia and Pacific	5,207.1	4,959.7	5,251.1	5,213.9	5,190.5	–0.4
Australia	64.9	64.6	76.9	86.2	85.1	–1.2
China	595.8	587.3	631.9	522.4	601.7	15.2
Hong Kong	403.1	409.1	411.0	393.1	387.6	–1.4
India	427.7	437.8	441.2	449.0	462.0	2.9
Japan	1,239.0	1,074.8	1,238.3	1,243.2	1,161.2	–6.6
New Zealand	26.9	20.0	31.0	25.6	27.1	5.6
Singapore	633.9	649.4	643.2	632.7	626.3	–1.0
Others	1,815.7	1,716.6	1,777.5	1,861.6	1,839.5	–1.2
Total world	13,622.7	13,668.0	14,181.5	14,771.0	14,955.2	1.2

Notes: Data includes petroleum products from gas plants. Revisions have been made throughout the time series.

Sources: Direct communications to the Secretariat; UN, Energy Statistics Yearbook; OECD, Monthly Oil Data Statistics, Energy Statistics of OECD/non-OECD Countries; secondary sources; Secretariat's estimates.

World imports of natural gas by country, 1997–2001 (million standard cu m)

	1997	1998	1999	2000	2001	% change 01/00
North America	86,051	91,375	102,090	109,208	118,054	8.1
Canada	1,270	1,270	1,200	2,060	4,460	116.5
United States	84,781	90,105	100,890	107,148	113,594	6.0
Latin America	3,750	4,970	6,690	9,520	13,500	41.8
Argentina	1,830	2,200	1,200	–	–	–
Brazil	–	–	370	2,120	3,640	71.7
Chile	670	1,240	3,390	4,070	5,270	29.5
Mexico	1,250	1,530	1,730	2,980	3,960	32.9
Puerto Rico	–	–	–	350	630	80.0
Eastern Europe	41,300	39,760	39,350	40,850	41,270	1.0
Bulgaria	5,100	3,600	3,350	3,200	2,900	–9.4
Former Czechoslovakia	16,000	16,260	16,600	17,300	17,800	2.9
Hungary	8,000	8,500	8,700	9,200	9,570	4.0
Poland	7,700	7,600	7,500	7,750	8,000	3.2
Romania	4,500	3,800	3,200	3,400	3,000	–11.8
Western Europe	213,390	219,910	242,380	265,370	266,620	0.5
Austria	6,030	6,200	6,120	6,120	6,440	5.2
Belgium	14,300	15,500	16,120	16,300	15,620	–4.2
Finland	3,700	4,200	4,200	4,300	4,540	5.6
France	35,150	36,800	41,120	42,620	41,590	–2.4
Germany	75,380	73,800	75,230	76,200	78,160	2.6
Greece	160	900	1,500	2,140	1,980	–7.5
Ireland	830	1,500	2,100	2,600	3,500	34.6
Italy	39,150	42,600	49,410	58,500	54,750	–6.4
Luxembourg	710	760	700	700	900	28.6
Netherlands	5,890	5,300	7,340	12,600	11,330	–10.1
Portugal	500	800	2,150	2,350	2,460	4.7
Spain	12,470	12,600	15,450	16,930	18,840	11.3
Sweden	860	860	840	840	900	7.1
Switzerland	2,620	2,700	3,040	3,050	3,050	–
Turkey	9,750	10,380	12,300	14,300	15,870	11.0
United Kingdom	1,320	900	1,370	2,200	2,700	22.7
Former Yugoslavia	4,570	4,110	3,390	3,620	3,990	10.2
Middle East	100	1,750	2,000	2,650	4,500	69.8
IR Iran	100	1,750	2,000	2,650	4,500	69.8
Africa	910	450	800	1,730	1,580	–8.7
Tunisia	910	450	800	1,730	1,580	–8.7
Asia and Pacific	85,320	87,410	93,790	101,080	109,900	8.7
Japan	63,750	66,300	69,360	72,590	74,070	2.0
South Korea	15,710	14,310	17,520	19,680	21,830	10.9
Singapore	1,500	1,500	1,500	1,500	2,500	66.7
Taiwan	4,360	5,300	5,320	5,980	6,300	5.4
Thailand	–	–	90	1,330	5,200	291.0
Total world	430,821	445,625	487,100	530,408	555,424	4.7
OPEC	100	1,750	2,000	2,650	4,500	69.8
OPEC percentage	–	0.4	0.4	0.5	0.8	

Note: Totals may not add up due to independent rounding.

Sources: Direct communications to the Secretariat; Cedigaz; national sources; IEA, Natural Gas Statistics.

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Tanker fleet development in OPEC Members, 1997–2001 (1,000 dwt)

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	1997		1998		1999		2000		2001	
	no	dwt	no	dwt	no	dwt	no	dwt	no	dwt
Algeria	1	22.6	1	22.6	1	22.6	1	22.6	1	22.6
Indonesia	25	739.1	25	739.1	31	904.2	32	988.9	32	988.9
IR Iran	25	3,996.1	17	2,998.9	20	3,523.6	21	3,699.6	24	3,070.6
Iraq	17	1,517.0	16	1,364.2	9	534.3	9	534.3	9	534.3
Kuwait	27	3,156.9	26	3,343.0	17	2,890.3	16	2,862.9	26	3,329.6
SP Libyan AJ	10	1,254.5	9	1,113.5	5	526.9	6	775.3	6	775.3
Nigeria	3	423.7	2	413.0	2	413.0	2	413.0	2	413.0
Qatar	5	479.0	5	479.0	5	465.8	4	368.6	4	368.6
Saudi Arabia	14	719.3	10	521.8	11	481.3	12	578.6	12	578.6
United Arab Emirates	10	509.4	13	659.4	13	659.4	10	291.6	10	291.6
Venezuela	10	521.8	10	521.8	7	373.8	6	320.3	6	320.3
OPEC	147	13,339	134	12,176	121	10,795	119	10,856	132	10,693
Total world	3,323	292,398	3,424	300,460	3,313	289,358	3,329	292,059	3,336	291,110
OPEC percentage		4.6		4.1		3.7		3.7		3.7

Notes: Figures as at year-end. Totals may not add up due to independent rounding. Total world includes commercial units and government-owned vessels.
Sources: Simpson Spence & Young, *World Oil Tanker Trends 2002*; direct communications to the Secretariat.

World tanker fleet by age, 2001 (1,000 dwt)

	1986 and earlier		1987-91		1992-96		1997-2001		Total	
	no	dwt	no	dwt	no	dwt	no	dwt	no	dwt
10,000-19,999	279	4,230.0	47	712.6	82	1,126.1	145	2,160.2	553	8,228.9
20,000-29,999	234	6,238.8	52	1,476.2	30	859.6	22	516.5	338	9,091.1
30,000-39,999	310	10,796.8	37	1,389.5	51	1,836.0	103	3,596.3	501	17,618.6
40,000-49,999	100	4,408.6	68	2,949.4	89	3,936.0	124	5,681.4	381	16,975.3
50,000-59,999	78	4,296.7	5	275.7	2	110.2	-	-	85	4,682.5
60,000-69,999	118	7,588.5	22	1,439.7	25	1,681.9	16	1,069.6	181	11,779.7
70,000-74,999	6	425.2	1	70.9	1	70.9	13	937.4	21	1,504.5
75,000-89,999	140	11,972.9	38	3,226.4	10	851.1	5	402.1	193	16,452.5
90,000-99,999	47	4,439.1	43	4,135.1	84	8,103.5	24	2,368.2	198	19,045.9
100,000-109,999	14	1,479.2	19	1,963.2	13	1,360.7	95	10,048.0	141	14,851.1
110,000-119,999	8	926.5	9	1,009.5	2	222.2	16	1,790.6	35	3,948.8
120,000-129,999	20	2,505.2	6	753.2	4	493.5	12	1,512.1	42	5,264.0
130,000-139,999	16	2,172.6	9	1,230.2	13	1,751.6	2	268.8	40	5,423.3
140,000-149,999	7	996.6	23	3,342.9	36	5,270.2	23	3,409.6	89	13,019.3
150,000-159,999	15	2,316.8	18	2,772.9	11	1,705.8	43	6,679.4	87	13,475.0
160,000-199,999	10	1,793.8	-	-	-	-	5	810	15	2,604.2
200,000-229,999	3	668.3	1	214.9	-	-	-	-	4	883.1
230,000-259,999	30	7,378.1	35	8,833.6	33	8,455.4	11	2,848.0	109	27,515.1
260,000-299,999	39	10,668.5	25	6,958.9	70	20,120.5	46	13,280.3	180	51,028.2
300,000-349,999	12	3,820.2	2	609	31	9399	63	19277	108	33,104.6
350,000 and over	35	14,614.4	-	-	-	-	-	-	35	14,614.4
Total world	1,521	103,736.7	460	43,364.0	587	67,353.7	768	76,655.6	3,336	291,110.0

Notes: Figures as at year-end. Totals may not add up due to independent rounding. World tanker fleet includes commercial vessels of 10,000 dwt and over owned by independent oil companies, as well as government institutions.

Source: Simpson Spence & Young, World Oil Tanker Trends 2002.

World liquid gas carrier fleet by size and type, 2001 (1,000 cu m)

	LPG		LNG		Total	
	no	capacity	no	capacity	no	capacity
up to 999	75	50.7	–	–	75	50.7
1,000–1,999	259	370.7	1	1.5	260	372.2
2,000–4,999	264	868.8	–	–	264	868.8
5,000–9,999	139	915.0	–	–	139	915.0
10,000–19,999	63	862.2	4	76.1	67	938.3
20,000–39,999	56	1,575.1	6	178.6	62	1,753.7
40,000–59,999	24	1,297.2	6	252.9	30	1,550.1
60,000–99,999	104	8,038.4	15	1,158.6	119	9,197.0
100,000 and over	1	100.9	97	12,670.2	98	12,771.2
Total world	985	14,079.0	129	14,338.0	1,114	28,417.0

Notes: Figures as at year-end. Totals may not add up due to independent rounding.

Source: Clarkson Research Studies, *The Liquid Gas Carrier Register 2002*.

Liquid gas carrier fleet in OPEC Members, 2001 (1,000 cu m)

	LPG		LNG		Total	
	no	capacity	no	capacity	no	capacity
Algeria	4	23.9	5	632.0	9	655.9
Indonesia	3	12.4	–	–	3	12.4
IR Iran	1	12.1	–	–	1	12.1
Iraq	–	–	–	–	–	–
Kuwait	7	522.1	–	–	7	522.1
SP Libyan AJ	3	9.8	–	–	3	9.8
Nigeria	–	–	–	–	–	–
Qatar	–	–	–	–	–	–
Saudi Arabia	1	76.7	–	–	1	76.7
United Arab Emirates	1	3.2	8	1,096.0	9	1,099.2
Venezuela	2	28.3	–	–	2	28.3
Total OPEC	22	688.5	13	1,728.0	35	2,416.5
Total world	985	14,079.0	129	14,338.0	1,114	28,417.0
OPEC percentage		4.9		12.1		8.5

Note: LNG vessels for the UAE are registered under the Liberian flag. Figures as at year-end. Totals may not add up due to independent rounding.

Sources: Clarkson Research Studies, *The Liquid Gas Carrier Register 2002*; direct communications to the Secretariat.

World combined carrier fleet by size, 1997–2001 (1,000 dwt)

	1997		1998		1999		2000		2001	
	no	dwt	no	dwt	no	dwt	no	dwt	no	dwt
10,000–19,999	2	29.7	2	29.7	1	15.163	1	15.163	1	15.163
20,000–29,999	1	26.4	1	26.4	1	26.4	1	26.4	1	26.4
30,000–39,999	4	124.4	4	124.4	–	–	–	–	–	–
40,000–49,999	13	614.4	13	614.4	11	513.8	10	463.8	10	463.8
50,000–59,999	15	814.7	15	814.7	13	707.9	14	762.4	14	762.4
60,000–69,999	8	525.9	8	525.9	7	456.5	7	456.5	7	456.5
70,000–79,999	40	3,058.1	38	2,900.9	34	2,575.3	33	2,497.1	33	2,550.8
80,000–99,999	28	2,553.4	26	2,384.0	30	2,724.1	27	2,434.5	23	2,041.1
100,000–124,999	38	4,273.4	30	3,383.4	26	2,936.2	24	2,706.7	22	2,479.2
125,000–159,999	29	4,040.1	25	3,466.0	24	3,294.2	18	2,460.6	16	2,204.8
160,000–199,999	18	3,025.6	14	2,364.4	6	1,016.3	7	1,185.4	9	1,517.9
200,000–249,999	3	700.5	3	700.5	1	247.9	1	247.9	–	–
250,000–319,999	9	2,618.8	8	2,343.2	5	1,523.9	5	1,523.9	5	1,523.9
Total world	208	22,405.4	187	19,677.9	159	16,037.8	148	14,780.7	141	14,042.1

Notes: Vessels of 10,000 dwt and over. Figures at at year-end. Totals may not add up due to independent rounding.

Source: Simpson Spence & Young, World Oil Tanker Trends 2002.

World laid-up tanker and combined carrier tonnage by size, 1997–2001 (1,000 dwt)

	1997		1998		1999		2000		2001	
	no	dwt	no	dwt	no	dwt	no	dwt	no	dwt
up to 44,999	12	281.3	11	250.5	2	50.0	5	133.8	5	111.7
45,000–79,999	1	77.4	2	128.9	–	–	1	57.4	–	–
80,000–159,999	6	696.0	4	469.0	1	110.0	4	534.0	1	125.0
160,000–199,999	4	702.2	4	694.0	6	930.0	2	350.0	2	330.1
200,000–319,999	–	–	–	–	–	–	–	–	3	1062.2
320,000 and over	3	1,203.5	–	–	–	–	1	402.9	1	402.9
Total world	26	2,960.4	21	1,542.4	9	1,090.0	13	1,478.2	12	2,031.9

Note: Figures as at year-end.

Source: Simpson Spence & Young, World Oil Tanker Trends 2002.

Average spot freight rates for all routes, 1997–2001 (percentage of *Worldscale*)

		GP 16.5–24.9	MR 25.0–44.9	LR1 45.0–79.9	LR2 80.0–159.9	VLCC 160.0–319.9
1997	Jan	216.1	201.8	159.6	104.3	60.7
	Feb	205.8	210.3	136.3	105.3	58.2
	Mar	220.3	208.0	160.7	108.8	59.6
	Apr	210.3	183.3	193.6	106.9	61.6
	May	191.8	175.8	167.4	101.1	52.9
	Jun	218.5	196.5	171.9	102.8	64.4
	Jul	201.0	182.7	147.6	98.8	63.5
	Aug	237.6	166.8	138.0	92.3	72.1
	Sep	169.4	180.9	141.3	108.4	80.4
	Oct	225.5	164.8	153.1	107.3	77.6
	Nov	232.4	169.8	148.2	104.4	90.7
	Dec	215.0	178.6	125.6	104.1	73.2
1998	Jan	201.4	153.3	147.9	108.6	53.4
	Feb	194.5	160.8	121.1	100.8	57.6
	Mar	151.0	146.9	129.6	96.4	64.6
	Apr	167.6	156.3	127.6	101.0	71.9
	May	165.2	174.5	112.3	89.9	70.4
	Jun	176.3	155.6	117.3	93.5	76.0
	Jul	186.1	158.2	121.0	97.6	72.3
	Aug	179.1	158.2	116.0	94.2	77.2
	Sep	188.4	158.7	107.5	81.4	55.5
	Oct	172.6	144.4	107.8	77.5	49.4
	Nov	175.0	126.8	114.0	82.2	54.8
	Dec	230.9	156.6	122.4	87.7	53.6
1999	Jan	198.8	153.4	133.9	93.3	57.4
	Feb	221.0	151.8	122.0	91.4	59.7
	Mar	201.5	107.9	113.9	91.4	63.5
	Apr	190.0	109.6	132.6	87.2	46.6
	May	207.0	132.5	116.6	84.4	38.2
	Jun	210.0	177.6	115.4	76.8	42.3
	Jul	265.0	169.3	104.8	73.9	53.9
	Aug	255.0	162.9	100.3	72.4	39.8
	Sep	207.8	160.1	103.9	73.0	44.7
	Oct	174.0	100.8	102.6	81.6	50.3
	Nov	184.7	139.0	104.9	84.8	49.2
	Dec	183.2	135.5	119.4	95.0	46.2
2000	Jan	201.9	160.0	133.0	117.9	57.2
	Feb	297.0	236.7	176.5	148.1	115.5
	Mar	231.6	197.8	187.8	134.5	61.6
	Apr	226.0	193.0	188.2	130.5	74.4
	May	273.5	206.7	165.1	133.5	89.2
	Jun	293.2	221.6	224.3	147.8	102.1
	Jul	316.9	239.7	233.7	180.9	102.3
	Aug	319.6	241.9	269.3	202.4	109.9
	Sep	330.6	250.3	204.4	163.5	134.6
	Oct	359.8	249.2	243.6	191.2	135.3
	Nov	382.5	267.2	255.6	210.0	138.1
	Dec	446.5	354.0	330.8	207.8	162.0
2001	Jan	383.4	309.3	246.9	213.1	136.3
	Feb	275.0	262.2	220.1	177.7	105.9
	Mar	282.0	280.6	259.0	155.0	91.5
	Apr	246.2	236.2	186.5	164.9	98.9
	May	230.4	234.5	196.5	139.1	72.7
	Jun	216.0	204.9	171.8	116.4	60.3
	Jul	181.2	168.7	133.7	111.1	47.1
	Aug	211.8	163.7	144.3	118.1	58.0
	Sep	279.0	176.8	133.7	109.6	57.9
	Oct	283.1	174.7	155.1	116.1	73.9
	Nov	163.2	157.2	134.4	96.7	51.9
	Dec	147.3	142.0	128.3	88.7	38.3

Notes: GP = general purpose, MR = medium range, LR1 = large range 1, LR2 = large range 2, VLCC = very large crude carrier. Tanker sizes are in 1,000 dwt. Average spot freight rates are the average of all spot freight rates by tanker size reported each month in the spot market.

Source: Secretariat's assessment of spot tanker fixtures based on Galbraith's Tanker Fixtures Report.

Freight costs in the spot market, 1997–2001 (\$/b)

		Crude oil					Petroleum products				
		Carib/USAC	Med/NWE	WAF/USGC	Gulf/Japan	Gulf/NWE	Gulf/Japan	Med/Med	Carib/USAC	S'pore/Japan	
1997	Jan	1.34	1.07	1.19	0.91	1.36	3.42	0.94	1.58	1.84	
	Feb	1.18	1.15	1.24	0.92	1.29	3.27	0.98	1.62	1.74	
	Mar	1.34	1.15	1.31	0.91	1.29	2.90	0.95	1.63	1.56	
	Apr	1.35	1.18	1.35	0.92	1.39	2.90	0.81	1.66	1.68	
	May	1.46	1.10	1.29	0.80	1.26	2.65	0.82	1.54	1.53	
	Jun	1.39	1.18	1.50	1.05	1.41	2.38	0.88	1.21	1.40	
	Jul	1.18	1.11	1.19	1.03	1.41	2.23	0.77	1.30	1.37	
	Aug	1.18	1.07	1.08	1.14	1.64	1.98	0.77	1.40	1.24	
	Sep	1.18	1.16	1.41	1.29	1.62	2.34	0.69	1.15	1.45	
	Oct	1.21	1.19	1.33	1.25	1.69	2.16	0.64	1.06	1.42	
	Nov	1.08	1.21	1.30	1.43	1.90	2.36	0.65	1.00	1.38	
	Dec	1.01	1.06	1.42	1.14	1.72	2.57	0.67	1.52	1.49	
1998	Jan	1.15	0.93	1.37	0.76	1.21	3.08	0.62	1.44	1.61	
	Feb	1.06	0.94	1.30	0.84	1.28	2.65	0.68	1.01	1.48	
	Mar	0.92	0.88	1.10	0.97	1.48	2.59	0.59	1.01	1.65	
	Apr	0.97	0.91	1.32	1.14	1.53	2.31	0.53	0.98	1.49	
	May	0.90	0.78	1.04	1.06	1.60	1.91	0.63	1.18	1.31	
	Jun	0.99	0.82	1.02	1.14	1.63	2.03	0.61	1.00	1.31	
	Jul	0.96	0.91	1.15	1.05	1.68	2.37	0.65	1.17	1.30	
	Aug	0.93	0.90	1.08	1.17	1.75	2.37	0.64	0.95	1.60	
	Sep	0.79	0.69	0.95	0.79	1.43	1.99	0.61	1.12	1.38	
	Oct	0.75	0.83	0.90	0.73	1.23	1.76	0.64	0.96	1.38	
	Nov	0.75	0.83	0.97	0.82	1.36	2.56	0.62	1.00	1.29	
	Dec	0.82	0.91	0.95	0.79	1.31	2.54	0.71	1.34	1.42	
1999	Jan	0.91	0.90	1.09	0.91	1.42	2.00	0.73	1.28	1.40	
	Feb	0.95	0.96	1.35	0.92	1.42	2.04	0.78	1.12	1.24	
	Mar	0.67	0.93	1.10	0.92	1.39	1.47	0.71	0.81	1.00	
	Apr	0.74	0.79	1.01	0.64	1.11	1.69	0.59	0.90	1.05	
	May	0.74	1.14	0.89	0.51	0.82	1.71	0.67	0.76	1.16	
	Jun	0.86	0.94	0.80	0.58	0.94	2.26	0.57	0.88	1.23	
	Jul	0.71	0.89	0.83	0.79	1.11	2.20	0.52	1.02	1.24	
	Aug	0.63	0.82	0.81	0.52	0.87	2.05	0.54	0.95	1.24	
	Sep	0.65	0.75	0.73	0.64	0.94	2.06	0.51	0.82	1.24	
	Oct	0.67	0.89	0.90	0.71	1.13	2.31	0.53	0.78	1.12	
	Nov	0.68	0.75	0.92	0.69	1.11	2.00	0.44	0.84	1.02	
	Dec	0.82	0.79	0.99	0.64	1.01	2.03	0.45	0.87	1.03	
2000	Jan	0.85	0.96	1.38	0.73	1.16	2.40	0.49	0.93	1.21	
	Feb	0.96	1.07	1.26	0.77	1.24	2.60	0.62	1.04	1.33	
	Mar	1.27	1.25	1.54	0.87	1.38	2.60	0.70	1.03	1.77	
	Apr	1.60	1.13	1.58	1.09	1.69	2.69	0.75	1.20	1.82	
	May	1.06	1.14	1.58	1.32	2.02	2.52	0.76	1.18	1.65	
	Jun	1.49	1.33	1.74	1.53	2.16	2.60	0.80	1.26	1.70	
	Jul	1.61	1.62	2.29	1.54	2.30	3.09	0.87	1.33	1.88	
	Aug	1.89	2.05	2.49	1.60	2.42	3.39	0.85	1.51	1.87	
	Sep	1.52	1.41	2.11	2.08	2.83	3.38	0.88	1.63	1.86	
	Oct	1.74	1.48	2.58	2.02	3.16	3.35	0.93	1.70	1.99	
	Nov	1.93	1.88	2.78	1.98	3.25	3.79	1.14	1.52	2.53	
	Dec	1.94	1.89	2.76	2.49	3.61	3.99	1.34	1.88	2.52	
2001	Jan	1.90	2.05	3.14	2.52	3.31	5.26	1.32	1.83	3.14	
	Feb	1.99	1.87	2.10	1.71	2.53	4.70	1.30	1.87	2.83	
	Mar	1.61	1.79	1.63	1.59	2.50	4.35	1.06	1.43	3.14	
	Apr	1.48	1.68	1.93	1.73	2.87	3.58	1.07	1.62	2.26	
	May	1.33	1.35	1.79	1.22	2.03	3.40	1.21	1.52	2.25	
	Jun	1.21	1.28	1.49	1.03	1.50	3.59	1.14	1.56	2.22	
	Jul	0.91	1.11	1.18	0.75	1.25	3.55	0.76	1.34	1.99	
	Aug	0.98	1.21	1.52	0.92	1.56	3.22	0.80	1.19	1.64	
	Sep	1.08	1.06	1.31	1.13	1.39	3.14	0.85	1.25	1.44	
	Oct	1.47	1.06	1.38	1.33	1.75	3.12	0.84	1.28	1.74	
	Nov	0.87	0.95	0.97	0.84	1.25	2.84	0.78	1.24	1.53	
	Dec	0.69	0.81	0.99	0.63	0.95	1.82	0.74	1.04	1.29	

Notes: Carib = Caribbean, Med = Mediterranean, WAF = West Africa, USAC = US Atlantic Coast, S'pore = Singapore, NWE = north-west Europe, USGC = US Gulf Coast. Freight costs are based on the weighted averages of spot freight rates in the typical size range.

Source: Secretariat's assessment of spot tanker fixtures based on Galbraith's Tanker Fixtures Report.

Spot tanker freight rates for all sizes, 1997–2001

		Gulf/West		Gulf/East		Caribbean/USAC		all routes	
		% of Worldscale	equivalent \$/t	% of Worldscale	equivalent \$/t	% of Worldscale	equivalent \$/t	% of Worldscale	equivalent \$/t
1997	Jan	51	9.51	65	7.26	174	9.00	104	9.60
	Feb	50	9.33	67	7.60	136	7.03	93	8.58
	Mar	52	9.70	63	7.15	164	8.48	99	9.14
	Apr	52	9.70	68	7.72	196	10.13	105	9.69
	May	49	9.14	60	6.81	184	9.51	93	8.58
	Jun	55	10.26	71	8.06	175	9.05	94	8.68
	Jul	53	9.88	71	8.06	143	7.39	90	8.31
	Aug	62	11.56	77	8.74	139	7.19	91	8.40
	Sep	67	12.50	88	9.99	145	7.50	102	9.41
	Oct	67	12.50	85	9.65	149	7.70	101	9.32
	Nov	77	14.36	95	10.78	150	7.76	108	9.97
	Dec	64	11.94	82	9.31	116	6.00	95	8.77
1998	Jan	49	8.92	60	6.63	143	6.84	95	8.49
	Feb	51	9.29	63	6.96	121	5.78	89	8.04
	Mar	63	11.47	73	8.07	121	5.74	89	8.04
	Apr	62	11.29	80	8.84	129	6.17	91	8.13
	May	63	11.47	77	8.51	111	5.31	86	7.77
	Jun	66	12.02	79	8.73	110	5.26	90	8.04
	Jul	63	11.47	79	8.73	115	5.50	89	8.04
	Aug	68	12.38	85	9.39	115	5.50	93	8.30
	Sep	52	9.47	63	6.96	101	4.83	77	6.87
	Oct	49	8.92	60	6.63	102	4.88	74	6.60
	Nov	49	8.92	58	6.41	117	5.59	79	7.05
	Dec	47	8.56	59	6.52	118	5.64	82	7.32
1999	Jan	56	9.73	65	6.80	131	5.37	89	9.75
	Feb	57	9.91	65	6.80	138	5.37	83	9.05
	Mar	58	10.08	72	7.53	112	4.59	85	9.38
	Apr	52	9.04	59	6.17	131	5.37	84	9.18
	May	38	6.60	45	4.71	104	4.26	77	8.41
	Jun	43	7.47	49	5.13	107	4.39	72	7.89
	Jul	51	8.86	59	6.17	101	4.14	76	8.27
	Aug	44	7.65	42	4.39	102	4.18	66	7.26
	Sep	48	8.34	50	5.23	102	4.18	70	7.55
	Oct	48	8.34	52	5.44	105	4.31	73	7.82
	Nov	48	8.34	54	5.65	102	4.18	75	8.18
	Dec	49	8.52	54	5.65	123	5.04	83	9.06
2000	Jan	45	7.89	57	6.12	125	5.66	99	10.50
	Feb	48	8.41	61	6.55	140	6.34	102	10.82
	Mar	54	9.47	71	7.63	193	8.74	118	12.52
	Apr	68	11.92	83	8.91	204	9.24	114	12.10
	May	76	13.32	102	10.95	163	7.38	123	13.05
	Jun	84	14.73	113	12.14	223	10.10	141	14.96
	Jul	87	15.25	114	12.24	249	11.28	157	16.66
	Aug	88	15.43	120	12.89	275	12.46	169	17.93
	Sep	104	18.23	150	16.11	201	9.11	159	16.87
	Oct	113	19.81	150	16.11	250	11.33	178	18.89
	Nov	127	22.26	147	15.79	262	11.87	184	19.52
	Dec	133	23.31	178	19.12	318	14.41	205	21.75
2001	Jan	118	20.69	159	17.08	236	10.69	187	20.27
	Feb	90	15.78	109	11.71	202	9.15	151	16.37
	Mar	78	13.67	102	10.95	239	10.83	140	15.18
	Apr	81	14.20	111	11.92	182	8.24	143	15.50
	May	69	12.10	82	8.81	188	8.52	121	13.12
	Jun	64	11.22	74	7.95	174	7.88	102	11.06
	Jul	44	7.71	59	6.34	126	5.71	88	9.54
	Aug	50	8.77	65	6.98	143	6.48	96	10.41
	Sep	56	9.82	70	7.52	122	5.53	93	10.08
	Oct	67	11.75	84	9.02	156	7.07	105	11.38
	Nov	45	7.89	60	6.44	135	6.12	87	9.43
	Dec	38	6.66	48	5.16	131	5.93	77	8.35

Note: The above rates are calculated from all spot fixtures reported during the month for each route.

Sources: Galbraith's Tanker Fixtures Report; OPEC Secretariat.

Crude oil pipelines in OPEC Members, 2001

	Owner or operator	Length (miles)	Diameter (inches)
Algeria			
Haoud el Hamra/Arzew	Sonatrach	498	28
Beni Mansour/Algiers	Sonatrach	81	16
Haoud el Hamra/Bejaia	Sonatrach	411	24
In Amenas/Tunesian border/La Skhirra	Sonatrach	482	24
Ohanet/Haoud el Hamra	Sonatrach	322	30
Hassi R'Mel/Arzew	Sonatrach	2 x 313	26/24
Haoud el Hamra/Skikda	Sonatrach	396	34
Rhourde el Baguel/Haoud el Hamra	Sonatrach	67	14
Haoud el Hamra/Arzew (condensates/LPG)	Sonatrach	497	12/16
In Amenas/Haoud el Hamra	Sonatrach	391	30
Hassi Messaoud/Bejaia	Sonatrach	404	24
Indonesia			
Bangko/Dumai terminal	Caltex	47	30
Ukui field/Buatan Stat	PT Stanvac	65	9
Melahin/SBM operating area	Unocal	2x6	30
Prabumulih/Plaju	Pertamina	57	24
Temano Stanvac area/Plaju	Asamera	2 x 101	8
Jene/Jirak	PT Stanvac	28	8
Handil field/Senipah SBM	Total Indonesia	21	20/26
Bekapai field/Senipah SBM	Total Indonesia	32	12/16
Rama, Seltan, Krisna, Zelda/Cinta Natomas	Maxus	2, 6, 18, 21	18, 16, 20, 18
Zelda field/Pabelokan ISC	Maxus	20	20
Kotabatak & Beruk areas/Minas area	Caltex	12, 50	24, 24
Minas area/Dury tank farm	Caltex	37,23	26, 30, 30
Duri Tank Farm/Dumai tank farm	Caltex	2 x 28	30, 36
Pamusian field/Lingkas tank farm	Tesoro	12	10
Kasim field/Kasim shipping	Petromer Trend	2 x 3	10/18
IR Iran			
Tang-e-Fani/Kermanshah	NIOC	142	16/10
Naftshahr/Kermanshah	NIOC	143	8
Gachsaran/Shiraz	NIOC	143	10
Ahwaz/Rey	NIOC	563	26/30/26
Marun/Isfahan	NIOC	271	32/30
Rey/Tabriz	NIOC	380	16
Mile-40/Abadan	NIOC	63	12/16
Neka/Sari/Rey	NIOC	287	12/16
Ahwaz/Kharg	NIOC	271	12/48
Marun/Kharg	NIOC	103	8/42
Aghajari/Kharg	NIOC	392	12/48
Gachsaran/Kharg	NIOC	454	8/52

Crude oil pipelines in OPEC Members, 2001

	Owner or operator	Length (miles)	Diameter (inches)
Iraq			
Bai-Hassan/Kirkuk	INOC	20	16
K2 PS/Baghdad	INOC	110	12
Fao/Khor al-Amaya	INOC	28	32
Baji-Daura	INOC	197	12
Jambur/Kirkuk	INOC	36	6/8
Rumaila/Zubair/Fao	INOC	2 x 65	24/30/32
Haditha/Rumaila	INOC	2 x 407	18/42
Zubair/Station P3 petroline	INOC	391	48
Naft Khaneh/Daura	INOC	81	12
Kirkuk/Ceyhan/Dortyol (Turkey)	INOC	2 x 652	40
Zubair/Al Muqjez (Saudi Arabia)	INOC/Aramco	1,575	56
Kuwait			
Raudhatain/Ahmadi	KOC	57	2 x 30
Minagish/Ahmadi	KOC	30	22/24/26
Burgan/Ahmadi	KOC	4 x 4.7	20, 20/22, 30/34, 34/36
SP Libyan AJ			
Sarir/Tobruk	Agoco	320	34
Sarir/Messla	Agoco	25	30
Messla/Amal	Agoco	128	42
Hamada/Zawia	Agoco	241	18
Amal/Ras Lanuf	VOO	2 x 170	30/36
Asida/Ras Lanuf	VOO	54	30
Tibisti/Asida jn	VOO	84	24
Zaggut/Es Sider	Waha Oil	166	24
Waha/Zaggut	Waha Oil	27	24
Waha/Samah (loop)	Waha Oil	40	24
South Defa/Waha	Waha Oil	25	30
Gialo/Waha	Waha Oil	94	30
Zaggut/Samah	Waha Oil	22	24
Samha/Dahra	Waha Oil	114	32
Dahra/Bahi jn	Waha Oil	43	30
Bahi/Bahi jn	Waha Oil	29	20
Bahi jn/Es Sider	Waha Oil	2 x 44	30
Nasser/Brega	Waha Oil	107	36
Raguba/km 110	Waha Oil	55	20
Km 91.5/Breg	Waha Oil	57	16
Bu-attifel/Intisar (condensate)	Agip/NOC	83	30
Bu-attifel/Intisar (condensate)	Agip/NOC	83	10
Remal/Bu-aati	Agip/NOC	47	12
103A/Zueitina terminal	ZOC	2 x 137	40, 20
Zella/Hofra	ZOC	70	20

Crude oil pipelines in OPEC Members, 2001

	Owner or operator	Length (miles)	Diameter (inches)
Nigeria			
Escravos/Warri	NNPC	38	24
Warri/Kaduna	NNPC	383	16
Nkpoku/Bomu	Shell	29	24
Apara/Nkpoku	Shell	7	8
Pennington/export terminal	Texaco	31	07/11/30
North Apoi/export berth	Texaco	16	13/30
Funiwa/export terminal	Texaco	16	18/30
Rumuekpe/Bonny terminal	Shell	2 x 67	28, 20/24
Alkiri/Bonny terminal	Shell	21	24
Rumuekpe/Npoku	Shell	22	20
Nembe Creek/Cawthorne channel	Shell	51	24/28
Bonny terminal/offshore platform	Shell	17	48
Kwale/Ogoda	Agip/NNPC	50	10/14
Rumuekpe/Ogoda	Agip/NNPC	14	14
Ogoda/Brass offshore terminal	Agip/NNPC	79	24/36
Azuzuma/Tebidaba	Agip/NNPC	22	12
Clough Creek/Tebidaba	Agip/NNPC	32	10
Tebidaba/Brass Manifold	Agip/NNPC	28	18
Obama/Brass Manifold	Agip/NNPC	16	18
Brass Manifold/Brass offshore terminal	Agip/NNPC	23	24/36
Izombe/Ebocha	Ashland	16	10
Akam/Antan	Ashland	14	10
Adanga	Ashland	7	11
West Isan Malu/Parabe	Gulf	9, 5	16, 12
Parabe & Meji/valve platform	Gulf	28, 10	8, 20
Delta South & Okan/valve platform	Gulf	2, 2	16, 16
Valve Platform/Escravos	Gulf	2 x 7	16, 26
Makarba & Abiteye/Escravos	Gulf	15, 7	16, 26
Escravos/SBM	Gulf	15	26/42
Escravos/Warri	Gulf	60	24
Etim/Idoho	Mobil	16	13/14
Utue Ekpe/Idoho	Mobil	20, 28	16, 16/20
Idoho/Qit	Mobil	13	24
Bogi/Ebughu	Ashland	2 x 1.9	6, 8
Mimbo/Antan terminal	Ashland	2	6
Ukpam/Adanga	Ashland	5	6
Iyakb/Iyaka/Ekua	Mobil	9	13/18
Unamb/Ubit F	Mobil	2	13
Qatar			
Umm Bab/Umm Said	QGPC	67	16/20
Idd El Sha/Halul	QGPC	13	12
Maydan Mah/Halul	QGPC	10	14
Bul Hanin/Halul	QGPC	27	10

Crude oil pipelines in OPEC Members, 2001

	Owner or operator	Length (miles)	Diameter (inches)
Saudi Arabia			
Ain Dar/Abqaiq No 1	Aramco	28	20/22/24
Ain Dar/Abqaiq No 2	Aramco	28	24/26/28
Ain Dar/Ju'aymah No 1	Aramco	73	32/34
Uthmaniyah/Abqaiq	Aramco	128	18/20/24/30/31
Uthmaniyah/Loop Line	Aramco	23	24
Uthmaniyah/Abqaiq No 2	Aramco	33	34/36
Uthmaniyah/Abqaiq No 3	Aramco	15	38/40
Uthmaniyah/Abqaiq No 4	Aramco	60	24/40/42
Khurais/Ain Dar No 1	Aramco	86	16/18
Abqaiq/Qatif junction	Aramco	6 x 44	20/30/40/46
Abqaiq/Dhahran No 1	Aramco	39	12/14
Qaisumah 7/Qatif junction	Aramco	15	46/48
Qaisumah 7/km 50	Aramco	16	46/48
Uthmaniyah/Abqaiq No 6	Aramco	77	46/48
Abqaiq/Dhahran No 2	Aramco	40	14
Qatif Junction/Qaisumah	Aramco	269	30/31
Qatif Junction/Ras Tanura	Aramco	5 x 17	20/34/40/46
Ju'aymah/Ras Tanura No 2	Aramco	12	46/48
Qatif Junction/Ju'aymah No 1	Aramco	13	46/48
Arabian/Bahrain Nos 1-2	Aramco	14	18/20/22
Arabian/Bahrain Nos 3-4	Aramco	2 x 26	12
Safaniyah/Khursaniyah Nos 1-4	Aramco	4 x 66	22, 30/32, 36/38, 40/42
Khursaniyah/Ras Tanura Nos 1-4	Aramco	4 x 65	22, 30, 40/42, 40/42
Berri/Ras Tanura No 1 & No 2	Aramco	2 x 36	16, 40/42
Qaisumah/Sidon (tapline)	Aramco	754	30/31
Riyadh/Khurais	Petromin	87	na
Abqaiq/Yanbu	Petromin	2 x 789	48/56
Abqaiq/Yanbu (condensate)	Petromin	725	24/28
Saudi-Kuwaiti Neutral Zone			
Wafra/Mina Saud	Getty/Texaco/KNPC/Aramco	3 x 22	18/16/10
Wafra/Umm Gudair	Getty/Texaco/KNPC/Aramco	22	16
Submarine gathering line	AOC	25	26
Submarine oil transmission line	AOC	19	24
Tanker loading lines	AOC	10	36/30/26/21
Hout/Ratawi trunk line	AOC	19	24
Hout/Ratawi transmission line	AOC	25	24
Wafra field/Mina Abdullah	KOC	3 x 33	8/24
United Arab Emirates			
Murban/Jabel Dhanna	ADCO	3 x 50	24, 24, 36
Umm Shaif/Das Island	ADMA	22	30
Lower Zakum/Das Island	ADMA	56	30
Upper Zakum/Zirku Island	ZADCO	40	42
Bunduq/Das Island	Government	18	16
Mubarras/Mubarras Island	ADOC	21	24

Crude oil pipelines in OPEC Members, 2001

	Owner or operator	Length (miles)	Diameter (inches)
Venezuela			
Ule (Zulia)/Amuay (Falcon)	PDVSA	117, 143	26
Ule (Zulia)/La Salina (Zulia)	PDVSA	3 x 9	16, 26, 34
Temblador/Caripito (Monagas)	PDVSA	97	23
Morichal/Puerto Ordaz (Bolívar)	PDVSA	44	26
Jusepin/Travieso	PDVSA	2 x 16	20, 26
Palmarejo/Cardon (Falcon)	PDVSA	153	30
Bachaquero/Puerto Miranda (Zulia)	PDVSA	66	30
Mene Grande/Miosa	PDVSA	11	8
Motatan 2 (Zulia)/San Lorenzo (Zulia)	PDVSA	9	12
Camimas/Puerto Miranda (Zulia)	PDVSA	27	34
Barinas/El Palito (Carabobo)	PDVSA	210	20
Guasdalito/Barinas (Barinas)	PDVSA	141	20
Oficina/Puerto La Cruz	PDVSA	97	30
Oficina/Anaco	PDVSA	36	16
Boscan/Bajo Grande	PDVSA	22	26
Puerto Miranda/Cordon (Falcon)	PDVSA	141	30
PT Ancona/Puerto La Cruz	PDVSA	3 x 62	12, 16, 16
Las Palmas/Puerto La Cruz	PDVSA	101	16
Silvester/El Palito	PDVSA	155	20
Travieso/Puerto La Cruz	PDVSA	95	16/26/30

Note: Figures as at year-end.

Source: Direct communications to the Secretariat.

Gas pipelines in OPEC Members, 2001

	Owner or operator	Length (miles)	Diameter (inches)
Algeria			
Hassi R'Mel/Arzew	Sonatrach	316	20/24
Hassi R'Mel/Arzew (GZ1 to GZ3)	Sonatrach	315, 315, 317	40, 40, 42
Hassi R'Mel/Skikda	Sonatrach	356	40
Hassi R'Mel/Tunisian border	Sonatrach	2 x 341	48, 48
Hassi R'Mel/Morrocon border	Sonatrach	329	48
Hassi R'Mel/Issers	Sonatrach	278	42
Alrar/Hassi R'Mel	Sonatrach	597	42/48
Indonesia			
Kes/Gresik	Kodeco	40	14
Serdang/Simpang Y	Pertamina	2 x 27	8, 6
Simpang Y/Plaju	Pertamina	7, 18	6, 8
Mundu/Palimanan	pertamina	20	8
Mundu/Balongan/Cilamaya	Pertamina	11, 58	12, 14
Arjuna/Cilamaya	Pertamina	25	32
Parigi/Cilamaya	Pertamina	13	24
Cilamaya/Cilegon	Pertamina	124	24
Bekapai/Senipah/Handil/Badak	Pertamina	26, 14, 42	12, 8, 20
Badak/LNG Botang	Pertamina	2 x 35	20, 36
Santan/Pupuk Kaltim	Pupuk Kaltim	25	16
Musi/Teras/Rambutani/Betung	Pertamina	23, 14, 12	12, 14, 16
Benuang/Prabumulih	Pertamina	15	20
Arun field/LNG Arun plant	Mobil	2 x 19	42, 16
LNG Arun plant/AAF	Pertamina	5	14
Rantau/Belawan	PNG & PLN	92	6/8/10/12
IR Iran			
Bid Boland/Astara (lgat 1)	NIGC	798	42/40
Bid Boland/Shiraz	NIGC	171	16
Kangan/Ghazvin/Meyaneh/Tabriz (lgat 2)	NIGC	823	56
Tabriz/Bazargan	NIGC	157	40
Khangiran/Mashad	NIGC	77, 83	16, 36
Sarakhs/Neka/Rasht	NIGC	732	36/30
Sarkhun/Bandar Abbas	NIGC	31	22
Qeshm/Bandar Abbas	NIGC	44	12
Sarkhun/Kerman	NIGC	318	24/20
Shiraz/Fasa	NIGC	71	16
Boroujerd/Khoramabad	NIGC	66	16
Mobarakeh/Yazd	NIGC	198	20/24
Kangan/Kazeroon (lgat 3)	NIGC	150	56
Kooh Namak/Tehran	NIGC	2 x 70	30, 36
Saveh/Tehran	NIGC	75, 65	30, 36
Kordkoy/Neka	NIGC	52	30
Tabriz/Meyabdoab	NIGC	95	20
Neizar/Arak	NIGC	121	36
Omideh/Mahshahr	NIGC	44	30
Iraq			
Rumaila/Kuwait	INOC	106	4
Kuwait			
Raudhatain/Ahmadi	KOC	57	30
Magwa/Ahmadi	KOC	10	20/40
Umm Gudair/Shuaiba	KOC	41	10/12
Burghan/Ahmadi	KOC	14	32/40
SP Libyan AJ			
Naser/Brega	Sirte Oil	108	36
Hateiba/Brega	Sirte Oil	69	30
Km 91.5/Brega	Sirte Oil	57	30
Intisar/Sahl/km 81	Sirte Oil	86	30

Gas pipelines in OPEC Members, 2001

	Owner or operator	Length (miles)	Diameter (inches)
SP Libyan AJ (continued)			
Brega/Tripoli	Sirte Oil	489	34
Brega/Nenghazi	Sirte Oil	160	34
Bahi/Dahra	Waha Oil	30	12
South Defa/Naser	Waha Oil	73	24
Faregh/Intisar 103 A	Waha Oil	68	24
Masrab/Gialo	Waha Oil	25	6
Buttifel/Intisar A	Agip/NOC	85	34
Jakhira/103 A	Wintershall	53	20
Messla/Sarir/Gmmra	Agoco	83	20/16
Nigeria			
Sapele/Ajaokuta	NNPC/NGC	27	10/18
Escravos/Lagos	NNPC/NGC	213	36
Oben/Ajaokuta	NNPC/NGC	122	24
Eriemu/Aladja	NNPC/NGC	21	16
Imo River/Aba	NNPC/NGC	7	12
Oben/Sapele	NNPC/NGC	22	18
Obigbo North/Afam	NNPC/NGC	11	16
Bomu/Afam	NNPC/Shell	2 x 6	8, 10
Alakiri/Onne	NNPC/NGC	9	14
Qatar			
North Field/Umm Said NGL plant	QGPC	129	34
Umm Said/Fahahil reinject compress	QGPC	56	20
Umm Said/Point "B" power station	QGPC	28, 29, 29	30, 24, 24
Idd El Sharghi/Umm Said	QGPC	75	24
Fahail/Point "B" plant	QGPC	28	24
Point "B"/Umm Said	QGPC	28	24
Point "B"/power station	QGPC	29	18
United Arab Emirates			
Habshan/Maqta	ADNOC	81	42
Bab/Maqta	ADNOC	83	30
Maqta/Baniyas	ADNOC	11	16
Bab/Ruwais	ADNOC	68	30
Maqta/Taweelah	ADNOC	2 x 33	24, 36
Maqta/Al Ain	ADNOC	100	30
Uan/Mussaffah	ADNOC-FOD	10	8
MP 21/Ruwais	GASCO	41	24
Murgam/Jabel Ali	Dubai government	47	24
Sajaa/Sharjah	Emarat	27	18/6/4
UAN/Mussaffah	ADNOC-FOD	10	8
Venezuela			
Anaco/Puerto Ordaz	PDVSA	325	20/26/36
Anaco/Puerto La Cruz	PDVSA	160	12/16/20/26
Anaco/Barquisimeto	PDVSA	1,349	8/36
Piedritas/Veladero	PDVSA	10	6
El Boquete/San Lorenzo	PDVSA	18	-
Puerto Miranda/La Paz	PDVSA	38	20
Puerto Miranda/Punto Fiso	PDVSA	136	20/22
Casigua/La Fria	PDVSA	47	8
Lama/Bajo Grande	PDVSA	40	14
Pctj-Pagline	PDVSA	57	12
Quiquire/Caripito	PDVSA	12	10/16
Ule/Amuay	PDVSA	294	8/16,20
Bombal/Tucupita	PDVSA	22	9
Oracual & Boqueron/Jusepin	PDVSA	16, 28	8/10,16
Jusepin/La Toscana	PDVSA	12	6
Piedritas/Veladero	PDVSA	10	6

Note: Figures as at year end. Source: Direct communications to the Secretariat.

Product pipelines in OPEC Members, 2001

	Owner or operator	Length (miles)	Diameter (inches)
Algeria			
Houd El Hamra/Hassi R'Mel	Sonatrach	184	12
Hassi R'Mel/Arzew	Sonatrach	316	16
Skikda/Khroub	Naftal	2 x 62	12, 12
Algiers/Chiffa	Naftal	2 x 61	12, 12
Arzew/Oran Petit Lac	Naftal	2 x 23	8, 8
Indonesia			
Cilacap/Padalarang	Pertamina	258	10/16
Cilacap/Ujung Berung	Pertamina	225	10/16
Cilacap/Tasilmalaya	Pertamina	128	10/16
Cilacap/Maos	Pertamina	21	10
Cilacap/Rewulu	Pertamina	258	8/12
TTB/Pumpang	Pertamina	210	16
IR Iran			
Abadan/Ahwaz	NIOC	91,94	16, 12
Mahshahr/Abadan	NIOC	73, 68, 63	13, 26, 16
Ahwaz/Rey	NIOC	469	16/20/16
Ahwaz/Azna/Rey	NIOC	510	10/14/10
Isfahan/Rey	NIOC	2 x 231	18, 24
Arak/Rey	NIOC	160	16/18
Rey/Sari	NIOC	180	16/12
Rey/Kan	NIOC	21	12
Rey/Ghouchak	NIOC	20	12
Rey/Karaj	NIOC	36	8
Rey/Mashad	NIOC	523	20/22
Shahrud/Mashad	NIOC	275	8
Rey/Ghazvin/Rasht	NIOC	197	18/16/14
Rey/Tabriz	NIOC	476	14
Tabriz/Miandoab/Orumie	NIOC	175	10/8
Shahrud/Gorgan/Gonabad	NIOC	74	8/10
Imam-Taghi/Torbat Heidarieh	NIOC	58	8
Arak/Hamedan	NIOC	112	12
Bandar Abbas/Isfahan	NIOC	620	14/16/22
Isfahan/Rafsanjan/Kerman	NIOC	406	16/14
Tang-e-Fani/Kermanshah	NIOC	137	10/16
Shazand/Rey	NIOC	175	10/16
Bandar Anzali/Rasht	NIOC	26	16
Iraq			
Baghdad/Basrah	INOC	2 x 364	8
Kuwait			
Shuaiba/Sabhen	KNPC	2 x 102	8, 10
Sabhen/Shuwaikh	KNPC	49	8
Ahmadi/Airport	KNPC	110	8
SP Libyan AJ			
Zawia/Al-Fatah	Brega Marketing	34	8, 10
Zawia/Zanzur	Brega Marketing	20	8

Product pipelines in OPEC Members, 2001

	Owner or operator	Length (miles)	Diameter (inches)
Nigeria			
System 2A:			
Warri/Benin/Ore/Mosimi	NNPC/PPMC	219	16/14/12
Benin/Auchi	NNPC/PPMC	104	8
System 2B:			
Atlas Cove/Mosimi	NNPC/PPMC	46	16
Mosimi/Ibadan	NNPC/PPMC	49	12
Mosimi/Ilorin	NNPC/PPMC	105	6
Mosimi/Ikeja	NNPC/PPMC	31	8
System 2D:			
Kaduna/Kanol/Gusau	NNPC/PPMC	223	10/6
Kaduna/Jos/Gombe-Maiduguri	NNPC/PPMC	452	10/12/6/8
System 2E:			
Port Harcourt/Enugu/Makurdi	NNPC/PPMC	657	20/6/8
Enugu/Auchi	NNPC/PPMC	99	12
United Arab Emirates			
UAN Refinery/Al Ain	ADNOC-FOD	104	12
UAN Refinery/Abu Dhabi airport	ADNOC-FOD	11	10
UAN Refinery/Mussaffah	ADNOC-FOD	2 x 10	8, 12
Venezuela			
Puerto Ordaz/Morichal	PDVSA	43	10
Carenero/Guatire	PDVSA	45	16
Catia La Mar/Cantinas	PDVSA	2 x 10	8, 10
Catia La Mar/Maiquetia	PDVSA	2x2	8
La Paz/El Comejen No 1 & 2	PDVSA	2 x 24	4, 4
Bajo Grande/San Lorenzo	PDVSA	70	12
San Lorenzo/El Vigia	PDVSA	104	12
La Paz/Bajo Grande	PDVSA	39	3
Bajo Grande/El Tablazo	PDVSA	96	4
El Palito/Yagua	PDVSA	29	16
El Palito/Barquismeto	PDVSA	94	12
San Juequin/Jose	PDVSA	70	16, 22
Santa Rosa/Puerto La Cruz	PDVSA	62	6
Complejo/Puerto La Cruz	PDVSA	41	6/8/12/26
Puerto La Cruz/San Tome	PDVSA	100	16
San Tome/Puerto Ordaz	PDVSA	124	12
Puerto Ordaz/Ciudad Bolivar	PDVSA	44	8

Notes: Figures as at year-end.

Source: Direct communications to the Secretariat.

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Spot OPEC Reference Basket prices, 1992–2001 (\$/b)

	Algeria Saharan Blend	Indonesia Minas	Nigeria Bonny Light	S. Arabia Arab Light	UAE Dubai	Venezuela TJ Light	Mexico Isthmus	OPEC Ref. Basket
1992	20.03	19.24	19.95	17.94	17.21	16.67	18.05	18.44
1993	17.50	17.89	17.57	15.68	14.93	14.79	15.92	16.33
1994	16.19	16.21	16.21	15.39	14.74	14.58	15.36	15.53
1995	17.40	17.64	17.34	16.73	16.10	16.08	16.73	16.86
1996	21.33	20.70	21.24	19.91	18.58	19.63	20.65	20.29
1997	19.62	19.26	19.40	18.71	18.10	17.38	18.26	18.68
1998	13.02	12.31	12.77	12.20	12.15	11.44	12.08	12.28
1999	18.12	17.84	18.07	17.45	17.24	16.31	17.29	17.47
2000	28.77	28.74	28.49	26.81	26.25	26.31	27.80	27.60
2001	24.74	24.11	24.50	23.06	22.83	20.35	22.22	23.12
1999 Jan	11.57	11.03	11.33	10.43	10.70	9.70	10.21	10.71
Feb	10.41	10.66	10.24	10.05	10.03	8.84	9.51	9.96
Mar	12.73	12.51	12.56	12.11	12.39	11.32	12.30	12.27
Apr	15.10	15.70	15.44	14.92	14.90	13.82	15.10	15.00
May	15.23	16.79	15.45	15.60	15.46	14.44	15.40	15.48
Jun	15.78	16.76	15.86	15.41	15.46	14.54	15.48	15.61
Jul	19.40	18.38	19.28	17.85	17.90	16.97	18.23	18.28
Aug	20.52	19.63	20.44	19.58	19.45	18.45	19.58	19.66
Sep	22.86	21.99	22.90	22.35	22.08	20.95	22.10	22.17
Oct	22.27	22.36	22.30	22.18	21.48	20.16	20.96	21.67
Nov	25.05	23.70	24.80	23.66	23.08	22.50	23.45	23.75
Dec	26.13	24.27	25.86	25.04	23.65	23.61	24.79	24.77
2000 Jan	25.89	24.39	25.41	24.43	23.23	23.74	24.97	24.58
Feb	28.74	26.48	28.36	25.85	24.77	26.08	27.62	26.84
Mar	27.65	27.39	27.54	26.02	24.99	25.89	27.51	26.71
Apr	22.91	24.15	22.91	22.95	22.14	22.16	23.31	22.93
May	28.02	28.26	27.87	26.27	25.69	25.50	26.95	26.94
Jun	29.94	31.30	29.86	28.09	27.24	27.99	29.45	29.12
Jul	28.76	30.44	28.75	27.19	26.35	26.32	27.74	27.94
Aug	29.25	30.33	29.06	27.12	26.79	26.84	28.75	28.30
Sep	33.18	33.36	32.65	30.60	30.05	29.33	31.19	31.48
Oct	31.19	32.30	30.67	30.17	30.57	28.34	29.73	30.42
Nov	33.06	31.07	32.86	29.81	30.25	30.01	31.47	31.22
Dec	26.11	24.87	25.47	22.65	22.27	23.11	24.40	24.13
2001 Jan	26.08	24.03	25.43	22.31	22.56	23.18	24.80	24.06
Feb	27.80	25.62	27.40	24.82	24.79	22.79	24.63	25.41
Mar	24.82	25.64	24.35	23.77	23.67	21.08	22.60	23.70
Apr	25.65	27.64	25.43	24.24	24.06	20.79	22.86	24.38
May	28.47	28.21	28.51	25.77	25.40	22.77	24.62	26.25
Jun	28.16	27.86	28.06	26.17	25.86	22.30	24.25	26.10
Jul	24.82	25.32	24.81	24.03	23.45	20.55	22.67	23.73
Aug	25.96	24.82	25.41	24.92	24.70	21.54	23.86	24.46
Sep	26.13	24.59	25.98	24.73	24.37	20.72	23.49	24.29
Oct	20.65	19.53	20.60	20.16	19.93	17.66	18.94	19.64
Nov	19.00	18.29	18.92	17.82	17.62	15.28	16.61	17.65
Dec	19.08	17.64	18.78	17.99	17.60	14.89	16.73	17.53

Notes: The numbers below the crude names show the API gravities and percentage of sulphur by weight. Prices are averages of weekly fob quotations.

Sources: Secretariat's assessments; Reuters; Platt's Oilgram.

Spot crude oil prices, 1992–2001 (\$/b)

		Algeria	Indonesia	IR Iran		Iraq		Kuwait	SP Libyan AJ
		Zarzaitine	Attaka	Iran Light	Iran Heavy	Basrah	Kirkuk	Kuwait Exp.	Brega
1992		19.75	20.48	17.77	16.72	na	na	na	19.54
1993		17.39	18.12	15.06	14.08	na	na	14.07	17.08
1994		16.05	16.46	14.84	14.56	na	na	14.11	15.88
1995		17.33	17.84	16.17	16.26	na	na	15.90	17.21
1996		21.32	21.52	19.03	18.49	na	na	18.41	21.06
1997		19.57	20.34	18.24	18.00	na	na	17.81	19.36
1998		12.96	13.53	11.97	11.45	10.77	10.79	11.26	12.90
1999		18.15	17.94	17.25	16.93	16.28	16.43	16.75	18.08
2000		28.82	29.54	26.75	26.02	24.92	25.17	25.78	28.65
2001		24.86	26.30	22.90	21.67	20.00	20.07	21.37	24.70
1999	Jan	11.48	12.01	10.25	9.97	8.88	9.18	9.78	11.37
	Feb	10.33	11.35	9.80	9.54	8.96	9.02	9.35	10.21
	Mar	12.66	13.39	11.99	11.77	11.84	11.89	11.54	12.72
	Apr	15.17	16.18	14.67	14.32	14.04	14.26	14.17	15.17
	May	15.26	16.16	15.37	15.05	14.22	13.92	14.82	15.30
	Jun	15.74	16.47	15.24	14.98	15.05	14.92	14.73	15.80
	Jul	19.32	18.49	17.65	17.30	16.92	17.17	17.10	19.23
	Aug	20.58	20.76	19.31	18.96	18.45	18.63	18.76	20.53
	Sep	23.06	23.42	22.12	21.77	20.77	21.16	21.65	22.93
	Oct	22.33	23.21	22.03	21.68	20.55	20.35	21.53	22.21
	Nov	25.10	23.55	23.51	23.26	22.65	23.11	23.13	24.92
	Dec	26.42	24.28	24.81	24.32	23.11	23.53	24.20	26.23
2000	Jan	25.99	24.80	24.35	23.88	24.30	24.61	23.70	25.32
	Feb	28.76	27.05	25.70	25.04	25.73	26.62	24.84	28.59
	Mar	27.63	28.41	25.87	25.20	24.36	25.05	25.07	27.71
	Apr	23.02	25.43	22.86	22.50	22.15	21.07	22.29	22.86
	May	27.99	28.39	26.10	25.80	24.98	25.48	25.60	27.84
	Jun	29.98	30.07	27.99	27.64	25.88	26.84	27.44	30.14
	Jul	28.84	30.67	27.09	26.67	24.48	23.50	26.39	29.36
	Aug	29.33	31.80	27.12	26.51	26.42	26.16	26.21	29.44
	Sep	33.28	34.38	30.45	29.35	27.43	27.86	29.05	32.64
	Oct	31.30	33.23	30.42	29.17	27.37	26.75	28.87	30.98
	Nov	33.48	31.79	29.75	28.50	26.63	27.89	28.20	32.99
	Dec	25.72	26.85	22.66	21.41	19.32	20.28	21.11	25.40
2001	Jan	26.41	26.30	22.63	21.38	20.59	21.77	21.08	25.93
	Feb	27.71	na	24.65	23.40	21.57	21.72	23.10	27.79
	Mar	24.81	na	23.58	22.33	20.26	19.21	22.03	24.69
	Apr	25.87	na	24.05	22.80	21.32	20.90	22.50	25.54
	May	28.86	na	25.58	24.33	22.47	23.10	24.03	28.85
	Jun	28.06	na	25.80	24.55	22.31	21.83	24.25	28.18
	Jul	24.91	na	23.78	22.73	21.21	20.81	22.47	24.96
	Aug	25.92	na	24.68	23.43	22.29	22.30	23.13	25.73
	Sep	26.10	na	24.54	23.29	20.66	21.20	22.99	25.91
	Oct	20.80	na	20.04	18.79	17.04	17.23	18.49	20.62
	Nov	19.25	na	17.64	16.39	14.73	15.33	16.09	19.00
	Dec	19.27	na	17.69	16.44	15.60	15.43	16.14	18.81

Notes: The numbers below the crude names show the API gravities and percentage of sulphur by weight. Prices are averages of weekly fob quotations. As of December 1996, prices of both Iraqi crudes are formula-based average quotations; Basrah fob and Kirkuk ex-Ceyhan.

Sources: Reuters; Platt's Oilgram; PIW; Secretariat's assessments.

Spot crude oil prices, 1992–2001 (\$/b)

	Nigeria	Qatar	Saudi Arabia		UAE	Venezuela	Angola	Ecuador
	Forcados	Dukhan	A. Medium	Arab Heavy	Murban	TJ Medium	Cabinda	Oriente
1992	19.61	18.49	16.40	15.22	18.86	15.83	na	18.21
1993	17.44	16.21	14.19	13.03	16.90	16.03	15.74	16.00
1994	16.20	15.82	14.41	13.65	16.21	14.32	14.96	15.41
1995	17.26	16.73	16.09	15.58	17.18	14.34	16.36	16.88
1996	21.21	19.46	19.01	18.44	20.30	15.91	19.99	20.34
1997	19.29	18.99	17.97	17.17	19.59	19.48	18.06	17.42
1998	12.62	12.55	11.53	10.90	12.67	na	11.83	11.17
1999	17.93	17.65	16.95	16.44	17.89	na	16.88	16.95
2000	28.40	26.95	25.99	25.24	27.75	na	27.32	27.37
2001	24.24	23.74	22.60	21.90	24.02	na	22.83	21.78
1999 Jan	11.13	10.96	9.98	9.53	10.86	na	10.61	9.53
Feb	10.11	10.44	9.65	9.20	10.24	na	9.66	9.31
Mar	12.30	12.59	11.76	11.31	12.62	na	11.88	12.17
Apr	15.20	15.24	14.37	13.72	15.21	na	14.82	14.83
May	15.39	15.82	15.15	14.60	15.94	na	14.89	15.11
Jun	15.68	15.76	14.96	14.51	15.96	na	15.29	15.14
Jul	19.18	18.34	17.30	16.80	18.35	na	18.64	17.66
Aug	20.32	19.98	19.04	18.45	20.06	na	19.79	19.16
Sep	22.84	22.51	21.85	21.30	22.85	na	22.12	22.34
Oct	22.16	22.00	21.68	21.03	22.63	na	21.21	21.04
Nov	24.76	23.70	23.26	22.81	24.36	na	23.57	22.97
Dec	25.82	24.13	24.07	23.70	25.19	na	25.23	23.78
2000 Jan	25.40	24.55	23.83	23.08	24.97	na	24.54	25.69
Feb	28.29	25.79	24.90	24.00	26.58	na	27.31	27.00
Mar	27.44	25.93	25.27	24.52	26.71	na	26.52	27.21
Apr	22.86	23.20	22.50	22.00	23.83	na	21.90	22.42
May	27.74	26.06	25.77	25.27	27.23	na	27.05	26.82
Jun	29.74	28.09	27.59	27.09	28.79	na	29.12	29.05
Jul	28.53	27.08	26.59	25.99	27.79	na	27.91	27.34
Aug	28.72	27.64	26.32	25.52	28.26	na	28.14	27.70
Sep	32.69	31.05	29.20	28.00	31.70	na	30.71	30.85
Oct	30.67	30.20	29.00	28.21	31.37	na	28.56	29.89
Nov	32.78	29.94	29.14	27.94	30.53	na	30.95	31.40
Dec	25.53	23.44	21.28	20.83	24.64	na	23.30	22.52
2001 Jan	25.30	23.61	21.83	20.74	24.24	na	23.02	22.78
Feb	27.03	25.66	24.56	23.32	25.90	na	25.34	24.29
Mar	23.70	24.24	23.24	22.57	24.58	na	22.83	23.10
Apr	24.82	24.87	23.89	23.15	25.15	na	23.81	23.86
May	28.02	26.82	25.52	24.60	26.80	na	27.12	25.01
Jun	27.80	26.68	25.61	24.88	26.90	na	26.70	24.02
Jul	24.46	24.63	23.30	22.61	24.92	na	23.26	23.26
Aug	25.49	25.39	24.28	23.77	25.58	na	24.01	22.93
Sep	25.78	25.31	24.15	23.63	25.54	na	24.51	21.99
Oct	20.55	20.52	19.63	19.36	20.90	na	18.69	18.18
Nov	18.87	18.29	17.35	17.00	18.62	na	17.11	15.89
Dec	18.71	18.74	17.81	17.21	18.92	na	17.34	15.46

Notes: The numbers below the crude names show the API gravities and percentage of sulphur by weight. Prices are averages of weekly fob quotations, except Oriente which is delivery to US Gulf. TJ Medium quotations are posted prices.

Sources: Reuters; Platt's Oilgram; Secretariat's assessments.

Spot crude oil prices, 1992–2001 (\$/b)

	Gabon Mandji	Oman Oman	Egypt Suez Blend	UK		Norway		Mexico Maya	
				Brent	Forties	Ekofisk	Oseberg		
1992	16.89	17.72	16.50	19.33	19.43	19.55	19.40	13.33	
1993	14.67	15.77	13.82	17.00	16.98	17.18	17.06	12.00	
1994	14.17	15.12	13.89	15.80	15.79	15.89	15.89	12.42	
1995	15.61	16.34	15.57	17.01	17.15	17.19	17.17	14.42	
1996	19.26	19.12	18.66	20.70	21.05	21.06	21.09	17.37	
1997	16.63	18.52	16.91	19.06	19.33	19.22	19.22	14.89	
1998	10.65	12.06	10.42	12.71	12.79	12.71	12.84	8.72	
1999	16.53	17.27	16.19	17.91	18.02	17.93	17.56	14.52	
2000	26.15	26.50	25.16	28.44	28.61	28.42	28.78	22.87	
2001	21.62	22.75	21.09	24.46	24.60	24.39	24.54	17.31	
1999	Jan	9.77	10.45	9.84	11.08	11.29	11.31	11.45	7.68
	Feb	8.40	9.96	9.00	10.25	10.18	10.23	10.38	7.27
	Mar	11.06	12.13	11.14	12.51	12.53	12.53	12.60	10.13
	Apr	13.86	14.83	13.61	15.24	15.23	15.18	15.28	12.69
	May	13.96	15.43	13.58	15.41	15.24	15.16	15.26	12.77
	Jun	14.39	15.36	13.82	15.76	15.84	15.66	15.80	13.11
	Jul	17.92	17.99	17.38	19.10	19.36	19.29	19.28	15.40
	Aug	19.02	19.60	18.52	20.24	20.33	20.21	20.37	17.32
	Sep	21.41	22.11	20.63	22.66	22.74	22.58	22.71	19.40
	Oct	20.49	21.49	19.89	22.04	22.15	21.93	22.18	18.17
	Nov	23.19	23.23	22.70	24.62	24.90	24.79	24.54	19.61
	Dec	24.51	24.34	23.87	25.63	26.04	25.92	26.18	20.20
2000	Jan	24.04	24.14	23.33	25.26	25.64	25.53	25.64	21.14
	Feb	26.69	25.42	26.16	27.99	28.53	28.47	28.59	23.52
	Mar	25.06	25.55	24.68	27.14	27.33	27.29	27.48	23.50
	Apr	20.13	22.75	19.90	22.66	22.88	22.74	22.79	20.11
	May	25.07	25.65	25.03	27.60	28.04	27.91	27.96	23.06
	Jun	27.27	27.74	26.64	29.74	29.89	29.85	29.86	24.88
	Jul	26.43	26.83	24.24	28.96	28.51	28.44	28.67	23.09
	Aug	27.18	27.24	26.24	29.74	28.79	28.57	29.02	23.50
	Sep	30.38	30.55	28.59	32.94	33.03	32.75	33.03	26.20
	Oct	28.30	29.88	26.18	30.86	31.29	30.77	31.35	24.31
	Nov	30.09	28.97	29.06	32.67	33.07	32.66	33.21	23.38
	Dec	22.49	22.76	21.11	25.07	25.76	25.50	25.88	17.09
2001	Jan	22.96	22.43	22.09	25.60	25.79	25.51	25.69	18.44
	Feb	24.41	24.29	22.61	27.30	27.80	27.49	27.59	19.03
	Mar	21.53	23.26	19.73	24.42	24.51	24.34	24.46	16.74
	Apr	22.48	23.82	21.58	25.37	25.47	25.38	25.43	15.89
	May	25.46	25.55	24.56	28.35	28.55	28.45	28.35	17.99
	Jun	25.08	25.53	23.83	27.96	27.95	27.59	27.95	19.19
	Jul	21.76	23.61	21.37	24.66	24.75	24.55	24.74	18.53
	Aug	22.90	24.44	22.48	25.78	25.93	25.70	25.87	19.65
	Sep	22.95	24.49	23.11	25.84	25.88	25.73	25.84	20.19
	Oct	17.69	19.93	17.75	20.54	20.60	20.35	20.62	15.19
	Nov	16.03	17.67	16.09	18.80	18.98	18.70	18.95	12.84
	Dec	15.84	17.87	16.68	18.58	18.69	18.51	18.69	13.35

Notes: The numbers below the crude names show the API gravities and percentage of sulphur by weight. Prices are averages of weekly fob quotations. Brent prices reflect 'dated' delivery.

Source: Reuters, Platt's Oilgram, Secretariat's assessments.

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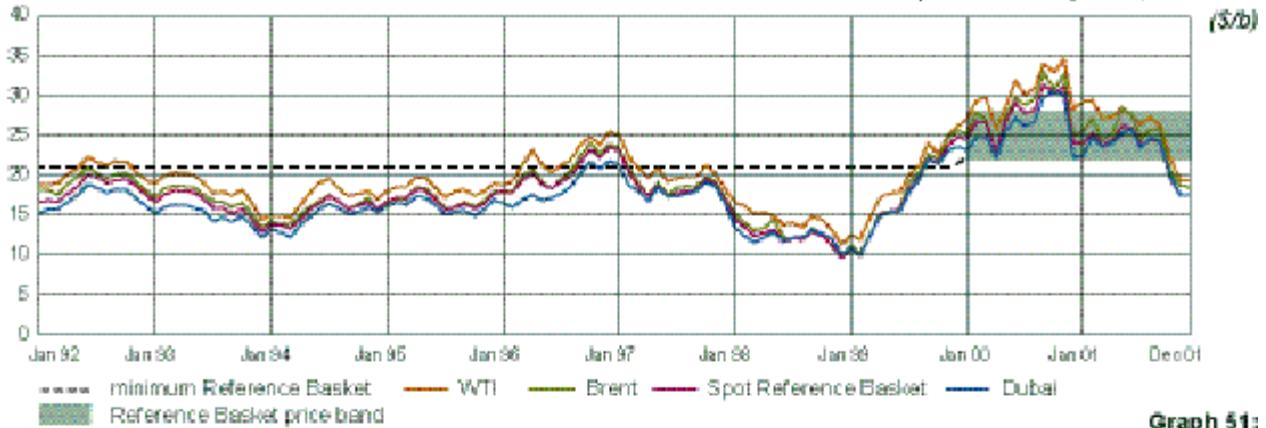
Spot crude oil prices, 1992–2001 (\$/b)

	China	Malaysia	Australia	Colombia	USA	Russia			
	Daqing	Tapis	Miri	Gippsland	Cano Limon	WTI	ANS	Urals	
1992	19.01	20.77	20.47	20.21	18.56	20.58	18.16	18.10	
1993	17.54	18.85	18.64	17.66	16.56	18.45	16.37	15.39	
1994	15.59	17.14	17.01	16.10	16.05	17.19	15.73	15.19	
1995	17.59	18.29	18.23	17.33	17.58	18.42	17.18	16.62	
1996	20.81	22.01	21.98	21.03	21.62	22.20	20.53	20.11	
1997	19.33	20.92	20.99	19.85	19.27	20.56	18.93	18.28	
1998	12.34	13.81	13.93	13.33	12.69	14.36	12.50	11.78	
1999	17.76	18.90	18.30	18.50	17.95	19.30	17.77	17.24	
2000	28.74	29.74	29.50	29.40	28.57	30.37	28.40	26.58	
2001	24.78	25.44	0.00	25.22	22.82	26.00	23.34	22.97	
1999	Jan	10.89	12.43	12.43	11.89	10.91	12.41	10.63	10.85
	Feb	10.50	11.37	11.37	11.04	10.56	11.96	10.39	9.43
	Mar	12.29	13.61	13.57	13.13	13.12	14.64	13.05	11.76
	Apr	15.48	16.24	16.09	15.71	15.73	17.25	15.56	14.15
	May	16.55	16.73	16.60	16.38	15.73	17.83	15.96	14.23
	Jun	16.53	17.03	17.01	16.48	15.67	17.87	15.81	14.76
	Jul	18.44	19.65	19.60	19.05	18.33	20.08	18.15	18.60
	Aug	19.54	21.72	21.72	21.44	20.05	21.20	20.01	19.77
	Sep	22.03	23.88	23.88	23.61	23.09	24.04	23.13	21.96
	Oct	22.56	23.64	23.62	23.43	21.89	22.73	21.88	21.33
	Nov	23.92	24.76	24.06	24.57	24.34	24.99	23.65	24.17
	Dec	24.14	25.30	25.30	24.86	25.63	26.21	24.66	25.44
2000	Jan	24.35	25.46	25.44	25.18	26.54	27.15	25.61	24.83
	Feb	26.53	27.56	27.59	27.23	28.51	29.44	27.72	27.52
	Mar	27.44	28.52	28.53	28.00	28.88	29.85	27.96	25.60
	Apr	24.25	25.37	25.47	24.84	24.01	25.81	23.86	21.20
	May	28.40	28.66	28.67	28.29	26.97	28.78	27.08	26.35
	Jun	31.36	30.47	30.47	30.11	30.68	31.93	29.68	27.39
	Jul	30.48	30.88	30.88	30.40	28.91	30.19	28.09	24.75
	Aug	30.37	31.87	31.82	31.32	29.06	31.04	29.10	27.00
	Sep	33.34	34.57	34.51	34.10	31.95	34.05	32.44	30.30
	Oct	31.91	32.58	31.85	32.61	31.14	33.00	31.54	28.04
	Nov	30.97	32.73	na	32.75	32.70	34.65	33.05	31.23
	Dec	24.92	27.75	na	27.58	23.13	28.39	24.17	24.06
2001	Jan	24.12	26.16	na	25.85	26.53	29.42	24.40	24.40
	Feb	27.98	27.99	na	27.91	26.42	29.48	26.03	24.78
	Mar	na	26.90	na	26.90	23.59	27.27	24.84	21.72
	Apr	na	27.84	na	27.59	23.12	27.37	25.60	23.60
	May	na	28.94	na	28.74	24.59	28.60	26.75	26.46
	Jun	na	28.29	na	28.09	25.43	27.67	25.78	25.60
	Jul	na	26.11	na	25.02	23.58	26.53	24.58	23.08
	Aug	na	25.70	na	25.00	24.49	27.41	24.40	24.46
	Sep	na	26.00	na	25.83	23.58	26.40	23.45	25.05
	Oct	na	21.68	na	21.42	19.04	22.20	19.61	19.80
	Nov	na	19.94	na	19.67	15.59	19.49	17.32	17.83
	Dec	na	19.43	na	19.25	17.21	19.40	16.89	18.37

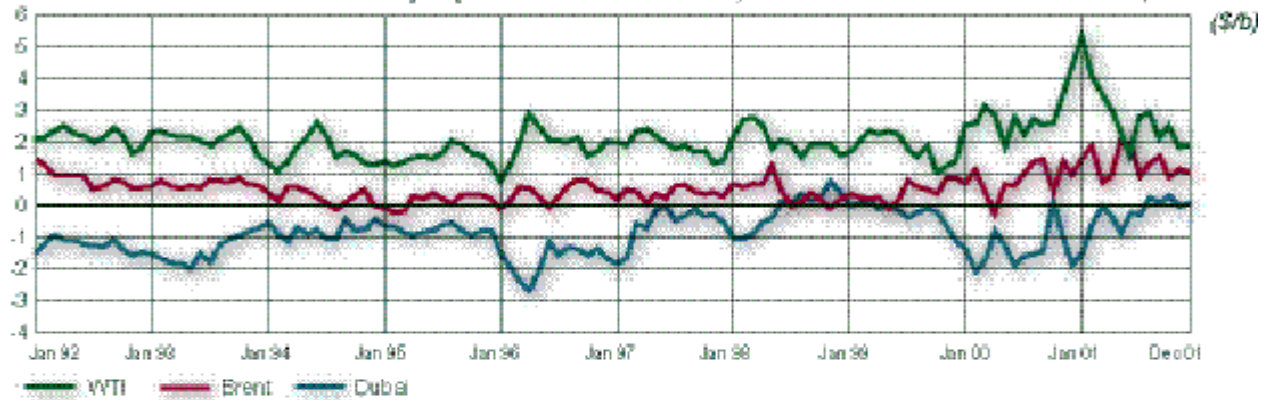
Notes: The numbers below the crude names show the API gravities and percentage of sulphur by weight. Prices are averages of weekly fob quotations, except for Alaska North Slope (ANS), Cano Limon delivery to US Gulf and Urals to Mediterranean.

Source: Reuters; Platt's Oilgram; Secretariat's assessments.

Graph 50:
OPEC Reference Basket and other spot crude oil prices, 1992-01 (\$/b)



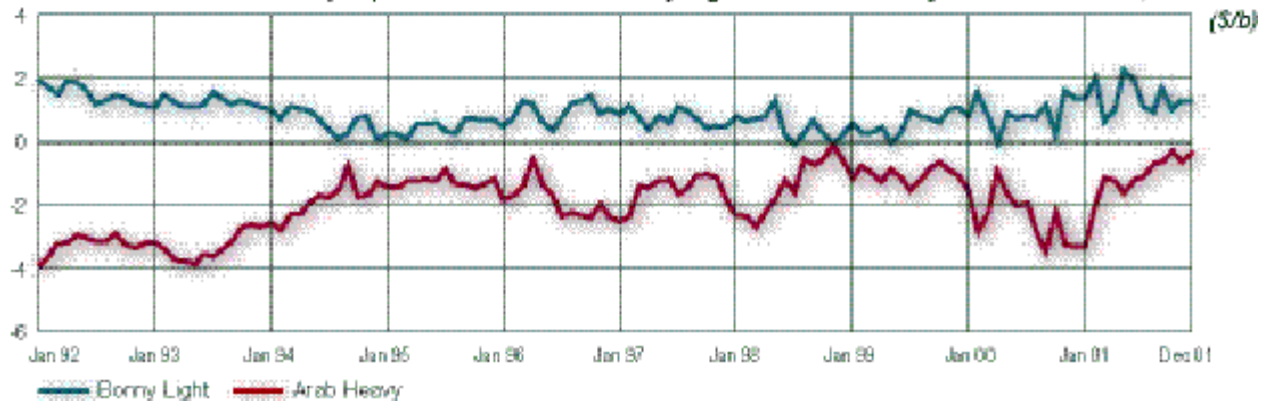
Graph 51:
Spot price differences of WTI, Brent and Dubai to OPEC Basket, 1992-01 (\$/b)



Graph 52:
Spot prices of Bonny Light and Arab Heavy, 1992-01 (\$/b)



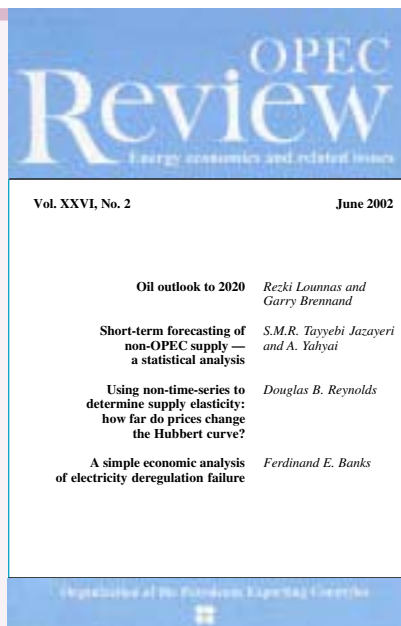
Graph 53:
Spot price differences of Bonny Light and Arab Heavy to OPEC Basket, 1992-01 (\$/b)



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“The principal objective of the OPEC Review is to broaden awareness of (energy and related) issues, enhancing scholarship in universities, research institutes and other centres of learning.”

Crude oil prices in nominal and real terms, 1970–2001 (\$/b)

	Nominal oil price ¹	Nominal price adjusted for:		
		Exchange rates ²	Inflation ³	Combined ⁴
1970	1.67	1.97	2.02	2.38
1971	2.03	2.35	2.32	2.68
1972	2.29	2.47	2.49	2.68
1973	3.05	3.05	3.05	3.05
1974	10.73	11.06	9.39	9.68
1975	10.73	10.86	8.37	8.47
1976	11.51	12.57	8.18	8.93
1977	12.39	13.41	8.01	8.67
1978	12.70	12.60	7.64	7.58
1979	17.25	16.48	9.45	9.04
1980	28.64	27.33	13.89	13.26
1981	32.51	35.66	14.18	15.55
1982	32.38	39.76	12.97	15.93
1983	29.04	38.79	10.90	14.57
1984	28.20	41.44	9.97	14.66
1985	27.01	41.16	9.06	13.80
1986	13.53	16.94	4.40	5.50
1987	17.73	19.88	5.57	6.25
1988	14.24	15.54	4.32	4.72
1989	17.31	19.87	5.00	5.74
1990	22.26	23.38	6.07	6.38
1991	18.62	19.84	4.85	5.16
1992	18.44	19.24	4.62	4.82
1993	16.33	18.88	3.96	4.58
1994	15.53	17.90	3.66	4.22
1995	16.86	18.63	3.85	4.26
1996	20.29	22.60	4.51	5.03
1997	18.68	22.33	4.06	4.86
1998	12.28	14.91	2.63	3.19
1999	17.47	21.67	3.68	4.57
2000	27.60	37.76	5.67	7.76
2001	23.12	32.65	4.64	6.56

Notes: Base: 1973 = 100.

1. From 1970 to 1981, the Arab Light official price. As of 1982, the OPEC spot Reference Basket price.
2. Based on weighted average index of currency exchange rates of the countries set forth in the modified Geneva I Agreement and the US vis-à-vis dollar (weights: OPEC imports from modified Geneva I countries and US).
3. Based on weighted average consumer price indices of modified Geneva I countries and US (weights: private consumption of modified Geneva I countries and US).
4. Based on combined indices of exchange rates and inflation.

Sources: IMF, *International Financial Statistics*, *Direction of Trade Statistics*; National Westminster Bank.

Spot refined products prices in major markets, 1992–2001 (\$/b)

		US Gulf			Singapore			Rotterdam		
		gasoline	gasoil	fuel oil	gasoline	gasoil	fuel oil	gasoline	gasoil	fuel oil
		reg unl 87	0.2% sulphur	3.0% sulphur	prem 0.15g/l	0.5% sulphur	380 CST	prem 0.15g/l	0.2% sulphur	3.5% sulphur
1992		24.14	23.17	11.51	26.58	25.14	12.25	24.54	23.36	12.30
1993		21.27	21.25	10.25	24.01	24.01	10.54	21.75	21.92	9.73
1994		19.99	19.44	11.71	21.09	20.86	12.07	19.56	19.51	12.41
1995		21.31	19.95	13.77	22.10	21.64	13.99	20.60	20.17	14.14
1996		25.13	24.77	15.58	23.58	27.07	15.53	23.72	25.48	15.52
1997		24.78	22.72	14.42	24.55	24.24	14.73	23.63	23.02	13.92
1998		17.57	16.04	9.69	17.19	15.46	9.86	17.25	15.94	9.71
1999		22.00	19.77	14.28	21.02	19.13	14.76	21.50	19.74	13.73
2000		35.10	34.04	20.77	32.55	32.46	23.04	35.16	33.76	20.47
2001		31.02	29.04	17.18	27.47	27.30	19.42	29.29	28.77	17.08
1999	Jan	13.95	13.22	8.25	14.15	14.66	9.40	13.45	13.23	9.30
	Feb	12.99	12.09	7.55	13.85	12.32	8.24	13.05	12.75	8.29
	Mar	17.87	15.38	10.13	15.79	14.10	9.57	15.36	15.61	9.11
	Apr	21.17	17.27	12.83	19.74	16.73	11.71	18.93	17.10	10.61
	May	20.42	16.87	12.73	18.58	16.99	12.48	18.93	16.01	10.42
	Jun	20.59	17.54	13.40	18.49	17.19	12.49	19.14	16.58	12.03
	Jul	23.91	20.38	15.09	22.63	19.22	14.46	22.69	19.97	14.05
	Aug	25.60	22.55	17.70	25.99	21.30	17.27	26.39	22.22	16.76
	Sep	27.28	24.62	19.05	26.86	23.04	18.83	26.75	24.29	17.53
	Oct	24.97	23.85	18.46	24.78	23.60	20.46	26.61	24.21	18.78
	Nov	27.73	26.26	18.22	25.88	24.74	21.19	27.72	26.77	19.15
	Dec	27.56	27.22	17.92	25.46	25.63	20.98	28.93	28.18	18.67
2000	Jan	29.39	30.38	19.22	28.36	28.14	19.95	28.23	28.96	18.83
	Feb	34.41	31.72	20.95	31.16	29.90	21.15	32.32	29.85	19.81
	Mar	36.21	30.59	21.61	32.58	32.94	24.69	36.27	30.28	22.12
	Apr	30.96	29.00	18.78	28.01	26.73	22.39	33.42	28.23	18.12
	May	37.42	30.76	21.27	31.90	28.12	23.60	38.99	29.87	18.70
	Jun	40.83	32.06	22.74	33.08	30.69	25.31	44.28	31.40	21.23
	Jul	34.97	32.25	20.48	36.05	31.86	22.09	37.67	33.02	19.79
	Aug	35.69	36.55	20.28	38.31	37.46	21.64	36.20	36.45	19.69
	Sep	38.10	40.80	23.60	35.05	40.13	24.87	37.70	42.09	23.04
	Oct	36.98	39.55	23.10	33.09	39.02	26.53	35.31	40.06	23.82
	Nov	35.99	40.54	20.81	32.97	34.85	24.49	33.46	40.68	22.18
	Dec	30.25	34.32	16.44	29.97	29.61	19.74	28.05	34.25	18.31
2001	Jan	36.34	35.86	18.57	30.02	28.41	17.99	29.85	30.15	15.48
	Feb	34.28	32.32	20.62	31.33	27.57	19.69	32.49	30.88	18.21
	Mar	32.38	29.03	18.63	29.88	26.83	20.04	31.52	29.38	17.58
	Apr	42.03	30.93	15.19	32.76	29.80	20.47	37.57	30.37	17.05
	May	38.82	31.67	16.80	32.64	30.79	22.07	39.09	31.18	18.21
	Jun	30.48	31.23	17.59	26.89	30.00	20.16	31.73	31.06	17.97
	Jul	28.21	28.59	17.40	24.36	28.54	19.19	27.86	29.33	17.19
	Aug	32.77	30.19	17.67	26.68	28.71	20.94	29.01	30.18	18.40
	Sep	31.01	30.14	19.79	29.47	29.44	21.85	29.54	30.87	19.23
	Oct	23.63	25.42	15.59	22.23	25.53	18.72	23.50	27.41	16.07
	Nov	20.99	22.13	13.62	20.75	21.87	15.46	20.20	23.03	14.67
	Dec	21.35	21.02	14.68	22.61	20.11	16.44	19.16	21.35	14.95

Notes: US Gulf and Singapore prices apply to cargo, Rotterdam prices to barge size lots. Gasoline specification in Singapore is 97 research octane number with 0.15 gram lead per litre. Fuel oil viscosity is 380 centistokes with 3.5 per cent sulphur. Gasoline specification for Rotterdam is 97-98 RON with 0.15 gram per litre lead.

Source: Platt's Oilgram, Reuters.

Retail prices of refined products in OPEC Members, 1997–2001 (units of national currency/b)

	1997	1998	1999	2000	2001
Algeria					
Gasoline	3,020.8	3,092.3	3,092.3	3,180.1	3,362.4
Diesel oil	1,788.6	1,828.4	1,828.4	1,849.9	1,987.3
Kerosene	667.8	683.6	683.6	691.7	743.1
Fuel oil	1,519.9	1,569.6	1,569.6	1,569.6	1,569.6
Indonesia					
Gasoline	111,291.7	143,089.4	158,988.2	164,941.8	206,674.0
Diesel oil	60,412.4	78,434.2	87,443.5	89,426.3	119,235.0
Kerosene	44,514.4	44,516.7	44,516.7	47,296.6	59,617.5
Fuel oil	38,157.2	49,813.7	55,643.0	57,630.3	103,337.0
IR Iran					
Gasoline	28,816.6	36,169.8	59,620.6	78,695.1	96,194.4
Diesel oil	5,962.1	8,744.4	14,308.9	18,282.7	19,078.8
Kerosene	5,962.1	8,744.4	14,308.9	18,282.7	19,078.8
Fuel oil	2,980.9	4,372.0	7,154.1	9,642.1	10,175.9
Iraq					
Gasoline	na	na	na	na	na
Diesel oil	na	na	na	na	na
Kerosene	na	na	na	na	na
Fuel oil	na	na	na	na	na
Kuwait					
Gasoline	7.2	7.2	8.2	9.9	9.9
Diesel oil	6.4	6.4	7.3	8.7	8.7
Kerosene	6.4	6.4	7.3	8.7	8.7
Fuel oil	2.9	2.9	2.9	2.9	2.9
SP Libyan AJ					
Gasoline	19.5	19.5	19.5	19.5	19.5
Diesel oil	17.5	17.5	17.5	17.5	17.5
Kerosene	11.5	11.5	11.5	11.5	11.5
Fuel oil	1.9	1.9	1.9	1.9	1.9
Nigeria					
Gasoline	1,748.8	1,748.8	3,179.6	3,497.6	3,497.6
Diesel oil	1,430.8	1,430.8	3,020.6	3,338.6	3,338.6
Kerosene	953.9	953.9	2,702.7	2,702.7	2,702.7
Fuel oil	1,112.9	1,112.9	1,112.9	1,907.8	1,907.8
Qatar					
Gasoline	91.4	95.4	107.3	107.3	107.3
Diesel oil	87.4	89.4	95.4	95.4	95.4
Kerosene	63.6	63.6	63.6	63.6	63.6
Fuel oil	na	na	na	na	na
Saudi Arabia					
Gasoline	95.4	95.4	127.2	143.1	143.1
Diesel oil	58.8	58.8	58.8	58.8	58.8
Kerosene	69.2	69.2	69.2	69.2	69.2
Fuel oil	23.9	23.9	23.9	23.9	23.9
United Arab Emirates					
Gasoline	137.5	137.5	137.5	137.5	139.3
Diesel oil	115.4	94.4	94.4	94.4	128.5
Kerosene	122.4	104.9	104.9	104.9	131.1
Fuel oil	89.6	89.6	89.6	89.6	89.6
Venezuela					
Gasoline	8,744.4	11,129.5	11,129.5	11,129.5	11,129.5
Diesel oil	7,631.4	7,631.4	7,631.4	7,631.4	7,631.4
Kerosene	11,653.8	10,765.2	10,598.5	19,398.6	20,899.1
Fuel oil	1,063.1	3,590.9	5,272.3	6,801.7	7,267.3

Sources: Direct communications to the Secretariat; OLADE database; OAPC database.

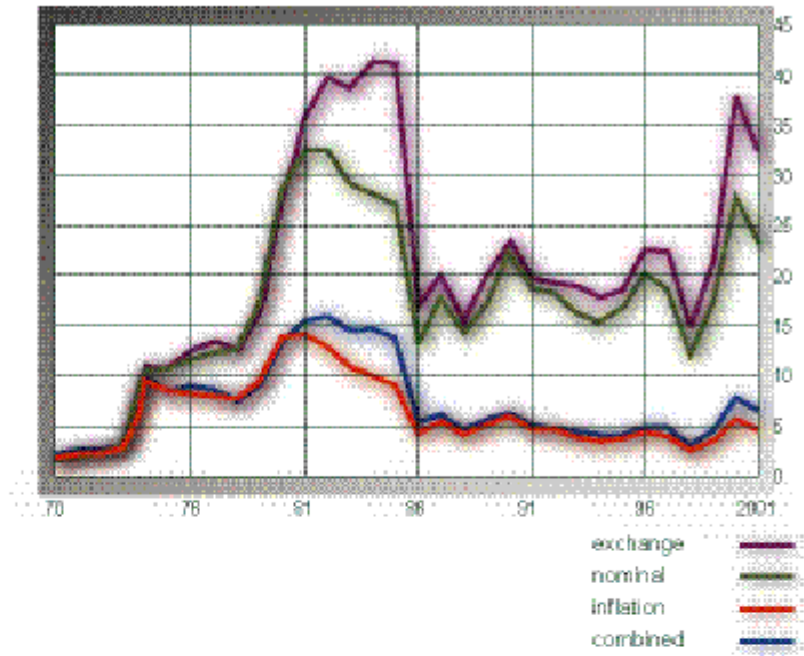
Composite barrel and its components in major consuming countries, 1997–2001 (\$/b)

	1997	1998	1999	2000	2001
USA					
Composite barrel	46.0	39.9	43.9	57.9	54.4
Crude cif price	18.4	12.0	16.9	27.5	22.0
Tax	14.4	13.5	13.8	15.8	15.4
Industry margin	13.2	14.4	13.2	14.7	17.0
Canada					
Composite barrel	60.6	52.8	56.2	68.9	65.7
Crude cif price	20.6	13.1	17.9	29.2	24.8
Tax	22.8	21.1	21.4	22.3	21.1
Industry margin	17.1	18.5	16.9	17.4	19.7
Japan					
Composite barrel	91.4	80.8	91.9	106.5	97.0
Crude cif price	20.5	13.7	17.5	28.7	25.0
Tax	35.1	32.6	37.3	39.3	34.9
Industry margin	35.9	34.5	37.1	38.4	37.1
France					
Composite barrel	108.9	102.2	103.3	110.2	107.4
Crude cif price	19.0	12.4	17.6	28.2	24.2
Tax	74.6	74.1	72.5	64.5	59.4
Industry margin	15.4	15.7	13.2	17.5	23.9
Germany					
Composite barrel	93.0	83.0	86.8	92.7	90.1
Crude cif price	19.0	12.4	17.6	28.2	24.1
Tax	55.4	52.7	54.5	52.1	51.2
Industry margin	18.6	17.9	14.7	12.4	14.8
Italy					
Composite barrel	104.6	97.9	99.5	100.7	95.6
Crude cif price	18.8	12.2	17.2	27.8	23.9
Tax	70.4	69.2	68.8	59.3	56.4
Industry margin	15.3	16.5	13.5	13.6	15.3
United Kingdom					
Composite barrel	127.1	131.7	141.6	152.9	143.6
Crude cif price	19.3	12.6	18.0	28.7	24.6
Tax	80.1	89.6	95.6	94.1	88.0
Industry margin	27.7	29.4	27.9	30.1	31.1
European Union					
Composite barrel	101.3	94.5	96.9	103.2	98.6
Crude cif price	19.0	12.4	17.6	28.2	24.0
Tax	63.6	64.2	64.7	59.7	56.8
Industry margin	18.7	18.0	14.7	15.3	17.9

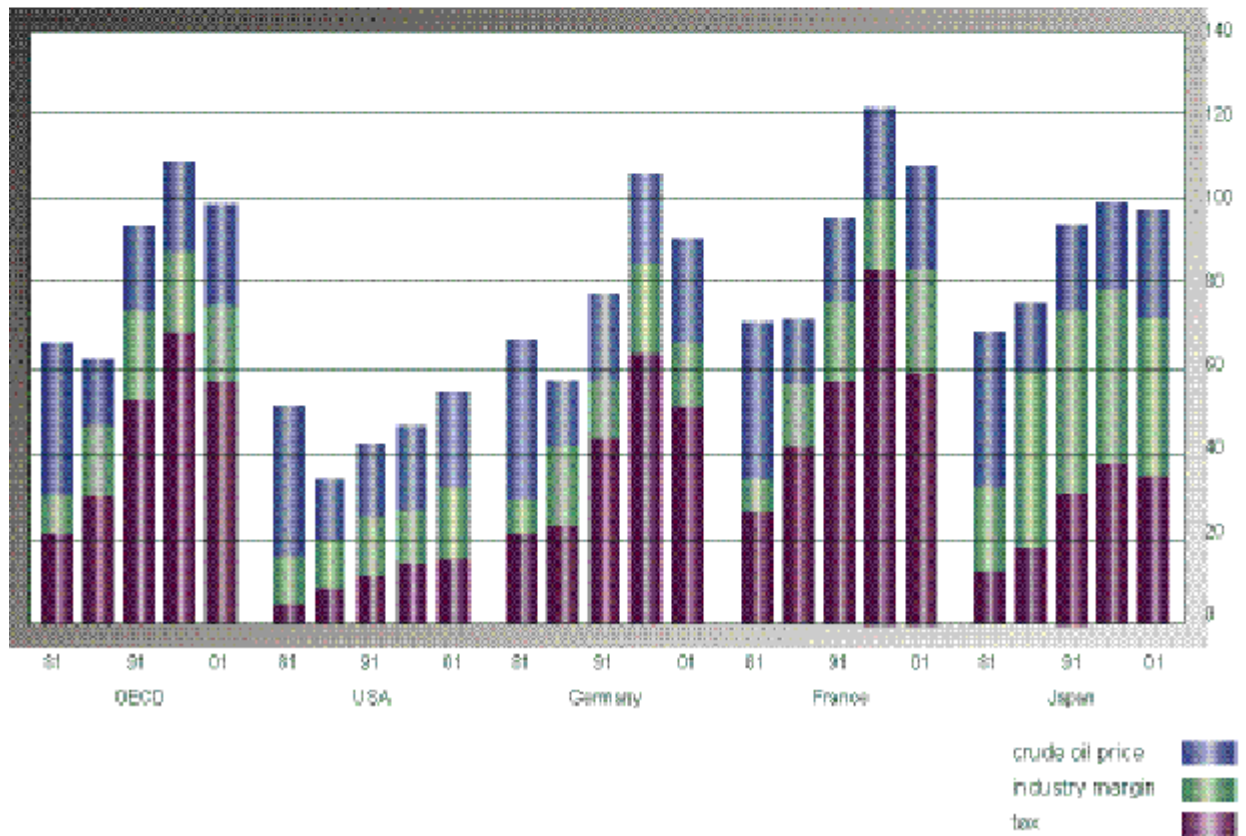
Notes: Composite barrel is a consumption weighted average of final consumer prices (including taxes) of main groups of refined products. Tax is a consumption weighted average of total taxes (including VAT if applicable) levied on refined products. Industry margin is a calculated value arrived at by subtracting the tax and crude cif price from the price of composite barrel. Consumption weights for 1999 and 2000 are estimated. Totals may not add up due to independent rounding.

Sources: OECD, *Energy Prices and Taxes*; *Oil Bulletin Petrolier*; *Energy Detente*; national sources.

Graph 54:
Crude oil prices in nominal and real terms, 1970–2001
(\$/b)
1973=100



Graph 56:
Composite barrel and its components, 1981–2001
(\$/b)



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Principal operations of the major oil companies, 1997–2001 (1,000 b/d)

	1997	1998	1999	2000	2001
BP Amoco					
Crude oil & NGL reserves ¹	7,612	7,304	6,535	6,508	7,217
Natural gas reserves ²	30,374	31,001	33,802	41,100	42,959
Crude oil produced	1,930	2,049	2,061	1,928	1,931
Crude oil processed	2,867	2,711	2,541	2,928	2,943
Refined products sold	4,674	4,802	5,002	5,859	6,206
Natural gas sold ³	5,858	5,808	6,067	7,609	8,632
ExxonMobil					
Crude oil & NGL reserves ¹	10,279	10,953	11,260	11,561	11,491
Natural gas reserves ²	59,085	58,006	56,796	55,866	55,946
Crude oil produced	2,527	2,502	2,517	2,553	2,542
Crude oil processed	6,234	6,093	5,977	5,642	5,571
Refined products sold	8,773	8,873	8,887	7,993	7,971
Natural gas sold ³	10,894	10,617	10,308	10,343	10,279
TotalFinaElf					
Crude oil & NGL reserves ¹	5,905	6,267	6,868	6,960	6,961
Natural gas reserves ²	19,017	19,082	20,253	20,705	21,929
Crude oil produced	1,537	1,502	1,468	1,433	1,454
Crude oil processed	2,314	2,570	2,411	2,411	2,465
Refined products sold	3,100	3,738	3,830	3,695	3,724
Natural gas sold ³	3,304	3,225	3,322	3,758	4,061
Royal Dutch/Shell					
Crude oil & NGL reserves ¹	9,681	10,031	9,775	9,751	9,775
Natural gas reserves ²	56,131	60,462	58,541	56,283	58,541
Crude oil produced	2,328	2,354	2,268	2,274	2,220
Crude oil processed	4,057	3,207	2,989	2,923	2,957
Refined products sold	6,560	5,716	5,366	5,574	5,720
Natural gas sold ³	8,001	7,862	8,218	8,212	9,009
ChevronTexaco					
Crude oil & NGL reserves ¹	7,773	8,270	8,264	8,519	8,524
Natural gas reserves ²	16,205	15,820	17,164	17,844	19,410
Crude oil produced	1,907	2,070	1,049	1,997	1,959
Crude oil processed	3,049	2,874	2,719	2,487	2,422
Refined products sold	4,866	4,919	5,244	5,188	5,072
Natural gas sold ³	8,785	9,344	8,876	9,701	10,503
Total majors					
Crude oil & NGL reserves ¹	41,250	42,825	42,702	43,299	43,968
Natural gas reserves ²	180,812	184,371	186,556	191,798	198,785
Crude oil produced	10,229	10,477	9,363	10,185	10,106
Crude oil processed	18,521	17,455	16,637	16,391	16,358
Refined products sold	27,973	28,048	28,329	28,309	28,693
Natural gas sold ³	36,842	36,856	36,791	39,623	42,484

Notes: BP and Amoco, and Exxon and Mobil merged to create BP Amoco and ExxonMobil in December 1998 and November 1999, respectively. Both data series have been adjusted to include the new companies. TotalFina merged with Elf Aquitaine in February 2000. The data series has been adjusted to include the new company from 1997 for reserves and 1999 for other data. Chevron and Texaco merged to create ChevronTexaco in October 2001. Data include companies' shares in all operations in which they have an interest.

1. Million barrels, as at year-end.
2. Billion cubic feet, as at year-end.
3. Million cubic feet/day.

Sources: Oil companies' annual reports.

Revenue, operating costs, deductions, taxation and net income of the major oil companies, 1997–2001 (m \$)

	1997	1998	1999	2000	2001
BP Amoco					
Revenues ¹	108,564	83,732	101,180	161,826	175,389
Cost of sales ²	98,939	77,601	96,020	145,640	160,492
Income tax (benefit)	3,013	1,520	1,880	4,972	5,017
Special deductions	–	–	–	–	–
Net income (loss)	6,612	4,611	3,280	11,214	9,880
ExxonMobil					
Revenues ³	201,746	171,303	186,906	232,737	212,900
Cost of Sales ⁴	182,409	159,290	175,756	203,926	188,391
Income tax (benefit)	7,605	3,939	3,240	11,091	9,189
Special deductions	–	–	–	–	–
Net income (loss)	11,732	8,074	7,910	17,720	15,320
TotalFinaElf⁵					
Revenues ³	83,603	68,744	79,991	105,430	94,323
Cost of sales ⁴	77,547	65,475	74,632	93,234	82,329
Income tax (benefit)	3,216	1,256	2,061	5,846	5,261
Special deductions	–	–	–	–	–
Net income (loss)	2,840	2,013	3,298	6,350	6,733
Royal Dutch/Shell					
Revenues ³	171,657	138,272	149,680	191,511	177,281
Cost of sales ⁴	156,482	136,009	135,400	167,519	157,735
Income tax (benefit)	7,422	1,913	5,696	11,273	8,694
Special deductions	–	–	–	–	–
Net income (loss)	7,753	350	8,584	12,719	10,852
ChevronTexaco					
Revenues	102,311	73,258	85,713	119,130	106,245
Cost of sales ⁴	93,118	70,422	79,901	105,081	97,954
Income tax (benefit)	3,273	919	2,565	6,322	4,360
Special deductions	–	–	–	–	643
Net income (loss)	5,920	1,917	3,247	7,727	3,288
Total majors					
Revenues	667,881	535,309	603,470	810,634	766,138
Cost of sales	608,495	508,797	561,709	715,400	686,901
Income tax (benefit)	24,529	9,547	15,442	39,504	32,521
Special deductions	–	–	–	–	643
Net income (loss)	34,857	16,965	26,319	55,730	46,073

Notes: BP and Amoco, and Exxon and Mobil merged to create BP Amoco and ExxonMobil in December 1998 and November 1999, respectively. Both data series have been adjusted to include the new companies. TotalFina merged with Elf Aquitaine in February 2000. The data series has been adjusted to include Total from 1997, TotalFina from 1999, and the new company from 2000. Chevron and Texaco merged to create ChevronTexaco in October 2001. Data include companies' shares in all operations in which they have an interest.

1. Includes earnings from equity interest and stockholding gain or loss.

2. Including sales and excise taxes and interest expenses.

3. Includes dividend from related and non-consolidated companies.

4. Includes sales and excise taxes.

5. Converted from original figures in French francs and euros.

Sources: Oil companies' annual reports.

Costs, deductions, taxation and net income as percentage of revenues of the major oil companies, 1997–2001

	1997	1998	1999	2000	2001
BP Amoco					
Revenues	100	100	100	100	100
Cost of sales	91.1	92.7	94.9	90.0	91.5
Income tax (benefit)	2.8	1.8	1.9	3.1	2.9
Special deductions	–	–	–	–	–
Net income (loss)	6.1	5.5	3.2	6.9	5.6
ExxonMobil					
Revenues	100	100	100	100	100
Cost of sales	90.4	93.0	94.0	87.6	88.5
Income tax (benefit)	3.8	2.3	1.7	4.8	4.3
Special deductions	–	–	–	–	–
Net income (loss)	5.8	4.7	4.2	7.6	7.2
TotalFinaElf					
Revenues	100	100	100	100	100
Cost of sales	92.8	95.2	93.3	88.4	87.3
Income tax (benefit)	3.8	1.8	2.6	5.5	5.6
Special deductions	–	–	–	–	–
Net income (loss)	3.4	2.9	4.1	6.0	7.1
Royal Dutch/Shell					
Revenues	100	100	100	100	100
Cost of sales	91.2	98.4	90.5	87.5	89.0
Income tax (benefit)	4.3	1.4	3.8	5.9	4.9
Special deductions	–	–	–	–	–
Net income (loss)	4.5	0.3	5.7	6.6	6.1
ChevronTexaco					
Revenues	100	100	100	100	100
Cost of sales	91.0	96.1	93.2	88.2	92.2
Income tax (benefit)	3.2	1.3	3.0	5.3	4.1
Special deductions	–	–	–	–	0.6
Net income (loss)	5.8	2.6	3.8	6.5	3.1
Total majors					
Revenues	100	100	100	100	100
Cost of sales	91.1	95.0	93.1	88.3	89.7
Income tax (benefit)	3.7	1.8	2.6	4.9	4.2
Special deductions	–	–	–	–	0.1
Net income (loss)	5.2	3.2	4.4	6.9	6.0

Notes: BP and Amoco, and Exxon and Mobil merged to create BP Amoco and ExxonMobil in December 1998 and November 1999, respectively. Both data series have been adjusted to include the new companies. TotalFina merged with Elf Aquitaine in February 2000. The data series has been adjusted to include Total from 1997, TotalFina from 1999, and the new company from 2000. Chevron and Texaco merged to create ChevronTexaco in October 2001. Data include companies' shares in all operations in which they have an interest.

Notes: Percentages may not add up to 100 due to independent rounding. Regarding the mergers, see notes to Table 77.

Sources: Oil companies' annual reports.

Capital and exploratory expenditure of the major oil companies, 1997–2001 (m \$)

	1997	1998	1999	2000	2001
BP Amoco	11,420	10,362	7,345	11,171	13,200
Exploration ¹	7,879	6,318	4,194	6,383	8,627
Production	na	na	na	na	na
Transportation	na	na	na	na	na
Refining and chemicals ²	1,145	1,606	1,215	1,585	1,446
Marketing ³	1,824	1,937	1,634	2,369	2,386
Others	572	501	302	834	741
ExxonMobil⁴	13,021	15,535	13,254	11,200	11,296
Exploration ¹	8,188	9,990	8,325	6,900	8,800
Production	na	na	na	na	na
Transportation	na	na	na	na	na
Refining and chemicals ²	1,323	3,008	2,398	2,600	2,300
Marketing ⁵	2,928	2,537	2,531	1,500	na
Others	582	na	na	200	196
TotalFinaElf⁶	8,813	9,700	9,049	7,677	9,506
Exploration ¹	5,079	6,108	5,467	5,191	6,746
Production	na	na	na	na	na
Transportation	na	na	na	na	na
Refining and chemicals ²	1,303	1,799	1,775	1,246	1,450
Marketing ³	2,431	1,414	1,364	1,071	1,060
Others		379	443	169	250
Royal Dutch/Shell	12,274	12,859	7,409	6,209	9,626
Exploration ¹	5,724	6,474	4,137	3,801	6,875
Production	na	na	na	na	na
Transportation	na	na	na	na	na
Refining and chemicals ²	2,422	1,491	1,178	726	685
Marketing ⁵	3,865	4,592	1,808	1,546	1,775
Others	263	302	286	136	291
ChevronTexaco	11,471	9,333	10,137	9,520	12,028
Exploration	8,067	5,811	7,290	6,251	7,129
Production	na	na	na	na	na
Transportation	1,122	1,085	1,949	2,040	2,144
Refining and chemicals ²	664	744	462	186	179
Marketing	1,421	1,148	na	na	na
Others ⁷	197	545	436	1,043	2,576
Total majors	56,999	57,789	47,194	45,777	55,656
Exploration	34,937	34,701	29,413	28,526	38,177
Production	na	na	na	na	na
Transportation	1,122	1,085	1,949	2,040	2,144
Refining and chemicals	6,857	8,648	7,028	6,343	6,060
Marketing	12,469	11,628	7,337	6,486	5,221
Others	1,614	1,727	1,467	2,382	4,054

Notes: BP and Amoco, and Exxon and Mobil merged to create BP Amoco and ExxonMobil in December 1998 and November 1999, respectively. Both data series have been adjusted to include the new companies. TotalFina merged with Elf Aquitaine in February 2000. The data series has been adjusted to include the new company from 1997. Chevron and Texaco merged to create ChevronTexaco in October 2001. Data include companies' shares in all operations in which they have an interest.

1. Exploration and production.
2. Chemicals only.
3. Refining, marketing and transportation.
4. Including expenditures of majority owned and consolidated companies and acquisitions.
5. Refining and marketing.
6. Converted from original figures in French francs and euros.
7. Including investment share in non-subsidiary companies.

Sources: Oil companies' annual reports.

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