

Annual Statistical Bulletin 1999

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Foreword



May I welcome the reader to the new edition of the *OPEC Annual Statistical Bulletin*, which covers the final year of the old millennium, 1999. Our regular readers will see that the publication has been given a fresh new design as part of the celebrations to mark the 40th Anniversary of the Organization of the Petroleum Exporting Countries on September 14, 2000. The wealth of data on the global oil and gas industry contained both herein and on the accompanying computer diskette, however, remains as comprehensive and informative as ever.

The main story of 1999 was the gradual recovery of the international oil market from its disastrous slump of 1998. As is well known, this recovery has continued into 2000, although such recent developments lie outside the scope of this foreword. The upswing began when OPEC and its non-OPEC partners agreed in March 1999 to take a further 2.1 million barrels per day of crude oil off the market, with OPEC contributing 1.7m b/d of the total and non-OPEC another 400,000 b/d. This decision marked the beginning of the steady market recovery whose effects can be traced in several of the tables in this book.

The average price of the OPEC Reference Basket of crudes in 1999 was \$17.47/barrel, a significant improvement on the record low of \$12.28/b in 1998 (see Table 71). As a consequence, the values of our Members' petroleum exports rose to \$154,717 million in 1999 from \$107,352 in 1998 (see Table 5). The overall current account balance also improved to \$16,012m in 1999, up from -\$19,456m in 1998, as shown in Table 7.

It is important to note, however, that even though these 1999 figures represent a considerable improvement on 1998, they were still lower than in 1996 or 1997. This demonstrates once again the importance of viewing such statistics in their proper context, which generally means over a longer period of time, and not just selecting data covering only a short period in order to make a particular point. This book goes a long way towards clearing the path to a better perspective on current developments.

One should also note that in 1999, the combined population of the eleven OPEC Members surpassed 500 million for the first time (see Table 1). With such a huge total population, it is not surprising that there are wide variations in the GDP per capita levels of the OPEC Members, or that the average GDP per capita is still only \$1,466 (see Table 2). Thus, an improvement in revenues does not necessarily give the government of a country the ability to better provide for its citizens, if the population is also constantly growing.

The subject of oil taxation has been a very topical one in recent times, and details are shown in Table 76, which gives the breakdown of the composite barrel in the major consuming countries. It is a point that has been made many times by OPEC, but the data in this table makes it absolutely clear that the Organization is not to blame for the high prices of petroleum products such as gasoline in the consuming countries — the responsibility for such high prices lies fairly and squarely on the shoulders of those governments that see fit to impose extortionate levels of taxation on these products.

Finally, let me note that no collection of data, however comprehensive, can convey the importance of the role that OPEC has played over the past 40 years. That role has encompassed 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. We can be confident that OPEC's role in the world energy industry will be no less crucial in the new millennium.

Rilwanu Lukman
Secretary General

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 which 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, Surinam, Trinidad & Tobago, Turks and Caicos Islands, United States Virgin Islands, Uruguay, Venezuela.

Eastern Europe: Albania, Bulgaria, former Czechoslovakia, 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 (Federal Republic of), 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.

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, others.

Africa: Algeria, Angola, Benin, Botswana, British Indian Ocean Territory, Burkina Faso, Burundi, Cameroon (United Republic of), Cape Verde, Central African Republic, Chad, Comoros, Congo (Brazzaville), Democratic Republic of Congo (formerly Zaire), Djibouti, Egypt, Equatorial Guinea, Eritrea, Ethiopia, Gabon, Gambia, 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 Far East: Afghanistan, Bangladesh, Bhutan, Brunei, Cambodia, China (Republic of), Hong Kong, India, Indonesia, Japan (including Okinawa), Korea (Democratic People's Republic of), Korea (Republic of), Lao People's Democratic Republic, Macau, Malaysia, Maldives, Mongolia, Myanmar (formerly Burma), Nepal, Pakistan, Philippines, Singapore, Sri Lanka, Taiwan (Republic of), Thailand, Vietnam (Socialist Republic of).

Oceania: American Samoa, Antarctica, Australia, Canton and Enderbury Islands, Christmas Island, Cocos (Keeling) Islands, Cook Islands, Fiji, French Polynesia, Guam, Johnston Island, Kiribati, Midway Islands, Nauru, New Caledonia, New Zealand, Niue, Norfolk Island, Pacific Islands (Trust Territory), Papua New Guinea, Pitcairn Island, Samoa, Solomon Islands, Tokelau, Tonga, Tuvalu, Vanuatu, Wake Island, Wallis and Futuna Islands.

Economic organizations

Organization for Economic Co-operation and Development (OECD). Members: Australia, Austria, Belgium, Canada, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Japan, Luxembourg, Netherlands, New Zealand, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, United Kingdom, United States. Mexico, which joined the OECD in 1994, the Czech Republic (1995), Hungary, Poland and South Korea (1996) are not included in the OECD-related data in this Bulletin.

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 25, 2000.

Currencies:

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

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 Amoco 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 SpA
Amerada Hess	Amerada Hess Corporation
AOC	Arabian Oil Company
Aquitaine	Société Nationale des Pétroles 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
Chevron	Chevron Corporation
Conoco	Continental Oil Company
Corpoven	Corpoven SA
DPC	Dubai Petroleum Company
EGPC	Egyptian General Petroleum Corporation
Elf	Elf Aquitaine
Exxon	Exxon 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
QGPC	Qatar General Petroleum Corporation
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
Texaco	Texaco Incorporated
Topco	Texas Overseas Petroleum Company
Total	Total SA
Union Oil	Union Oil Company of California
Wintershall	Wintershall AG
Zadco	Zakum Development Company

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

	Apr 82– Mar 83 ¹	Apr 83– Oct 84 ²	Nov 84– Aug 86 ³	Sep 86– Oct 86 ⁴	Nov 86 ⁵	Dec 86 ⁶	1H87 ⁷	2H87 ⁸
Algeria	650	725	663	663	669	669	635	667
Indonesia	1,300	1,300	1,189	1,189	1,193	1,193	1,133	1,190
IR Iran	1,200	2,400	2,300	2,300	2,317	2,317	2,255	2,369
Iraq	1,200	1,200	1,200	1,200	0	0	1,466	1,540
Kuwait	800	1,050	900	900	921	999	948	996
SP Libyan AJ	750	1,100	990	990	999	999	948	996
Nigeria	1,300	1,300	1,300	1,300	1,304	1,304	1,238	1,301
Qatar	300	300	280	280	300	300	285	299
Saudi Arabia	7,150	5,000	4,353	4,353	4,353	4,353	4,133	4,343
United Arab Emirates	1,000	1,100	950	950	950	950	902	948
Venezuela	1,500	1,675	1,555	1,555	1,574	1,574	1,495	1,571
OPEC	17,150	17,150	15,680	15,680	14,580	14,658	15,438	16,220

	1H88 ⁹	2H88 ¹⁰	1H89 ¹¹	3Q89 ¹²	4Q89 ¹³	Jan 90– Jul 90 ¹⁴	Aug 90– Dec 90 ¹⁵	1Q91 ¹⁶
Algeria	667	667	695	733	771	827	827	827
Indonesia	1,190	1,190	1,240	1,307	1,374	1,374	1,374	1,374
IR Iran	2,369	2,369	2,640	2,783	2,926	3,140	3,140	3,140
Iraq	0	0	2,640	2,783	2,926	3,140	3,140	3,140
Kuwait	996	996	1,037	1,093	1,149	1,500	1,500	1,500
SP Libyan AJ	996	996	1,037	1,093	1,149	1,233	1,233	1,233
Nigeria	1,301	1,301	1,355	1,428	1,501	1,611	1,611	1,611
Qatar	299	299	312	329	346	371	371	371
Saudi Arabia	4,343	4,343	4,524	4,769	5,014	5,380	5,380	5,380
United Arab Emirates	948	948	988	1,041	1,094	1,095	1,500	1,500
Venezuela	1,571	1,571	1,636	1,724	1,812	1,945	1,945	1,945
OPEC	14,680	14,680	18,104	19,083	20,062	21,616	22,021	22,021

	2Q91– 3Q91 ¹⁷	4Q91, Jan 92 ¹⁸	Feb 92– Sep 92 ¹⁹	4Q92 ²⁰	Jan 93– Feb 93 ²¹	Mar 93– Jun 93 ²²	3Q93 ²³	4Q93– 1Q94 ²⁴
Algeria	827	na	760	na	764	732	732	750
Indonesia	1,443	na	1,374	na	1,374	1,317	1,317	1,330
IR Iran	3,217	na	3,184	na	3,490	3,340	3,340	3,600
Iraq	0	na	505	na	500	400	400	400
Kuwait	0	na	812	na	1,500	1,600	1,600	2,000
SP Libyan AJ	1,425	na	1,395	na	1,409	1,350	1,350	1,390
Nigeria	1,840	na	1,751	na	1,857	1,780	1,780	1,865
Qatar	399	na	377	na	380	364	364	378
Saudi Arabia	8,034	na	7,887	na	8,395	8,000	8,000	8,000
United Arab Emirates	2,320	na	2,244	na	2,260	2,161	2,161	2,161
Venezuela	2,235	na	2,147	na	2,360	2,257	2,257	2,359
OPEC	21,740	23,650 [#]	22,436	24,200 [#]	24,289	23,301	23,301	24,233

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

	Apr 94– Dec 95 ²⁵	1H96 ²⁶	Jul 96– Dec 97 ²⁷	1Q98 ²⁸	Apr 98– Jun 98 ²⁹	2H98 ³⁰	1Q99 ³⁰	Apr 99– Dec 99 ³¹
Algeria	750	750	750	909	50	788	788	731
Indonesia	1,330	1,330	1,330	1,456	70	1,280	1,280	1,187
IR Iran	3,600	3,600	3,600	3,942	140	3,318	3,318	3,359
Iraq	400	400	1,200	1,314	0	0	0	0
Kuwait	2,000	2,000	2,000	2,190	125	1,980	1,980	1,836
SP Libyan AJ	1,390	1,390	1,390	1,522	80	1,323	1,323	1,227
Nigeria	1,865	1,865	1,865	2,042	125	2,033	2,033	1,885
Qatar	378	378	378	414	30	640	640	593
Saudi Arabia	8,000	8,000	8,000	8,761	300	8,023	8,023	7,438
United Arab Emirates	2,161	2,161	2,161	2,366	125	2,157	2,157	2,000
Venezuela	2,359	2,359	2,359	2,583	200	2,845	2,845	2,720
OPEC	24,233	24,233	25,033	27,500				
OPEC (excluding Iraq)					1,245	24387	24,387	22,976

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 was made for Saudi Arabia which would 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.
- 71st (Extraordinary) Meeting of the OPEC Conference, October 29–31, 1984.
- 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.
- 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.
- 82nd Meeting of the OPEC Conference, December 9–14, 1987, with the exception of Iraq.
- 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.
- 87th Meeting of the OPEC Conference, July 26–27, 1990.
- 88th Meeting of the OPEC Conference, December 12–13, 1990.
- 2Q91: 3rd Meeting of the Ministerial Monitoring Committee, March 11–12, 1991. 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. 3Q92: 91st Meeting of the OPEC Conference, May 21–22, 1992.
- 9th Meeting of the Ministerial Monitoring Committee, September 16–17, 1992.
- 92nd Meeting of the OPEC Conference, November 25–27, 1992.
- 10th Meeting of the Ministerial Monitoring Committee, February 13–16, 1993.
- 93rd Meeting of the OPEC Conference, June 8–10, 1993.
- 94th (Extraordinary) Meeting of the OPEC Conference, September 25–29, 1993.
- April 1994–December 1994: 12th Meeting of the Ministerial Monitoring Committee, March 25–26, 1994. January–December 1995: 97th Meeting of the OPEC Conference, November 21–22, 1994.
- 99th Meeting of the OPEC Conference, November 21–22, 1995.
- 2H96: 100th Meeting of the OPEC Conference, June 5–7, 1996. 1H97: 101st Meeting of the OPEC Conference, November 27–28, 1996. 2H97: 102nd Meeting of the OPEC Conference, June 25–26, 1997.
- 103rd Meeting of the OPEC Conference, November 26–December 1, 1997.
- 104th (Extraordinary) Meeting of the OPEC Conference, March 30, 1998. Data reflects temporary production cuts until end-1998. Base: OPEC production for February 1998 of 26.987m b/d (excluding Iraq), as given by selected secondary sources. Iraq was not called upon to participate in this agreement.
- 105th Meeting of the OPEC Conference, June 24, 1998. Iraq was not called upon to participate in this agreement.
- 107th Meeting of the OPEC Conference, March 23, 1999. Iraq was not called upon to participate in this agreement.

Conversion factors

Crude oil

Standard factors	Metric tonne	Long ton	Barrels	Cubic metres (<i>kilolitres</i>)
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 (<i>kilolitres</i>)	0.858	0.887	6.289	1

By country (<i>b/tonne</i>)	1995	1996	1997	1998	1999
Algeria	7.7741	7.7741	7.7741	7.9448	7.9448
Indonesia	7.7600	7.7600	7.7600	7.2338	7.2338
IR Iran	7.3145	7.3145	7.3145	7.2957	7.2840
Iraq	7.4530	7.4530	7.4530	7.4127	7.4127
Kuwait	7.2622	7.2460	7.2460	7.246	7.2580
SP Libyan AJ	7.5876	7.5876	7.5876	7.5584	7.5584
Nigeria	7.3540	7.3540	7.3540	7.4114	7.4114
Qatar	7.6058	7.6058	7.6058	7.5898	7.6180
Saudi Arabia	7.3229	7.3229	7.3229	7.2843	7.2845
United Arab Emirates	7.5964	7.5964	7.5964	7.5875	7.5532
Venezuela	6.9337	6.9488	6.9580	7.3104	7.1210
Average OPEC	7.3661	7.3671	7.3718	7.3677	7.3464

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, 1979-99
(1,000 inhabitants)

	1979	1980	1981	1982	1983	1984	1985
Algeria	18,190	18,956	19,564	20,192	20,841	21,510	22,191
Indonesia	146,032	149,012	152,054	155,157	158,324	161,555	164,630
IR Iran	37,200	39,300	40,850	42,313	43,979	45,721	47,541
Iraq	12,821	13,238	13,669	14,110	14,586	15,077	15,585
Kuwait	1,290	1,370	1,430	1,500	1,570	1,640	1,720
SP Libyan AJ	2,651	2,760	2,870	2,990	3,110	3,240	3,370
Nigeria	68,983	71,148	73,409	75,774	78,217	80,699	83,196
Qatar	220	230	240	260	310	330	360
Saudi Arabia	8,930	9,370	9,810	10,250	11,170	11,980	12,649
United Arab Emirates	920	1,010	1,100	1,170	1,210	1,310	1,380
Venezuela	14,550	15,020	15,480	15,940	16,390	16,850	17,320
OPEC	311,787	321,414	330,476	339,656	349,707	359,912	369,942

	1986	1987	1988	1989	1990	1991	1992
Algeria	22,807	23,446	24,095	24,700	25,324	25,942	26,581
Indonesia	168,350	172,010	175,590	179,140	179,480	181,390	184,490
IR Iran	49,445	50,648	51,888	53,164	54,484	55,887	57,231
Iraq	16,110	16,659	16,880	17,430	18,080	18,510	18,900
Kuwait	1,802	1,885	1,969	2,055	2,141	1,363	1,422
SP Libyan AJ	3,520	3,670	3,820	3,980	4,150	4,330	4,510
Nigeria	85,718	88,273	90,866	93,505	96,203	98,983	102,130
Qatar	390	410	430	460	490	500	530
Saudi Arabia	13,266	13,912	14,591	15,302	16,048	16,399	16,757
United Arab Emirates	1,440	1,500	1,790	1,860	1,920	1,980	2,040
Venezuela	17,530	17,970	18,160	18,870	19,500	19,970	20,440
OPEC	380,378	390,383	400,079	410,466	417,820	425,254	435,031

	1993	1994	1995	1996	1997	1998	1999
Algeria	27,188	27,784	28,315	28,797	29,277	29,700	30,300
Indonesia	187,590	190,680	194,750	196,810	199,870	204,420	207,700
IR Iran ¹	58,668	60,148	60,557	60,055	60,994	61,900	63,000
Iraq	19,260	19,650	20,090	20,610	21,180	21,800	22,438
Kuwait	1,461	1,620	1,802	1,894	1,980	2,027	2,090
SP Libyan AJ	4,700	4,900	5,410	5,590	5,780	5,990	6,220
Nigeria	105,260	108,470	111,720	115,020	118,370	121,700	125,200
Qatar ²	560	590	550	560	570	580	590
Saudi Arabia	17,123	17,710	18,250	18,830	19,480	20,180	20,580
United Arab Emirates	2,100	2,160	2,310	2,440	2,580	2,720	2,850
Venezuela	20,910	21,380	21,840	22,310	22,780	23,440	24,000
OPEC	444,820	455,092	465,594	472,916	482,861	494,457	504,968

Notes: Revisions have been made throughout the time series. Figures are estimated.

1. Break in time series in 1995-96.

2. Break in time series in 1994-95.

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

Area, density and GDP per capita in OPEC Members, 1999

	Area ¹ (1,000 sq km)	Density (inhabitants/sq km)	GDP per capita (\$)
Algeria	2,382	13	1,581
Indonesia	1,904	109	679
IR Iran	1,648	38	1,941
Iraq	438	51	588
Kuwait	18	116	14,198
SP Libyan AJ	1,760	4	7,181
Nigeria	924	135	278
Qatar	11	54	22,475
Saudi Arabia	2,150	10	6,773
United Arab Emirates	84	34	18,206
Venezuela ²	916	26	4,259
OPEC	12,235	41 ³	1,466 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, 1979-99
(m \$)

	1979	1980	1981	1982	1983	1984	1985
Algeria	33,280	42,541	44,424	45,120	48,902	52,983	58,087
Indonesia	51,209	72,486	91,841	94,213	87,093	87,638	88,565
IR Iran	84,701	91,639	100,658	123,625	149,726	124,874	166,584
Iraq	44,572	53,586	37,289	42,282	42,129	47,819	49,819
Kuwait	24,842	28,688	25,255	21,586	20,870	21,707	21,446
SP Libyan AJ	26,502	36,756	31,755	31,659	30,170	28,252	27,787
Nigeria	71,197	91,981	82,684	77,172	78,988	83,229	81,080
Qatar	5,634	7,829	8,661	7,597	6,485	6,870	6,153
Saudi Arabia	114,798	156,489	155,144	121,151	107,688	99,716	86,678
United Arab Emirates	20,941	29,618	32,988	30,618	28,030	27,704	27,023
Venezuela	48,395	59,218	66,443	67,854	67,598	60,170	59,869
OPEC	526,071	670,832	677,141	662,877	667,679	640,961	673,092

	1986	1987	1988	1989	1990	1991	1992
Algeria	63,231	64,609	56,736	54,930	62,031	45,723	47,853
Indonesia	88,668	78,207	88,591	101,479	114,289	128,234	139,221
IR Iran	198,248	133,076	122,232	119,597	117,481	119,124	107,335
Iraq	48,457	57,586	64,444	67,640	74,945	10,115	16,806
Kuwait	17,905	22,368	20,690	24,314	18,399	11,011	20,136
SP Libyan AJ	24,089	21,215	23,778	25,168	28,451	31,681	32,581
Nigeria	54,251	27,175	32,401	30,557	32,449	33,265	28,492
Qatar	5,017	5,104	5,717	6,488	7,360	6,884	7,646
Saudi Arabia	73,215	73,552	76,140	82,997	104,671	118,034	123,204
United Arab Emirates	21,574	23,699	23,672	27,268	33,653	33,920	35,413
Venezuela	62,976	46,858	60,379	49,170	48,765	53,615	60,753
OPEC	657,631	553,448	574,780	589,606	642,496	591,605	619,439

	1993	1994	1995	1996	1997	1998	1999
Algeria	49,713	41,978	40,723	45,534	47,792	47,387	47,907
Indonesia	157,963	176,968	202,259	226,874	215,748	125,208	140,965
IR Iran	73,766	105,878	104,763	107,455	100,877	117,861	122,273
Iraq	17,973	17,973	16,777	17,800	15,400	11,500	13,200
Kuwait	24,197	24,995	26,910	31,071	30,022	25,326	29,674
SP Libyan AJ	30,012	29,523	29,572	33,029	34,819	41,116	44,666
Nigeria	21,354	23,663	28,108	35,299	35,788	32,999	34,780
Qatar	7,157	7,374	8,138	9,059	11,298	10,897	13,260
Saudi Arabia	118,516	120,167	127,811	141,322	146,494	128,377	139,381
United Arab Emirates	35,519	36,220	37,080	44,606	50,394	47,367	51,886
Venezuela	60,435	60,882	78,296	73,771	88,541	95,267	102,225
OPEC	596,604	645,621	700,436	765,820	777,174	683,305	740,217

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, Handbook of World Development Statistics; EIU, World Outlook 2000, country reports; national sources; Secretariat's estimates.

OPEC Members' values of exports, 1979-99
(m \$)

	1979	1980	1981	1982	1983	1984	1985
Algeria	9,551	13,871	14,396	13,170	12,583	12,795	12,841
Indonesia	15,590	23,950	25,165	22,328	21,146	21,888	18,587
IR Iran	24,171	12,328	11,821	20,452	21,802	17,087	14,125
Iraq	21,572	26,349	10,140	10,033	8,161	9,317	10,409
Kuwait	18,404	19,842	16,300	10,961	11,574	12,280	10,597
SP Libyan AJ	16,076	21,910	15,571	13,984	12,341	11,148	12,314
Nigeria	16,733	25,934	17,837	12,176	10,363	11,849	13,111
Qatar	3,753	5,680	5,686	4,341	3,357	4,513	3,419
Saudi Arabia	63,428	109,073	119,858	79,081	45,859	37,542	27,481
United Arab Emirates	14,801	21,967	21,792	18,224	15,391	15,990	14,764
Venezuela	14,317	19,221	20,980	16,590	13,937	15,997	14,438
OPEC	218,397	300,125	279,545	221,340	176,514	170,406	152,086

	1986	1987	1988	1989	1990	1991	1992
Algeria	7,832	8,225	7,810	9,570	12,930	12,570	11,130
Indonesia	14,805	17,136	19,219	22,160	25,675	29,142	33,967
IR Iran	7,171	11,716	10,709	13,081	19,305	18,661	19,868
Iraq	7,465	9,705	9,609	12,284	10,314	377	518
Kuwait	7,251	8,264	7,758	11,476	7,042	1,088	6,572
SP Libyan AJ	8,215	8,043	6,673	8,034	13,225	11,235	9,942
Nigeria	5,083	7,560	6,875	7,871	13,671	12,264	11,886
Qatar	1,849	1,985	2,210	2,738	3,890	3,210	3,841
Saudi Arabia	20,086	23,199	24,376	28,383	44,416	47,697	50,287
United Arab Emirates	10,129	12,765	12,250	17,596	23,544	24,436	24,756
Venezuela	8,660	10,577	10,244	13,286	17,497	15,155	14,185
OPEC	98,545	119,175	117,734	146,479	191,509	175,835	186,951

	1993	1994	1995	1996	1997	1998	1999*
Algeria	10,230	8,880	10,240	12,620	13,869	10,897	12,800
Indonesia	36,823	40,053	45,418	49,814	53,444	48,847	49,630
IR Iran	18,080	19,432	18,360	22,391	18,381	12,993	18,100
Iraq	457	453	496	731	4,602	5,500	12,511
Kuwait	10,246	11,260	12,785	14,889	14,224	9,554	12,192
SP Libyan AJ	8,590	8,954	8,975	9,903	9,656	6,659	8,795
Nigeria	11,590	11,269	11,725	16,153	15,213	9,729	12,814
Qatar	3,245	3,213	3,651	4,471	5,577	4,916	6,570
Saudi Arabia	42,395	42,614	50,040	60,729	60,732	39,775	49,800
United Arab Emirates	21,269	26,922	27,753	28,085	34,020	30,750	34,090
Venezuela	14,686	16,089	18,457	23,060	21,624	17,193	19,852
OPEC	177,611	189,139	207,900	242,846	251,341	196,812	237,154

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 2000 and country reports; national sources; Secretariat's estimates.

OPEC Members' values of petroleum exports, 1979-99
(m \$)

	1979	1980	1981	1982	1983	1984	1985
Algeria	8,746	12,971	13,066	11,149	9,655	9,778	9,668
Indonesia	8,871	15,595	18,164	15,493	13,558	12,477	9,083
IR Iran	19,186	11,693	10,047	18,690	20,273	15,713	13,012
Iraq	21,382	26,096	10,039	9,933	7,816	8,863	10,097
Kuwait	17,294	18,935	14,229	9,066	10,069	10,996	9,451
SP Libyan AJ	15,941	21,906	14,930	13,692	12,341	10,970	12,132
Nigeria	15,624	24,931	17,291	11,883	9,941	11,534	12,568
Qatar	3,693	5,372	5,496	4,214	2,993	4,386	3,068
Saudi Arabia	62,855	108,175	118,998	78,119	44,830	36,285	25,937
United Arab Emirates	12,862	19,390	18,761	15,956	13,016	12,037	10,896
Venezuela	13,633	17,562	18,609	15,633	13,857	14,824	12,956
OPEC	200,086	282,625	259,629	203,826	158,348	147,863	128,869

	1986	1987	1988	1989	1990	1991	1992
Algeria	5,161	6,555	5,725	6,815	9,588	8,464	7,885
Indonesia	5,501	6,157	5,042	6,062	7,404	6,714	6,619
IR Iran	5,900	9,400	8,419	11,315	16,831	15,276	15,184
Iraq	6,905	9,416	9,312	11,876	9,594	351	482
Kuwait	6,378	7,523	6,840	10,432	6,385	874	6,221
SP Libyan AJ	8,202	6,293	6,070	6,573	10,715	10,211	9,326
Nigeria	4,770	7,024	6,267	7,470	13,265	11,792	11,642
Qatar	1,720	1,829	1,709	1,955	3,273	2,828	2,870
Saudi Arabia	18,061	20,427	20,205	24,095	40,130	43,701	46,527
United Arab Emirates	6,865	7,900	7,627	10,215	14,846	14,356	14,251
Venezuela	7,178	9,054	8,158	10,001	13,953	12,302	11,336
OPEC	76,640	91,578	85,375	106,809	145,983	126,869	132,343

	1993	1994	1995	1996	1997	1998	1999*
Algeria	6,902	6,335	6,938	8,826	8,352	5,691	7,556
Indonesia	5,693	6,005	6,443	7,879	7,243	4,600	6,580
IR Iran	12,773	13,576	14,973	19,441	15,553	10,048	16,098
Iraq	425	421	461	680	4,280	5,111	12,104
Kuwait	9,711	10,459	12,054	14,132	13,468	8,472	10,998
SP Libyan AJ	7,689	7,170	7,763	9,543	8,905	5,612	7,734
Nigeria	10,859	11,040	11,512	14,888	14,391	8,754	12,453
Qatar	2,811	2,623	2,987	3,801	4,655	3,357	4,775
Saudi Arabia	38,621	38,139	43,547	54,272	53,344	32,570	44,934
United Arab Emirates	12,118	11,683	12,822	14,980	15,269	11,131	15,021
Venezuela	10,859	12,292	13,987	19,659	18,140	12,007	16,465
OPEC	118,461	119,742	133,486	168,102	163,599	107,352	154,717

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

OPEC Members' values of imports, 1979-99
(m \$)

	1979	1980	1981	1982	1983	1984	1985
Algeria	8,403	10,559	11,303	10,754	10,399	10,288	9,841
Indonesia	7,203	10,834	13,272	16,859	16,352	13,882	10,259
IR Iran	9,738	13,427	16,016	14,345	20,603	16,832	13,721
Iraq	7,257	8,707	20,735	21,534	12,166	11,078	10,556
Kuwait	5,201	6,533	6,969	8,285	7,375	6,896	6,005
SP Libyan AJ	5,311	6,777	8,382	7,175	6,029	6,222	4,101
Nigeria	12,398	16,643	21,049	15,999	12,307	9,393	8,890
Qatar	1,424	1,423	1,518	1,947	1,456	1,162	1,139
Saudi Arabia	24,256	30,162	35,264	40,646	39,195	33,694	23,623
United Arab Emirates	6,953	8,631	9,807	8,762	7,843	6,571	6,537
Venezuela	10,670	11,827	13,106	12,944	8,726	7,774	8,106
OPEC	98,814	125,522	157,420	159,250	142,451	123,792	102,778

	1986	1987	1988	1989	1990	1991	1992
Algeria	9,228	7,042	7,690	9,470	9,780	7,770	8,550
Indonesia	10,718	12,370	13,248	16,360	21,837	25,869	27,280
IR Iran	11,827	13,236	10,608	13,448	18,330	25,190	23,274
Iraq	10,190	7,415	10,268	9,899	6,526	423	603
Kuwait	5,717	5,495	6,145	6,301	3,972	4,761	7,257
SP Libyan AJ	4,445	4,334	5,869	4,923	5,336	5,361	5,164
Nigeria	4,274	4,465	5,533	4,187	5,627	8,986	8,275
Qatar	1,099	1,134	1,267	1,326	1,695	1,720	2,015
Saudi Arabia	19,114	20,110	21,784	21,153	24,069	29,074	33,254
United Arab Emirates	6,806	7,080	8,522	10,010	11,199	13,746	17,414
Venezuela	8,504	9,659	12,726	7,803	7,335	11,147	14,066
OPEC	91,921	92,340	103,660	104,880	115,705	134,046	147,152

	1993	1994	1995	1996	1997	1998	1999*
Algeria	7,770	9,370	10,250	8,840	8,749	9,865	9,762
Indonesia	28,328	31,983	40,629	42,929	41,680	27,337	24,004
IR Iran	19,287	12,614	12,744	14,989	14,123	13,889	13,680
Iraq	533	499	655	950	4,000	4,400	8,524
Kuwait	7,038	6,697	7,790	8,373	8,246	8,619	7,617
SP Libyan AJ	5,371	4,169	5,392	5,873	6,123	5,466	6,483
Nigeria	7,508	7,438	7,912	6,932	10,330	10,002	10,500
Qatar	1,891	1,927	3,398	2,868	3,322	3,409	3,900
Saudi Arabia	28,202	23,343	28,091	27,765	28,561	30,013	29,890
United Arab Emirates	19,520	21,024	20,984	22,638	29,952	32,959	33,208
Venezuela	12,511	9,187	12,650	9,880	14,607	15,818	14,789
OPEC	137,958	128,252	150,494	152,038	169,692	161,775	162,357

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; Secretariat's estimates.

Estimated OPEC Members' current account balances, 1979-99
(m \$)

	1979	1980	1981	1982	1983	1984	1985
Algeria	-1,632	249	90	-183	-85	74	1,015
Indonesia	980	3,011	-566	-5,324	-6,338	-1,856	-1,923
IR Iran	11,968	-2,438	-3,446	5,733	358	-414	-476
Iraq	11,117	14,500	-10,600	-11,900	-2,000	-1,730	-3,540
Kuwait	14,032	15,302	13,699	4,963	5,311	6,428	4,798
SP Libyan AJ	3,771	8,214	-3,964	-1,560	-1,643	-1,457	1,906
Nigeria	1,671	5,178	-6,474	-7,282	-4,332	123	2,604
Qatar	1,288	2,647	2,384	1,124	410	830	549
Saudi Arabia	10,206	41,503	39,627	7,575	-16,852	-18,401	-12,932
United Arab Emirates	5,255	10,069	9,207	7,001	5,257	7,463	6,946
Venezuela	350	4,728	4,000	-4,246	4,427	4,651	3,327
OPEC	59,005	102,962	43,958	-4,098	-15,488	-4,289	2,274

	1986	1987	1988	1989	1990	1991	1992
Algeria	-2,230	141	-2,040	-1,081	1,420	2,367	1,020
Indonesia	-3,911	-2,098	-1,397	-1,108	-2,988	-4,260	-2,780
IR Iran	-5,155	-2,090	-1,869	-191	327	-9,448	-6,504
Iraq	-3,040	2,300	-140	2,850	500	-1,000	-1,500
Kuwait	5,616	4,561	4,602	9,136	3,886	-26,479	-450
SP Libyan AJ	-166	-1,043	-1,826	-1,026	2,201	-219	1,392
Nigeria	211	-73	-296	1,090	4,988	1,203	2,268
Qatar	-189	-132	-261	-4	306	-100	-9
Saudi Arabia	-11,795	-9,773	-7,340	-9,538	-4,152	-27,546	-17,740
United Arab Emirates	2,370	4,086	2,533	4,549	5,230	1,634	3,043
Venezuela	-2,245	-1,390	-5,809	2,161	8,279	1,736	-3,749
OPEC	-20,533	-5,511	-13,844	6,838	19,998	-62,112	-25,010

	1993	1994	1995	1996	1997	1998	1999
Algeria	800	-1,840	-2,240	1,250	3,450	-2,960	-1,610
Indonesia	-2,106	-2,792	-6,431	-7,663	-4,889	4,096	5,600
IR Iran	-4,215	4,950	3,358	5,232	2,213	-1,897	5,032
Iraq	-250	-229	-402	-523	197	-167	-247
Kuwait	2,498	3,227	5,016	7,107	7,935	2,527	5,480
SP Libyan AJ	-1,362	29	1,998	1,477	1,875	-391	-97
Nigeria	-780	-2,128	-2,578	3,507	552	-4,244	-2,500
Qatar	-659	-502	-2,160	-1,246	-1,679	-2,079	-556
Saudi Arabia	-17,268	-10,487	-5,325	681	305	-13,150	-4,600
United Arab Emirates	4,060	2,600	4,280	6,610	6,310	1,370	4,110
Venezuela	-1,993	2,541	2,014	8,914	3,467	-2,562	5,400
OPEC	-21,275	-4,631	-2,471	25,346	19,736	-19,456	16,012

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, 1979-99
(units of national currency/\$)

	1979	1980	1981	1982	1983	1984	1985
Algeria	3.853	3.837	4.316	4.592	4.789	4.983	5.028
Indonesia	623.055	626.994	631.757	661.421	909.265	1,025.940	1,110.580
IR Iran	70.475	70.615	78.328	83.603	86.358	90.030	91.052
Iraq	0.295	0.295	0.295	0.299	0.311	0.311	0.311
Kuwait	0.276	0.270	0.279	0.288	0.291	0.296	0.301
SP Libyan AJ	0.296	0.296	0.296	0.296	0.296	0.296	0.296
Nigeria	0.604	0.547	0.618	0.673	0.724	0.767	0.894
Qatar	3.773	3.657	3.640	3.640	3.640	3.640	3.640
Saudi Arabia	3.361	3.327	3.383	3.428	3.455	3.524	3.622
United Arab Emirates	3.816	3.707	3.671	3.671	3.671	3.671	3.671
Venezuela	4.293	4.293	4.293	4.293	4.297	7.017	7.500

	1986	1987	1988	1989	1990	1991	1992
Algeria	4.702	4.850	5.915	7.609	8.958	18.473	21.836
Indonesia	1,282.560	1,643.850	1,685.700	1,770.060	1,842.810	1,950.320	2,029.920
IR Iran ¹	78.760	144.910	177.970	226.000	304.347	408.587	600.000
Iraq	0.311	0.311	0.311	0.311	0.311	0.311	0.311
Kuwait	0.291	0.279	0.279	0.294	0.288	0.284	0.293
SP Libyan AJ	0.296	0.295	0.286	0.300	0.283	0.281	0.285
Nigeria	1.755	4.016	4.537	7.365	8.038	9.909	17.298
Qatar	3.640	3.640	3.640	3.640	3.640	3.640	3.640
Saudi Arabia	3.703	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	8.083	14.500	14.500	34.682	46.901	56.816	68.376

	1993	1994	1995	1996	1997	1998	1999
Algeria	23.345	35.059	47.663	54.749	57.707	58.739	66.574
Indonesia	2,087.100	2,160.750	2,248.610	2,342.300	2,909.380	10,013.600	7,855.150
IR Iran ¹	1,267.770	1,748.750	1,747.930	1,750.760	1,752.920	1,751.860	1,752.930
Iraq ²	0.311	0.311	0.311	0.311	0.311	0.311	0.311
Kuwait	0.302	0.297	0.298	0.299	0.303	0.305	0.304
SP Libyan AJ	0.305	0.321	0.346	0.362	0.382	0.394	0.464
Nigeria ³	22.065	21.996	21.895	21.884	21.886	21.886	92.338
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	3.673	3.673
Venezuela	90.826	148.503	176.842	417.332	488.635	547.556	605.717

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

1. 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.

2. 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 and ID 1,800/\$ in 1999.

3. 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, 1979-99
(m b)

	1979	1980	1981	1982	1983	1984	1985
Algeria	8,440	8,200	8,080	9,440	9,220	9,000	8,820
Indonesia	12,180	11,603	11,018	10,534	10,080	9,611	9,180
IR Iran	58,833	58,296	57,020	56,148	55,257	58,874	59,000
Iraq	31,000	30,000	32,000	59,000	65,000	65,000	65,000
Kuwait	68,530	67,930	67,730	67,150	67,000	92,710	92,464
SP Libyan AJ	20,999	20,330	22,600	22,186	21,784	21,425	21,300
Nigeria	17,400	16,700	16,500	16,750	16,550	16,650	16,600
Qatar	3,760	3,585	3,450	3,425	3,330	4,500	4,500
Saudi Arabia	166,480	168,030	167,850	165,484	168,848	171,710	171,490
United Arab Emirates	29,411	30,410	32,176	32,354	32,340	32,490	32,990
Venezuela	18,523	19,530	19,888	24,900	25,887	28,028	54,454
OPEC	435,556	434,614	438,312	467,371	475,295	509,998	535,798

	1986	1987	1988	1989	1990	1991	1992
Algeria	8,800	8,564	9,200	9,236	9,200	9,200	9,200
Indonesia	9,000	9,000	9,000	5,114	5,415	5,909	5,598
IR Iran	92,860	92,860	92,860	92,860	92,850	92,860	92,860
Iraq	72,000	100,000	100,000	100,000	100,000	100,000	100,000
Kuwait	94,522	94,525	94,525	97,125	97,025	96,500	96,500
SP Libyan AJ	22,800	22,800	22,800	22,800	22,800	22,800	22,800
Nigeria	16,066	15,980	16,000	16,000	17,100	20,000	20,991
Qatar	4,500	4,500	4,500	4,500	2,993	2,993	3,121
Saudi Arabia	169,744	169,585	254,989	260,050	260,342	260,936	261,203
United Arab Emirates	97,203	98,105	98,105	98,105	98,100	98,100	98,100
Venezuela	55,521	58,101	58,505	59,040	60,054	62,649	63,330
OPEC	643,016	674,020	760,484	764,830	765,879	771,947	773,702

	1993	1994	1995	1996	1997	1998	1999
Algeria	9,200	9,979	9,979	10,800	11,200	11,314	11,314
Indonesia	5,167	4,980	4,980	4,980	4,980	4,980	4,980
IR Iran	92,860	94,300	93,700	92,600	92,600	93,700	93,100
Iraq	100,000	100,000	100,000	112,000	112,500	112,500	112,500
Kuwait	96,500	96,500	96,500	96,500	96,500	96,500	96,500
SP Libyan AJ	22,800	22,800	29,500	29,500	29,500	29,500	29,500
Nigeria	20,991	20,991	20,828	20,828	20,828	22,500	22,500
Qatar	3,121	3,500	3,700	3,700	3,700	3,700	3,700
Saudi Arabia	261,355	261,374	261,450	261,444	261,541	261,542	262,784
United Arab Emirates	98,100	98,100	98,100	97,800	97,800	97,800	97,800
Venezuela	64,448	64,877	66,329	72,667	74,931	76,108	76,848
OPEC	774,541	777,400	785,066	802,819	806,080	810,144	811,526

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; AOG.

World proven crude oil reserves by region, 1979-99
(m b)

	1979	1980	1981	1982	1983	1984	1985
North America	36,610	39,098	36,850	35,948	35,514	36,218	36,103
Latin America	57,130	74,055	84,106	89,587	90,795	92,922	118,579
Eastern Europe	62,878	65,800	65,695	65,384	65,255	64,662	64,233
Western Europe	23,837	22,761	22,333	21,340	21,985	22,579	22,067
Middle East	362,655	362,910	365,244	388,592	397,053	431,006	431,428
Africa	53,221	52,468	56,354	57,877	57,309	56,255	56,200
Asia and Far East	37,715	37,818	37,342	37,212	36,966	36,531	36,777
Oceania	1,228	1,153	1,880	1,792	1,756	1,636	1,675
Total world	635,275	656,063	669,804	697,732	706,633	741,808	767,061
OPEC	435,556	434,614	438,312	467,371	475,295	509,998	535,798
OPEC percentage	68.6	66.2	65.4	67.0	67.3	68.8	69.9

	1986	1987	1988	1989	1990	1991	1992
North America	35,123	35,770	35,351	35,877	35,586	33,344	32,091
Latin America	119,158	121,951	121,569	121,070	122,329	125,066	129,760
Eastern Europe	62,135	60,370	59,788	59,592	58,568	58,534	58,953
Western Europe	19,822	17,188	17,846	16,892	16,890	16,950	17,385
Middle East	537,184	566,768	655,830	663,348	662,019	662,461	663,307
Africa	57,265	57,063	57,839	58,792	59,733	62,409	63,855
Asia and Far East	36,405	36,643	42,433	39,505	40,555	42,147	42,285
Oceania	1,945	2,052	2,055	2,023	1,975	1,894	2,138
Total world	869,035	897,805	992,709	997,099	997,655	1,002,804	1,009,774
OPEC	643,016	674,020	760,484	764,830	765,879	771,947	773,702
OPEC percentage	74.0	75.1	76.6	76.7	76.8	77.0	76.6

	1993	1994	1995	1996	1997	1998	1999
North America	31,018	30,334	30,271	30,722	30,652	31,272	29,760
Latin America	130,936	131,309	132,473	138,762	140,342	141,909	123,681
Eastern Europe	58,932	58,968	58,961	67,366	67,374	67,281	67,260
Western Europe	17,877	19,786	20,990	18,540	18,751	18,348	21,478
Middle East	663,485	665,766	665,273	675,996	676,755	677,806	678,737
Africa	63,523	67,110	74,177	74,776	75,195	76,980	77,004
Asia and Far East	41,834	41,495	41,340	41,218	41,168	41,201	41,261
Oceania	2,024	1,981	2,064	2,210	2,270	3,355	3,355
Total world	1,009,629	1,016,749	1,025,550	1,049,590	1,052,508	1,058,154	1,042,536
OPEC	774,541	777,400	785,066	802,819	806,080	810,144	811,526
OPEC percentage	76.7	76.5	76.6	76.5	76.6	76.6	77.8

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

OPEC proven natural gas reserves, 1979-99
(billion standard cu m)

	1979	1980	1981	1982	1983	1984	1985
Algeria	3,764	3,721	3,678	3,613	3,531	3,442	3,349
Indonesia	850	822	864	960	1,189	1,699	1,982
IR Iran	14,121	14,101	14,085	14,069	14,045	14,016	13,986
Iraq	779	777	773	816	821	818	821
Kuwait	1,067	1,054	1,046	1,040	1,036	1,038	1,037
SP Libyan AJ	708	685	665	653	640	628	626
Nigeria	1,183	1,161	1,147	1,385	1,370	1,355	1,340
Qatar	1,700	2,800	2,830	3,145	3,400	4,280	4,440
Saudi Arabia	2,711	3,183	3,346	3,432	3,544	3,608	3,687
United Arab Emirates	626	2,370	2,529	2,973	3,049	3,108	3,148
Venezuela	1,247	1,262	1,365	1,471	1,562	1,666	1,735
OPEC	28,756	31,937	32,328	33,557	34,188	35,658	36,151

	1986	1987	1988	1989	1990	1991	1992
Algeria	3,259	3,163	3,234	3,250	3,300	3,626	3,650
Indonesia	2,265	2,367	2,561	2,553	2,864	2,803	1,154
IR Iran	13,955	13,922	14,200	17,000	17,003	19,800	20,700
Iraq	821	1,000	2,690	3,115	3,107	3,100	3,100
Kuwait	1,167	1,205	1,378	1,400	1,518	1,511	1,495
SP Libyan AJ	728	727	827	1,218	1,208	1,309	1,299
Nigeria	2,400	2,407	2,476	2,832	2,840	3,400	3,716
Qatar	4,440	4,440	4,621	4,620	4,615	6,428	6,713
Saudi Arabia	4,021	4,190	5,020	5,218	5,223	5,221	5,249
United Arab Emirates	5,414	5,684	5,663	5,650	5,623	5,793	5,795
Venezuela	2,622	2,838	2,856	2,993	3,429	3,582	3,693
OPEC	41,092	41,943	45,526	49,849	50,729	56,572	56,564

	1993	1994	1995	1996	1997	1998	1999
Algeria	3,700	2,963	3,690	3,700	4,077	4,077	4,523
Indonesia	1,934	3,255	3,500	3,851	3,902	4,150	4,480
IR Iran	20,700	20,764	19,350	23,000	23,000	24,100 ^f	22,370
Iraq	3,100	3,115	3,360	3,360	3,188	3,188	3,188
Kuwait	1,492	1,499	1,494	1,489	1,490	1,482	1,480
SP Libyan AJ	1,289	1,310	1,313	1,311	1,315	1,315	1,315
Nigeria	3,683	3,450	3,474	3,475	3,483	3,510 ^f	3,510
Qatar	7,070	7,070	8,500	8,500	8,500	10,900	10,900
Saudi Arabia	5,249	5,260	5,545	5,693	5,882	6,068	6,146
United Arab Emirates	5,795	6,777	5,859	5,784	6,063	5,996 ^f	5,993
Venezuela	3,693	3,965	4,065	4,052	4,121	4,147	4,152
OPEC	57,705	59,428	60,149	64,215	65,021	68,933	68,057

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

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

World proven natural gas reserves by region, 1979-99
(billion standard cu m)

	1979	1980	1981	1982	1983	1984	1985
North America	8,113	8,132	8,204	8,269	8,261	8,204	8,284
Latin America	4,120	4,597	5,039	5,180	5,280	5,408	5,651
Eastern Europe	26,140	30,872	33,349	35,624	36,489	37,962	40,506
Western Europe	4,563	4,464	5,088	5,018	5,278	5,377	5,358
Middle East	21,405	24,700	25,027	25,907	26,405	27,385	27,704
Africa	5,984	5,872	6,019	6,395	6,383	6,235	6,143
Asia and Far East	3,891	4,621	4,782	5,103	5,531	6,096	6,624
Oceania	1,019	1,018	1,047	1,072	1,188	1,614	1,688
Total world	75,234	84,276	88,556	92,568	94,814	98,281	101,960
OPEC	28,756	31,937	32,328	33,557	34,188	35,658	36,151
<i>OPEC percentage</i>	<i>38.2</i>	<i>37.9</i>	<i>36.5</i>	<i>36.3</i>	<i>36.1</i>	<i>36.3</i>	<i>35.5</i>

	1986	1987	1988	1989	1990	1991	1992
North America	8,209	8,047	7,451	7,403	7,528	7,456	7,384
Latin America	6,545	7,030	7,104	7,089	7,515	7,637	7,822
Eastern Europe	41,548	42,207	42,974	52,434	54,925	55,755	56,739
Western Europe	5,406	5,353	5,260	5,232	5,402	5,585	5,623
Middle East	30,428	31,193	34,359	37,864	38,014	43,138	44,432
Africa	7,379	7,370	7,684	8,466	8,524	9,603	9,947
Asia and Far East	7,121	7,251	7,628	8,040	8,496	9,056	8,089
Oceania	2,280	2,466	2,432	2,495	2,524	2,840	2,923
Total world	108,915	110,916	114,890	129,024	132,927	141,071	142,957
OPEC	41,092	41,943	45,526	49,849	50,729	56,572	56,564
<i>OPEC percentage</i>	<i>37.7</i>	<i>37.8</i>	<i>39.6</i>	<i>38.6</i>	<i>38.2</i>	<i>40.1</i>	<i>39.6</i>

	1993	1994	1995	1996	1997	1998	1999
North America	7,271	6,871	6,574	6,643	6,576	6,454	6,454
Latin America	7,928	7,890	7,915	7,985	8,080	8,173	7,356
Eastern Europe	56,717	58,855	58,051	57,313	57,741	57,295	57,162
Western Europe	5,388	5,781	5,843	6,511	7,156	7,157	7,142
Middle East	44,940	46,008	45,635	49,467	49,795	53,406	51,776
Africa	10,188	9,223	9,923	10,171	10,635	10,791	11,461
Asia and Far East	9,558	10,662	9,771	10,350	10,549	10,911	11,435
Oceania	3,551	3,505	3,519	3,756	3,783	3,810	3,950
Total world	145,541	148,795	147,231	152,196	154,315	157,997	156,735
OPEC	57,705	59,428	60,149	64,215	65,021	68,933	68,057
<i>OPEC percentage</i>	<i>39.6</i>	<i>39.9</i>	<i>40.9</i>	<i>42.2</i>	<i>42.1</i>	<i>43.6</i>	<i>43.4</i>

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, 1979-99
(1,000 b/d)

	1979	1980	1981	1982	1983	1984	1985
Algeria	1,153.8	1,019.9	797.8	704.5	660.9	695.4	672.4
Indonesia	1,590.8	1,575.7	1,604.2	1,324.8	1,245.3	1,280.1	1,181.5
IR Iran	3,167.9	1,816.6*	1,565.0*	2,420.6*	2,441.7	2,032.4	2,192.3
Iraq	3,476.9	2,646.4	897.4	1,078.4*	1,098.8	1,221.3	1,404.4
Kuwait ¹	2,500.3	1,663.7	1,129.7	824.3	1,054.1	1,163.0	936.3
SP Libyan AJ	2,091.7	1,831.6	1,217.8	1,136.0	1,121.1*	984.6	999.0*
Nigeria	2,302.0	2,058.0	1,439.6	1,287.0	1,235.5	1,388.0	1,498.9
Qatar	508.1	471.4	415.2	332.0	269.0	325.3	288.9*
Saudi Arabia ¹	9,532.6	9,900.5	9,808.0	6,483.0	4,539.4	4,079.1	3,175.0
United Arab Emirates	1,830.7	1,701.9	1,502.3	1,248.8	1,149.0	1,069.0	1,012.6*
Venezuela	2,356.4	2,165.0	2,108.3	1,895.0	1,800.8	1,695.5	1,564.0
OPEC	30,511.3	26,850.7	22,485.3	18,734.4	16,615.6	15,933.7	14,925.2

	1986	1987	1988	1989	1990	1991	1992
Algeria	673.9	648.2	672.9*	727.3	783.5	803.0	756.5
Indonesia	1,256.8	1,158.1	1,168.9*	1,231.0	1,299.3	1,450.0	1,347.7
IR Iran	2,037.1	2,297.6	2,476.3*	2,814.1	3,132.3*	3,401.9*	3,431.6
Iraq	1,876.5	2,358.7	2,744.5*	2,785.8	2,112.7*	281.8*	526.2
Kuwait ¹	1,129.0*	971.6	1,186.3*	1,275.9*	856.5*	190.1*	1,057.2
SP Libyan AJ	1,308.0	972.5	1,021.1*	1,129.2	1,388.5*	1,399.4*	1,432.7
Nigeria	1,466.6	1,323.0	1,340.0*	1,716.3	1,726.7	1,893.1	1,957.0
Qatar	304.3*	215.6*	233.1*	320.2	405.6	391.2	423.2
Saudi Arabia ¹	4,784.2	3,975.2	5,090.6*	5,064.5	6,412.5	8,117.8	8,331.7
United Arab Emirates	1,146.0*	1,281.1*	1,359.4*	1,641.3*	1,818.5*	2,093.6*	2,241.1*
Venezuela	1,648.5	1,575.5	1,578.1	1,747.4	2,135.2	2,286.2	2,345.6
OPEC	17,630.9	16,776.9	18,871.0	20,452.9	22,071.3	22,308.1	23,850.5

	1993	1994	1995	1996	1997	1998	1999
Algeria	747.3	752.5	752.5	805.7	846.1	827.3	749.6
Indonesia	1,327.3	1,332.8	1,328.4	1,326.7	1,330.4	1,315.4	1,207.1
IR Iran	3,425.2	3,596.0	3,595.0	3,596.0	3,603.4	3,714.0	3,439.0
Iraq	659.5	748.7	736.9	740.4	1,383.9	2,181.1	2,719.8*
Kuwait ¹	1,881.8	2,006.6	2,006.6	2,005.6	2,007.1	2,051.5	1,872.7
SP Libyan AJ	1,361.0	1,389.8	1,399.0	1,394.0	1,395.8	1,449.0*	1,287.2*
Nigeria	1,905.2	1,820.9	1,842.6	1,863.1	1,876.7	1,939.0*	1,939.8
Qatar	390.3	378.7	389.8	393.1	405.0	618.1	608.5
Saudi Arabia ¹	8,047.7	8,049.0	8,023.4	8,102.3	8,011.7	8,280.2	7,564.7
United Arab Emirates	2,159.3	2,166.5	2,148.0	2,161.3	2,160.7	2,244.1	2,048.8
Venezuela	2,326.0	2,367.9	2,378.5	2,381.0	2,411.0	3,120.0	2,800.4
OPEC	24,230.5	24,609.4	24,600.8	24,769.2	25,431.8	27,739.7	26,237.7

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, 1979-99
(1,000 b/d)

	1979	1980	1981	1982	1983	1984	1985
North America	9,968.2	9,891.7	9,683.8	9,729.6	9,888.4	10,118.2	10,207.7
Latin America	5,260.2	5,569.0	5,945.9	6,226.2	6,101.2	6,161.1	6,082.7
Eastern Europe	12,066.5	12,388.6	12,528.9	12,636.3	12,699.5	12,605.9	12,252.1
Western Europe	2,336.3	2,520.2	2,736.4	2,984.3	3,381.4	3,689.7	3,878.2
Middle East	21,568.8	18,694.4	15,858.5	12,929.7	11,149.8	10,518.3	9,727.7
Africa	6,584.3	6,061.1	4,642.2	4,403.2	4,442.5	4,609.0	4,872.4
Asia and Far East	4,541.1	4,566.3	4,441.1	4,213.9	4,342.8	4,744.2	4,932.8
Oceania	448.8	386.5	402.6	386.2	430.5	508.4	588.8
Total world	62,774.1	60,077.8	56,239.5	53,509.3	52,436.1	52,954.9	52,542.3
OPEC	30,511.3	26,850.7	22,485.3	18,734.4	16,615.6	15,933.7	14,925.2
<i>OPEC percentage</i>	<i>48.6</i>	<i>44.7</i>	<i>40.0</i>	<i>35.0</i>	<i>31.7</i>	<i>30.1</i>	<i>28.4</i>

	1986	1987	1988	1989	1990	1991	1992
North America	9,866.2	9,558.9	9,417.3	8,855.1	8,518.1	8,552.9	8,413.7
Latin America	6,041.9	6,053.4	6,103.0	6,334.3	6,861.0	7,140.7	7,271.4
Eastern Europe	12,640.7	12,795.8	12,779.6	12,437.3	11,772.3	10,635.1	9,267.4
Western Europe	3,988.5	4,076.8	4,062.6	3,862.7	4,068.8	4,299.5	4,591.9
Middle East	12,073.7	11,955.4	14,175.3	15,180.3	16,127.8	15,957.5	17,568.5
Africa	5,149.5	4,789.0	4,955.0	5,548.6	5,964.9	6,222.7	6,338.1
Asia and Far East	5,219.6	5,168.1	5,299.1	5,468.9	5,654.3	5,832.3	5,737.6
Oceania	531.7	576.6	559.4	527.6	616.3	585.7	624.9
Total world	55,511.8	54,974.0	57,351.4	58,214.7	59,583.4	59,226.6	59,813.5
OPEC	17,630.9	16,776.9	18,871.0	20,452.9	22,071.3	22,308.1	23,850.5
<i>OPEC percentage</i>	<i>31.8</i>	<i>30.5</i>	<i>32.9</i>	<i>35.1</i>	<i>37.0</i>	<i>37.7</i>	<i>39.9</i>

	1993	1994	1995	1996	1997	1998	1999
North America	8,150.8	8,011.2	7,939.1	7,857.4	7,869.5	7,623.1	7,268.6
Latin America	7,352.8	7,555.6	7,731.8	8,162.7	8,481.6	9,525.1	9,213.0
Eastern Europe	8,141.4	7,305.9	7,261.2	7,228.9	7,402.6	7,423.8	7,606.1
Western Europe	4,867.1	5,585.0	5,743.9	6,081.4	6,130.3	6,055.2	6,141.2
Middle East	18,264.5	18,808.5	18,856.3	19,019.3	19,606.6	21,108.5	20,289.0
Africa	6,180.5	6,134.7	6,213.4	6,433.4	6,613.2	6,734.6	6,517.9
Asia and Far East	5,786.0	5,967.5	6,131.6	6,280.7	6,380.8	6,362.4	6,286.0
Oceania	663.2	698.2	643.0	684.2	704.9	659.7	634.9
Total world	59,406.3	60,066.7	60,520.3	61,748.0	63,189.6	65,492.4	63,956.8
OPEC	24,230.5	24,609.4	24,600.8	24,769.2	25,431.8	27,739.7	26,237.7
<i>OPEC percentage</i>	<i>40.8</i>	<i>41.0</i>	<i>40.6</i>	<i>40.1</i>	<i>40.2</i>	<i>42.4</i>	<i>41.0</i>

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, 1979-99
(million standard cu m)

	1979	1980	1981	1982	1983	1984	1985
Algeria	15,548	11,647	21,862	26,686	36,267	35,039	36,470
Indonesia	15,765	18,503	18,775	19,076	21,992	32,969	33,905
IR Iran	17,913	7,138	5,950	7,200	11,000	13,500	14,600
Iraq	1,751	1,281	620	680	470	590	850
Kuwait	6,251	4,071	4,684	3,675	4,035	4,376	4,200
SP Libyan AJ	6,785	5,170	3,150	3,350	3,710	4,600	5,200
Nigeria	1,378	1,070	2,155	1,413	2,298	2,051	2,800
Qatar	4,362	4,741	4,323	5,055	5,235	5,930	5,460
Saudi Arabia	9,167	11,431	22,245	8,950	4,380	18,200	18,800
United Arab Emirates	5,431	6,863	9,075	8,320	8,400	11,060	13,210
Venezuela	14,382	14,805	14,886	15,883	15,640	17,300	17,326
OPEC	98,733	86,720	107,725	100,288	113,427	145,615	152,821

	1986	1987	1988	1989	1990	1991	1992
Algeria	37,560	43,170	46,290	48,400	51,600	53,910	53,246
Indonesia	35,374	36,550	38,510	43,234	47,580	51,370	54,190
IR Iran	15,200	16,000	20,000	22,200	24,200	32,200	35,100
Iraq	1,550	3,750	5,600	6,450	3,980	1,740	2,270
Kuwait	5,730	4,780	6,840	8,160	4,190	500	2,620
SP Libyan AJ	5,600	5,000	5,500	6,800	6,200	6,540	6,770
Nigeria	3,299	3,493	3,770	4,322	4,010	4,400	4,421
Qatar	5,800	5,610	5,860	6,200	6,300	7,630	12,620
Saudi Arabia	25,200	26,800	29,100	29,800	33,520	35,170	38,250
United Arab Emirates	15,220	18,890	19,360	22,380	22,110	25,810	22,170
Venezuela	19,074	18,587	19,028	19,538	21,966	21,902	21,617
OPEC	169,607	182,630	199,858	217,484	225,656	241,172	253,274

	1993	1994	1995	1996	1997	1998	1999*
Algeria	53,872	51,157	62,301	67,114	75,730	80,876	85,848
Indonesia	55,860	63,473	63,360	66,660	67,150	63,470	66,000
IR Iran	36,900	40,400	38,600	40,410	47,000	50,000	56,755
Iraq	2,550	3,170	3,170	3,240	3,050	2,950	3,200
Kuwait	5,420	5,970	9,278	9,302	9,270	9,491	8,688
SP Libyan AJ	6,360	6,390	6,340	6,420	6,570	6,360	6,100
Nigeria	5,050	4,550	4,844	5,460	5,850	5,900	6,500
Qatar	13,500	13,500	13,500	13,700	17,400	19,580	24,000
Saudi Arabia	40,040	42,770	42,930	44,510	45,840	46,720	46,200
United Arab Emirates	22,990	25,820	31,320	33,800	36,310	37,070	38,599
Venezuela	25,613	24,675	25,200	29,730	30,211	28,060	26,771
OPEC	268,155	281,875	300,843	320,346	344,381	350,477	368,661

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; Secretariat's estimates.

World marketed production of natural gas by region, 1979-99
(million standard cu m)

	1979	1980	1981	1982	1983	1984	1985
North America	634,891	620,888	613,645	579,058	527,184	572,803	550,086
Latin America	53,791	63,692	65,556	69,866	75,865	76,961	74,024
Eastern Europe	398,421	426,049	515,060	554,240	586,270	634,810	696,610
Western Europe	192,819	189,428	196,320	184,454	194,171	198,920	206,116
Middle East	48,294	40,936	52,806	40,750	37,770	58,656	63,860
Africa	25,981	20,197	29,489	35,060	46,344	46,632	50,361
Asia and Far East	63,569	67,667	65,729	69,796	78,362	94,349	102,035
Oceania	9,242	10,057	12,330	13,900	13,030	14,070	16,060
Total world	1,427,008	1,438,914	1,550,935	1,547,124	1,558,996	1,697,201	1,759,152
OPEC	98,733	86,720	107,725	100,288	113,427	145,615	152,821
OPEC percentage	6.9	6.0	6.9	6.5	7.3	8.6	8.7

	1986	1987	1988	1989	1990	1991	1992
North America	533,375	555,588	582,498	595,216	611,194	616,016	633,128
Latin America	76,554	76,067	79,578	81,798	85,696	85,642	82,317
Eastern Europe	738,070	777,380	816,670	841,010	852,500	844,990	803,100
Western Europe	201,735	212,750	200,560	205,110	203,850	216,240	219,600
Middle East	76,070	83,830	94,530	106,180	105,740	115,040	126,510
Africa	53,140	58,949	63,510	68,202	70,890	74,890	75,387
Asia and Far East	109,724	109,390	115,010	123,594	128,240	139,710	148,800
Oceania	17,690	17,850	18,440	20,370	22,930	24,590	27,170
Total world	1,806,358	1,891,804	1,970,796	2,041,480	2,081,040	2,117,118	2,116,012
OPEC	169,607	182,630	199,858	217,484	225,656	241,172	253,274
OPEC percentage	9.4	9.7	10.1	10.7	10.8	11.4	12.0

	1993	1994	1995	1996	1997	1998	1999*
North America	651,464	682,075	685,328	697,549	700,829	700,454	706,380
Latin America	93,043	94,765	99,630	109,950	114,471	121,830	131,061
Eastern Europe	791,430	748,930	734,800	740,350	694,510	714,160	724,450
Western Europe	231,280	233,820	241,800	278,990	271,960	272,330	276,850
Middle East	135,910	146,480	152,708	159,962	178,680	187,201	199,542
Africa	79,452	77,077	88,975	96,174	106,410	111,906	119,038
Asia and Far East	156,790	170,703	178,170	194,630	204,060	207,070	218,470
Oceania	27,020	30,430	32,300	33,110	35,130	35,720	36,410
Total world	2,166,389	2,184,280	2,213,711	2,310,715	2,306,050	2,350,671	2,412,201
OPEC	268,155	281,875	300,843	320,346	344,381	350,477	368,661
OPEC percentage	12.4	12.9	13.6	13.9	14.9	14.9	15.3

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, 1979-99
(1,000 b/d)

	1979	1980	1981	1982	1983	1984	1985
Algeria	135.1	471.2	471.2	471.2	471.2	471.2	471.2
Indonesia	473.4	473.4	473.4	473.4	837.0	837.0	837.0
IR Iran	1,080.0	1,320.0	1,320.0	670.0	670.0	615.0	615.0
Iraq	305.5	305.5	305.5	215.5	365.5	365.5	365.5
Kuwait	594.0	594.0	594.0	594.0	564.0	564.0	564.0
SP Libyan AJ	117.0	117.0	117.0	117.0	117.0	315.0	333.0
Nigeria	144.0	234.0	234.0	234.0	234.0	234.0	234.0
Qatar	10.5	10.5	10.5	13.0	63.0	63.0	63.0
Saudi Arabia	758.0	645.0	765.0	765.0	935.0	1,190.0	1,440.0
United Arab Emirates	15.0	15.0	135.0	135.0	180.0	180.0	180.0
Venezuela	1,444.9	1,444.9	1,444.9	1,323.1	1,323.1	1,224.2	1,229.2
OPEC	5,077.4	5,630.5	5,870.5	5,011.2	5,759.8	6,058.9	6,331.9

	1986	1987	1988	1989	1990	1991	1992
Algeria	471.2	471.2	471.2	474.5	474.5	474.5	474.5
Indonesia	738.7	738.7	738.7	751.3	751.3	782.8	782.8
IR Iran	615.0	615.0	615.0	777.0	777.0	957.0	957.0
Iraq	365.5	365.5	365.5	550.0	550.0	550.0 ¹	550.0 ¹
Kuwait	614.0	670.0	670.0	670.0	670.0	670.0 ¹	670.0 ¹
SP Libyan AJ	342.0	342.0	342.0	342.0	342.0	342.0	342.0
Nigeria	243.0	265.5	265.5	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	1,440.0	1,425.0	1,425.0	1,750.0	1,750.0	1,750.0	1,550.0
United Arab Emirates	180.0	180.0	180.0	180.0	192.5	192.5	192.5
Venezuela	1,224.2	1,258.1	1,201.1	1,167.0	1,224.0	1,224.0	1,224.0
OPEC	6,296.6	6,394.0	6,337.0	7,125.3	7,194.8	7,406.3	7,206.3

	1993	1994	1995	1996	1997	1998	1999
Algeria	474.5	468.6	462.2	462.2	462.2	462.2	462.2
Indonesia	782.8	895.3	891.2	891.2	891.2	929.7	929.7
IR Iran	1,092.0	1,092.0	1,092.0	1,092.0	1,208.0	1,524.0	1,474.0
Iraq	595.0	603.0	603.0	603.0	603.0	603.0	603.0
Kuwait	670.0 ¹	820.0	820.0	797.0	874.5	829.6	899.0
SP Libyan AJ	342.0	342.0	342.0	342.0	342.0	342.0	342.0
Nigeria	400.5	400.5	424.0	424.0	424.0	424.0	424.0
Qatar	63.0	63.0	63.0	63.0	63.0	63.0	63.0
Saudi Arabia	1,550.0	1,670.0	1,670.0	1,670.0	1,693.0	1,780.0	1,810.0
United Arab Emirates	205.0	205.0	211.0	246.0	291.0	291.0	411.0
Venezuela	1,181.0	1,181.0	1,181.0	1,183.2	1,183.2	1,200.3	1,188.4
OPEC	7,355.8	7,740.4	7,759.4	7,773.6	8,035.1	8,448.8	8,606.3

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; OGJ; AOG; national sources.

World refinery capacity by region, 1979-99
(1,000 b/cd)

	1979	1980	1981	1982	1983	1984	1985
North America	19,956.8	20,633.7	20,053.2	19,004.2	18,031.3	17,589.3	17,382.6
Latin America	8,629.4	8,668.6	8,623.5	8,136.2	8,014.9	7,433.1	7,426.2
Eastern Europe	13,028.0	13,508.5	13,708.5	13,858.5	14,108.5	14,038.5	14,038.5
Western Europe	20,997.4	21,066.5	20,576.9	18,359.4	17,332.1	16,755.9	15,303.6
Middle East	3,679.8	3,865.0	4,109.6	3,422.2	3,748.4	3,979.4	4,227.9
Africa	1,666.2	2,220.5	2,186.2	2,278.0	2,324.6	2,539.7	2,603.4
Asia and Far East	11,028.9	11,516.7	11,750.3	12,136.2	11,707.2	11,651.8	11,697.0
Oceania	842.5	861.0	859.5	833.5	840.0	793.8	675.6
Total world	79,829.0	82,340.5	81,867.8	78,028.2	76,106.9	74,781.4	73,354.8
OPEC	5,077.4	5,630.5	5,870.5	5,011.2	5,759.8	6,058.9	6,331.9
OPEC percentage	6.4	6.8	7.2	6.4	7.6	8.1	8.6

	1986	1987	1988	1989	1990	1991	1992
North America	17,325.2	17,784.3	17,510.7	17,423.8	17,557.7	17,705.1	17,037.5
Latin America	7,088.3	7,427.3	7,357.5	7,564.0	7,765.7	7,538.9	7,604.8
Eastern Europe ¹	14,298.5	14,277.0	14,317.0	14,317.0	12,255.1	12,202.7	12,204.5
Western Europe	14,881.8	15,205.2	14,937.8	14,734.6	14,833.0	14,973.5	15,055.7
Middle East	4,301.4	4,371.2	4,377.7	5,049.2	5,055.8	5,266.9	5,079.9
Africa	2,612.4	2,658.3	2,651.5	2,790.8	2,826.4	2,820.2	2,818.8
Asia and Far East	11,860.6	11,674.1	11,522.1	11,628.9	12,048.5	12,409.3	13,347.5
Oceania	680.1	718.8	732.5	770.1	800.6	798.1	782.3
Total world	73,048.3	74,116.2	73,406.7	74,278.4	73,142.8	73,714.6	73,930.9
OPEC	6,296.6	6,394.0	6,337.0	7,125.3	7,194.8	7,406.3	7,206.3
OPEC percentage	8.6	8.6	8.6	9.6	9.8	10.0	9.7

	1993	1994	1995	1996	1997	1998	1999
North America	16,988.9	17,418.5	17,359.2	17,324.4	17,627.6	17,802.7	18,452.6
Latin America	7,443.6	7,387.6	7,447.2	7,457.9	7,922.6	7,606.3	7,676.5
Eastern Europe ¹	12,183.9	12,305.2	12,193.9	12,125.4	11,976.2	11,294.4	11,317.3
Western Europe	14,887.0	14,757.8	14,698.9	14,672.2	14,864.4	15,065.0	14,929.2
Middle East	5,260.1	5,559.1	5,565.1	5,528.3	5,781.0	6,134.5	6,303.9
Africa	2,746.1	2,780.9	2,795.9	2,833.3	2,888.3	2,944.5	2,982.5
Asia and Far East	13,628.7	14,198.4	15,081.8	15,741.8	16,013.3	17,776.7	18,580.6
Oceania	797.5	793.7	823.9	862.5	853.3	905.1	910.4
Total world	73,935.8	75,201.3	75,965.9	76,545.7	77,926.8	79,529.3	81,141.3
OPEC	7,355.8	7,740.4	7,759.4	7,773.6	8,035.1	8,448.8	8,606.3
OPEC percentage	9.9	10.3	10.2	10.1	10.4	10.6	10.6

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 former Soviet Union.

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

Output of refined products in OPEC Members, 1979-99
(1,000 b/d)

	1979	1980	1981	1982	1983	1984	1985
Algeria	153.0	217.4	283.7	400.2	386.8	407.9	390.0
Indonesia	509.7	526.9	530.8	534.0	526.1	499.3	501.4
IR Iran	661.0	582.3	626.6	658.7	624.0	618.0	647.0
Iraq	183.0	187.0	190.0	190.5	292.0	340.0	344.0
Kuwait	439.8	336.5	276.3	420.0	468.4	478.9	566.5
SP Libyan AJ	98.4	108.6	111.3	121.6	126.4	128.5	143.9
Nigeria	89.0	120.9	151.9	162.1	151.2	160.2	135.2
Qatar	9.4	7.7	7.8	7.4	8.4	14.2	23.2
Saudi Arabia	746.8	736.9	758.8	804.8	877.2	917.6	1,115.6
United Arab Emirates	11.3	11.8	54.8	84.0	108.6	142.2	148.5
Venezuela	978.6	903.9	839.8	850.7	833.7	839.7	892.4
OPEC	3,880.0	3,739.9	3,831.8	4,234.0	4,402.8	4,546.5	4,907.7

	1986	1987	1988	1989	1990	1991	1992
Algeria	433.0	431.0	433.3	433.6	435.3	428.6	434.5
Indonesia	550.0	568.7	606.5	640.4	711.2	677.8	649.9
IR Iran	558.4	541.2	614.1	669.9	751.0	806.1	851.4
Iraq	346.4	351.1	351.5	389.2	344.8	274.3	358.0
Kuwait	599.0	593.1	652.2	689.0	554.7	105.7	313.3
SP Libyan AJ	182.1	204.9	222.8	261.5	278.0	282.0	282.4
Nigeria	136.0	135.2	154.8	214.2	257.2	242.8	218.9
Qatar	29.0	33.0	37.6	49.3	57.2	53.2	58.4
Saudi Arabia	1,333.5	1,386.8	1,442.3	1,335.2	1,537.6	1,417.1	1,447.5
United Arab Emirates	166.0	168.3	174.1	177.8	187.7	183.8	185.4
Venezuela	895.8	831.4	975.8	1,010.1	1,038.6	1,087.8	1,050.6
OPEC	5,229.2	5,244.7	5,665.0	5,870.2	6,153.3	5,559.2	5,850.3

	1993	1994	1995	1996	1997	1998	1999
Algeria	426.1	429.8	440.7	429.4	435.6	410.2	430.6
Indonesia	770.5	767.4	854.3	892.9	887.6	884.2	770.6
IR Iran	911.7	916.9	942.0	957.0	974.4	1,337.8	1,361.2
Iraq	417.7	457.7	447.8	438.3	449.0	463.7	447.3
Kuwait	449.4	782.4	821.7	787.7	879.6	876.1	903.3
SP Libyan AJ	286.8	295.4	300.4	304.7	307.6	248.2	242.6
Nigeria	220.3	108.4	161.3	193.0	192.5	113.6	131.1
Qatar	49.4	57.1	57.8	60.9	55.4	60.1	59.8
Saudi Arabia	1,482.0	1,511.3	1,449.9	1,641.0	1,584.4	1,600.3	1,593.2
United Arab Emirates	193.4	208.4	230.1	234.9	298.4	222.4	232.9
Venezuela	1,069.3	1,126.8	1,201.1	1,335.2	1,327.3	1,332.7	1,209.3
OPEC	6,276.6	6,661.7	6,907.0	7,275.0	7,391.8	7,549.2	7,381.9

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; OIAPEC Report; OECD, Energy Statistics and Balances of non-OECD Countries.

World output of refined products by region, 1979-99
(1,000 b/d)

	1979	1980	1981	1982	1983	1984	1985
North America	17,725.7	16,539.2	15,771.0	14,927.1	14,604.5	15,162.9	15,221.4
Latin America	5,736.3	5,939.9	5,781.0	5,554.3	5,274.7	5,352.4	5,078.7
Eastern Europe	10,036.4	10,626.9	10,453.8	10,375.4	10,459.8	10,018.1	9,848.9
Western Europe	14,635.5	13,780.1	12,552.5	11,970.6	11,890.3	11,888.9	11,626.2
Middle East	2,483.4	2,478.5	2,599.3	2,810.5	3,045.7	3,218.4	3,558.6
Africa	1,200.4	1,397.2	1,531.2	1,704.5	1,736.2	1,724.7	1,735.6
Asia and Far East	8,747.4	8,466.9	8,236.1	8,041.6	8,234.8	8,344.5	8,188.0
Oceania	679.5	714.1	656.4	657.4	649.8	640.4	630.0
Total world	61,244.6	59,942.8	57,581.3	56,041.3	55,896.0	56,350.2	55,887.4
OPEC	3,880.0	3,739.9	3,831.8	4,234.0	4,402.8	4,546.5	4,907.7
OPEC percentage	6.3	6.2	6.7	7.6	7.9	8.1	8.8

	1986	1987	1988	1989	1990	1991	1992
North America	15,912.0	16,162.6	16,639.3	16,860.7	16,986.4	16,911.2	17,013.5
Latin America	5,100.8	5,226.3	5,356.4	5,554.8	5,706.2	5,747.4	5,709.4
Eastern Europe	10,702.5	10,803.8	10,698.9	10,546.6	9,850.4	9,202.5	7,762.4
Western Europe	12,409.3	12,298.4	12,844.9	12,868.7	13,234.6	13,436.9	13,829.2
Middle East	3,790.3	3,847.6	4,057.9	4,102.4	4,278.5	3,696.4	4,117.2
Africa	1,826.5	1,864.1	1,944.4	2,090.4	2,190.2	2,183.8	2,168.8
Asia and Far East	8,454.9	8,627.9	8,984.4	9,666.1	10,304.6	10,990.5	11,721.7
Oceania	630.3	648.4	698.6	721.5	751.6	767.7	783.9
Total world	58,826.7	59,479.1	61,224.8	62,411.2	63,302.6	62,936.5	63,106.1
OPEC	5,229.2	5,244.7	5,665.0	5,870.2	6,153.3	5,559.2	5,850.3
OPEC percentage	8.9	8.8	9.3	9.4	9.7	8.8	9.3

	1993	1994	1995	1996	1997	1998	1999*
North America	17,522.4	17,628.6	17,833.2	18,355.2	18,858.6	19,147.1	19,216.1
Latin America	5,812.5	6,045.0	6,078.4	6,239.5	6,211.8	6,344.2	6,366.2
Eastern Europe	6,849.0	5,996.7	6,014.0	5,813.8	5,798.5	5,699.4	5,689.7
Western Europe	13,930.0	14,266.8	14,241.7	14,590.2	14,885.9	15,262.5	14,558.3
Middle East	4,409.1	4,864.9	4,881.5	5,026.4	5,185.7	5,497.7	5,542.5
Africa	2,197.0	2,155.4	2,267.5	2,332.7	2,344.1	2,185.6	2,270.3
Asia and Far East	12,521.3	12,964.5	13,808.1	14,654.2	15,473.0	15,269.1	15,499.4
Oceania	823.4	831.9	851.8	864.0	900.0	886.4	915.1
Total world	64,064.8	64,753.7	65,976.1	67,876.0	69,657.6	70,292.0	70,057.6
OPEC	6,276.6	6,661.7	6,907.0	7,275.0	7,391.8	7,549.2	7,381.9
OPEC percentage	9.8	10.3	10.5	10.7	10.6	10.7	10.5

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; OIAPEC Report.

Consumption of refined products in OPEC Members, 1979-99
(1,000 b/d)

	1979	1980	1981	1982	1983	1984	1985
Algeria	95.3	101.4	103.9	116.4	122.2	140.5	143.5
Indonesia	375.4	424.5	458.7	479.7	467.6	468.6	462.8
IR Iran	543.0	511.7	618.1	719.1	871.4	723	735
Iraq	183.9	188.9	204.6	203.2	249.7	234.2	256
Kuwait	32.2	37.0	49.4	67.9	74.4	89.5	101.7
SP Libyan AJ	80.3	89.5	109.7	118.8	117.3	108.5	103
Nigeria	154.3	171.0	235.8	236.3	225.9	203.3	214
Qatar	5.4	6.1	6.8	7.8	8.5	8.9	10.5
Saudi Arabia	287.5	407.2	498.6	546.6	603.6	651.8	632.1
United Arab Emirates ¹	34.6	58.3	72.5	83.7	85.0	98.3	100.9
Venezuela	324.8	366.7	389.4	391.2	384.2	352.1	355.8
OPEC	2,116.7	2,362.3	2,747.5	2,970.7	3,209.8	3,078.7	3,115.3

	1986	1987	1988	1989	1990	1991	1992
Algeria	147.2	152.6	158.0	168.1	177.5	162.3	190.7
Indonesia	470	491.6	514.0	547.9	629.7	661.4	701.4
IR Iran	711.5	751	766.0	778.5	853.8	892.6	940.7
Iraq	261.3	281.3	294.7	303.3	324.7	308.8	440.3
Kuwait	96.1	85	75.0	72.4	65.2	66.2	101.1
SP Libyan AJ	94	99.5	104.3	107.7	100.5	105.9	107.5
Nigeria	196.3	218.6	231.8	247.8	254.8	234.6	244.9
Qatar	11.6	11.6	12.5	13.0	13.2	12.8	13.9
Saudi Arabia	621.3	632	685.9	701.4	680.0	676.3	729.4
United Arab Emirates	102.6	109.4	112.7	114.3	115.9	118.8	124.9
Venezuela	375.9	377.7	386.8	367.5	375.0	379.8	402.3
OPEC	3,087.8	3,210.3	3,341.7	3,421.9	3,590.3	3,619.5	3,997.2

	1993	1994	1995	1996	1997	1998	1999
Algeria	186.8	177.3	172.7	168.7	163.6	171.2	175.8
Indonesia	711.4	751.7	774.7	865.4	946.9	896.7	846.5
IR Iran	960.2	920.0	945.0	984.1	981.6	1,318.0	1,192.2
Iraq	563.6	623.5	612.9	594.5	601.4	620.7	599.6
Kuwait	95.2	106.2	117.6	114.1	131.8	158.8	163.8
SP Libyan AJ	125.5	153.5	174.1	175.3	174.1	195.0	210.7
Nigeria	211.1	160.4	186.1	199.7	206.0	198.6	184.3
Qatar	13.7	16.3	17.2	19.3	21.6	23.2	22.2
Saudi Arabia	767.5	792.4	751.2	807.4	814.5	865.8	908.4
United Arab Emirates	133.1	132.1	125.5	123.0	115.0	130.0	127.9
Venezuela	419.8	412.1	416.6	403.5	411.1	441.7	383.2
OPEC	4,188.1	4,245.5	4,293.7	4,455.0	4,567.7	5,019.6	4,814.4

Note:

1. 1979, Abu Dhabi only.

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

World consumption of refined products by region, 1979-99
(1,000 b/d)

	1979	1980	1981	1982	1983	1984	1985
North America	19,250.4	18,149.5	17,052.8	16,142.9	15,901.3	16,639.4	16,545.6
Latin America	4,539.7	4,594.3	4,580.6	4,477.5	4,262.4	4,317.1	4,298.0
Eastern Europe	10,295.4	10,505.4	10,511.6	10,519.5	10,506.6	10,422.0	10,506.8
Western Europe	13,947.4	13,102.3	11,980.4	11,484.7	11,195.2	11,201.7	11,419.6
Middle East	1,448.6	1,544.4	1,834.8	2,025.8	2,318.5	2,263.6	2,284.3
Africa	1,247.7	1,272.6	1,422.0	1,447.0	1,517.1	1,519.4	1,549.8
Asia and Far East	10,274.2	9,710.0	9,427.4	9,284.3	9,483.0	9,288.8	9,155.3
Oceania	722.4	754.9	744.9	751.9	698.4	723.2	723.1
Total world	61,725.8	59,633.3	57,554.5	56,133.6	55,882.4	56,375.2	56,482.4
OPEC	2,116.7	2,362.3	2,747.5	2,970.7	3,209.8	3,087.0	3,115.3
OPEC percentage	3.4	4.0	4.8	5.3	5.7	5.5	5.5

	1986	1987	1988	1989	1990	1991	1992
North America	17,090.5	17,546.4	18,222.6	18,258.0	17,570.1	17,129.7	17,525.8
Latin America	4,549.5	4,714.3	4,806.8	4,943.1	4,962.4	5,098.3	5,214.1
Eastern Europe	10,490.8	10,550.1	10,316.0	10,039.3	9,609.6	9,278.8	7,618.7
Western Europe	11,767.9	11,889.9	12,097.1	12,086.9	12,205.0	12,544.1	12,674.6
Middle East	2,277.9	2,379.3	2,449.5	2,476.7	2,582.4	2,646.5	2,950.8
Africa	1,531.9	1,633.5	1,700.7	1,754.2	1,778.3	1,748.0	1,796.8
Asia and Far East	9,615.3	9,880.9	10,436.9	11,095.5	11,749.1	12,375.6	13,213.6
Oceania	746.4	776.7	814.6	844.8	856.4	846.6	825.5
Total world	58,070.2	59,371.0	60,844.2	61,498.3	61,313.4	61,667.5	61,819.8
OPEC	3,087.8	3,210.4	3,341.6	3,421.9	3,590.3	3,619.5	3,997.2
OPEC percentage	5.3	5.4	5.5	5.6	5.9	5.9	6.5

	1993	1994	1995	1996	1997	1998	1999
North America	17,943.6	18,483.2	18,447.0	18,990.6	19,370.6	19,736.9	20,312.2
Latin America	5,326.6	5,554.6	5,587.1	5,799.8	6,017.2	6,262.9	6,305.5
Eastern Europe	6,575.7	5,730.6	5,695.4	5,337.5	5,468.1	5,327.6	5,138.2
Western Europe	12,606.2	12,621.2	12,991.0	13,341.3	13,385.5	13,671.2	13,579.7
Middle East	3,161.5	3,259.7	3,278.4	3,364.5	3,397.8	3,841.9	3,769.2
Africa	1,799.1	1,790.7	1,897.9	1,918.6	1,979.3	2,038.4	2,029.0
Asia and Far East	13,895.2	14,659.6	15,630.0	16,568.8	17,381.6	16,616.8	17,287.0
Oceania	797.8	783.7	772.4	802.5	800.8	795.5	790.8
Total world	62,105.6	62,883.3	64,299.2	66,123.7	67,801.0	68,291.1	69,211.6
OPEC	4,188.1	4,245.5	4,293.7	4,455.0	4,567.7	5,019.6	4,814.4
OPEC percentage	6.7	6.8	6.7	6.7	6.7	7.4	7.0

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; OAPEEC Report; OLADE Data Bank.

Crude oil exports by OPEC Members, 1979-99
(1,000 b/d)

	1979	1980	1981	1982	1983	1984	1985
Algeria	960.4	715.5	521.8	228.9	260.4	181.6	272.0
Indonesia	1,077.7	988.0	992.5	818.6	858.3	876.3	705.7
IR Iran	2,407.0	796.7	714.6	1,623.2	1,718.7	1,521.8	1,568.3
Iraq	3,247.0	2,482.0	872.0	846.0	702.0	867.0	1,085.4
Kuwait	2,083.1	1,296.5	813.8	368.8	544.4	658.0	475.9
SP Libyan AJ	1,966.0	1,693.0	1,062.5	974.0	937.4	929.6	894.6
Nigeria	2,210.1	1,960.2	1,228.4	1,002.8	935.2	1,094.1	1,333.3
Qatar	494.9	465.7	391.0	322.8	279.5	386.2	280.0
Saudi Arabia	8,817.7	9,223.2	9,017.9	5,639.4	3,920.8	3,186.9	2,150.7
United Arab Emirates	1,805.3	1,697.3	1,439.0	1,167.0	1,077.3	1,036.7	977.7
Venezuela	1,408.3	1,287.2	1,266.0	1,057.9	976.7	998.9	825.9
OPEC	26,477.5	22,605.3	18,319.5	14,049.4	12,210.7	11,737.1	10,569.5

	1986	1987	1988	1989	1990	1991	1992
Algeria	255.0	240.0	244.0	280.5	280.6*	344.7	279.4
Indonesia	793.8	701.0	646.6	675.7	684.7	798.8	652.0
IR Iran	1,454.0	1,710.0	1,696.0	2,120.0 ¹	2,220.0 ¹	2,420.0 ¹	2,528.0*
Iraq	1,393.5	1,717.0	2,095.0	2,260.0	1,596.0*	39.0*	60.7*
Kuwait	756.0	607.0	698.0	850.0	645.0*	85.0*	695.6*
SP Libyan AJ	1,067.0	810.0	890.0	872.0	1,090.0*	1,220.0*	1,180.0*
Nigeria	1,221.2	1,065.2	1,110.5	1,525.9	1,550.0*	1,610.0*	1,585.0*
Qatar	307.0	254.0	305.0	320.0	347.8	336.6	362.3
Saudi Arabia	3,265.8	2,416.5	3,030.1	3,335.5	4,499.8	6,526.3	6,581.9
United Arab Emirates	1,132.0	1,250.0	1,345.0	1,650.0	1,895.0*	2,195.0*	2,060.0*
Venezuela	948.7	1,026.9	972.7	986.3	1,242.0	1,381.3	1,429.0
OPEC	12,594.0	11,797.6	13,032.9	14,875.9	16,050.9	16,956.7	17,413.9

	1993	1994	1995	1996	1997	1998	1999
Algeria	308.0	329.2	332.8	390.8	373.1	549.4	414.6
Indonesia	681.6	792.6	743.9	706.7	709.7	678.0*	721.5*
IR Iran	2,600.0*	2,650.0*	2,621.0*	2,630.0*	2,587.0*	2,512.0*	2,531.0*
Iraq	59.2*	60.0*	63.5*	88.1*	721.9 ¹	1,554.1*	2,024.9*
Kuwait	1,440.0*	1,263.5	1,186.4	1,224.2	1,134.2	1,190.2	948.2
SP Libyan AJ	1,110.0*	1,125.0*	1,120.3	1,123.4 ¹	1,115.7 ¹	1,161.0 ¹	1,103.9*
Nigeria	1,557.0	1,590.0*	1,665.0*	1,897.4	1,930.9 ¹	1,707.8 ¹	1,477.3*
Qatar	340.6	322.6	333.0*	367.0*	465.0*	572.4	580.5
Saudi Arabia	6,292.9	6,233.6	6,290.8	6,109.3	6,184.5	6,390.4	5,719.7
United Arab Emirates	1,970.0*	1,955.0*	1,925.0	1,943.2	1,949.0	2,039.0	1,919.0
Venezuela	1,540.3	1,696.4	1,819.9	1,976.4	2,210.8	2,243.9	1,923.0
OPEC	17,899.6	18,017.9	18,101.6	18,456.6	19,381.8	20,598.3	19,363.5

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, 1979-99
(1,000 b/d)

	1979	1980	1981	1982	1983	1984	1985
North America	5,512.3	4,212.1	2,987.4	1,559.8	1,289.6	1,258.9	1,169.7
United States	5,042.3	3,755.5	2,657.7	1,371.9	1,179.6	1,164.2	1,077.4
Latin America	2,571.8	2,180.1	1,763.0	1,370.0	1,210.4	1,120.5	908.6
Eastern Europe	472.3	344.3	180.2	172.4	122.0	197.2	221.2
Western Europe	10,352.0	9,035.9	7,117.9	5,510.3	4,637.8	4,623.5	4,425.3
France	2,257.9	1,982.6	1,428.1	1,121.7	875.1	840.3	709.7
Germany	1,482.6	1,306.2	949.8	810.6	653.8	498.7	414.4
Italy	1,889.5	1,349.3	1,318.6	1,223.5	1,052.5	1,027.8	986.8
United Kingdom	876.2	692.5	487.9	373.3	240.9	182.8	208.6
Middle East	422.5	438.7	436.8	479.1	387.0	371.1	384.3
Africa	372.8	324.6	295.6	202.0	147.2	160.9	158.8
Asia and Far East	6,187.3	5,730.7	5,330.0	4,531.5	4,264.9	3,854.9	3,246.1
Japan	3,907.2	3,539.8	3,083.1	2,788.2	2,699.2	2,709.5	2,301.2
Oceania	212.0	213.9	208.6	182.8	107.3	97.1	47.0
Unspecified	374.5	125.0	-	41.5	44.5	53.0	8.5
OECD	19,983.4	17,001.7	13,396.9	10,041.0	8,733.8	8,689.0	7,797.0
Total world	26,477.5	22,605.3	18,319.5	14,049.4	12,210.7	11,737.1	10,569.5

	1986	1987	1988	1989	1990	1991	1992
North America	2,131.6	2,450.3	2,714.7	3,372.7	3,770.0	3,714.4	3,391.2
United States	1,984.8	2,333.9	2,603.6	3,206.1	3,570.6	3,511.5	3,306.5
Latin America	811.9	657.4	716.8	667.3	708.9	661.4	844.0
Eastern Europe	431.7	408.0	473.0	518.2	332.0	230.0	241.6
Western Europe	5,181.1	4,321.5	4,649.5	5,147.1	5,362.9	5,552.6	5,515.9
France	795.4	484.4	542.3	639.9	730.6	858.3	837.0
Germany	522.2	467.7	561.0	651.3	700.3	738.9	741.1
Italy	1,142.2	997.6	888.1	982.0	1,136.6	1,235.4	1,142.4
United Kingdom	255.3	182.3	240.0	206.0	296.8	285.4	270.3
Middle East	425.2	305.7	280.4	284.4	300.9	286.9	309.3
Africa	195.4	220.1	196.4	231.0	294.3	356.7	281.3
Asia and Far East	3,354.5	3,319.0	3,872.7	4,514.1	5,163.3	6,023.9	6,639.4
Japan	2,166.6	2,291.2	2,321.6	2,682.5	2,964.5	3,128.2	3,253.5
Oceania	62.6	115.3	86.7	141.1	118.6	130.8	165.7
Unspecified	-	0.3	42.7	-	-	-	25.5
OECD	9,452.8	9,067.8	9,626.8	11,157.7	12,040.2	12,359.0	12,509.2
Total world	12,594.0	11,797.6	13,032.9	14,875.9	16,050.9	16,956.7	17,413.9

	1993	1994	1995	1996	1997	1998	1999
North America	3,690.1	3,768.1	3,676.8	3,725.2	4,259.6	4,765.4	4,457.9
United States	3,542.2	3,555.3	3,439.9	3,498.1	4,004.7	4,481.6	4,187.1
Latin America	766.8	810.6	675.0	803.3	707.5	759.4	786.1
Eastern Europe	142.9	174.5	197.9	183.9	234.0	247.7	181.3
Western Europe	5,578.4	5,267.5	5,110.1	5,085.7	5,339.0	5,847.2	5,092.3
France	1,025.6	892.5	882.9	847.4	854.9	997.9	827.6
Germany	626.5	744.8	597.9	579.7	537.6	551.7	514.4
Italy	1,120.0	938.9	1,028.9	1,114.7	1,261.4	1,359.0	1,189.5
United Kingdom	347.5	231.0	203.5	185.3	134.8	148.9	91.9
Middle East	298.8	313.3	304.2	312.4	307.8	315.1	298.0
Africa	277.0	296.2	506.0	521.3	554.2	590.0	617.3
Asia and Far East	6,915.0	7,203.7	7,428.5	7,551.0	7,760.4	7,798.7	7,683.4
Japan	3,371.2	3,598.7	3,598.0	3,559.1	3,744.4	3,563.7	3,496.9
Oceania	209.6	184.0	192.2	217.9	213.8	258.1	199.7
Unspecified	21.0	-	10.9	55.9	5.4	16.8	47.4
OECD	13,112.1	12,680.7	11,470.8	12,443.8	13,343.7	14,533.2	13,405.8
Total world	17,899.6	18,017.9	18,101.6	18,456.6	19,381.8	20,598.3	19,363.5

Note: Data includes re-exports.

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

Share of total OPEC crude oil exports by region, 1979-99
(per cent)

	1979	1980	1981	1982	1983	1984	1985
North America	20.8	18.6	16.3	11.1	10.6	10.7	11.1
United States	19.0	16.6	14.5	9.8	9.7	9.9	10.2
Latin America	9.7	9.6	9.6	9.8	9.9	9.5	8.6
Eastern Europe	1.8	1.5	1.0	1.2	1.0	1.7	2.1
Western Europe	39.1	40.0	38.9	39.2	38.0	39.4	41.9
France	8.5	8.8	7.8	8.0	7.2	7.2	6.7
Germany	5.6	5.8	5.2	5.8	5.4	4.2	3.9
Italy	7.1	6.0	7.2	8.7	8.6	8.8	9.3
United Kingdom	3.3	3.1	2.7	2.7	2.0	1.6	2.0
Middle East	1.6	1.9	2.4	3.4	3.2	3.2	3.6
Africa	1.4	1.4	1.6	1.4	1.2	1.4	1.5
Asia and Far East	23.4	25.4	29.1	32.3	34.9	32.8	30.7
Japan	14.8	15.7	16.8	19.8	22.1	23.1	21.8
Oceania	0.8	0.9	1.1	1.3	0.9	0.8	0.4
Unspecified	1.4	0.6	–	0.3	0.4	0.5	0.1
OECD	75.5	75.2	73.1	71.5	71.5	74.0	73.8
Total world	100	100	100	100	100	100	100

	1986	1987	1988	1989	1990	1991	1992
North America	16.9	20.8	20.8	22.7	23.5	21.9	19.5
United States	15.8	19.8	20.0	21.6	22.2	20.7	19.0
Latin America	6.4	5.6	5.5	4.5	4.4	3.9	4.8
Eastern Europe	3.4	3.5	3.6	3.5	2.1	1.4	1.4
Western Europe	41.1	36.6	35.7	34.6	33.4	32.7	31.7
France	6.3	4.1	4.2	4.3	4.6	5.1	4.8
Germany	4.1	4.0	4.3	4.4	4.4	4.4	4.3
Italy	9.1	8.5	6.8	6.6	7.1	7.3	6.6
United Kingdom	2.0	1.5	1.8	1.4	1.8	1.7	1.6
Middle East	3.4	2.6	2.2	1.9	1.9	1.7	1.8
Africa	1.6	1.9	1.5	1.6	1.8	2.1	1.6
Asia and Far East	26.6	28.1	29.7	30.3	32.2	35.5	38.1
Japan	17.2	19.4	17.8	18.0	18.5	18.4	18.7
Oceania	0.5	1.0	0.7	0.9	0.7	0.8	1.0
Unspecified	–	–	0.3	–	–	–	0.1
OECD	75.1	76.9	73.9	75.0	75.0	72.9	71.8
Total world	100	100	100	100	100	100	100

	1993	1994	1995	1996	1997	1998	1999
North America	20.6	20.9	20.3	20.2	22.0	23.1	23.0
United States	19.8	19.7	19.0	19.0	20.7	21.8	21.6
Latin America	4.3	4.5	3.7	4.4	3.7	3.7	4.1
Eastern Europe	0.8	1.0	1.1	1.0	1.2	1.2	0.9
Western Europe	31.2	29.2	28.2	27.6	27.5	28.4	26.3
France	5.7	5.0	4.9	4.6	4.4	4.8	4.3
Germany	3.5	4.1	3.3	3.1	2.8	2.7	2.7
Italy	6.3	5.2	5.7	6.0	6.5	6.6	6.1
United Kingdom	1.9	1.3	1.1	1.0	0.7	0.7	0.5
Middle East	1.7	1.7	1.7	1.7	1.6	1.5	1.5
Africa	1.5	1.6	2.8	2.8	2.9	2.9	3.2
Asia and Far East	38.6	40.0	41.0	40.9	40.0	37.9	39.7
Japan	18.8	20.0	19.9	19.3	19.3	17.3	18.1
Oceania	1.2	1.0	1.1	1.2	1.1	1.3	1.0
Unspecified	0.1	–	0.1	0.3	–	0.1	0.2
OECD	73.3	70.4	63.4	67.4	68.8	70.6	69.2
Total world	100	100	100	100	100	100	100

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 region, 1979-99
(1,000 b/d)

	1979	1980	1981	1982	1983	1984	1985
North America	504.9	475.4	386.7	440.9	446.0	533.5	687.0
Latin America	2,246.8	2,399.6	2,655.3	2,828.0	2,825.0	2,842.8	2,613.3
Eastern Europe	2,421.7	2,415.0	2,372.9	2,429.6	2,515.1	2,563.1	2,299.3
Western Europe	1,255.2	1,351.7	1,535.0	1,708.8	1,951.5	2,226.6	2,346.2
Middle East	19,295.3	16,358.7	13,681.9	10,393.2	8,705.1	8,122.2	7,072.9
Africa	5,839.0	5,139.6	3,566.2	2,970.6	3,000.4	3,243.1	3,662.7
Asia and Far East	1,863.3	1,732.6	1,649.9	1,627.2	1,724.7	1,959.7	1,857.6
Oceania	7.2	3.6	1.6	0.8	1.8	18.1	101.6
Total world	33,433.4	29,876.2	25,849.5	22,399.1	21,169.6	21,509.1	20,640.6
OPEC	26,477.5	22,605.3	18,319.5	14,049.4	12,210.7	11,737.1	10,569.5
<i>OPEC percentage</i>	<i>79.2</i>	<i>75.7</i>	<i>70.9</i>	<i>62.7</i>	<i>57.7</i>	<i>54.6</i>	<i>51.2</i>

	1986	1987	1988	1989	1990	1991	1992
North America	736.3	771.0	864.4	788.3	763.0	878.7	926.4
Latin America	2,649.0	2,764.3	2,735.1	2,716.0	3,001.0	3,219.6	3,340.0
Eastern Europe	2,535.1	2,684.6	2,822.9	2,502.1	2,132.9	1,215.0	1,479.7
Western Europe	2,523.7	2,597.5	2,512.6	2,461.3	2,650.6	2,935.5	3,178.8
Middle East	8,880.2	8,585.1	9,960.7	11,498.7	12,286.3	12,678.5	13,422.2
Africa	3,679.4	3,366.1	3,539.5	4,053.1	4,364.3	4,697.9	4,600.8
Asia and Far East	1,920.6	1,783.2	1,777.1	1,796.1	1,854.1	1,986.1	1,869.5
Oceania	87.0	97.0	116.0	82.4	225.0	275.4	275.0
Total world	23,011.3	22,648.8	24,328.3	25,898.0	27,277.2	27,886.7	29,092.5
OPEC	12,594.0	11,797.6	13,032.9	14,875.9	16,050.9	16,956.7	17,413.9
<i>OPEC percentage</i>	<i>54.7</i>	<i>52.1</i>	<i>53.6</i>	<i>57.4</i>	<i>58.8</i>	<i>60.8</i>	<i>59.9</i>

	1993	1994	1995	1996	1997	1998*	1999*
North America	1,015.5	1,081.3	1,152.5	1,182.3	1,124.0	1,229.2	1,121.9
Latin America	3,496.2	3,743.3	4,084.4	4,527.8	5,049.4	5,107.0	4,643.7
Eastern Europe	1,802.0	1,878.1	1,888.9	2,069.0	2,176.1	2,428.3	2,608.8
Western Europe	3,475.8	4,172.3	4,281.2	4,531.1	4,669.5	4,612.8	4,768.2
Middle East	13,992.9	13,867.3	13,899.2	13,981.5	14,627.7	15,843.1	15,312.3
Africa	4,549.5	4,588.8	4,765.6	5,151.7	5,146.6	5,149.7	4,726.1
Asia and Far East	1,840.7	1,905.2	1,865.0	1,819.4	1,820.0	1,703.9	1,617.6
Oceania	298.1	287.9	294.8	278.7	334.0	344.4	338.1
Total world	30,470.7	31,524.1	32,231.7	33,541.6	34,947.3	36,418.5	35,136.9
OPEC	17,899.6	18,017.9	18,101.6	18,456.6	19,381.8	20,598.3	19,363.5
<i>OPEC percentage</i>	<i>58.7</i>	<i>57.2</i>	<i>56.2</i>	<i>55.0</i>	<i>55.5</i>	<i>56.6</i>	<i>55.1</i>

Notes: Data includes re-exports. 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 refined products by OPEC Members, 1979-99
(1,000 b/d)

	1979	1980	1981	1982	1983	1984	1985
Algeria	69.2	148.1	201.8	404.3	291.6	399.9	320.0
Indonesia	146.9	162.6	155.8	121.1	130.2	191.9	149.8
IR Iran	235.0	141.0	140.0	181.0	57.0	56.7	39.4
Iraq	34.1	35.0	53.9	0.1	38.3	49.6	12.3
Kuwait	423.6	343.4	280.8	370.4	414.3	394.9	492.9
SP Libyan AJ	84.6	72.5	62.1	78.0	78.7	76.8	90.9
Nigeria	24.0	74.6	43.4	10.9	16.3	20.0	20.0
Qatar	6.7	1.8	13.2	11.6	16.8	26.0	28.3
Saudi Arabia	384.8	413.2	484.9	507.6	389.2	442.1	574.3
United Arab Emirates	13.0	19.6	37.7	45.7	60.7	97.7	92.1
Venezuela	685.2	564.6	476.2	476.2	507.6	502.3	530.7
OPEC	2,107.1	1,976.4	1,949.8	2,206.9	2,000.7	2,257.9	2,350.7

	1986	1987	1988	1989	1990	1991	1992
Algeria	376.0	365.0	375.0	393.3	452.8	400.0	419.1
Indonesia	159.3	187.9	204.9	230.8	239.7	230.0	254.4
IR Iran	10.0	3.0	8.0	38.0	60.0	88.0	70.0
Iraq	7.8	110.0	110.0	145.0	126.2	11.5	16.8
Kuwait	525.0	553.0	635.0	690.0	380.0	40.0	256.0
SP Libyan AJ	101.9	110.5	90.0	127.5	150.0	140.0	170.0
Nigeria	8.8	15.7	21.0	30.0	30.0	31.0	30.0
Qatar	36.0	41.1	44.0	75.0	74.0	81.6	103.8
Saudi Arabia	712.3	1,021.4	1,141.0	1,072.6	1,305.8	1,226.1	1,287.6
United Arab Emirates	111.6	114.0	117.0	155.0	165.0	170.0	173.0
Venezuela	572.1	477.3	622.5	617.7	616.8	712.0	615.2
OPEC	2,620.8	2,998.9	3,368.4	3,574.9	3,600.3	3,130.2	3,395.9

	1993	1994	1995	1996	1997	1998	1999
Algeria	374.6	384.0	395.8	406.1	462.3	461.9	599.7
Indonesia	239.1	250.1	294.1	297.1	257.3	220.8	196.2*
IR Iran	70.0	119.5	165.6	183.0	212.6	159.0 ^f	166.3*
Iraq	18.6	19.0	55.5 ^f	60.9 ^f	52.1 ^f	53.0 ^f	55.0*
Kuwait	419.0	622.3	794.2	751.5	848.0	897.0	739.3*
SP Libyan AJ	142.0	130.0	140.1 ^f	129.7 ^f	134.3 ^f	129.9 ^f	135.0*
Nigeria	32.5	25.0	18.8 ^f	21.3 ^f	21.3 ^f	20.0*	20.0*
Qatar	116.2	103.0	98.0	107.0*	125.0*	95.1	75.3
Saudi Arabia	1,385.7	1,360.1	1,321.6	1,492.0	1,392.9	1,368.9	1,279.7
United Arab Emirates	160.0	155.0	269.1	271.9	323.1	319.1	331.0
Venezuela	634.5	633.5	688.3	742.1	841.5	846.2	828.0
OPEC	3,592.2	3,801.5	4,241.1	4,462.6	4,670.3	4,570.9	4,425.3

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

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

World exports of refined products by region, 1979-99
(1,000 b/d)

	1979	1980	1981	1982	1983	1984	1985
North America	493.7	514.2	610.4	806.3	802.8	777.8	818.4
Latin America	2,062.1	2,030.3	1,824.6	1,770.6	1,749.5	1,736.0	1,473.2
Eastern Europe	1,228.1	1,360.0	1,391.3	1,413.9	1,500.4	1,463.4	1,372.1
Western Europe	2,782.0	2,646.1	2,710.7	2,898.8	3,064.4	3,012.8	2,990.2
Middle East	1,369.6	1,251.8	1,334.5	1,393.1	1,249.0	1,361.6	1,533.4
Africa	270.6	400.6	407.1	593.1	474.4	588.2	518.9
Asia and Far East	694.9	779.3	828.2	903.5	958.1	1,094.6	1,065.0
Oceania	102.1	93.9	92.1	92.0	103.3	101.6	86.7
Total world	9,003.1	9,076.2	9,198.9	9,871.3	9,901.9	10,136.0	9,857.9
OPEC	2,107.1	1,976.4	1,949.8	2,206.9	2,000.7	2,257.9	2,350.7
OPEC percentage	23.4	21.8	21.2	22.4	20.2	22.3	23.8

	1986	1987	1988	1989	1990	1991	1992
North America	813.1	829.4	955.9	1,005.8	1,071.8	1,230.8	1,187.9
Latin America	1,454.5	1,429.2	1,599.9	1,651.6	1,631.0	1,684.7	1,574.9
Eastern Europe	1,552.9	1,584.4	1,561.4	1,519.1	1,169.6	996.2	759.8
Western Europe	3,336.8	3,245.4	3,331.6	3,443.0	3,637.9	3,673.4	3,855.3
Middle East	1,756.6	2,212.6	2,418.2	2,550.7	2,509.9	2,005.8	2,309.6
Africa	570.0	606.1	616.6	697.3	804.3	751.4	787.4
Asia and Far East	1,151.9	1,241.5	1,250.0	1,445.1	1,518.5	1,572.1	1,722.0
Oceania	95.4	92.4	104.6	94.7	89.8	93.5	98.9
Total world	10,731.2	11,241.0	11,838.2	12,407.3	12,432.7	12,007.9	12,295.9
OPEC	2,620.8	2,998.9	3,368.4	3,574.9	3,600.3	3,130.2	3,395.9
OPEC percentage	24.4	26.7	28.5	28.8	29.0	26.1	27.6

	1993	1994	1995	1996	1997	1998*	1999*
North America	1,123.7	1,123.7	1,192.6	1,270.7	1,321.0	1,227.8	1,224.5
Latin America	1,717.3	1,629.2	1,645.2	1,621.4	1,775.1	1,787.4	1,798.7
Eastern Europe	913.0	1,018.1	1,045.9	1,193.3	1,219.2	1,107.6	1,121.3
Western Europe	4,047.1	4,090.2	3,936.6	4,153.8	4,265.5	4,333.2	4,221.1
Middle East	2,552.4	2,766.9	3,061.2	3,221.7	3,316.4	3,253.3	3,025.6
Africa	772.4	795.2	796.5	799.3	861.3	846.3	998.2
Asia and Far East	1,866.0	1,994.2	2,315.6	2,540.7	2,799.3	2,780.3	2,805.5
Oceania	102.5	94.5	86.2	105.9	122.4	119.6	129.2
Total world	13,094.4	13,511.9	14,079.9	14,906.7	15,680.3	15,455.6	15,324.0
OPEC	3,592.2	3,801.5	4,241.1	4,462.6	4,670.3	4,570.9	4,425.3
OPEC percentage	27.4	28.1	30.1	29.9	29.8	29.6	28.9

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, 1979-99
(1,000 b/d)

	1979	1980	1981	1982	1983	1984	1985
Algeria	1,029.6	863.6	723.6	633.2	552.0	581.5	592.0
Indonesia	1,224.6	1,150.6	1,148.3	939.7	988.5	1,068.2	855.5
IR Iran	2,642.0	937.7	854.6	1,804.2	1,775.7	1,578.5	1,607.7
Iraq	3,281.1	2,517.0	925.9	846.1	740.3	916.6	1,097.7
Kuwait	2,506.7	1,639.9	1,094.6	739.2	958.7	1,052.9	968.8
SP Libyan AJ	2,050.6	1,765.5	1,124.6	1,052.0	1,016.1	1,006.4	985.5
Nigeria	2,234.1	2,034.8	1,271.8	1,013.7	951.5	1,114.1	1,353.3
Qatar	501.6	467.5	404.2	334.4	296.3	412.2	308.3
Saudi Arabia	9,202.5	9,636.4	9,502.8	6,147.0	4,310.0	3,629.0	2,725.0
United Arab Emirates	1,818.3	1,716.9	1,476.7	1,212.7	1,138.0	1,134.4	1,069.8
Venezuela	2,093.5	1,851.8	1,742.2	1,534.1	1,484.3	1,501.2	1,356.6
OPEC	28,584.6	24,581.7	20,269.3	16,256.3	14,211.4	13,995.0	12,920.2

	1986	1987	1988	1989	1990	1991	1992
Algeria	631.0	605.0	619.0	673.8	733.4*	744.7	698.5
Indonesia	953.1	888.9	851.5	906.5	924.4	1,028.8	906.4
IR Iran	1,464.0	1,713.0	1,704.0	2,158.0 ¹	2,280.0 ¹	2,508.0 ¹	2,598.0*
Iraq	1,401.3	1,827.0	2,205.0	2,405.0	1,722.2*	50.5*	77.5*
Kuwait	1,281.0	1,160.0	1,333.0	1,540.0	1,025.0*	125.0*	951.6*
SP Libyan AJ	1,168.9	920.5	980.0	999.5	1,240.0*	1,360.0*	1,350.0*
Nigeria	1,230.0	1,080.9	1,131.5	1,555.9	1,580.0*	1,641.0*	1,615.0*
Qatar	343.0	295.1	349.0	395.0	421.8	418.2	466.1
Saudi Arabia	3,978.1	3,437.9	4,171.1	4,408.1	5,805.6	7,752.4	7,869.5
United Arab Emirates	1,243.6	1,364.0	1,462.0	1,805.0	2,060.0*	2,365.0*	2,233.0*
Venezuela	1,520.8	1,504.2	1,595.2	1,604.0	1,858.8	2,093.3	2,044.2
OPEC	15,214.8	14,796.5	16,401.3	18,450.8	19,651.2	20,086.9	20,809.9

	1993	1994	1995	1996	1997	1998	1999
Algeria	682.6	713.2	728.6	796.9	835.4	1,011.3	1,014.2
Indonesia	920.7	1,042.7	1,038.0	1,003.8	967.0	898.8*	917.7*
IR Iran	2,670.0*	2,769.5	2,786.6*	2,813.0*	2,799.6*	2,671.0*	2,697.3*
Iraq	77.8*	79.0	119.0*	149.0*	774.0* ^{rf}	1,607.1*	2,079.9*
Kuwait	1,859.0*	1,885.8	1,980.6	1,975.7	1,982.2	2,087.2	1,687.4
SP Libyan AJ	1,252.0*	1,255.0	1,260.4	1,253.1 ^f	1,250.0* ^{rf}	1,290.9* ^{rf}	1,238.9*
Nigeria	1,589.5	1,615.0	1,683.8*	1,918.7	1,952.2* ^{rf}	1,727.8* ^{rf}	1,497.3*
Qatar	456.8	425.6	431.0*	474.0*	590.0*	667.5	655.8
Saudi Arabia	7,678.6	7,593.7	7,612.4	7,601.3	7,577.4	7,759.3	6,999.3
United Arab Emirates	2,130.0*	2,110.0	2,194.1	2,215.1	2,272.1	2,358.1	2,250.0
Venezuela	2,174.8	2,329.9	2,508.2	2,718.5	3,052.3	3,090.1	2,751.0
OPEC	21,491.8	21,819.5	22,342.7	22,919.2	24,052.2	25,169.2	23,788.8

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, Energy Statistics of OECD/non-OECD Countries; secondary sources; Secretariat's estimates.

World exports of crude oil and refined products by region, 1979-99
(1,000 b/d)

	1979	1980	1981	1982	1983	1984	1985
North America	998.6	989.6	997.1	1,247.2	1,248.8	1,311.3	1,505.4
Latin America	4,308.9	4,429.9	4,479.9	4,598.6	4,574.5	4,578.8	4,086.5
Eastern Europe	3,649.8	3,775.0	3,764.2	3,843.5	4,015.5	4,026.5	3,671.4
Western Europe	4,037.2	3,997.8	4,245.7	4,607.6	5,015.9	5,239.4	5,336.4
Middle East	20,664.9	17,610.5	15,016.4	11,786.3	9,954.1	9,483.8	8,606.3
Africa	6,109.6	5,540.2	3,973.3	3,563.7	3,474.8	3,831.3	4,181.6
Asia and Far East	2,558.2	2,511.9	2,478.1	2,530.7	2,682.8	3,054.3	2,922.6
Oceania	109.3	97.5	93.7	92.8	105.1	119.7	188.3
Total world	42,436.5	38,952.4	35,048.4	32,270.4	31,071.5	31,645.1	30,498.5
OPEC	28,584.6	24,581.7	20,269.3	16,256.3	14,211.4	13,995.0	12,920.2
OPEC percentage	67.4	63.1	57.8	50.4	45.7	44.2	42.4

	1986	1987	1988	1989	1990	1991	1992
North America	1,549.4	1,600.4	1,820.3	1,794.1	1,834.8	2,109.5	2,114.3
Latin America	4,103.5	4,193.5	4,335.0	4,367.6	4,632.0	4,904.3	4,914.9
Eastern Europe	4,088.0	4,269.0	4,384.3	4,021.2	3,302.5	2,211.2	2,239.5
Western Europe	5,860.5	5,842.9	5,844.2	5,904.3	6,288.5	6,608.9	7,034.1
Middle East	10,636.8	10,797.7	12,378.9	14,049.4	14,796.2	14,684.3	15,731.8
Africa	4,249.4	3,972.2	4,156.1	4,750.4	5,168.6	5,449.3	5,388.2
Asia and Far East	3,072.5	3,024.7	3,027.1	3,241.2	3,372.6	3,558.2	3,591.5
Oceania	182.4	189.4	220.6	177.1	314.8	368.9	373.9
Total world	33,742.5	33,889.8	36,166.5	38,305.3	39,709.9	39,894.6	41,388.3
OPEC	15,214.8	14,796.5	16,401.3	18,450.8	19,651.2	20,086.9	20,809.9
OPEC percentage	45.1	43.7	45.3	48.2	49.5	50.3	50.3

	1993	1994	1995	1996	1997	1998*	1999*
North America	2,139.2	2,205.0	2,345.1	2,453.0	2,445.0	2,457.0	2,346.4
Latin America	5,213.5	5,372.5	5,729.6	6,149.2	6,824.5	6,894.4	6,442.4
Eastern Europe	2,715.0	2,896.2	2,934.8	3,262.3	3,395.3	3,535.9	3,730.1
Western Europe	7,522.9	8,262.5	8,217.8	8,684.9	8,935.0	8,946.0	8,989.4
Middle East	16,545.3	16,634.2	16,960.4	17,203.2	17,944.1	19,096.4	18,337.9
Africa	5,321.9	5,384.0	5,562.2	5,951.0	6,007.9	5,996.0	5,724.3
Asia and Far East	3,706.7	3,899.3	4,180.7	4,360.2	4,619.3	4,484.2	4,423.1
Oceania	400.6	382.4	381.0	384.6	456.3	464.0	467.3
Total world	43,565.1	45,036.1	46,311.6	48,448.3	50,627.6	51,874.0	50,460.9
OPEC	21,491.8	21,819.5	22,342.7	22,919.2	24,052.2	25,169.2	23,788.8
OPEC percentage	49.3	48.4	48.2	47.3	47.5	48.5	47.1

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.

Natural gas exports by OPEC Members, 1979-99
(million standard cu m)

	1979	1980	1981	1982	1983	1984	1985
Algeria	11,150	6,352	7,081	10,001	18,361	18,924	21,640
Indonesia	8,323	11,480	11,753	12,332	12,962	18,978	20,250
IR Iran	4,360	220	256	-	-	-	-
Iraq	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-
SP Libyan AJ	3,626	2,134	998	1,103	770	970	1,230
Nigeria	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-
United Arab Emirates	1,676	2,604	2,646	2,981	2,476	2,874	3,036
Venezuela	-	-	-	-	-	-	-
OPEC	29,135	22,790	22,734	26,417	34,569	41,746	46,156

	1986	1987	1988	1989	1990	1991	1992
Algeria	20,440	25,750	26,120	29,420	31,330	33,890	35,488
Indonesia	20,342	22,121	24,580	24,870	27,530	29,710	31,630
IR Iran	-	-	-	-	1,500	3,010	-
Iraq	650	2,750	3,100	3,600	2,000	-	-
Kuwait	-	-	-	-	-	-	-
SP Libyan AJ	860	800	1,060	1,430	1,240	1,580	1,840
Nigeria	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-
United Arab Emirates	3,004	2,869	3,180	3,110	3,200	3,450	3,420
Venezuela	-	-	-	-	-	-	-
OPEC	45,296	54,290	58,040	62,430	66,800	71,640	72,378

	1993	1994	1995	1996	1997	1998	1999
Algeria	35,054	31,693	37,356	40,970	48,740	52,690	59,320
Indonesia	31,800	35,150	33,310	35,280	35,280	36,400	38,800
IR Iran	500	-	100	100	-	-	-
Iraq	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-
SP Libyan AJ	1,600	1,480	1,490	1,200	1,120	910	1,000
Nigeria	-	-	-	-	-	-	700
Qatar	-	-	-	-	2,860	4,790	8,100
Saudi Arabia	-	-	-	-	-	-	-
United Arab Emirates	3,350	4,150	6,530	6,740	7,310	6,720	6,600
Venezuela	-	-	-	-	-	-	-
OPEC	72,304	72,473	78,786	84,290	95,310	101,510	114,520

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; OECD, Monthly Oil and Gas Data Statistics, World Energy Statistics and Balances.

World natural gas exports by region, 1979-99
(million standard cu m)

	1979	1980	1981	1982	1983	1984	1985
North America	29,925	23,935	23,262	23,649	21,707	22,941	27,662
Latin America	1,638	4,948	5,270	4,981	4,352	3,708	2,210
Eastern Europe	41,260	53,457	57,853	60,619	59,354	66,888	69,250
Western Europe	73,904	74,847	69,734	62,553	65,061	70,514	68,135
Middle East	6,036	2,824	2,902	2,981	2,476	2,874	3,036
Africa	14,776	8,486	8,079	11,104	19,131	19,894	22,870
Asia and Far East	18,492	22,514	21,556	21,889	24,144	32,904	35,509
Oceania	-	-	-	-	-	-	-
Total world	186,031	191,011	188,656	187,776	196,225	219,723	228,672
OPEC	29,135	22,790	22,734	26,417	34,569	41,746	46,156
OPEC percentage	15.7	11.9	12.1	14.1	17.6	19.0	20.2

	1986	1987	1988	1989	1990	1991	1992
North America	22,712	29,423	37,660	40,410	43,130	51,030	63,680
Latin America	2,210	2,270	2,230	2,210	2,200	2,220	2,200
Eastern Europe	77,400	83,480	88,830	103,480	110,200	105,200	99,100
Western Europe	61,670	63,390	59,210	64,810	62,240	67,710	71,910
Middle East	3,654	5,619	6,280	6,710	6,700	6,460	3,420
Africa	21,300	26,550	27,180	30,850	32,570	35,470	37,328
Asia and Far East	36,453	38,698	41,110	40,700	43,350	46,260	49,620
Oceania	-	-	-	900	3,940	5,210	6,190
Total world	225,399	249,430	262,500	290,070	304,330	319,560	333,448
OPEC	45,296	54,290	58,040	62,430	66,800	71,640	72,378
OPEC percentage	20.1	21.8	22.1	21.5	21.9	22.4	21.7

	1993	1994	1995	1996	1997	1998	1999
North America	67,545	75,340	83,791	85,638	86,370	90,610 ^r	99,200
Latin America	2,127	2,180	2,178	2,436	2,981	3,825	7,300
Eastern Europe	100,900	106,730	117,270	123,460	116,450	121,100 ^r	127,540
Western Europe	74,440	73,870	71,370	90,120	89,660	88,480 ^r	93,200
Middle East	3,850	4,160	7,130	7,340	10,670	12,010 ^r	15,200
Africa	36,654	33,173	38,846	42,170	49,860	53,600	61,020
Asia and Far East	51,240	55,360	56,840	62,830	65,290	66,000 ^r	69,300
Oceania	6,690	8,680	9,820	9,870	9,540	10,000 ^r	10,100
Total world	343,446	359,493	387,245	423,864	430,821	445,625	482,860
OPEC	72,304	72,473	78,786	84,290	95,310	101,510	114,520
OPEC percentage	21.1	20.2	20.3	19.9	22.1	22.8	23.7

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; OECD, Monthly Oil and Gas Data Statistics, World Energy Statistics and Balances.

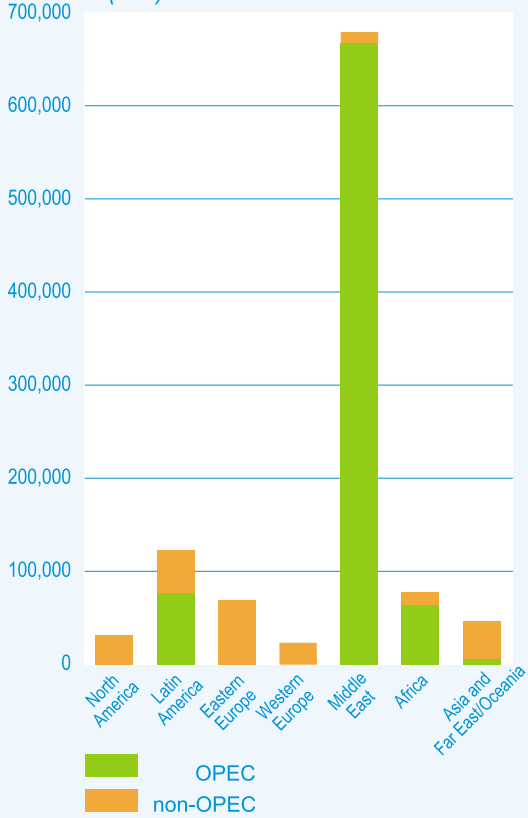
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World proven crude oil reserves by country, 1995-99
(m b)

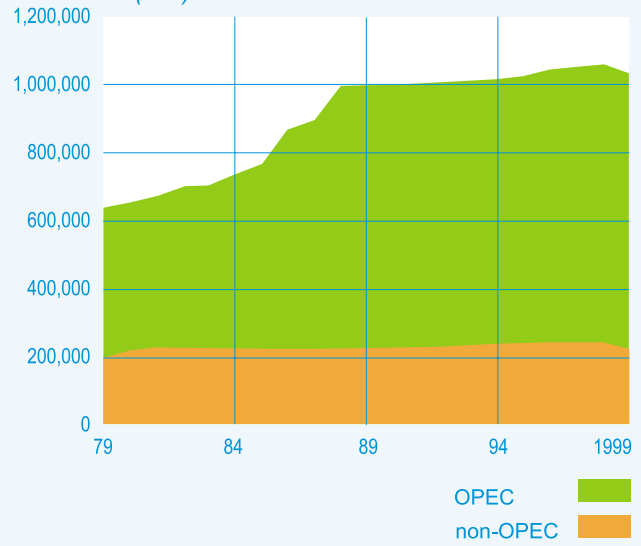
	1995	1996	1997	1998	1999	% change 99/98
North America	30,270.6	30,721.9	30,652.1	31,272.3	29,760.3	-4.8
Canada	7,919.6	8,704.9	8,635.1	8,726.3	8,726.3	-
United States	22,351.0	22,017.0	22,017.0	22,546.0	21,034.0	-6.7
Latin America	132,473.1	138,761.5	140,342.1	141,909.2	123,681.2	-12.8
Argentina	2,386.0	2,588.0	2,621.0	2,621.2	2,753.4	5.0
Brazil	6,223.2	6,680.8	6,680.8	7,106.2	7,357.5	3.5
Colombia	2,951.8	2,798.0	2,800.0	2,577.2	2,577.2	-
Ecuador	3,385.3	3,388.0	3,290.0	3,199.0	3,199.0	-
Mexico	48,796.0	48,472.0	47,822.0	47,822.0	28,399.0	-40.6
Venezuela	66,329.0	72,667.0	74,930.8	76,108.4	76,848.1	1.0
Others	2,401.8	2,167.7	2,197.5	2,475.2	2,547.0	2.9
Eastern Europe	58,960.8	67,365.6	67,373.9	67,281.4	67,259.7	-
Former USSR	57,000.0	65,405.0	65,405.0	65,405.0	65,405.0	-
Others	1,960.8	1,960.6	1,968.9	1,876.4	1,854.7	-1.2
Western Europe	20,990.4	18,540.4	18,751.4	18,348.3	21,478.1	17.1
Denmark	1,031.5	957.1	861.7	943.5	1,069.3	13.3
Italy	620.0	684.6	729.3	621.8	621.8	-
Norway	13,612.0	11,280.0	10,913.0	10,366.0	13,485.0	30.1
United Kingdom	4,293.0	4,516.9	5,002.8	5,190.9	5,153.3	-0.7
Others	1,433.9	1,101.8	1,244.6	1,226.1	1,148.8	-6.3
Middle East	665,273.4	675,996.4	676,755.3	677,806.2	678,736.9	0.1
IR Iran	93,700.0	92,600.0	92,600.0	93,700.0	93,100.0	-0.6
Iraq	100,000.0	112,000.0	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	5,172.0	5,238.0	5,400.0	5,400.0	5,700.0	5.6
Qatar	3,700.0	3,700.0	3,700.0	3,700.0	3,700.0	-
Saudi Arabia	261,450.0	261,444.0	261,541.0	261,542.0	262,784.0	0.5
Syrian Arab Republic	2,437.0	2,500.0	2,500.0	2,500.0	2,500.0	-
United Arab Emirates	98,100.0	97,800.0	97,800.0	97,800.0	97,800.0	-
Others	4,214.4	4,214.4	4,214.3	4,164.2	4,152.9	-0.3
Africa	74,177.3	74,775.8	75,194.7	76,980.5	77,004.0	-
Algeria	9,979.0	10,800.0	11,200.0	11,314.0	11,314.0	-
Angola	5,412.2	5,412.2	5,412.2	5,412.0	5,412.0	-
Egypt	3,115.0	3,000.0	2,924.0	2,924.0	2,947.6	0.8
Gabon	2,349.0	2,349.0	2,499.0	2,499.0	2,499.0	-
SP Libyan AJ	29,500.0	29,500.0	29,500.0	29,500.0	29,500.0	-
Nigeria	20,828.0	20,828.0	20,828.0	22,500.0	22,500.0	-
Others	2,994.1	2,886.6	2,831.5	2,831.5	2,831.4	-
Asia and Far East	41,340.0	41,218.1	41,168.1	41,201.3	41,260.7	0.1
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	5,356.4	5,363.7	5,468.2	5,468.2	5,468.2	-
Indonesia	4,979.7	4,979.7	4,979.7	4,979.7	4,979.7	-
Malaysia	4,300.0	4,000.0	3,900.0	3,900.0	3,900.0	-
Others	1,353.9	1,524.7	1,470.2	1,503.4	1,562.8	4.0
Oceania	2,064.1	2,210.1	2,270.1	3,355.0	3,355.0	-
Australia	1,560.1	1,800.1	1,800.1	2,895.0	2,895.0	-
Others	504.0	410.0	470.0	460.0	460.0	-
Total world	1,025,549.7	1,049,589.8	1,052,507.7	1,058,154.2	1,042,535.9	-1.5
OPEC	785,065.7	802,818.7	806,079.5	810,144.1	811,525.8	0.2
OPEC percentage	76.6	76.5	76.6	76.6	77.8	

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; Petroconsultants; EIU; AOG.

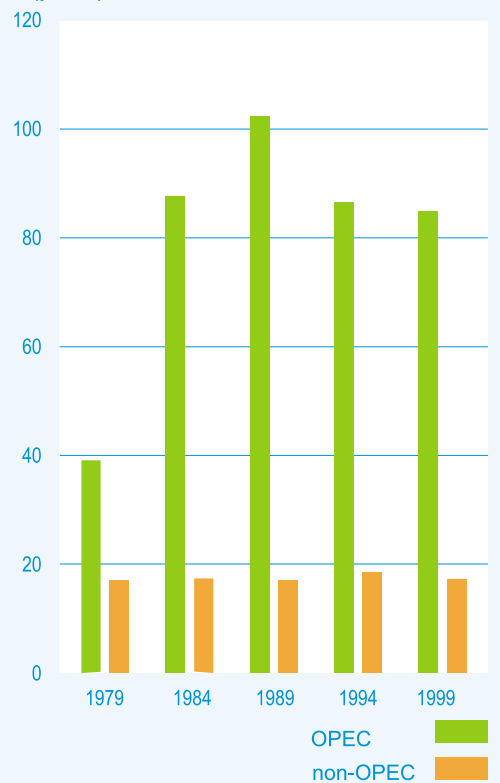
Graph 2:
Crude oil reserves by region, 1999
(m b)



Graph 1:
World proven crude oil reserves, 1979–99
(m b)



Graph 3:
Crude oil reserves to production ratios, 1997–99
(years)



World proven natural gas reserves by country, 1995-99
(billion standard cu m)

	1995	1996	1997	1998	1999	% change 99/98
North America	6,574.0	6,643.0	6,576.0	6,454.0	6,454.0	-
Canada	1,898.0	1,929.0	1,841.0	1,809.0	1,809.0	-
United States	4,676.0	4,714.0	4,735.0	4,645.0	4,645.0	-
Latin America	7,915.4	7,985.0	8,080.3	8,172.6	7,355.6	-10.0
Argentina	619.3	688.3	683.8	687.0	720.0	4.8
Colombia	217.2	217.5	196.3	195.0	195.0	-
Mexico	1,916.1	1,810.0	1,796.9	1,760.0	861.0	-51.1
Trinidad & Tobago	349.0	456.0	517.0	560.0	602.0	7.5
Venezuela	4,064.7	4,051.5	4,120.8	4,147.5	4,152.4	0.1
Others	749.1	761.7	765.5	823.1	825.2	0.3
Eastern Europe	58,051.1	57,313.0	57,740.8	57,294.8	57,162.1	-0.2
Hungary	93.0	88.0	84.0	87.0	81.3	-6.6
Poland	153.0	160.0	155.0	145.0	145.0	-
Romania	407.0	389.0	374.0	360.0	346.0	-3.9
Former USSR	57,370.0	56,650.0	57,100.0	56,675.0	56,562.0	-0.2
Others	28.1	26.0	27.8	27.8	27.8	-
Western Europe	5,842.5	6,511.4	7,156.3	7,157.2	7,141.7	-0.2
Denmark	179.0	158.0	137.0	123.0	142.0	15.4
Germany	319.0	329.3	343.0	347.5	340.0	-2.2
Italy	374.1	297.7	278.0	222.0	215.0	-3.2
Netherlands	1,815.0	1,765.0	1,787.0	1,771.0	1,714.0	-3.2
Norway	2,245.0	3,001.0	3,654.0	3,780.0	3,800.0	0.5
United Kingdom	700.0	760.0	765.0	755.0	760.0	0.7
Others	210.4	200.4	192.3	158.7	170.7	7.6
Middle East	45,635.1	49,467.0	49,794.6	53,406.0	51,776.0	-3.1
IR Iran	19,350.0	23,000.0	23,000.0	24,100.0	22,370.0	-7.2
Iraq	3,360.0	3,360.0	3,188.0	3,188.0	3,188.0	-
Kuwait	1,494.0	1,489.0	1,490.0	1,482.0	1,480.0	-0.1
Qatar	8,500.0	8,500.0	8,500.0	10,900.0	10,900.0	-
Saudi Arabia	5,544.5	5,693.3	5,882.0	6,068.0	6,146.0	1.3
United Arab Emirates	5,859.0	5,784.0	6,063.0	5,996.0	5,993.0	-0.1
Others	1,527.6	1,640.7	1,671.6	1,672.0	1,699.0	1.6
Africa	9,923.3	10,170.9	10,635.1	10,791.0	11,461.0	6.2
Algeria	3,690.0	3,700.0	4,077.0	4,077.0	4,523.0	10.9
Egypt	631.3	851.9	927.1	1,020.0	1,250.0	22.5
SP Libyan AJ	1,313.0	1,311.0	1,315.0	1,315.0	1,315.0	-
Nigeria	3,474.0	3,475.0	3,483.0	3,510.0	3,510.0	-
Others	815.0	833.0	833.0	869.0	863.0	-0.7
Asia and Far East	9,771.3	10,350.0	10,549.0	10,911.0	11,435.0	4.8
China	1,070.0	1,120.0	1,199.0	1,200.0	1,350.0	12.5
India	695.3	679.0	665.0	650.0	650.0	-
Indonesia	3,500.0	3,851.0	3,902.0	4,150.0	4,480.0	8.0
Malaysia	2,271.0	2,400.0	2,464.0	2,430.0	2,430.0	-
Pakistan	604.0	589.0	595.0	612.0	635.0	3.8
Others	1,631.0	1,711.0	1,724.0	1,869.0	1,890.0	1.1
Oceania	3,518.5	3,756.0	3,783.0	3,810.0	3,950.0	3.7
Australia	3,010.0	3,260.0	3,280.0	3,310.0	3,450.0	4.2
Others	508.5	496.0	503.0	500.0	500.0	-
Total world	147,231.2	152,196.3	154,315.1	157,996.6	156,735.4	-0.8
OPEC	60,149.2	64,214.8	65,020.8	68,933.5	68,057.4	-1.3
OPEC percentage	40.9	42.2	42.1	43.6	43.4	

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; MEES; PIW; EIU.

Active rigs in OPEC Members and in world, 1995-99

	1995	1996	1997	1998	1999	% change 99/98
Algeria	27	29	30	16	12	-25.0
Indonesia	41	46	61	38	28	-26.3
IR Iran	22	22	23	27	27	-
Iraq	10	10	7	-	-	-
Kuwait	10	9	9	9	12	33.3
SP Libyan AJ	13	21	19	12	8	-33.3
Nigeria	14	15	10	12	4	-66.7
Qatar	11	11	16	13	3	-76.9
Saudi Arabia	18	20	28	25	21	-16.0
United Arab Emirates	23	27	24	17	13	-23.5
Venezuela	96	106	108	65	59	-9.2
OPEC	285	316	335	234	187	-20.1
North America	1,059	1,380	1,541	933	1,220	30.8
Canada	300	410	508	345	404	17.1
United States	759	970	1033	588	816	38.8
Latin America	271	277	287	213	196	-8.0
Argentina	75	60	60	28	40	42.9
Bolivia	7	6	10	15	11	-26.7
Brazil	22	23	20	19	19	-
Chile	2	1	2	2	-	-
Colombia	13	16	18	15	14	-6.7
Ecuador	4	3	5	6	4	-33.3
Mexico	41	48	50	53	44	-17.0
Trinidad & Tobago	5	4	6	6	3	-50.0
Western Europe	104	101	94	68	59	-13.2
France	2	-	3	1	1	-
Germany	11	7	5	4	4	-
Italy	11	14	10	10	8	-20.0
Netherlands	11	14	7	7	4	-42.9
Norway	17	16	19	12	16	33.3
United Kingdom	33	33	35	24	17	-29.2
Middle East	140	145	154	135	110	-18.5
Bahrain	1	1	1	2	-	-
Oman	16	21	25	24	16	-33.3
Syrian Arab Republic	22	19	16	14	14	-
Yemen	7	5	5	4	3	-25.0
Africa	115	133	128	79	58	-26.6
Angola	11	9	10	5	5	-
Egypt	39	40	42	17	20	17.6
Gabon	3	4	6	4	2	-50.0
South Africa	-	-	1	1	1	-
Asia and Far East	165	174	173	140	128	-8.6
Brunei	na	3	3	2	2	-
India	65	64	51	46	46	-
Malaysia	7	4	5	9	7	-22.2
Pakistan	11	10	13	8	9	12.5
Oceania	18	22	13	19	8	-57.9
Australia	15	19	11	18	5	-72.2
New Zealand	-	2	-	-	2	-
World¹	1,872	2,232	2,390	1,587	1,779	12.1
OPEC percentage	15.2	14.2	14.0	14.7	10.5	

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, 1995-99

	1995	1996	1997	1998	1999	% change 99/98
Algeria	95	100	105	85	91	7.1
Oil	70	56	57	45	49	8.9
Gas	22	21	23	22	23	4.5
Dry	3	22	23	18	19	5.6
Others	-	1	2	-	-	-
Average depth (ft)	8,054	9,131	9,130	9,130	9,130	-
Indonesia	745	858	1,006	1,016	1,051	3.4
Oil	389	337	528	639	715	11.9
Gas	57	24	166	171	139	-18.7
Dry	46	67	71	84	55	-34.5
Others	253	430	241	122	142	16.4
Average depth (ft)	3,390	3,700	3,478	4,502	3,285	-27.0
IR Iran	67	113	125	124	134	8.1
Oil	54	62	112	76	84	10.5
Gas	5	4	3	12	5	-58.3
Dry	4	4	5	-	-	-
Others	4	43	5	36	45	25.0
Average depth (ft)	10,939	7,086	7,402	7,543	7,073	-6.2
Iraq	10	na	na	12	12	-
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)	9,000	na	na	9,000	7,667	-14.8
Kuwait	45	28	45	36	99	175.0
Oil	41	25	29	30	99	230.0
Gas	-	-	-	-	-	-
Dry	-	-	-	-	-	-
Others	4	3	16	6	-	na
Average depth (ft)	9,752	10,002	6,796	10,473	8,000	-23.6
SP Libyan AJ	88	131	128	123	90	-26.8
Oil	65	101	96	90	70	-22.2
Gas	-	2	4	5	2	-60.0
Dry	14	18	20	19	11	-42.1
Others	9	10	8	9	7	-22.2
Average depth (ft)	9,878	7,297	7,077	7,724	7,724	-
Nigeria	119	138	137	132	82	-37.9
Oil	95	118	95	88	54	-38.6
Gas	3	2	8	10	6	-40.0
Dry	18	7	9	11	7	-36.4
Others	3	11	25	23	15	-34.8
Average depth (ft)	7,810	10,314	9,364	9,538	9,615	0.8
Qatar	30	78	121	117	66	-43.6
Oil	26	71	100	79	40	-49.4
Gas	2	2	10	13	4	-69.2
Dry	2	5	4	-	-	-
Others	-	-	7	25	22	-12.0
Average depth (ft)	7,169	7,617	6,883	7,300	7,300	-

Wells completed in OPEC Members, 1995-99

	1995	1996	1997	1998	1999	% change 99/98
Saudi Arabia	187	182	305	284	224	-21.1
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)	7,279	8,395	8,754	8,176	8,175	-
Saudi-Kuwaiti Neutral Zone	20	48	46	40	35	-12.5
Oil	20	40	36	33	29	-12.1
Gas	-	-	-	-	-	-
Dry	-	-	1	2	3	50.0
Others	-	8	9	5	3	-40.0
Average depth (ft)	7,580	7,488	7,413	7,048	7,050	-
United Arab Emirates	112	125	148	125	108	-13.6
Oil	60	61	72	65	50	-23.1
Gas	18	36	45	22	28	27.3
Dry	5	6	7	7	6	-14.3
Others	29	22	24	31	24	-22.6
Average depth (ft)	10,742	10,900	10,097	11,045	11,908	7.8
Venezuela	550	961	1,088	1,110	827	-25.5
Oil	321	575	1,013	671	386	-42.5
Gas	6	-	4	3	2	-33.3
Dry	10	8	1	18	19	5.6
Others	213	378	70	418	420	0.5
Average depth (ft)	5,519	5,593	6,119	5,445	6,186	13.6
OPEC	2,068	2,762	3,254	3,204	2,819	-12.0
Oil	1,141	1,446	2,138	1,816	1,576	-13.2
Gas	113	91	263	258	209	-19.0
Dry	102	137	141	159	120	-24.5
Others	515	906	407	675	678	0.4
Average depth (ft)	5,998	6,070	6,107	6,199	5,853	-5.6
Total world^{1,2}	52,242	56,088	68,553	50,106	45,095	-10.0
Oil	17,556	19,599	22,316	14,206	11,058	-22.2
Gas	12,730	13,669	17,103	15,983	15,301	-4.3
Dry	8,857	9,320	9,596	7,169	5,765	-19.6
Others	1,672	2,985	3,693	2,589	2,681	3.6
Average depth (ft)	5,201	5,351	5,212	5,466	5,343	-2.3

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, 1995-99

	1995	1996	1997	1998	1999	% change 99/98
Algeria	1,211	1,189	1,214	1,175	1,136	-3.3
Flowing	908	868	886	865	836	-3.4
Artificial lift	303	321	328	310	300	-3.2
Indonesia	8,943	8,343	8,729	8,837	8,226	-6.9
Flowing	1,282	580	630	1,184	720	-39.2
Artificial lift	7,661	7,763	8,099	7,653	7,506	-1.9
IR Iran	945	1,092	1,121	1,152	1,211	5.1
Flowing	945	1,092	1,121	1,152	1,211	5.1
Artificial lift	-	-	-	-	-	-
Iraq	na	na	na	na	na	na
Flowing	na	na	na	na	na	na
Artificial lift	na	na	na	na	na	na
Kuwait	785	798	788	810	730	-9.9
Flowing	785	798	788	810	730	-9.9
Artificial lift	-	-	-	-	-	-
SP Libyan AJ	1,278	1,454	1,470	1,425	1,430	0.4
Flowing	791	945	955	912	902	-1.1
Artificial lift	487	509	515	513	528	2.9
Nigeria	1,892	1,793	2,251	2,125	2,145	0.9
Flowing	1,457	1,404	1,864	1,760	1,770	0.6
Artificial lift	435	389	387	365	375	2.7
Qatar	263	288	360	412	411	-0.2
Flowing	231	253	317	348	322	-7.5
Artificial lift	32	35	43	64	89	39.1
Saudi Arabia	1,340	1,420	1,565	1,535	1,475	-3.9
Flowing	1,246	1,320	1,455	1,430	1,400	-2.1
Artificial lift	94	100	110	105	75	-28.6
Saudi-Kuwaiti Neutral Zone	288	468	532	455	465	2.2
Flowing	187	257	267	182	190	4.4
Artificial lift	101	211	265	273	275	0.7
United Arab Emirates	1,364	1,427	1,435	1,451	1,424	-1.9
Flowing	988	1,045	1,056	1,069	1,075	0.6
Artificial lift	376	382	379	382	349	-8.6
Venezuela	11,214	14,418	15,584	15,090	12,820	-15.0
Flowing	1,342	1,185	1,245	1,245	1,056	-15.2
Artificial lift	9,872	13,233	14,339	13,845	11,764	-15.0
OPEC ²	29,523	32,690	35,049	34,467	31,473	-8.7
Flowing	10,162	9,747	10,584	10,957	10,212	-6.8
Artificial lift	19,361	22,943	24,465	23,510	21,261	-9.6
Total world ^{1,2}	783,043	783,122	798,064	772,096	772,050	-
Flowing	46,259	54,362	53,137	50,206	48,245	-3.9
Artificial lift	736,784	728,760	743,859	721,083	722,975	0.3

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

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

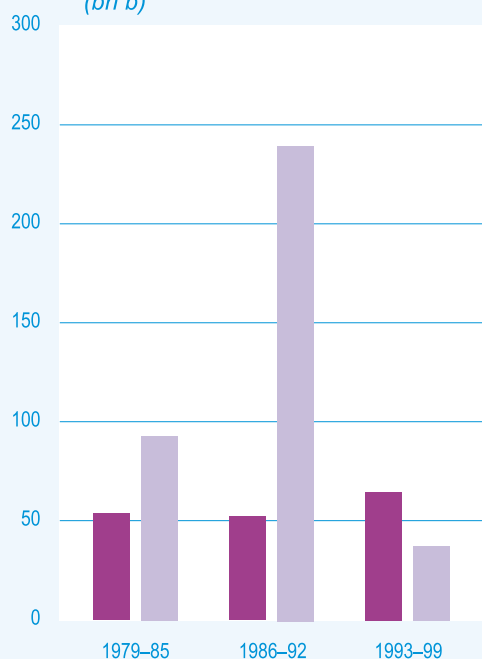
2. Excluding Eastern Europe.

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

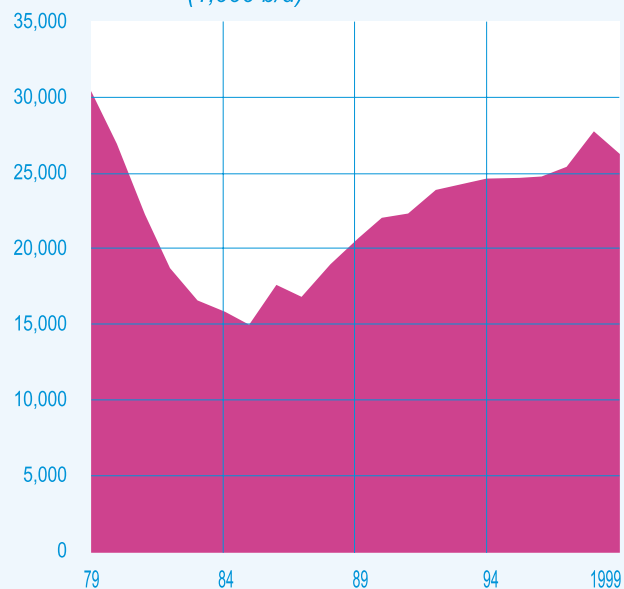
OPEC cumulative production and net addition to reserves, 1979-99
(bn b)

	Production	Net addition to reserves		Production	Net addition to reserves
Before 1979	172.600		1989	252.885	4.35
1979	183.737	-7.58	1990	260.941	1.05
1980	193.564	-0.94	1991	269.083	6.07
1981	201.772	3.70	1992	277.812	1.76
1982	208.610	29.06	1993	286.657	0.84
1983	214.674	7.92	1994	295.639	2.86
1984	220.506	34.70	1995	304.618	7.67
1985	225.954	25.80	1996	313.684	17.75
1986	232.389	107.22	1997	322.966	3.26
1987	238.513	31.00	1998	333.091	4.06
1988	245.419	86.46	1999	342.668	1.38

Graph 4:
OPEC cumulative production and net addition to reserves, 1979-99
(bn b)



Graph 5:
OPEC crude oil production, 1979-99
(1,000 b/d)



■ cumulative production
■ net addition to reserves

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

Algeria

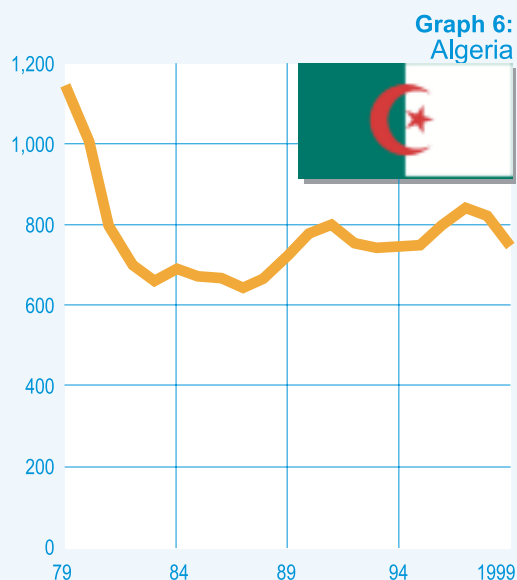
Year	Daily average	Cumulative	% change in daily av	Year	Daily average	Cumulative	% change in daily av
1918–1957		2,533		1979	1,153.8	6,031,277	-0.6
1958	8.8	5,745		1980	1,019.9	6,404,548	-11.6
1959	25.6	15,089	190.9	1981	797.8	6,695,745	-21.8
1960	181.1	81,372	607.4	1982	704.5	6,952,887	-11.7
1961	330.9	202,150	82.7	1983	660.9	7,194,116	-6.2
1962	436.9	361,619	32.0	1984	695.4	7,448,632	5.2
1963	504.3	545,688	15.4	1985	672.4	7,694,050	-3.3
1964	557.8	749,843	10.6	1986	673.9	7,940,017	0.2
1965	558.7	953,768	0.2	1987	648.2	8,176,619	-3.8
1966	718.7	1,216,094	28.6	1988	672.9	8,422,883	3.8
1967	825.7	1,517,474	14.9	1989	727.3	8,688,347	8.1
1968	904.2	1,848,412	9.5	1990	783.5	8,974,318	7.7
1969	946.4	2,193,848	4.7	1991	803.0	9,267,413	2.5
1970	1,029.1	2,569,469	8.7	1992	756.5	9,544,292	-5.8
1971	785.4	2,856,140	-23.7	1993	747.3	9,817,057	-1.2
1972	1,062.3	3,244,942	35.3	1994	752.5	10,091,719	0.7
1973	1,097.3	3,645,456	3.3	1995	752.5	10,366,382	-
1974	1,008.6	4,013,595	-8.1	1996	805.7	10,661,268	7.1
1975	982.6	4,372,244	-2.6	1997	846.1	10,970,094	5.0
1976	1,075.1	4,765,728	9.4	1998	827.3	11,272,059	-2.2
1977	1,152.3	5,186,312	7.2	1999	749.6	11,545,675	-9.4
1978	1,161.2	5,610,136	0.8 ¹				

Note: Revisions have been made throughout the time series.

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, 1979–99
(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

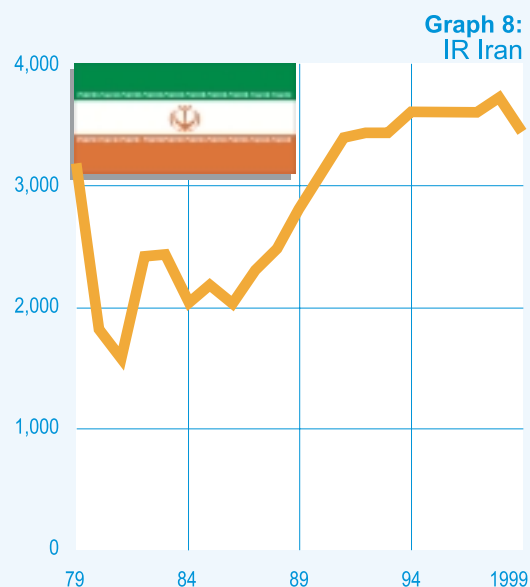
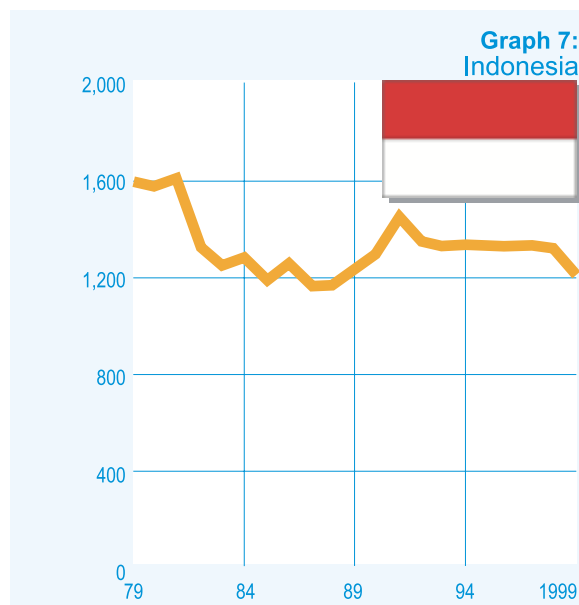
Cumulative crude oil production in OPEC Members (1,000 b)

Indonesia

Year	Daily average	Cumulative	% change in daily av
1987	1,158.1	12,630,257	-7.9
1988	1,168.9*	13,058,077	0.9
1989	1,231.0	13,507,392	5.3
1990	1,299.3	13,981,636	5.5
1991	1,450.0	14,510,886	11.6
1992	1,347.7	15,004,144	-7.1
1993	1,327.3	15,488,609	-1.5
1994	1,332.8	15,975,081	0.4
1995	1,328.4	16,459,947	-0.3
1996	1,326.7	16,945,521	-0.1
1997	1,330.4	17,431,102	0.3
1998	1,315.4	17,911,212	-1.1
1999	1,207.1	18,351,812	-8.2

Note: Revisions have been made throughout the time series.

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.*



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		1957	719.8	3,136,619	32.9
1914	8.0	4,745	60.0	1958	826.1	3,438,146	14.8
1915	10.0	8,395	25.0	1959	928.2	3,776,939	12.4
1916	12.0	12,787	20.0	1960	1,067.7	4,167,717	15.0
1917	19.0	19,722	58.3	1961	1,202.2	4,606,520	12.6
1918	23.6	28,336	24.2	1962	1,334.5	5,093,613	11.0
1919	27.8	38,483	17.8	1963	1,491.3	5,637,937	11.7
1920	33.4	50,707	20.1	1964	1,710.7	6,264,053	14.7
1921	45.7	67,388	36.8	1965	1,908.3	6,960,583	11.6
1922	61.0	89,653	33.5	1966	2,131.8	7,738,690	11.7
1923	69.1	114,874	13.3	1967	2,603.2	8,688,858	22.1
1924	88.5	147,265	28.1	1968	2,839.8	9,728,225	9.1
1925	96.0	182,305	8.5	1969	3,375.8	10,960,392	18.9
1926	98.2	218,148	2.3	1970	3,829.0	12,357,977	13.4
1927	108.7	257,824	10.7	1971	4,539.5	14,014,894	18.6
1928	118.7	301,268	9.2	1972	5,023.1	15,853,349	10.7
1929	115.5	343,426	-2.7	1973	5,860.9	17,992,577	16.7
1930	125.6	389,270	8.7	1974	6,021.6	20,190,461	2.7
1931	121.6	433,654	-3.2	1975	5,350.1	22,143,248	-11.2
1932	135.2	483,137	11.2	1976	5,882.9	24,296,396	10.0
1933	149.0	537,522	10.2	1977	5,662.8	26,363,325	-3.7
1934	158.5	595,374	6.4	1978	5,241.7	28,276,547	-7.4
1935	156.9	652,643	-1.0	1979	3,167.9	29,432,830	-39.6
1936	171.4	715,375	9.2	1980	1,816.6*	30,097,718	-42.7
1937	213.2	793,193	24.4	1981	1,565.0*	30,668,945	-13.9
1938	214.7	871,559	0.7	1982	2,420.6*	31,552,479	54.7
1939	214.1	949,705	-0.3	1983	2,441.7	32,443,694	0.9
1940	181.2	1,016,024	-15.4	1984	2,032.4	33,187,553	-16.8
1941	139.1	1,066,796	-23.2	1985	2,192.3	33,987,752	7.9
1942	198.0	1,139,066	42.3	1986	2,037.1	34,731,298	-7.1
1943	204.4	1,213,672	3.2	1987	2,297.6	35,569,930	12.8
1944	278.8	1,315,713	36.4	1988	2,476.3*	36,476,242	7.8
1945	357.6	1,446,237	28.3	1989	2,814.1	37,503,380	13.6
1946	402.2	1,593,040	12.5	1990	3,132.3*	38,646,676	11.3
1947	424.7	1,748,055	5.6	1991	3,401.9*	39,888,387	8.6
1948	520.2	1,938,448	22.5	1992	3,431.6	41,144,350	0.9
1949	560.9	2,143,177	7.8	1993	3,425.2	42,394,550	-0.2
1950	664.3	2,385,646	18.4	1994	3,596.0	43,707,090	5.0
1951	349.6	2,513,250	-47.4	1995	3,595.0	45,019,265	-
1952	27.6	2,523,352	-92.1	1996	3,596.0	46,335,401	-
1953	26.8	2,533,134	-2.9	1997	3,603.4	47,650,635	0.2
1954	61.4	2,555,545	129.1	1998	3,714.0	49,006,245	3.1
1955	328.9	2,675,594	435.7	1999	3,439.0	50,261,480	-7.4
1956	541.8	2,873,892	64.7				

Note: Revisions have been made throughout the time series.

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		1964	1,255.2	4,369,885	8.0
1929	3.0	2,083	11.1	1965	1,312.6	4,848,984	4.6
1930	2.0	2,813	-33.3	1966	1,392.2	5,357,137	6.1
1931	2.0	3,543	-	1967	1,228.1	5,805,393	-11.8
1932	1.4	4,055	-30.0	1968	1,503.3	6,355,601	22.4
1933	1.6	4,639	14.3	1969	1,521.2	6,910,839	1.2
1934	16.5	10,662	931.3	1970	1,548.6	7,476,078	1.8
1935	78.1	39,168	373.3	1971	1,694.1	8,094,424	9.4
1936	85.7	70,535	9.7	1972	1,465.5	8,630,797	-13.5
1937	92.4	104,261	7.8	1973	2,018.1	9,367,404	37.7
1938	91.5	137,658	-1.0	1974	1,970.6	10,086,673	-2.4
1939	85.5	168,866	-6.6	1975	2,261.7	10,912,193	14.8
1940	55.9	189,325	-34.6	1976	2,415.4	11,796,236	6.8
1941	36.3	202,575	-35.1	1977	2,348.2	12,653,333	-2.8
1942	55.7	222,905	53.4	1978	2,562.0	13,588,475	9.1
1943	79.3	251,850	42.4	1979	3,476.9	14,857,556	35.7
1944	92.5	285,705	16.6	1980	2,646.4	15,826,155	-23.9
1945	100.1	322,241	8.2	1981	897.4	16,153,706	-66.1
1946	101.8	359,398	1.7	1982	1,078.4*	16,547,318	20.2
1947	103.0	396,993	1.2	1983	1,098.8	16,948,375	1.9
1948	76.6	425,029	-25.6	1984	1,221.3	17,395,378	11.2
1949	90.6	458,098	18.3	1985	1,404.4	17,907,969	15.0
1950	139.6	509,052	54.1	1986	1,876.5	18,592,903	33.6
1951	180.8	575,044	29.5	1987	2,358.7	19,453,818	25.7
1952	389.0	717,418	115.2	1988	2,744.5*	20,458,288	16.4
1953	581.4	929,629	49.5	1989	2,785.8	21,475,100	1.5
1954	636.2	1,161,842	9.4	1990	2,112.7*	22,246,254	-24.2
1955	697.0	1,416,247	9.6	1991	281.8*	22,349,107	-86.7
1956	641.0	1,650,853	-8.0	1992	526.2	22,541,697	86.7
1957	449.5	1,814,920	-29.9	1993	659.5	22,782,402	25.3
1958	731.3	2,081,845	62.7	1994	748.7	23,055,669	13.5
1959	856.9	2,394,613	17.2	1995	736.9	23,324,634	-1.6
1960	972.2	2,750,438	13.5	1996	740.4	23,595,628	0.5
1961	1,007.1	3,118,030	3.6	1997	1,383.9	24,100,757	86.9
1962	1,009.2	3,486,388	0.2	1998	2,181.1	24,896,852	57.6
1963	1,161.9	3,910,481	15.1	1999	2,719.8*	25,889,594	24.7

Note: Revisions have been made throughout the time series.

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

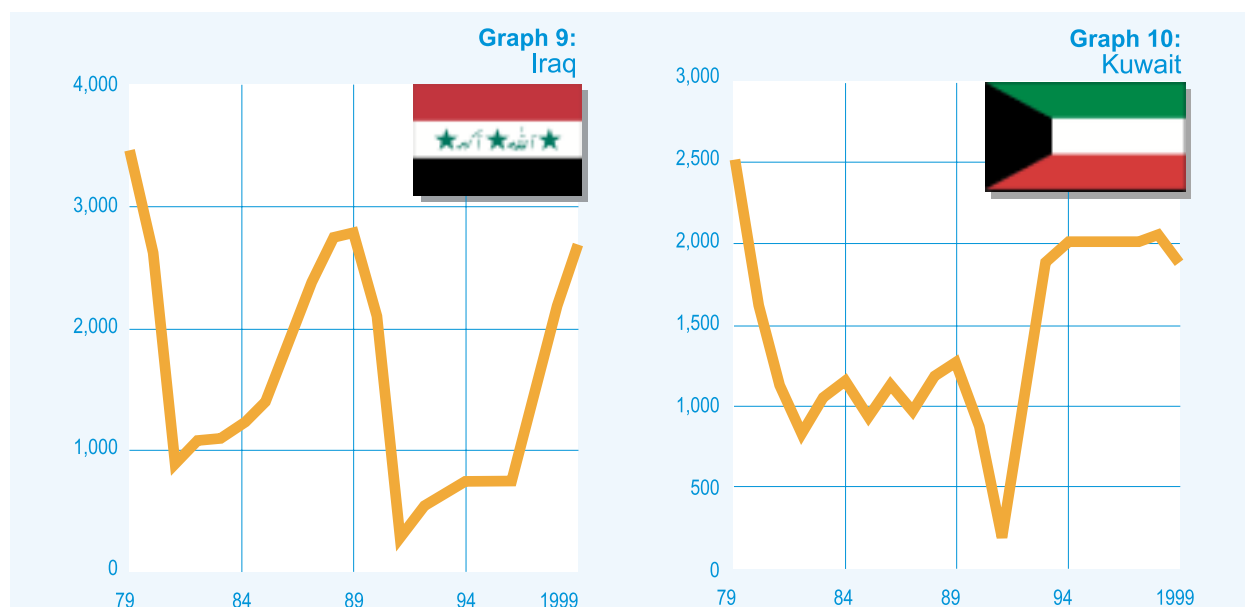
Cumulative crude oil production in OPEC Members
(1,000 b)

Kuwait

Year	Daily average	Cumulative	% change in daily av	Year	Daily average	Cumulative	% change in daily av
1946	16.2	5,913		1973	3,020.4	16,499,725	-8.0
1947	44.5	22,156	174.7	1974	2,546.1	17,429,052	-15.7
1948	127.2	68,711	185.8	1975	2,084.2	18,189,785	-18.1
1949	246.5	158,683	93.8	1976	2,145.4	18,975,000	2.9
1950	344.4	284,389	39.7	1977	1,969.0	19,693,684	-8.2
1951	561.4	489,300	63.0	1978	2,131.4	20,471,641	8.2
1952	747.1	762,739	33.1	1979	2,500.3	21,384,250	17.3
1953	861.9	1,077,332	15.4	1980	1,663.7	21,993,164	-33.5
1954	959.7	1,427,623	11.3	1981	1,129.7	22,405,504	-32.1
1955	1,103.6	1,830,437	15.0	1982	824.3	22,706,374	-27.0
1956	1,108.5	2,236,148	0.4	1983	1,054.1	23,091,120	27.9
1957	1,171.6	2,663,782	5.7	1984	1,163.0	23,516,778	10.3
1958	1,435.8	3,187,849	22.6	1985	936.3	23,858,536	-19.5
1959	1,441.1	3,713,850	0.4	1986	1,129.0*	24,270,616	20.6
1960	1,691.8	4,333,049	17.4	1987	971.6	24,625,254	-13.9
1961	1,735.0	4,966,324	2.6	1988	1,186.3*	25,059,444	22.1
1962	1,957.8	5,680,921	12.8	1989	1,275.9*	25,525,131	7.5
1963	2,096.3	6,446,071	7.1	1990	856.5*	25,837,756	-32.9
1964	2,301.0	7,288,237	9.8	1991	190.1*	25,907,125	-77.8
1965	2,360.3	8,149,746	2.6	1992	1,057.2	26,294,061	456.3
1966	2,484.1	9,056,443	5.2	1993	1,881.8	26,980,918	78.0
1967	2,499.8	9,968,870	0.6	1994	2,006.6	27,713,327	6.6
1968	2,613.5	10,925,411	4.5	1995	2,006.6	28,445,736	-
1969	2,773.4	11,937,702	6.1	1996	2,005.6	29,179,785	-
1970	2,989.6	13,028,906	7.8	1997	2,007.1	29,912,377	0.1
1971	3,196.7	14,195,701	6.9	1998	2,051.5	30,661,174	2.2
1972	3,283.0	15,397,279	2.7	1999	1,872.7	31,344,710	-8.7

Notes: Revisions have been made throughout the time series. 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.



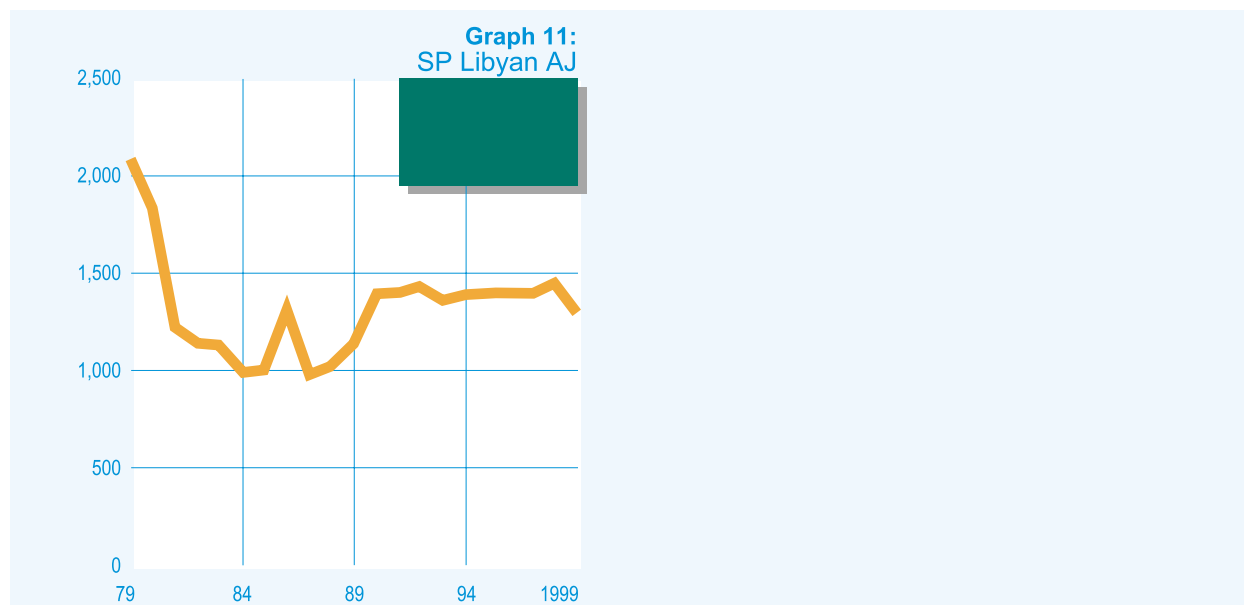
Cumulative crude oil production in OPEC Members (1,000 b)

SP Libyan AJ

Year	Daily average	Cumulative	% change in daily av	Year	Daily average	Cumulative	% change in daily av
1961	18.2	6,643		1981	1,217.8	13,255,340	-33.5
1962	182.3	73,183	901.6	1982	1,136.0	13,669,980	-6.7
1963	441.8	234,440	142.3	1983	1,121.1*	14,079,167	-1.3
1964	862.4	550,078	95.2	1984	984.6	14,439,530	-12.2
1965	1,218.8	994,940	41.3	1985	999.0*	14,804,169	1.5
1966	1,501.1	1,542,841	23.2	1986	1,308.0	15,281,589	30.9
1967	1,740.5	2,178,124	15.9	1987	972.5	15,636,553	-25.6
1968	2,602.1	3,130,493	49.5	1988	1,021.1*	16,010,273	5.0
1969	3,109.1	4,265,314	19.5	1989	1,129.2	16,422,423	10.6
1970	3,318.0	5,476,384	6.7	1990	1,388.5*	16,929,214	23.0
1971	2,760.8	6,484,076	-16.8	1991	1,399.4*	17,439,985	0.8
1972	2,239.4	7,303,696	-18.9	1992	1,432.7	17,964,354	2.4
1973	2,174.9	8,097,535	-2.9	1993	1,361.0	18,461,116	-5.0
1974	1,521.3	8,652,809	-30.1	1994	1,389.8	18,968,403	2.1
1975	1,479.8	9,192,936	-2.7	1995	1,399.0	19,479,052	0.7
1976	1,932.6	9,900,269	30.6	1996	1,394.0	19,989,258	-0.4
1977	2,063.4	10,653,397	6.8	1997	1,395.8	20,498,711	0.1
1978	1,982.5	11,377,013	-3.9	1998	1,449.0*	21,027,607	3.8
1979	2,091.7	12,140,485	5.5	1999	1,287.2*	21,497,429	-11.2
1980	1,831.6	12,810,843	-12.4				

Note: Revisions have been made throughout the time series.

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



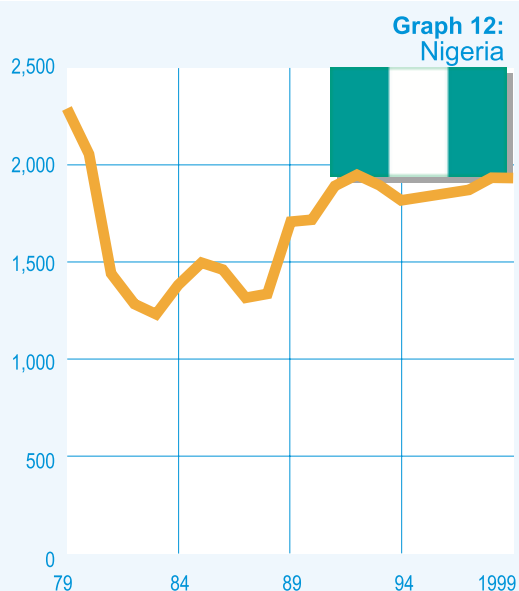
Cumulative crude oil production in OPEC Members
(1,000 b)

Nigeria

Year	Daily average	Cumulative	% change in daily av	Year	Daily average	Cumulative	% change in daily av
1958	5.1	1,862		1979	2,302.0	7,636,229	21.3
1959	11.2	5,950	119.6	1980	2,058.0	8,389,457	-10.6
1960	17.4	12,318	55.4	1981	1,439.6	8,914,911	-30.0
1961	46.0	29,108	164.4	1982	1,287.0	9,384,666	-10.6
1962	67.5	53,746	46.7	1983	1,235.5	9,835,623	-4.0
1963	76.5	81,668	13.3	1984	1,388.0	10,343,631	12.3
1964	120.2	125,662	57.1	1985	1,498.9	10,890,730	8.0
1965	274.2	225,745	128.1	1986	1,466.6	11,426,039	-2.2
1966	417.6	378,169	52.3	1987	1,323.0	11,908,934	-9.8
1967	319.1	494,640	-23.6	1988	1,340.0*	12,399,367	1.3
1968	141.3	546,356	-55.7	1989	1,716.3	13,025,817	28.1
1969	540.3	743,565	282.4	1990	1,726.7	13,656,062	0.6
1970	1,083.1	1,138,897	100.5	1991	1,893.1	14,347,044	9.6
1971	1,531.2	1,697,785	41.4	1992	1,957.0	15,063,306	3.4
1972	1,815.7	2,362,331	18.6	1993	1,905.2	15,758,704	-2.6
1973	2,054.3	3,112,151	13.1	1994	1,820.9	16,423,324	-4.4
1974	2,255.0	3,935,226	9.8	1995	1,842.6	17,095,871	1.2
1975	1,783.2	4,586,094	-20.9	1996	1,863.1	17,777,753	1.1
1976	2,066.8	5,342,537	15.9	1997	1,876.7	18,462,764	0.7
1977	2,085.1	6,103,598	0.9	1998	1,939.0*	19,170,516	3.3
1978	1,897.0	6,796,000	-9.0	1999	1,939.8	19,878,536	-

Note: Revisions have been made throughout the time series.

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.



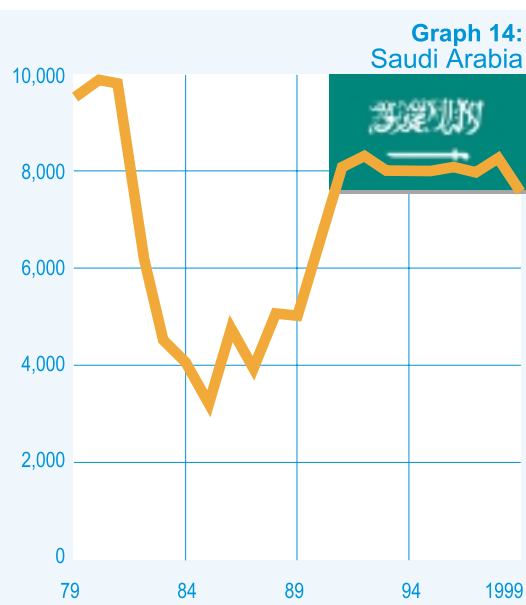
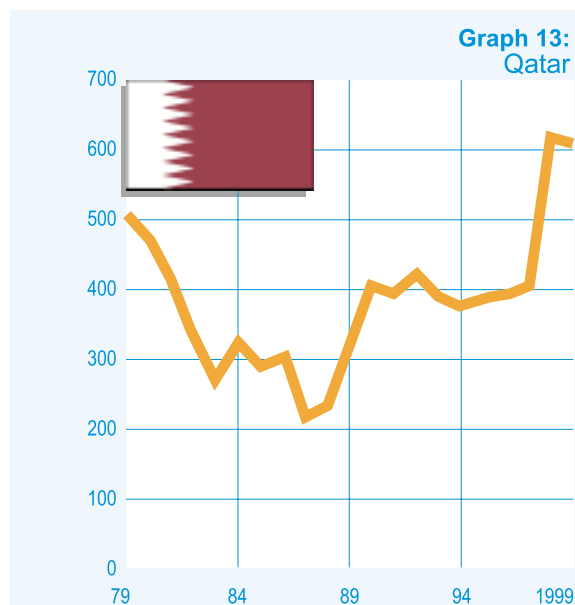
Cumulative crude oil production in OPEC Members (1,000 b)

Qatar

Year	Daily average	Cumulative	% change in daily av	Year	Daily average	Cumulative	% change in daily av
1949	2.0	730		1975	437.6	2,319,447	-15.6
1950	33.6	12,994	1,580.0	1976	497.3	2,501,464	13.6
1951	49.3	30,989	46.7	1977	444.6	2,663,744	-10.6
1952	69.0	56,243	40.0	1978	486.7	2,841,383	9.5
1953	85.0	87,268	23.2	1979	508.1	3,026,842	4.4
1954	99.9	123,731	17.5	1980	471.4	3,199,374	-7.2
1955	115.0	165,706	15.1	1981	415.2	3,350,924	-11.9
1956	123.9	211,053	7.7	1982	332.0	3,472,104	-20.0
1957	138.5	261,606	11.8	1983	269.0	3,570,289	-19.0
1958	175.1	325,517	26.4	1984	325.3	3,689,348	20.9
1959	170.4	387,713	-2.7	1985	288.9*	3,794,786	-11.2
1960	174.6	451,617	2.5	1986	304.3*	3,905,863	5.3
1961	177.2	516,295	1.5	1987	215.6*	3,984,538	-29.2
1962	186.2	584,258	5.1	1988	233.1*	4,069,842	8.1
1963	191.5	654,156	2.8	1989	320.2	4,186,730	37.4
1964	215.3	732,955	12.4	1990	405.6	4,334,774	26.7
1965	232.6	817,854	8.0	1991	391.2	4,477,562	-3.6
1966	291.3	924,179	25.2	1992	423.2	4,632,453	8.2
1967	323.6	1,042,293	11.1	1993	390.3	4,774,913	-7.8
1968	339.5	1,166,550	4.9	1994	378.7	4,913,138	-3.0
1969	355.5	1,296,307	4.7	1995	389.8	5,055,426	2.9
1970	362.4	1,428,583	1.9	1996	393.1	5,199,284	0.8
1971	430.7	1,585,789	18.8	1997	405.0	5,347,114	3.0
1972	482.4	1,762,347	12.0	1998	618.1	5,572,721	52.6
1973	570.3	1,970,507	18.2	1999	608.5	5,794,823	-1.6
1974	518.4	2,159,723	-9.1				

Note: Revisions have been made throughout the time series.

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.



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		1969	3,216.2	11,897,177	5.7
1939	10.8	4,453	671.4	1970	3,799.1	13,283,848	18.1
1940	13.9	9,540	28.7	1971	4,768.9	15,024,497	25.5
1941	11.8	13,847	-15.1	1972	6,016.3	17,226,462	26.2
1942	12.4	18,373	5.1	1973	7,596.2	19,999,075	26.3
1943	13.3	23,228	7.3	1974	8,479.7	23,094,166	11.6
1944	21.3	31,024	60.2	1975	7,075.4	25,676,687	-16.6
1945	58.4	52,340	174.2	1976	8,577.2	28,815,932	21.2
1946	164.2	112,273	181.2	1977	9,199.9	32,173,898	7.3
1947	246.2	202,136	49.9	1978	8,301.1	35,203,793	-9.8
1948	390.3	344,986	58.5	1979	9,532.6	38,683,202	14.8
1949	476.7	518,981	22.1	1980	9,900.5	42,306,785	3.9
1950	546.7	718,527	14.7	1981	9,808.0	45,886,705	-0.9
1951	761.5	996,474	39.3	1982	6,483.0	48,253,000	-33.9
1952	824.8	1,298,351	8.3	1983	4,539.4	49,909,884	-30.0
1953	844.6	1,606,630	2.4	1984	4,079.1	51,402,828	-10.1
1954	961.8	1,957,687	13.9	1985	3,175.0	52,561,686	-22.2
1955	976.6	2,314,146	1.5	1986	4,784.2	54,307,919	50.7
1956	1,002.8	2,681,171	2.7	1987	3,975.2	55,758,849	-16.9
1957	1,030.8	3,057,413	2.8	1988	5,090.6*	57,622,007	28.1
1958	1,058.5	3,443,765	2.7	1989	5,064.5	59,470,549	-0.5
1959	1,152.7	3,864,501	8.9	1990	6,412.5	61,811,112	26.6
1960	1,313.5	4,345,242	13.9	1991	8,117.8	64,774,109	26.6
1961	1,480.1	4,885,478	12.7	1992	8,331.7	67,823,511	2.6
1962	1,642.9	5,485,137	11.0	1993	8,047.7	70,760,921	-3.4
1963	1,786.0	6,137,027	8.7	1994	8,049.0	73,698,806	-
1964	1,896.5	6,831,146	6.2	1995	8,023.4	76,627,347	-0.3
1965	2,205.3	7,636,080	16.3	1996	8,102.3	79,592,789	1.0
1966	2,601.8	8,585,737	18.0	1997	8,011.7	82,517,060	-1.1
1967	2,805.0	9,609,562	7.8	1998	8,280.2	85,539,333	3.4
1968	3,042.9	10,723,264	8.5	1999	7,564.7	88,300,448	-8.6

Notes: Revisions have been made throughout the time series. Figures include share of production from Neutral Zone.

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

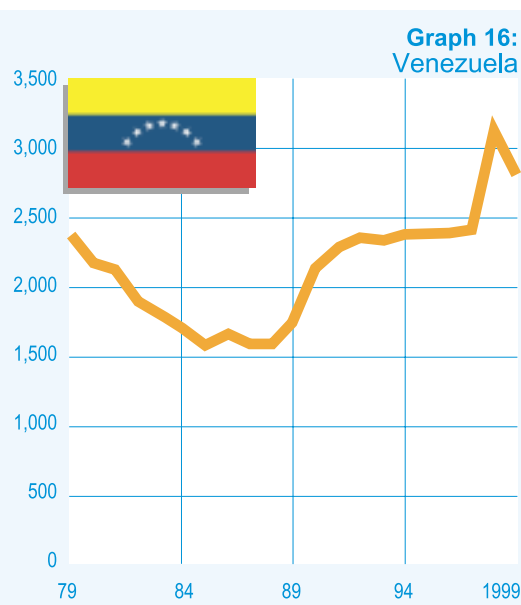
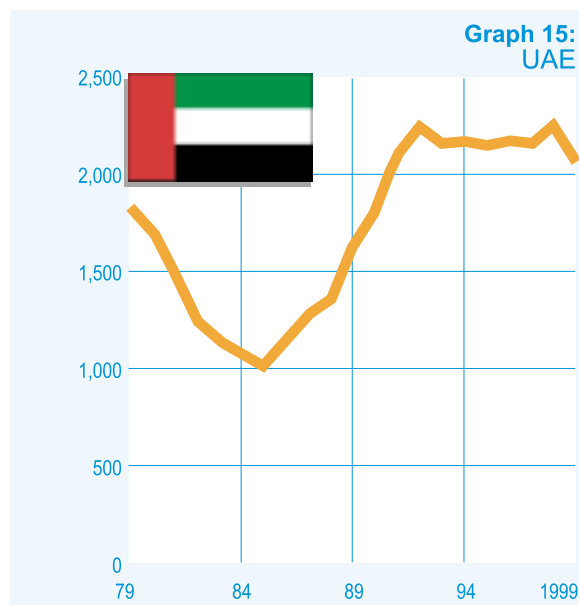
Cumulative crude oil production in OPEC Members (1,000 b)

United Arab Emirates

Year	Daily average	Cumulative	% change in daily av	Year	Daily average	Cumulative	% change in daily av
1962	14.2	5,183		1981	1,502.3	7,712,570	-11.7
1963	48.2	22,776	239.4	1982	1,248.8	8,168,382	-16.9
1964	186.8	91,145	287.6	1983	1,149.0	8,587,775	-8.0
1965	282.2	194,148	51.1	1984	1,069.0	8,979,037	-7.0
1966	360.0	325,548	27.6	1985	1,012.6*	9,348,624	-5.3
1967	382.1	465,014	6.1	1986	1,146.0*	9,766,918	13.2
1968	496.6	646,770	30.0	1987	1,281.1*	10,234,502	11.8
1969	627.8	875,917	26.4	1988	1,359.4*	10,732,031	6.1
1970	779.6	1,160,471	24.2	1989	1,641.3*	11,331,110	20.7
1971	1,059.5	1,547,188	35.9	1990	1,818.5*	11,994,858	10.8
1972	1,202.7	1,987,377	13.5	1991	2,093.6*	12,759,028	15.1
1973	1,532.6	2,546,776	27.4	1992	2,241.1*	13,579,260	7.0
1974	1,678.6	3,159,465	9.5	1993	2,159.3	14,367,399	-3.6
1975	1,663.8	3,766,752	-0.9	1994	2,166.5	15,158,184	0.3
1976	1,936.4	4,475,475	16.4	1995	2,148.0	15,942,204	-0.9
1977	1,998.7	5,205,004	3.2	1996	2,161.3	16,733,239	0.6
1978	1,830.5	5,873,137	-8.4	1997	2,160.7	17,521,895	-
1979	1,830.7	6,541,339	-	1998	2,244.1	18,340,991	3.9
1980	1,701.9	7,164,231	-7.0	1999	2,048.8	19,088,803	-8.7

Note: Revisions have been made throughout the time series.

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



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		1959	2,771.0	12,823,815	6.4
1918	0.9	439	200.0	1960	2,846.1	13,865,487	2.7
1919	0.8	731	-11.1	1961	2,919.9	14,931,251	2.6
1920	1.3	1,206	62.5	1962	3,199.8	16,099,178	9.6
1921	4.0	2,666	207.7	1963	3,247.9	17,284,661	1.5
1922	6.1	4,893	52.5	1964	3,392.8	18,526,426	4.5
1923	11.9	9,236	95.1	1965	3,472.9	19,794,035	2.4
1924	24.9	18,350	109.2	1966	3,371.1	21,024,486	-2.9
1925	54.6	38,279	119.3	1967	3,542.1	22,317,353	5.1
1926	97.7	73,939	78.9	1968	3,604.8	23,636,710	1.8
1927	165.5	134,347	69.4	1969	3,594.1	24,948,556	-0.3
1928	289.5	240,304	74.9	1970	3,708.0	26,301,976	3.2
1929	372.8	376,376	28.8	1971	3,549.1	27,597,398	-4.3
1930	370.5	511,608	-0.6	1972	3,219.9	28,775,881	-9.3
1931	320.2	628,481	-13.6	1973	3,366.0	30,004,471	4.5
1932	319.0	745,235	-0.4	1974	2,976.3	31,090,820	-11.6
1933	323.8	863,422	1.5	1975	2,346.2	31,947,183	-21.2
1934	373.4	999,713	15.3	1976	2,294.4	32,786,934	-2.2
1935	406.9	1,148,232	9.0	1977	2,237.9	33,603,767	-2.5
1936	422.5	1,302,867	3.8	1978	2,165.5	34,394,185	-3.2
1937	508.9	1,488,615	20.4	1979	2,356.4	35,254,273	8.8
1938	515.2	1,676,663	1.2	1980	2,165.0	36,046,663	-8.1
1939	560.4	1,881,209	8.8	1981	2,108.3	36,816,193	-2.6
1940	502.3	2,065,051	-10.4	1982	1,895.0	37,507,868	-10.1
1941	621.3	2,291,826	23.7	1983	1,800.8	38,165,160	-5.0
1942	405.9	2,439,979	-34.7	1984	1,695.5	38,785,713	-5.8
1943	491.5	2,619,377	21.1	1985	1,564.0	39,356,573	-7.8
1944	702.3	2,876,418	42.9	1986	1,648.5	39,958,275	5.4
1945	886.0	3,199,808	26.2	1987	1,575.5	40,533,333	-4.4
1946	1,064.3	3,588,278	20.1	1988	1,578.1	41,110,931	0.2
1947	1,191.5	4,023,175	12.0	1989	1,747.4	41,748,732	10.7
1948	1,338.8	4,513,176	12.4	1990	2,135.2	42,528,080	22.2
1949	1,321.4	4,995,487	-1.3	1991	2,286.2	43,362,543	7.1
1950	1,498.0	5,542,257	13.4	1992	2,345.6	44,221,032	2.6
1951	1,704.6	6,164,436	13.8	1993	2,326.0	45,070,022	-0.8
1952	1,803.9	6,824,664	5.8	1994	2,367.9	45,934,306	1.8
1953	1,765.0	7,468,889	-2.2	1995	2,378.5	46,802,458	0.4
1954	1,895.3	8,160,673	7.4	1996	2,381.0	47,673,904	0.1
1955	2,157.2	8,948,051	13.8	1997	2,411.0	48,553,919	1.3
1956	2,456.8	9,847,240	13.9	1998	3,120.0	49,692,719	29.4
1957	2,779.2	10,861,648	13.1	1999	2,800.4	50,714,865	-10.2
1958	2,604.8	11,812,400	-6.3				

Note: Revisions have been made throughout the time series.

Sources: Direct communications to the Secretariat; 1917-1963: Ministry of Mines and Hydrocarbons Industry, statistical data, 1966-99: direct communications to the Secretariat and secondary sources.

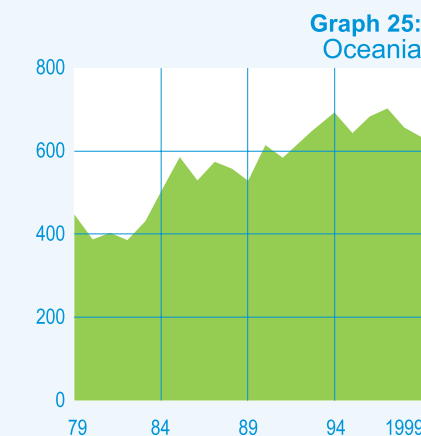
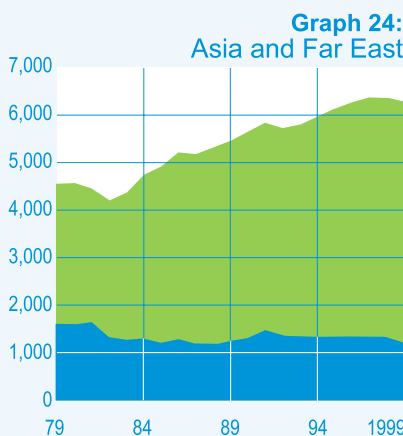
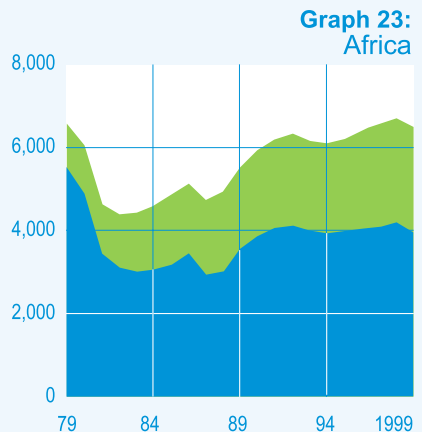
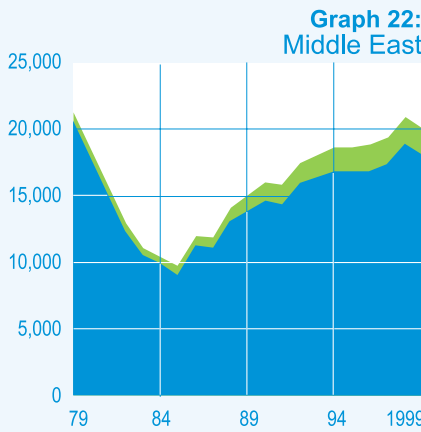
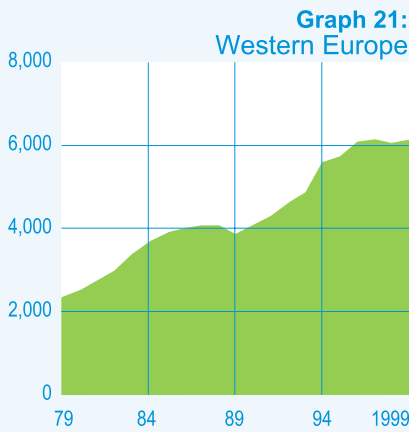
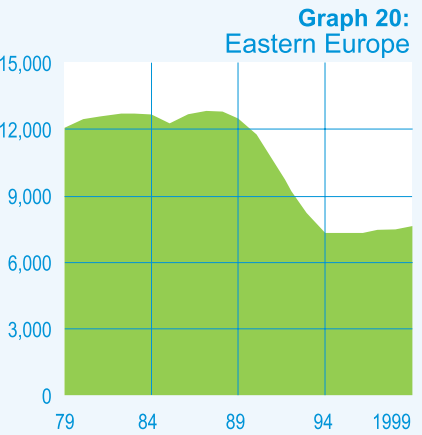
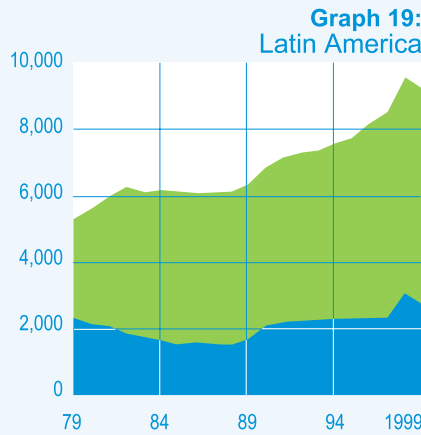
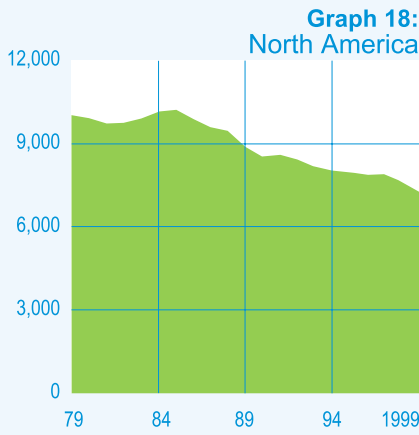
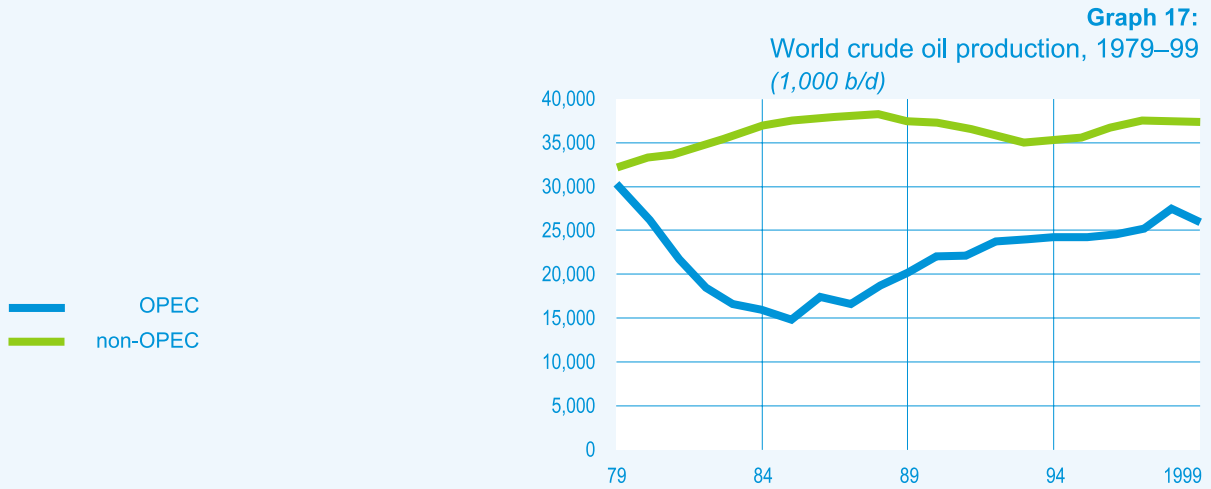
World crude oil production by country, 1995-99
(1,000 b/d)

	1995	1996	1997	1998	1999	% change 99/98
North America	7,939.1	7,857.4	7,869.5	7,623.1	7,268.6	-4.7
Canada	1,380.3	1,392.8	1,418.0	1,371.2	1,343.3	-2.0
USA	6,558.8	6,464.6	6,451.4	6,251.9	5,925.3	-5.2
Latin America	7,731.8	8,162.7	8,481.6	9,525.1	9,213.0	-3.3
Argentina	718.6	782.0	834.2	846.9	822.1	-2.9
Brazil	693.0	783.8	841.7	1,024.3	1,165.3	13.8
Chile	22.6	9.1	8.5	8.1	7.7	-5.0
Colombia	584.9	625.1	652.5	746.9	818.5	9.6
Ecuador	391.0	393.6	386.8	377.9	372.1	-1.5
Mexico	2,617.8	2,858.2	3,022.4	3,070.6	2,906.1	-5.4
Peru	121.8	120.3	118.3	114.7	102.7	-10.5
Trinidad & Tobago	131.2	129.1	123.8	122.6	125.5	2.3
Venezuela	2,378.5	2,381.0	2,411.0	3,120.0	2,800.4	-10.2
Others	72.5	80.5	82.7	93.0	92.6	-0.4
Eastern Europe	7,261.2	7,228.9	7,402.6	7,423.8	7,606.1	2.5
Albania	10.0	9.0	8.1	7.0	6.2	-10.8
Hungary	43.2	37.4	33.2	31.3	29.0	-7.4
Romania	137.6	136.0	136.0	131.0	123.0	-6.1
Former USSR	7,059.3	7,034.8	7,214.7	7,242.0	7,434.1	2.7
Others	11.1	11.7	10.6	12.6	13.9	10.8
Western Europe	5,743.9	6,081.4	6,130.3	6,055.2	6,141.2	1.4
Denmark	186.0	208.6	230.9	236.5	296.7	25.4
France	51.3	42.3	35.6	34.2	30.5	-10.8
Germany	58.2	56.4	55.5	56.9	53.9	-5.3
Italy	90.9	101.6	107.8	104.7	83.4	-20.3
Netherlands	65.1	57.0	56.0	53.6	51.2	-4.4
Norway	2,697.6	3,030.8	3,062.9	2,908.0	2,921.9	0.5
Turkey	67.2	67.3	67.8	68.0	60.2	-11.4
UK	2,420.2	2,418.1	2,422.1	2,506.4	2,569.9	2.5
Former Yugoslavia	60.8	55.0	49.0	46.6	42.7	-8.2
Others	46.5	44.4	42.7	40.3	30.8	-23.7
Middle East	18,856.3	19,019.3	19,606.6	21,108.5	20,289.0	-3.9
Bahrain	145.4	174.3	182.4	185.0	185.5	0.3
IR Iran	3,595.0	3,596.0	3,603.4	3,714.0	3,439.0	-7.4
Iraq	736.9	740.4	1,383.9	2,181.1	2,719.8	24.7
Kuwait ¹	2,006.6	2,005.6	2,007.1	2,051.5	1,872.7	-8.7
Oman	848.1	882.6	899.6	896.1	903.3	0.8
Qatar	389.8	393.1	405.0	618.1	608.5	-1.6
Saudi Arabia ¹	8,023.4	8,102.3	8,011.7	8,280.2	7,564.7	-8.6
Syrian Arab Republic	622.8	607.0	572.0	553.4	537.5	-2.9
United Arab Emirates	2,148.0	2,161.3	2,160.7	2,244.1	2,048.8	-8.7
Yemen	340.3	356.7	380.8	385.1	409.2	6.3
Africa	6,213.4	6,433.4	6,613.2	6,734.6	6,517.9	-3.2
Algeria	752.5	805.7	846.1	827.3	749.6	-9.4
Angola	607.1	679.2	713.6	734.4	765.0	4.2
Cameroon	100.0	92.5	100.0	100.0	100.0	-
Congo	176.7	210.2	265.0	265.0	265.0	-
Egypt	892.9	860.7	846.0	816.1	774.2	-5.1
Gabon	301.8	361.2	367.5	359.9	340.0	-5.5
SP Libyan AJ	1,399.0	1,394.0	1,395.8	1,449.0*	1,287.2*	-11.2
Nigeria	1,842.6	1,863.1	1,876.7	1,939.0*	1,939.8	-
Tunisia	85.4	86.3	78.4	78.8	79.7	1.1
Others	55.4	80.4	124.0	164.9	217.3	31.8
Asia and Far East	6,131.6	6,280.7	6,380.8	6,362.4	6,286.0	-1.2
Brunei	157.5	148.4	147.0	141.3	166.2	17.6
China	2,996.2	3,173.2	3,252.4	3,215.6	3,211.9	-0.1
India	695.2	661.1	679.1	662.1	668.2	0.9
Indonesia	1,328.4	1,326.7	1,330.4	1,315.4	1,207.1	-8.2
Malaysia	665.3	646.6	624.2	639.6	619.2	-3.2
Others	289.1	324.7	347.6	388.4	413.4	6.4
Oceania	643.0	684.2	704.9	659.7	634.9	-3.8
Australia	510.7	535.2	567.1	534.8	505.7	-5.4
New Zealand	32.9	43.4	62.3	46.0	40.9	-11.2
Others	99.4	105.6	75.6	78.8	88.3	12.0
Total world	60,520.3	61,748.0	63,189.6	65,492.4	63,956.8	-2.3
OPEC	24,600.8	24,769.2	25,431.8	27,739.7	26,237.7	-5.4
OPEC percentage	40.6	40.1	40.2	42.4	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.



regional output ■
regional OPEC share ■

Breakdown of natural gas production in OPEC Members, 1995-99
(million standard cu m)

	1995	1996	1997	1998	1999*	% change 99/98
Algeria						
Gross production	143,061	151,818	155,721	157,188	155,835	-0.9
Marketed production	62,301	67,114	75,730	80,876	85,848	6.1
Flaring	8,099	7,486	6,927	6,931	6,733	-2.9
Reinjection	67,318	71,481	67,118	63,959	58,204	-9.0
Shrinkage	5,343	5,737	5,946	5,422	5,050	-6.9
Indonesia						
Gross production	85,100	88,560	88,680	84,370	88,000	4.3
Marketed production	63,360	66,660	67,150	63,470	66,000	4.0
Flaring	5,000	5,000	4,900	5,300	5,600	5.7
Reinjection	15,410	15,500	15,190	14,200	14,900	4.9
Shrinkage	1,330	1,400	1,440	1,400	1,500	7.1
IR Iran						
Gross production	79,570	86,010	82,600	89,000	104,605	17.5
Marketed production	38,600	40,410	47,000	50,000	56,755	13.5
Flaring	11,700	12,000	11,000	10,000	12,500	25.0
Reinjection	25,770	30,000	21,000	25,000	29,850	19.4
Shrinkage	3,500	3,600	3,600	4,000	5,500	37.5
Iraq						
Gross production	3,410	3,480	3,800	4,000	4,335	8.4
Marketed production	3,170	3,240	3,050	2,950	3,200	8.5
Flaring	50	50	500	800	865	8.1
Reinjection	-	-	-	-	-	-
Shrinkage	190	190	250	250	270	8.0
Kuwait						
Gross production	10,868	10,892	10,870	11,081	10,144	-8.5
Marketed production	9,278	9,302	9,270	9,491	8,688	-8.5
Flaring	500	500	510	500	458	-8.4
Reinjection	-	-	-	-	-	-
Shrinkage	1,090	1,090	1,090	1,090	998	-8.4
SP Libyan AJ						
Gross production	12,460	12,640	12,910	12,600	12,140	-3.7
Marketed production	6,340	6,420	6,570	6,360	6,100	-4.1
Flaring	1,780	1,810	1,850	1,830	1,770	-3.3
Reinjection	3,740	3,810	3,890	3,810	3,690	-3.1
Shrinkage	600	600	600	600	580	-3.3
Nigeria						
Gross production	35,100	36,830	32,280	31,750	34,320	8.1
Marketed production	4,844	5,460	5,850	5,900	6,500	10.2
Flaring	26,986	27,320	22,600	20,900	22,500	7.7
Reinjection	3,191	3,930	3,230	4,200	4,520	7.6
Shrinkage	79	120	600	750	800	6.7
Qatar						
Gross production	18,400	18,950	23,710	26,200	32,000	22.1
Marketed production	13,500	13,700	17,400	19,580	24,000	22.6
Flaring	-	-	-	-	-	-
Reinjection	3,100	3,250	3,710	3,860	4,700	21.8
Shrinkage	1,800	2,000	2,600	2,760	3,300	19.6

Breakdown of natural gas production in OPEC Members, 1995-99
(million standard cu m)

	1995	1996	1997	1998	1999*	% change 99/98
Saudi Arabia						
Gross production	44,000	46,260	47,550	48,140	48,690	1.1
Marketed production	42,930	44,510	45,840	46,720	46,200	-1.1
Flaring	240	930	990	430	310	-27.9
Reinjection	210	250	300	100	50	-50.0
Shrinkage	620	570	420	890	2,130	139.3
United Arab Emirates						
Gross production	40,860	45,930	48,090	48,980	51,000	4.1
Marketed production	31,320	33,800	36,310	37,070	38,599	4.1
Flaring	360	390	1,520	1,500	1,500	-
Reinjection	6,000	8,510	7,000	7,150	7,445	4.1
Shrinkage	3,180	3,230	3,260	3,260	3,456	6.0
Venezuela						
Gross production	47,540	55,105	59,153	54,510	57,066	4.7
Marketed production	25,200	29,730	30,211	28,060	26,771	-4.6
Flaring	3,570	4,200	4,430	6,300	3,702	-41.2
Reinjection	14,020	15,258	18,440	15,050	19,712	31.0
Shrinkage	4,750	5,917	6,072	5,100	6,881	34.9
OPEC						
Gross production	520,369	556,475	565,364	567,819	598,135	5.3
Marketed production	300,843	320,346	344,381	350,477	368,661	5.2
Flaring	58,285	59,686	55,227	54,491	55,938	2.7
Reinjection	138,759	151,989	139,878	137,329	143,071	4.2
Shrinkage	22,482	24,454	25,878	25,522	30,465	19.4

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; MEES; AOG; national sources; Secretariat's estimates.

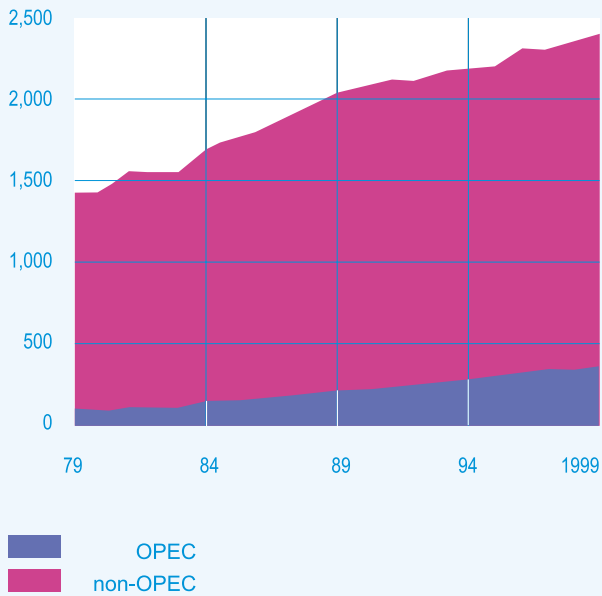
World marketed production of natural gas by country, 1995-99
(million standard cu m)

	1995	1996	1997	1998	1999*	% change 99/98
North America	685,328	697,549	700,829	700,454	706,380	0.8
Canada	158,660	163,630	165,580	170,700	176,400	3.3
United States	526,668	533,919	535,249	529,754	529,980	-
Latin America	99,630	109,950	114,471	121,830	131,061	7.6
Argentina	25,010	26,570	27,380	29,680	34,600	16.6
Bolivia	3,210	3,090	3,170	3,210	4,000	24.6
Brazil	4,510	5,050	5,520	5,720	6,100	6.6
Colombia	4,550	4,740	3,970	6,970	7,000	0.4
Mexico	26,610	29,300	31,700	34,330	36,200	5.4
Trinidad & Tobago	7,590	8,570	9,300	10,580	13,300	25.7
Venezuela	25,200	29,730	30,211	28,060	26,771	-4.6
Others	2,950	2,900	3,220	3,280	3,090	-5.8
Eastern Europe	734,800	740,350	694,510	714,160	724,450	1.4
Hungary	4,880	4,640	4,370	3,900	3,400	-12.8
Poland	4,820	3,600	3,300	3,500	3,600	2.9
Romania	19,350	17,500	15,700	14,600	14,200	-2.7
Former USSR	705,210	714,130	670,680	691,700	702,900	1.6
Others	540	480	460	460	350	-23.9
Western Europe	241,800	278,990	271,960	272,330	276,850	1.7
Denmark	5,450	6,460	7,880	7,580	7,800	2.9
Germany	20,210	21,320	21,520	21,020	22,500	7.0
Italy	20,380	20,220	19,460	19,160	17,500	-8.7
Netherlands	78,350	89,650	81,840	79,900	72,000	-9.9
Norway	30,470	40,920	45,940	46,200	50,300	8.9
United Kingdom	75,480	89,950	85,840	89,630	98,800	10.2
Others	11,460	10,470	9,480	8,840	7,950	-10.1
Middle East	152,708	159,962	178,680	187,201	199,542	6.6
Bahrain	6,490	6,570	7,970	8,290	8,500	2.5
IR Iran	38,600	40,410	47,000	50,000	56,755	13.5
Iraq	3,170	3,240	3,050	2,950	3,200	8.5
Kuwait	9,278	9,302	9,270	9,491	8,688	-8.5
Oman	4,170	4,120	6,970	7,000	7,300	4.3
Qatar	13,500	13,700	17,400	19,580	24,000	22.6
Saudi Arabia	42,930	44,510	45,840	46,720	46,200	-1.1
Syrian Arab Republic	2,940	4,020	4,560	5,800	6,000	3.4
United Arab Emirates	31,320	33,800	36,310	37,070	38,599	4.1
Others	310	290	310	300	300	-
Africa	88,975	96,174	106,410	111,906	119,038	6.4
Algeria	62,301	67,114	75,730	80,876	85,848	6.1
Egypt	12,430	13,400	13,500	13,860	15,500	11.8
SP Libyan AJ	6,340	6,420	6,570	6,360	6,100	-4.1
Nigeria	4,844	5,460	5,850	5,900	6,500	10.2
Others	3,060	3,780	4,760	4,910	5,090	3.7
Asia and Far East	178,170	194,630	204,060	207,070	218,470	5.5
Bangladesh	7,370	7,560	7,630	8,200	9,000	9.8
Brunei	9,350	9,210	9,180	8,920	9,200	3.1
China	17,030	18,990	21,200	22,200	24,200	9.0
India	17,770	19,720	20,300	21,540	21,300	-1.1
Indonesia	63,360	66,660	67,150	63,470	66,000	4.0
Malaysia	28,880	34,830	38,400	40,700	43,000	5.7
Pakistan	18,290	19,720	19,780	20,150	22,000	9.2
Thailand	10,410	12,130	15,230	16,100	17,800	10.6
Others	5,710	5,810	5,190	5,790	5,970	3.1
Oceania	32,300	33,110	35,130	35,720	36,410	1.9
Australia	27,290	28,350	30,430	31,000	31,700	2.3
New Zealand	4,910	4,630	4,590	4,610	4,600	-0.2
Others	100	130	110	110	110	-
Total world	2,213,711	2,310,715	2,306,050	2,350,671	2,412,201	2.6
OPEC	300,843	320,346	344,381	350,477	368,661	5.2
OPEC percentage	13.6	13.9	14.9	14.9	15.3	

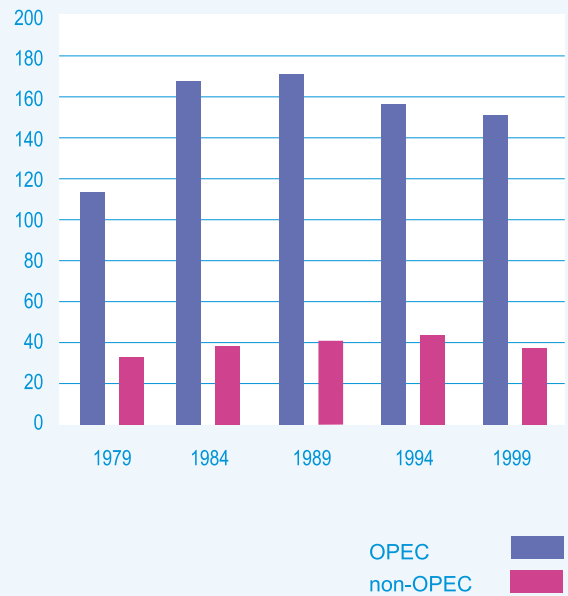
Notes: Totals may not add up due to independent rounding. Revisions have been made throughout the time series.

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

Graph 26:
World marketed gas production, 1979–99
(bn cu m)



Graph 27:
World natural gas reserves to production ratios
(years)



Crude oil production by companies in OPEC Members 1995-99 (1,000 b/d)

Algeria

	1995	1996	1997	1998*	1999*	% change 99/98
Sonatrach	747.2	773.5	813.8	770.5	698.1	-9.4
Total Algérie	5.2	8.2	8.0	7.8	7.1	-9.0
Medaloil	na	na	na	na	na	na
Hispanoil	na	na	na	na	na	na
Braspetro	na	na	na	na	na	na
Total	752.5	805.7	846.1	827.3	749.6	-9.4

Note: Sum of figures may not equal totals due to unavailability of data for some companies.

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

Indonesia

	1995	1996	1997*	1998*	1999*	% change 99/98
Pertamina	65.0	65.0	65.2	64.4	63.7	-
PT Stanvac	na	na	na	na	na	na
Calasiatic/Topco	na	na	na	na	na	na
Total production sharing	1,154.0	1,152.5	1,155.7	1,142.7	1,129.8	na
PT Caltex	616.9	616.1	617.8	610.8	603.9	-
Inpex	na	na	na	na	na	na
Arri	61.8	61.7	61.9	61.2	60.5	-
Arco	na	na	na	na	na	na
Hudbay Oil	na	na	na	na	na	na
Total Indonesie	77.9	77.8	78.0	77.1	76.3	-
Calasiatic/Topco	-	-	-	-	-	-
Unocal	54.5	54.4	54.5	53.9	53.3	-
Petromer Trend	na	na	na	na	na	na
Conoco	29.7	29.7	29.8	29.4	29.1	-
Maxus SES	92.2	92.1	92.3	91.3	90.3	-
Asamera North, South	3.0	3.0	3.0	3.0	2.9	-
Tesoro	na	na	-	-	-	-
Marathon	18.4	18.4	18.4	18.2	18.0	-
CSR	na	na	na	na	na	na
Hufco	na	na	na	na	na	na
Kodeco Energy	2.9	2.9	2.9	2.9	2.8	-
Vico	50.9	50.8	50.9	50.4	49.8	-
PTSI	7.4	7.4	7.4	7.3	7.3	-
Lasmo	5.1	5.1	5.1	5.1	5.0	-
PT Stanvac (Rimau)	na	na	na	na	na	na
Others	133.4	133.2	133.6	132.1	130.6	-
Total	1,328.4	1,326.7	1,330.4	1,315.4	1,207.1	-8.2

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.*

IR Iran

	1995	1996	1997	1998	1999*	% change 99/98
NIOC	3,595.0	3,596.0	3,603.4	3,714.0	3,439.0	-7.4
Total	3,595.0	3,596.0	3,603.4	3,714.0	3,439.0	-7.4

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

Crude oil production by companies in OPEC Members 1995-99
(1,000 b/d)

Iraq

	1995	1996	1997	1998	1999*	% change 99/98
INOC	736.9	740.4	1,383.9	2,181.1	2,719.8	24.7
Total	736.9	740.4	1,383.9	2,181.1	2,719.8	24.7

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

Kuwait

	1995	1996*	1997*	1998*	1999*	% change 99/98
KOC	1,812.9	1,812.0	1,813.4	1,853.5	1,692.0	-
AOC	193.7	193.6	193.7	198.0	180.7	-
Total	2,006.6	2,005.6	2,007.1	2,051.5	1,872.7	-8.7

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

SP Libyan AJ

	1995	1996	1997	1998	1999*	% change 99/98
Ageco	na	na	na	na	na	na
Oasis/NOC	na	na	na	na	na	na
Occidental/OMV/NOC	na	na	na	na	na	na
Agip/NOC	na	na	na	na	na	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	na	na
Aquitaine/NOC	na	na	na	na	na	na
Wintershall	na	na	na	na	na	na
NOC	na	na	na	na	na	na
Total	1,399.0	1,394.0	1,395.8	1,449.0	1,287.2	-10.9

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; OAPEC Bulletin; secondary sources; Secretariat's estimates.

Nigeria

	1995	1996	1997*	1998*	1999*	% change 99/98
Shell/NNPC	849.7	859.1	865.4	894.3	894.5	-
Chevron/NNPC	366.2	370.2	372.9	385.4	385.5	-
Mobil/NNPC	272.9	276.0	278.0	287.2	287.3	-
Agip/NNPC	141.9	143.4	144.5	149.3	149.3	-
Elf/NNPC	120.9	122.3	123.2	127.3	127.3	-
Texaco/NNPC	51.6	52.2	52.6	54.4	54.4	-
Pan Ocean	3.3	3.3	3.3	3.4	3.4	-
Tenneco	na	na	na	na	na	-
Phillips	na	na	na	na	na	-
Others	18.4	18.6	18.7	19.4	19.4	-
Production sharing	na	na	na	na	na	-
Ashland	17.7	17.9	18.0	18.6	18.6	-
Total	1,842.6	1,863.1	1,876.7	1,939.0	1,939.8	-

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 1995-99
(1,000 b/d)

Qatar

	1995	1996	1997*	1998*	1999*	% change 99/98
OGPC						
Offshore	261.7	263.9	271.9	416.7	408.5	-
Onshore	128.1	129.2	133.1	201.4	200.0	-
Total	389.8	393.1	405.0	618.1	608.5	-0.7

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

Saudi Arabia

	1995	1996	1997	1998	1999*	% change 99/98
Aramco	na	na	na	na	na	na
AOC	195.0	na	na	198.0	na	na
Getty Oil Company	na	na	na	na	na	na
Total	8,023.4	8,102.3	8,011.7	8,280.2	7,564.7	-8.6

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; Saudi Aramco, Annual Report; Saudi Arabian Monetary Agency; MEES; AOG.

United Arab Emirates

	1995	1996	1997*	1998*	1999*	% change 99/98
Abu Dhabi						
ADCO	1,002.5	1,008.7	1,008.4	1,047.3	956.2	-
ADMA	456.7	459.6	459.4	477.2	435.6	-
Total	28.9	29.1	29.0	30.2	27.5	-
ADOC	22.7	22.8	22.8	23.7	21.7	-
Amerada Hess	10.0	10.1	10.1	10.4	9.5	-
Zadco	317.2	319.2	319.1	331.4	302.6	-
Dubai						
DPC	303.3	305.2	305.1	316.9	289.3	-
Sharjah						
Buttes	6.7	6.7	6.7	7.0	6.4	-
Total	2,148.0	2,161.3	2,160.7	2,244.1	2,048.8	-8.7

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

	1995	1996	1997*	1998*	1999*	% change 99/98
Lagoven	937.8	938.8	950.6	1,230.1	-	-
Maraven	783.9	784.7	794.6	1,028.3	-	-
Meneven	-	-	-	-	-	-
Corpoven	656.8	657.5	665.8	861.6	-	-
Total	2,378.5	2,381.0	2,411.0	3,120.0	2,800.4	-12.3

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

Parent companies' percentage equity in companies holding producing rights
in OPEC Members, 1999

	BP Amoco ¹	TotalFinaElf ²	Exxon ³	Mobil ³	Shell	Chevron	Texaco	Gov't 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	-	-	-	-	-	-	-	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, 1999

	BP Amoco ¹	TotalFinaElf ²	Exxon ³	Mobil ³	Shell	Chevron	Texaco	Gov't or NOC	Others
Nigeria								60.00	10.00
Shell/NNPC	-	-	-	-	30.00	-	-		
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.

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

Parent companies' estimated gross share of crude oil production
in OPEC Members, 1995-99
(1,000 b/d)

	1995	1996	1997	1998	1999
Algeria	752	806	846	827	750
Total Algérie ¹	5	8	8	8	7
Government or NOC	747	774	814	771	699
Others	-	24	24	49	44
Indonesia ²	1,328	1,327	1,330	1,315	1,207
Total Indonésie ¹	78	78	78	77	71
Exxon ²	20	20	20	20	18
Mobil ²	63	63	63	62	57
Chevron	308	308	309	305	280
Texaco	308	308	309	305	280
Government or NOC	65	65	65	64	59
Others	486	485	486	481	441
IR Iran	3,595	3,596	3,603	3,714	3,439
Government or NOC	3,595	3,596	3,603	3,714	3,439
Others	-	-	-	-	-
Iraq	737	740	1,384	2,181	2,720
Government or NOC	737	740	1,384	2,181	2,720
Others	-	-	-	-	-
Kuwait	2,007	2,006	2,007	2,052	1,873
Government or NOC	1,813	1,812	1,813	1,853	1,692
Others	194	194	194	198	181
SP Libyan AJ	1,399	1,394	1,396	1,449	1,287
Government or NOC	1,042	1,038	1,039	1,079	958
Others	357	356	357	370	329
Nigeria	1,843	1,863	1,877	1,939	1,940
TotalFinaElf ¹	48	49	49	51	51
Mobil ²	109	110	111	115	115
Shell	255	258	260	269	269
Chevron	156	158	159	164	165
Texaco	10	10	10	10	10
Government or NOC	1,106	1,118	1,126	1,164	1,164
Others	159	160	161	167	167
Qatar	390	393	405	618	609
Government or NOC	390	393	405	618	609
Others	-	-	-	-	-
Saudi Arabia	8,023	8,102	8,012	8,280	7,565
Government or NOC	7,863	7,940	7,852	8,082	7,384
Others	160	162	160	198	181
United Arab Emirates	2,148	2,161	2,161	2,244	2,049
BP Amoco ³	162	163	163	169	155
TotalFinaElf ¹	175	176	176	183	167
Exxon ²	75	75	75	78	71
Mobil ²	75	75	75	78	71
Shell	95	96	96	100	91
Government or NOC	1,155	1,163	1,163	1,210	1,211
Others	411	413	413	430	430
Venezuela	2,378	2,381	2,411	3,120	2,800
Government or NOC	2,378	2,381	2,411	3,120	2,800
Others	-	-	-	-	-

Parent companies' estimated gross share of crude oil production
in OPEC Members, 1995-99
(1,000 b/d)

	1995	1996	1997	1998	1999
OPEC	24,600	24,769	25,432	27,740	26,239
Amoco ³	162	163	163	169	155
TotalFinaElf ¹	306	311	312	319	296
Exxon ²	95	95	95	98	89
Mobil ²	247	248	249	255	243
Shell	350	354	356	368	360
Chevron	464	466	468	470	445
Texaco	318	318	319	316	291
Government or NOC	20,890	21,020	21,675	23,856	22,735
Others	1,767	1,794	1,795	1,892	1,773

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.

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

Refinery capacity in OPEC Members by location, 1995-99
(1,000 b/d)

	Location	1995	1996	1997	1998	1999
Algeria		462.2	462.2	462.2	462.2	462.2
Sonatrach	Skikda	323.4	323.4	323.4	323.4	323.4
	Arzew	53.9	53.9	53.9	53.9	53.9
	El Harrach	58.2	58.2	58.2	58.2	58.2
	Hassi Messaoud	26.7	26.7	26.7	26.7	26.7
	In Amenas	-	-	-	-	-
Indonesia		891.2	891.2	891.2	929.7	929.7
Pertamina	Musi ¹	119.3	119.3	119.3	109.1	109.1
	Balongan	112.5	112.5	112.5	125.0	125.0
	Dumai	108.0	108.0	108.0	114.0	114.0
	Cilacap	270.0	270.0	270.0	285.0	285.0
	Balikpapan	228.2	228.2	228.2	240.9	240.9
	Sungai Pakning	45.0	45.0	45.0	47.5	47.5
	Pangkalan Brandan	4.8	4.8	4.8	4.8	4.8
	Wonokromo	na	na	na	na	na
	Cepu	3.4	3.4	3.4	3.4	3.4
IR Iran		1,092.0	1,092.0	1,208.0	1,524.0	1,474.0
NIOC	Abadan	297.0	297.0	297.0	450.0	437.0
	Arak	135.0	135.0	135.0	150.0	150.0
	Tehran	220.0	220.0	220.0	225.0	200.0
	Isfahan	254.0	254.0	254.0	265.0	265.0
	Tabriz	99.0	99.0	99.0	112.0	100.0
	Shiraz	40.0	40.0	40.0	40.0	40.0
	Kermanshah	27.0	27.0	27.0	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
Iraq ²		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 ²		820.0	797.0	874.5	829.6	899.0
KNPC	Mina Al-Ahmadi	412.0	387.0	426.5	409.4	450.0
	Shuaiba	158.0	159.0	193.0	181.5	194.0
	Mina Abdullah	250.0	251.0	255.0	238.7	255.0
SP Libyan AJ		342.0	342.0	342.0	342.0	342.0
NOC	Zawia	108.0	108.0	108.0	108.0	108.0
	Marsa El-Brega	9.0	9.0	9.0	9.0	9.0
	Ras Lanuf	198.0	198.0	198.0	198.0	198.0
	Tobruk	18.0	18.0	18.0	18.0	18.0
	Sarir	9.0	9.0	9.0	9.0	9.0

Refinery capacity in OPEC Members by location, 1995-99
(1,000 b/d)

	Location	1995	1996	1997	1998	1999
Nigeria		424.0	424.0	424.0	424.0	424.0
NNPC	Warri	125.0	125.0	125.0	125.0	125.0
	Kaduna	110.0	110.0	110.0	110.0	110.0
	Port Harcourt	54.0	54.0	54.0	54.0	54.0
	Port Harcourt New	135.0	135.0	135.0	135.0	135.0
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		1,670.0	1,670.0	1,693.0	1,780.0	1,810.0
Saudi Aramco	Ras Tanura	300.0	300.0	300.0	325.0	325.0
	Jeddah	90.0	90.0	88.0	60.0	60.0
	Riyadh	135.0	135.0	140.0	125.0	110.0
Getty	Mina Saud	-	-	-	-	-
AOC	Khafji	30.0	30.0	30.0	30.0	30.0
Saudi Aramco	Yanbu (domestic)	170.0	170.0	190.0	210.0	210.0
Saudi Aramco/Mobil	Yanbu (export)	320.0	320.0	320.0	320.0	365.0
Saudi Aramco/Shell	Jubail	300.0	300.0	300.0	310.0	310.0
Saudi Aramco/Petrola	Rabigh	325.0	325.0	325.0	400.0	400.0
United Arab Emirates		211.0	246.0	291.0	291.0	411.0
ADNOC	Al-Ruwais	126.0	126.0	126.0	126.0	126.0
	Umm Al-Narr	85.0	85.0	85.0	85.0	85.0
Metro Oil	Fujairah	-	35.0	80.0	80.0	80.0
Emirate Oil	Jebel Ali					120.0
Venezuela		1,181.0	1,183.2	1,183.2	1,200.3	1,188.4
Lagoven	Amuay	571.0	571.0	571.0	571.0	571.0
	Caripito	-	-	-	-	-
Maraven	Cardon	300.0	297.0	297.0	297.0	297.0
	San Lorenzo	-	-	-	-	-
Corpoven	Bajo Grande	-	-	-	-	-
	Moron	-	-	-	-	-
	Tucupita	-	-	-	-	-
	Puerto La Cruz/El Chaure	195.0	195.0	195.0	200.2	200.2
	San Roque	5.2	5.2	5.2	5.2	5.2
	El Palito	105.0	115.0	115.0	126.9	115.0
	Barinas	4.8	-	-	-	-
OPEC		7,759.4	7,773.6	8,035.1	8,448.8	8,606.3

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.

2. Pre-Gulf crisis capacity.

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

World refinery capacity by country, 1995-99
(1,000 b/d)

	1995	1996	1997	1998	1999	% change 99/98
North America	17,359.2	17,324.4	17,627.6	17,802.7	18,452.6	3.7
Canada	1,848.5	1,851.8	1,851.8	1,872.7	1,911.7	2.1
USA	15,510.7	15,472.6	15,775.8	15,930.0	16,541.0	3.8
Latin America	7,447.2	7,457.9	7,922.6	7,606.3	7,664.6	0.8
Argentina	661.4	665.0	666.5	652.7	661.8	1.4
Brazil	1,256.1	1,256.1	1,662.3	1,772.3	1,783.3	0.6
Colombia	270.0	248.9	248.9	248.9	248.9	-
Mexico	1,520.0	1,520.0	1,520.0	1,525.0	1,525.0	-
Netherlands Antilles	490.0	490.0	525.0	250.0	320.0	28.0
Trinidad & Tobago	260.0	245.0	245.0	160.0	160.0	-
Venezuela	1,181.0	1,183.2	1,183.2	1,200.3	1,188.4	-1.0
Virgin Islands	545.0	545.0	545.0	545.0	525.0	-3.7
Others	1,263.7	1,304.8	1,326.7	1,252.2	1,252.2	-
Eastern Europe	12,193.9	12,125.4	11,976.2	11,294.4	11,317.3	0.2
Former USSR	10,324.4	10,340.5	10,170.5	9,748.8	9,761.7	0.1
Others	1,869.6	1,784.9	1,805.6	1,545.6	1,555.6	0.6
Western Europe	14,698.9	14,672.2	14,864.4	15,065.0	14,929.2	-0.9
Belgium	609.8	629.8	629.8	714.8	719.0	0.6
France	1,781.6	1,785.6	1,865.2	1,946.9	1,901.9	-2.3
Germany	2,126.4	2,108.3	2,183.7	2,246.0	2,275.3	1.3
Italy	2,284.5	2,261.8	2,453.4	2,446.2	2,340.6	-4.3
Netherlands	1,186.5	1,186.5	1,187.8	1,187.8	1,187.8	-
Spain	1,326.7	1,295.7	1,293.7	1,315.5	1,315.5	-
United Kingdom	1,888.0	1,941.0	1,825.8	1,854.0	1,784.7	-3.7
Others	3,495.4	3,463.6	3,425.1	3,353.7	3,404.4	1.5
Middle East	5,565.1	5,528.3	5,781.0	6,134.5	6,303.9	2.8
IR Iran	1,092.0	1,092.0	1,208.0	1,524.0	1,474.0	-3.3
Iraq	603.0	603.0	603.0	603.0	603.0	-
Kuwait	820.0	797.0	874.5	829.6	899.0	8.4
Qatar	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	1.7
United Arab Emirates	211.0	246.0	291.0	291.0	411.0	41.2
Others	1,106.1	1,057.3	1,048.5	1,043.9	1,043.9	-
Africa	2,795.9	2,833.3	2,888.3	2,944.5	2,982.5	1.3
Algeria	462.2	462.2	462.2	462.2	462.2	-
Egypt	532.2	546.1	546.1	577.8	577.8	-
Gabon	20.0	20.0	17.1	17.1	17.1	-
SP Libyan AJ	342.0	342.0	342.0	342.0	342.0	-
Nigeria	424.0	424.0	424.0	424.0	424.0	-
Others	1,015.5	1,039.0	1,097.0	1,121.5	1,159.4	3.4
Asia and Far East	15,081.8	15,741.8	16,013.3	17,776.7	18,580.6	4.5
China	2,867.0	2,967.0	2,967.0	4,346.8	4,346.8	-
India	1,086.4	1,086.4	1,086.4	1,141.5	1,857.7	62.7
Indonesia	891.2	891.2	891.2	929.7	929.7	-
Japan	4,997.6	4,989.0	4,966.0	5,059.5	4,997.7	-1.2
South Korea	2,130.0	2,211.3	2,450.1	2,450.1	2,450.1	-
Singapore	1,170.0	1,157.0	1,157.0	1,172.0	1,255.0	7.1
Taiwan	542.5	770.0	770.0	770.0	770.0	-
Others	1,397.2	1,670.0	1,725.6	1,907.1	1,973.6	3.5
Oceania	823.9	862.5	853.3	905.1	910.4	0.6
Australia	732.7	771.3	762.1	807.1	812.4	0.7
Others	91.2	91.2	91.2	98.0	98.0	-
Total world	75,965.9	76,545.7	77,926.8	79,529.3	81,141.3	2.0
OPEC	7,759.4	7,773.6	8,035.1	8,448.8	8,606.3	1.9
OPEC percentage	10.2	10.2	10.3	10.6	10.6	

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; OGI; AOG; national sources; Eastern Bloc Research Ltd, CIS and East European Energy Databook; China Oil, Gas and Petrochemicals.

Output of refined products by type in OPEC Members, 1995-99
(1,000 b/d)

	1995	1996	1997	1998	1999	% change 99/98
Algeria	440.7	429.4	435.6	410.2	430.6	5.0
Gasoline	60.0	55.2	47.1	48.2	54.3	12.6
Kerosene	22.0	24.1	26.1	21.1	28.5	34.6
Distillates	142.4	127.4	135.3	128.5	134.3	4.5
Residuals	100.4	104.0	108.5	98.9	105.7	6.9
Others	115.8	118.8	118.6	113.4	107.8	-5.0
Indonesia	854.3	892.9	887.6	884.2	770.6	-12.8
Gasoline	115.3	166.7	171.5	na	na	na
Kerosene	155.9	146.6	131.0	na	na	na
Distillates	243.5	251.9	250.9	na	na	na
Residuals	73.9	77.4	78.1	na	na	na
Others	265.6	250.3	256.2	na	na	na
IR Iran	942.0	957.0	974.4	1,337.8	1,361.2	1.7
Gasoline	149.1	151.5	154.2	179.7	189.0	na
Kerosene	124.5	129.2	131.6	157.4	162.4	na
Distillates	287.2	291.6	296.9	357.8	369.7	na
Residuals	255.8	259.2	263.9	402.6	410.4	na
Others	125.5	125.4	127.7	240.4	229.7	na
Iraq	447.8 ^r	438.3 ^r	449.0 ^r	463.7 ^r	447.3	-3.5
Gasoline	69.9 ^r	68.4 ^r	70.1 ^r	na	na	na
Kerosene	33.2 ^r	32.5 ^r	33.3 ^r	na	na	na
Distillates	138.0	135.1 ^r	138.3 ^r	na	na	na
Residuals	139.7 ^r	136.8 ^r	140.1 ^r	na	na	na
Others	67.1 ^r	65.6 ^r	67.2 ^r	na	na	na
Kuwait	821.7	787.7	879.6	876.1	903.3	3.1
Gasoline	44.3	45.5	42.6	48.3	46.0	-4.9
Kerosene	135.6	133.4	140.8	141.3	156.2	10.5
Distillates	243.6	224.3	259.7	251.6	266.1	5.8
Residuals	183.4	174.4	210.8	196.1	201.6	2.8
Others	214.8	210.0	225.7	238.7	233.4	-2.2
SP Libyan AJ	300.4 ^r	304.7 ^r	307.6 ^r	248.2 ^r	242.6	-2.3
Gasoline	45.2 ^r	45.8 ^r	46.1 ^r	na	na	na
Kerosene	35.9 ^r	36.4 ^r	36.9 ^r	na	na	na
Distillates	85.5 ^r	86.7 ^r	87.3 ^r	na	na	na
Residuals	86.3 ^r	87.6 ^r	88.2 ^r	na	na	na
Others	47.5 ^r	48.2 ^r	49.1 ^r	na	na	na
Nigeria	161.3	193.0	192.5	113.6	131.1	15.4
Gasoline	51.1	61.2	61.0	na	na	na
Kerosene	20.1	24.1	24.0	na	na	na
Distillates	41.6	49.8	49.6	na	na	na
Residuals	35.3	42.3	42.2	na	na	na
Others	13.2	15.8	15.7	na	na	na
Qatar	57.8	60.9	55.4	60.1 ^r	59.8	-0.5
Gasoline	13.0	14.2	12.3	13.6	na	na
Kerosene	8.5	10.4	9.4	9.8	na	na
Distillates	15.3	14.0	14.0	14.9	na	na
Residuals	18.3	18.4	16.4	18.3	na	na
Others	2.7	4.0	3.3	3.5	na	na

Output of refined products by type in OPEC Members, 1995-99
(1,000 b/d)

	1995	1996	1997	1998	1999	% change 99/98
Saudi Arabia	1,449.9	1,641.0	1,584.4	1,600.3	1,593.2	-0.4
Gasoline	232.2	258.8	247.1	267.5	272.7	1.9
Kerosene	156.2	175.0	166.7	145.9	166.1	13.9
Distillates	456.9	526.0	525.9	529.7	517.4	-2.3
Residuals	435.8	494.7	453.1	483.5	449.4	-7.0
Others	168.8	186.5	191.6	173.8	187.6	8.0
United Arab Emirates	230.1	234.9	298.4	222.4	232.9	4.7
Gasoline	34.9	34.1	35.2	35.2	34.0	-3.4
Kerosene	58.2	55.7	67.1	57.4	58.1	1.2
Distillates	66.7	66.0	75.6	66.8	72.8	9.1
Residuals	35.6	45.8	48.9	33.7	36.7	9.1
Others	34.7	33.3	71.6	29.3	31.1	6.4
Venezuela	1,201.1	1,335.2	1,327.3	1,332.7 ^f	1,209.3	-9.3
Gasoline	202.6	181.4	186.5	342.8	197.7	-42.3
Kerosene	92.2	85.7	90.9	92.6	96.0	3.7
Distillates	327.6	390.5	392.9	402.0	354.6	-11.8
Residuals	250.6	243.2	226.0	240.0	211.1	-12.1
Others	328.1	434.3	431.0	255.3	349.8	37.0
OPEC	6,907.0 ^f	7,275.0 ^f	7,391.8 ^f	7,549.2 ^f	7,381.9	-2.2
Gasoline	1,017.6 ^f	1,082.8 ^f	1,073.7 ^f	na	na	na
Kerosene	842.3 ^f	853.1 ^f	857.7 ^f	na	na	na
Distillates	2,048.2 ^f	2,163.3 ^f	2,226.4 ^f	na	na	na
Residuals	1,615.1 ^f	1,683.7 ^f	1,676.2 ^f	na	na	na
Others	1,383.8 ^f	1,492.1 ^f	1,557.9 ^f	na	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; OIAPEC Report; OECD, Energy Statistics and Balances of non-OECD Countries.

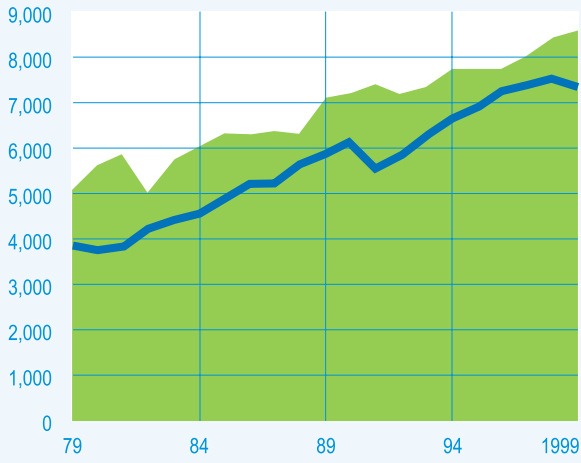
World output of refined products by country, 1995-99
(1,000 b/d)

	1995	1996	1997	1998	1999	% change 99/98
North America	17,833.2	18,355.2	18,858.6	19,147.1	19,216.1	0.4
Canada	1,766.0	1,865.1	1,895.8	1,908.9	1,961.6	2.8
United States	16,067.2	16,490.0	16,962.8	17,238.2	17,254.4	0.1
Latin America	6,078.4	6,239.5	6,211.8	6,344.2	6,366.2	0.3
Argentina	450.0	496.2	511.0	520.1	515.9	-0.8
Brazil	1,285.0	1,309.2	1,354.7	1,411.2	1,528.4	8.3
Mexico	1,401.2	1,400.5	1,368.0	1,370.6	1,312.7	-4.2
Venezuela	1,201.1	1,335.2	1,327.3	1,332.7	1,209.3	-9.3
Virgin Islands	221.2	221.8	227.5	233.7	233.9	0.1
Others	1,520.0	1,476.7	1,423.3	1,476.0	1,566.0	6.1
Eastern Europe	6,014.0	5,813.8	5,798.5	5,699.4	5,689.7	-0.2
Bulgaria	151.3	140.2	121.9	108.7	108.3	-0.4
Romania	304.5	277.6	259.5	258.0	218.3	-15.4
Former USSR	4,882.4	4,681.4	4,695.3	4,586.3	4,621.2	0.8
Others	675.8	714.6	721.9	746.3	741.9	-0.6
Western Europe	14,241.7	14,590.2	14,885.9	15,262.5	14,558.3	-4.6
Belgium	599.5	726.3	756.7	784.6	741.2	-5.5
France	1,731.1	1,783.1	1,889.0	1,953.5	1,754.0	-10.2
Germany	2,429.6	2,449.8	2,356.4	2,484.6	2,447.3	-1.5
Italy	1,840.2	1,830.1	1,946.8	2,026.8	1,936.3	-4.5
Netherlands	1,704.5	1,733.5	1,729.9	1,733.1	1,661.3	-4.1
Norway	282.2	308.4	324.9	312.3	326.2	4.5
Portugal	284.0	260.4	276.2	296.3	283.9	-4.2
Spain	1,159.0	1,114.8	1,178.7	1,266.2	1,250.3	-1.3
United Kingdom	1,964.1	2,045.4	2,052.6	1,980.1	1,862.2	-6.0
Others	2,247.6	2,338.5	2,374.6	2,425.0	2,295.6	-5.3
Middle East	4,881.5	5,026.4	5,185.7	5,497.7	5,542.5	0.8
IR Iran	942.0	957.0	974.4	1,337.8	1,361.2	1.7
Iraq	447.8	438.3	449.0	463.7	447.3	-3.5
Kuwait	821.7	787.7	879.6	876.1	903.3	3.1
Qatar	57.8	60.9	55.4	60.1	59.8	-0.5
Saudi Arabia	1,449.9	1,641.0	1,584.4	1,600.3	1,593.2	-0.4
United Arab Emirates	230.1	234.9	298.4	222.4	232.9	4.7
Others	932.2	906.6	944.5	937.4	944.7	0.8
Africa	2,267.5	2,332.7	2,344.1	2,185.6	2,270.3	3.9
Algeria	440.7	429.4	435.6	410.2	430.6	5.0
Egypt	535.3	553.8	559.9	540.1	547.6	1.4
Gabon	17.8	19.4	19.7	19.4	19.8	2.0
SP Libyan AJ	300.4	304.7	307.6	248.2	242.6	-2.3
Nigeria	161.3	193.0	192.5	113.6	131.1	15.4
Others	812.0	832.4	828.7	854.1	898.6	5.2
Asia and Far East	13,808.1	14,654.2	15,473.0	15,269.1	15,499.4	1.5
China	2,548.3	2,753.5	2,838.2	2,962.4	3,143.1	6.1
India	1,205.0	1,300.6	1,363.4	1,355.1	1,388.6	2.5
Indonesia	854.3	892.9	887.6	884.2	770.6	-12.8
Japan	4,403.2	4,381.5	4,513.8	4,446.3	4,377.1	-1.6
Philippines	313.0	356.0	361.9	351.0	349.6	-0.4
Singapore	1,007.6	1,049.8	998.7	970.7	981.4	1.1
South Korea	1,796.6	2,012.5	2,494.2	2,355.2	2,481.1	5.3
Taiwan	643.7	677.0	700.8	679.8	695.4	2.3
Others	1,036.5	1,230.5	1,314.4	1,264.4	1,312.5	3.8
Oceania	851.8	864.0	900.0	886.4	915.1	3.2
Australia	751.2	766.9	794.8	776.8	807.5	4.0
New Zealand	100.6	97.1	105.2	109.7	107.7	-1.8
Total world	65,976.1	67,876.0	69,657.6	70,292.0	70,057.6	-0.3
OPEC	6,907.0	7,275.0	7,391.8	7,549.2	7,381.9	-2.2
OPEC percentage	10.5	10.7	10.6	10.7	10.5	

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.

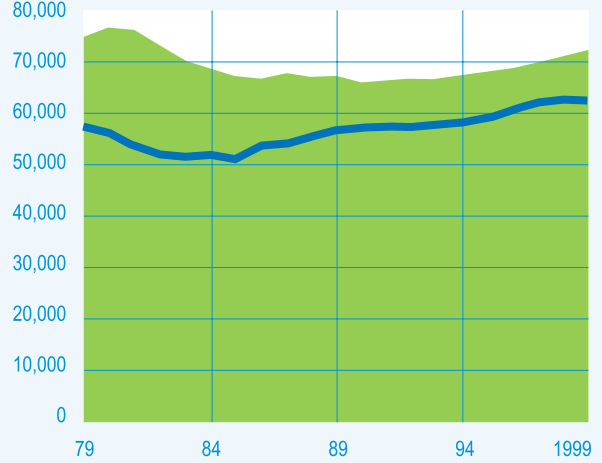
Output of refined products vs refinery capacity, 1979–99
(1,000 b/d)

Graph 28:
OPEC



capacity 
production 

Graph 29:
non-OPEC



capacity 
production 

Consumption of refined products by type in OPEC Members, 1995-99
(1,000 b/d)

	1995	1996	1997	1998	1999	% change 99/98
Algeria	172.7	168.7	163.6	171.2	175.8	2.7
Gasoline	48.9	47.8	46.0	45.6	43.1	-5.4
Kerosene	7.0	6.8	7.4	7.2	7.0	-1.6
Distillates	63.7	61.2	61.9	67.4	70.2	4.1
Residuals	0.5	0.4	0.3	0.3	0.3	-16.1
Others	52.6	52.6	48.0	50.7	55.1	8.8
Indonesia	774.7	865.4	946.9	896.7 ^r	846.5 [*]	-5.6
Gasoline	158.3	171.3	181.3	169.4	165.3	-2.4
Kerosene	177.2	199.0	217.4	204.1	193.8	-5.0
Distillates	319.6	358.4	395.1	380.1	353.1	-7.1
Residuals	62.8	77.5	91.3	86.3	77.3	-10.5
Others	56.8	59.1	61.8	56.8	57.0	0.4
IR Iran	945.0	984.1	981.6	1,318.0 ^r	1,192.2	-9.5
Gasoline	152.2	157.5	186.0	260.3	213.1	-18.1
Kerosene	125.6	130.4	154.7	210.6	175.2	-16.8
Distillates	358.8	375.2	342.4	430.9	425.0	-1.4
Residuals	223.6	232.3	194.5	253.5	254.8	0.5
Others	84.8	88.6	104.0	162.7	124.1	-23.7
Iraq	612.9	594.5	601.4	620.7 ^r	599.6 [*]	-3.4
Gasoline	126.5	121.0	122.2	126.5	122.5	-3.2
Kerosene	67.1	65.0	66.1	68.0	65.7	-3.4
Distillates	178.2	178.3	180.9	185.1	178.3	-3.7
Residuals	128.4	122.8	123.2	128.3	124.1	-3.3
Others	112.7	107.5	109.0	112.7	109.1	-3.3
Kuwait	117.6	114.1	131.8	158.8	163.8	3.2
Gasoline	34.3	36.3	39.6	41.3	39.4	-4.6
Kerosene	8.2	8.6	9.4	11.0	8.8	-20.6
Distillates	9.6	8.9	10.1	10.1	11.4	12.9
Residuals	61.9	57.0	69.1	92.8	100.5	8.4
Others	3.6	3.3	3.7	3.5	3.6	2.8
SP Libyan AJ	174.1	175.3	174.1	195.0 ^r	210.7 [*]	8.0
Gasoline	39.0	39.3	39.1	43.9	47.2	7.7
Kerosene	15.7	17.1	16.2	20.8	20.5	-1.6
Distillates	53.1	52.8	53.1	59.5	64.1	7.7
Residuals	48.3	47.9	47.9	50.6	57.1	12.9
Others	18.0	18.2	17.8	20.4	21.8	7.1
Nigeria	186.1	199.7	206.0	198.6 ^r	184.3 [*]	-7.2
Gasoline	84.9	93.0	93.2	90.0	84.2	-6.5
Kerosene	37.3	42.0	40.8	39.6	37.2	-6.0
Distillates	46.4	42.5	47.3	45.4	42.4	-6.8
Residuals	15.9	20.2	22.6	21.5	18.7	-13.2
Others	1.7	2.0	2.0	2.0	1.8	-9.2
Qatar	17.2	19.3	21.6	23.2	22.2	-4.4
Gasoline	8.5	9.7	10.7	11.5	11.0	-4.3
Kerosene	3.0	3.1	3.5	3.8	3.7	-3.3
Distillates	5.0	5.6	6.4	6.8	6.5	-5.1
Residuals	na	na	na	na	na	na
Others	0.8	0.9	1.0	1.1	1.0	-3.8

Consumption of refined products by type in OPEC Members, 1995-99
(1,000 b/d)

	1995	1996	1997	1998	1999	% change 99/98
Saudi Arabia	751.2	807.4	814.5	865.8	908.4	4.9
Gasoline	235.6	253.1	258.4	271.9	269.8	-0.8
Kerosene	56.8	57.8	57.6	56.8	52.9	-6.8
Distillates	306.7	321.6	336.6	342.4	357.1	4.3
Residuals	98.2	117.0	101.4	132.1	166.2	25.8
Others	53.9	57.9	60.6	62.6	62.3	-0.4
United Arab Emirates	125.5	123.0	115.0	130.0	127.9	-1.6
Gasoline	24.2	33.0	36.0	39.0	34.3	-12.2
Kerosene	2.5	2.5	2.3	2.6	2.6	-0.8
Distillates	58.3	50.0	38.0	52.0	51.4	-1.1
Residuals	38.3	27.5	27.7	27.5	31.4	14.2
Others	2.3	10.0	11.0	9.0	8.4	-7.0
Venezuela	416.6	403.5	411.1	441.7 ^r	383.2	-13.2
Gasoline	198.2	185.3	187.7	194.6	199.5	2.5
Kerosene	11.0	10.7	11.2	7.1	6.7	-5.8
Distillates	76.4	75.1	76.0	80.2	73.6	-8.2
Residuals	13.4	10.5	13.9	21.5	21.9	1.5
Others	117.6	121.9	122.4	138.3	81.6	-41.0
OPEC	4,293.7	4,455.0	4,567.7	5,019.6	4,814.4	-4.1
Gasoline	1,110.5	1,147.1	1,200.3	1,294.0	1,229.4	-5.0
Kerosene	511.3	543.1	586.7	631.6	574.1	-9.1
Distillates	1,475.7	1,529.6	1,547.6	1,659.9	1,633.0	-1.6
Residuals	691.2	713.3	691.9	814.5	852.1	4.6
Others	505.0	522.0	541.3	619.7	525.8	-15.2

World consumption of refined products by country, 1995-99
(1,000 b/d)

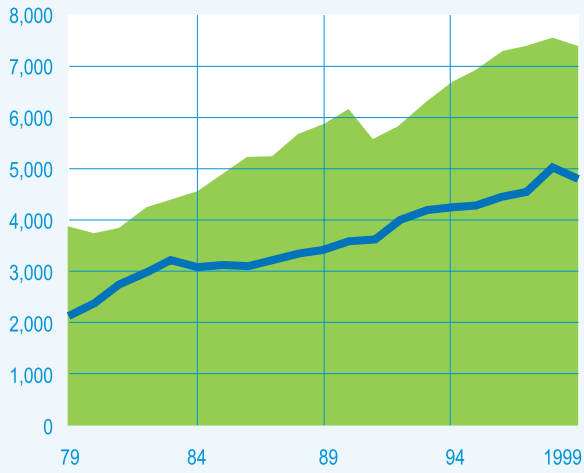
	1995	1996	1997	1998	1999	% change 99/98
North America	18,447.0	18,990.6	19,370.6	19,736.9	20,312.2	2.9
Canada	1,716.2	1,760.2	1,841.5	1,871.2	1,914.5	2.3
United States	16,730.8	17,230.5	17,529.1	17,865.7	18,397.7	3.0
Others	2.5	2.5	2.5	2.5	2.5	-
Latin America	5,587.1	5,799.8	6,017.2	6,262.9	6,305.5	0.7
Argentina	433.4	446.8	452.1	459.7 ^r	456.2	-0.8
Brazil	1,587.6	1,675.6	1,776.1	1,857.2 ^r	1,876.9	1.1
Colombia	250.6	256.1	263.1	262.1 ^r	249.0	-5.0
Ecuador	108.8	116.5	119.2	121.4 ^r	122.3	0.7
Mexico	1,801.7	1,885.6	1,947.1	1,977.9	2,028.6	2.6
Venezuela	416.6	403.5	411.1	441.7 ^r	383.2	-13.2
Others	988.3	1,015.7	1,048.6	1,142.8	1,189.2	4.1
Eastern Europe	5,695.4	5,337.5	5,468.1	5,327.6	5,138.2	-3.6
Former Czechoslovakia	235.6	244.5	239.7	247.2 ^r	260.4	5.3
Romania	276.0	240.9	247.0	228.3 ^r	224.9	-1.5
Former USSR	4,575.3	4,244.8	4,343.7	4,199.8	3,995.3	-4.9
Others	608.5	607.3	637.7	652.3	657.6	0.8
Western Europe	12,991.0	13,341.3	13,385.5	13,671.2	13,579.7	-0.7
France	1,821.9	1,890.5	1,899.7	1,957.7	1,974.5	0.9
Germany	2,785.9	2,840.6	2,827.8	2,833.7	2,746.1	-3.1
Italy	1,743.1	1,728.2	1,735.8	1,732.0	1,644.2	-5.1
Netherlands	450.5	431.8	453.0	447.7	465.0	3.9
Spain	1,097.0	1,087.5	1,129.9	1,219.4	1,265.2	3.8
United Kingdom	1,732.0	1,767.5	1,706.9	1,701.6	1,679.6	-1.3
Others	3,360.6	3,595.3	3,632.4	3,779.1	3,805.2	0.7
Middle East	3,278.4	3,364.5	3,397.8	3,841.9	3,769.2	-1.9
IR Iran	945.0	984.1	981.6	1,318.0 ^r	1,192.2	-9.5
Iraq	612.9	594.5	601.4	620.7 ^r	599.6 [*]	-3.4
Kuwait	117.6	114.1	131.8	158.8	163.8	3.2
Qatar	17.2	19.3	21.6	23.2	22.2	-4.4
Saudi Arabia	751.2	807.4	814.5	865.8	908.4	4.9
Syrian Arab Republic	230.9	239.1	247.7	255.4 ^r	263.1 [*]	3.0
United Arab Emirates	125.5	123.0	115.0	130.0	127.9	-1.6
Others	478.0	483.0	484.1	470.0 ^r	492.0 [*]	4.7
Africa	1,897.9	1,918.6	1,979.3	2,038.4	2,029.0	-0.5
Algeria	172.7	168.7	163.6	171.2	175.8	2.7
Egypt	400.1	408.2	422.7	454.5 ^r	456.8	0.5
SP Libyan AJ	174.1	175.3	174.1	195.0 ^r	210.7 [*]	8.0
Nigeria	186.1	199.7	206.0	198.6 ^r	184.3 [*]	-7.2
Tunisia	64.3	66.1	66.8	68.3	69.7	2.0
Others	900.7	900.7	946.1	950.9	931.8	-2.0
Asia and Far East	15,630.0	16,568.8	17,381.6	16,616.8	17,287.0	4.0
China	3,218.2	3,539.0	3,963.5	3,839.0 ^r	4,169.5	8.6
India	1,551.8	1,696.2	1,777.5	1,851.7 ^r	2,006.0	8.3
Indonesia	774.7	865.4	946.9	896.7 ^r	846.5 [*]	-5.6
Japan	5,278.5	5,377.2	5,353.0	5,216.8	5,278.4	1.2
South Korea	1,974.4	2,056.8	2,188.0	1,832.3	1,966.8	7.3
Thailand	611.4	689.3	702.4	630.3	629.8	-0.1
Others	2,221.0	2,345.0	2,450.3	2,350.0	2,390.0	1.7
Oceania	772.4	802.5	800.8	795.5	790.8	-0.6
Australia	604.5	633.0	627.4	623.5	619.7	-0.6
New Zealand	115.7	117.0	121.9	120.9	121.1	0.2
Others	52.3	52.5	51.5	51.0	50.0	-2.0
Total world	64,299.2	66,123.7	67,801.0	68,291.1	69,211.6	1.3
OPEC	4,293.7	4,455.0	4,567.7	5,019.6	4,814.4	-4.1
OPEC percentage	6.7	6.7	6.7	7.4	7.0	

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; OAPEEC Report; OLADE data bank.

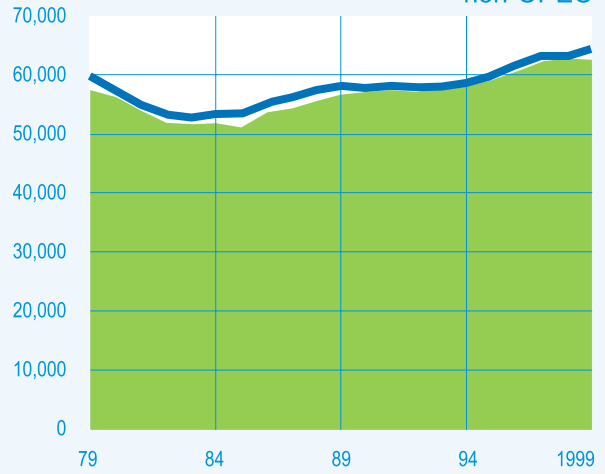
Production and consumption of refined products, 1979–99
(1,000 b/d)

Graph 30:
OPEC



production ■
consumption —

Graph 31:
non-OPEC



production ■
consumption —

OPEC Members' crude oil exports by destination, 1995-99
(1,000 b/d)

Algeria

	1995	1996	1997	1998	1999
North America	42.6	63.8	59.7	204.8	79.0
Canada	41.0	63.8	59.7	66.7	64.3
United States	1.6	-	-	138.0	14.7
Latin America	3.7	2.7	4.1	3.4	14.6
Eastern Europe	9.9	10.3	4.6	11.2	3.8
Western Europe	273.4	310.6	301.3	326.8	315.4
Belgium	-	-	-	-	-
France	94.7	78.2	101.6	103.8	82.8
Germany	25.8	45.1	-	36.0	31.5
Italy	77.4	94.5	84.7	102.0	117.1
Netherlands	1.9	-	2.9	8.7	8.5
Spain	13.1	18.6	23.8	31.1	36.6
United Kingdom	10.1	20.7	8.0	14.0	24.3
Middle East	-	-	-	-	-
Africa	3.2	3.4	3.4	3.3	1.7
Asia and Far East	-	-	-	-	-
Oceania	-	-	-	-	-
Unspecified	-	-	-	-	-
OECD	313.8	374.4	356.3	528.7	394.4
Total world	332.8	390.8	373.1	549.4	414.6

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

Indonesia

	1995	1996	1997	1998	1999
North America	69.0	57.3	58.3	68.1	65.4
United States	69.0	57.3	58.3	68.1	65.4
Latin America	-	-	-	-	-
Eastern Europe	-	-	-	-	-
Western Europe	-	-	-	-	-
Italy	-	-	-	-	-
Middle East	-	-	-	0.6	-
Africa	-	-	-	-	-
Asia and Far East	610.6	566.0	567.0	465.6	527.8
China	116.3	137.3	138.3	77.6	93.9
Japan	358.5	288.1	289.1	219.8	241.6
Philippines	6.6	4.1	5.1	2.8	3.0
South Korea	52.1	73.8	74.8	87.9	115.7
Singapore	25.1	23.4	24.4	42.4	34.5
Taiwan	43.7	21.9	22.9	27.8	31.8
Oceania	64.3	83.4	84.4	143.7	128.2
Australia	54.2	78.4	79.4	141.6	125.9
Unspecified	-	-	-	-	-
OECD	491.8	371.5	372.5	519.5	551.0
Total world	743.9	706.7	709.7	678.0	721.5

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, 1995-99
(1,000 b/d)

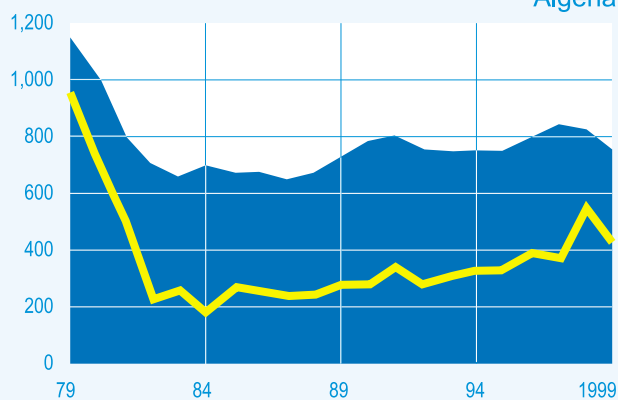
IR Iran

	1995	1996	1997	1998	1999*
North America	1.7	39.5	32.5	-	-
Canada	1.7	39.5	32.5	-	-
United States	-	-	-	-	-
Latin America	40.0	60.0	35.0	50.0	50.0
Eastern Europe	175.0	155.0	145.0	120.0	100.0
Western Europe	1,250.0	1,145.5	1,065.0	1,033.9	949.2
France	208.9	171.5	128.6	159.3	137.1
Germany	31.6	18.2	23.5	19.9	16.2
Italy	228.6	264.8	259.9	292.9	286.4
Netherlands	101.4	103.6	89.8	75.5	71.6
United Kingdom	23.4	15.9	-	9.1	-
Middle East	20.0	20.0	25.0	25.0	25.0
Africa	120.0	190.0	200.0	190.0	200.0
Asia and Far East	1,013.1	1,020.0	1,084.5	1,090.5	1,205.0
Japan	380.3	429.6	465.2	460.3	496.6
Oceania	1.2	-	-	2.6	1.7
Australia	-	-	-	-	-
Unspecified	-	-	-	-	-
OECD	1,552.0	1,533.0	1,431.7	1,497.0	1,447.5
Total world	2,621.0	2,630.0	2,587.0	2,512.0	2,531.0

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.

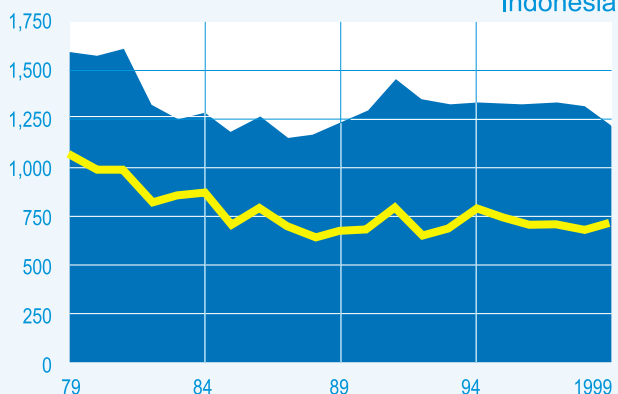
Graph 32:
Algeria



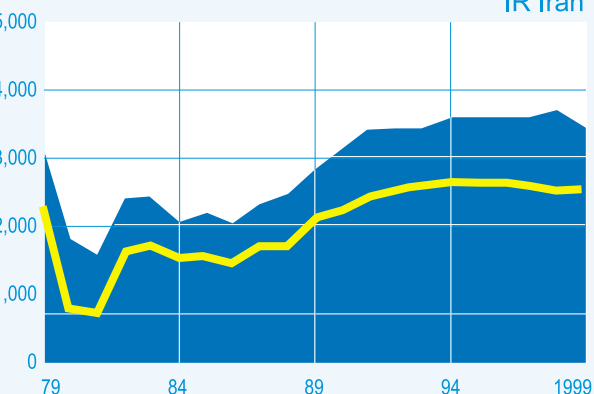
OPEC Members' crude oil production vs exports, 1979-99
(1,000 b/d)

production ■
exports ■

Graph 33:
Indonesia



Graph 34:
IR Iran



OPEC Members' crude oil exports by destination, 1995-99
(1,000 b/d)

Iraq

	1995	1996	1997	1998*	1999*
North America	-	1.2	105.1	358.3	765.2
United States	-	1.2	91.7	345.2	736.0
Latin America	-	-	-	-	-
Eastern Europe	-	8.6	81.3	110.0	70.0
Western Europe	-	11.0	341.0	739.0	831.7
France	-	1.9	77.2	168.4	146.2
Germany	-	-	0.7	19.3	16.7
Italy	-	0.8	34.9	113.6	137.0
Netherlands	-	-	22.5	108.2	162.4
Spain	-	2.4	73.9	130.4	123.5
United Kingdom	-	-	-	-	-
Middle East	63.5	64.0	70.0	80.0	80.0
Africa	-	-	27.5	50.0	50.0
Asia and Far East	-	3.3	95.3	210.0	220.0
Japan	-	3.3	15.1	17.2	98.3
Oceania	-	-	1.7	6.8	8.0
Unspecified	-	-	-	-	-
OECD	-	15.5	451.2	1,099.5	1,677.2
Total world	63.5	88.1	721.9	1,554.1	2,024.9

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

Kuwait

	1995	1996	1997	1998	1999
North America	199.3	200.0	223.4	219.5	158.0
United States	199.3	200.0	223.4	219.3	158.0
Latin America	21.8	-	-	-	-
Eastern Europe	-	-	-	-	-
Western Europe	157.1	204.9	155.0	186.0	116.2
France	22.0	16.2	17.5	16.9	15.0
Germany	15.3	16.0	12.3	16.3	14.8
Italy	-	-	0.1	-	2.7
Netherlands	80.1	130.4	90.6	95.2	82.4
Spain	-	-	-	0.3	-
United Kingdom	39.7	32.1	32.0	18.6	-
Middle East	-	-	-	-	-
Africa	84.5	80.7	57.6	53.8	24.8
Asia and Far East	706.2	719.5	684.6	716.6	639.0
Japan	345.1	347.3	401.5	391.9	346.4
Oceania	6.6	8.2	8.2	7.5	8.2
Australia	4.9	5.5	4.2	4.3	1.1
Unspecified	10.9	10.9	5.4	6.8	1.9
OECD	706.4	757.5	784.1	801.7	625.6
Total world	1,186.4	1,224.2	1,134.2	1,190.2	948.2

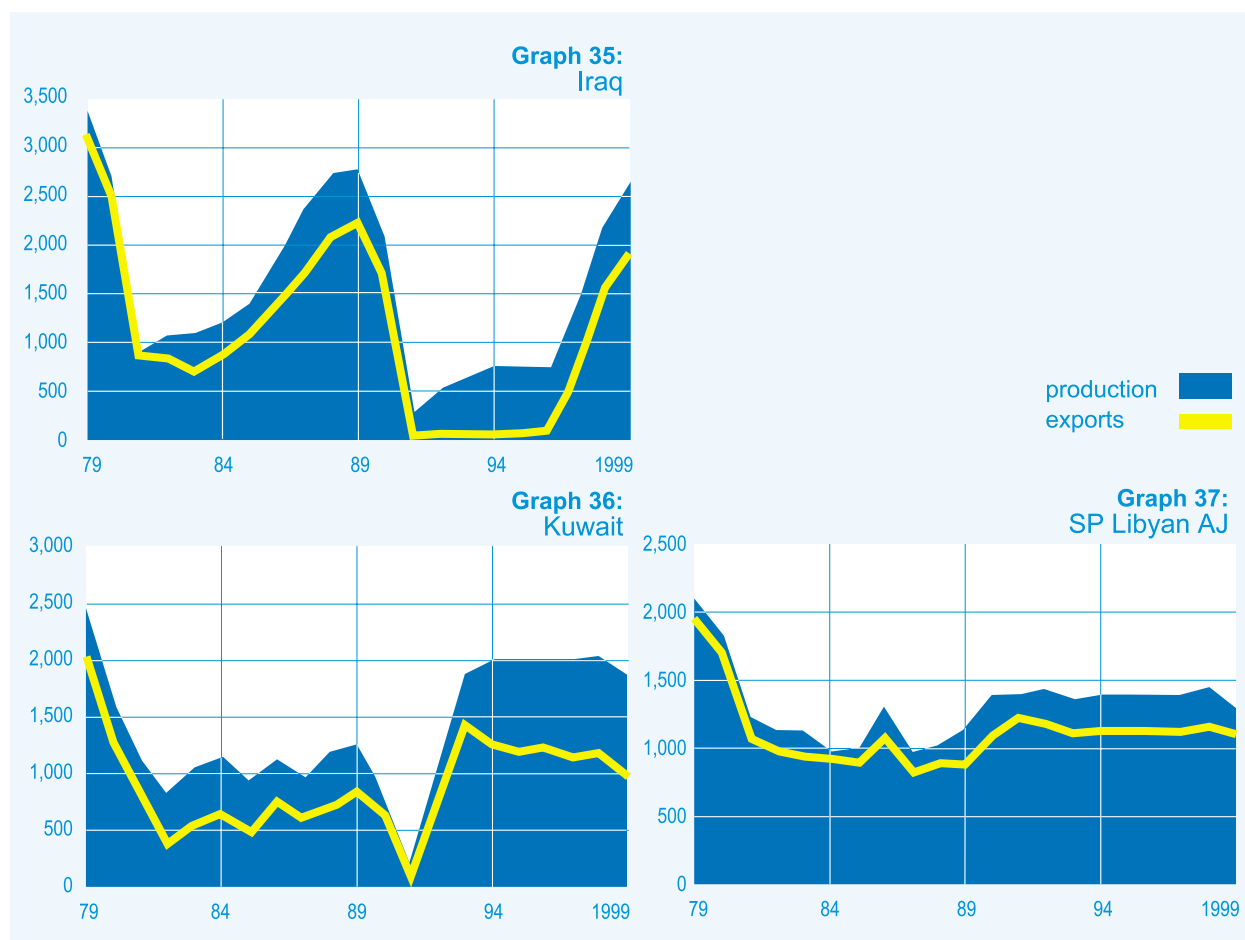
Sources: Direct communications to the Secretariat; UN, Energy Statistics Yearbook; OECD, Monthly Oil Data Statistics; secondary sources; Secretariat's estimates.

OPEC Members' crude oil exports by destination, 1995-99
(1,000 b/d)

SP Libyan AJ

	1995	1996	1997	1998*	1999*
North America	-	-	-	-	-
Latin America	-	-	-	-	-
Eastern Europe	13.0	10.0	3.0	5.0	7.5
Western Europe	1,062.3	1,078.4	1,084.7	1,131.0	1,071.4
Austria	28.1	22.2	23.9	30.6	22.9
Belgium	0.1	-	0.1	1.6	-
France	32.2	35.5	49.9	49.5	46.0
Germany	227.6	241.5	234.6	264.2	281.5
Italy	473.8	521.9	538.4	539.7	438.9
Netherlands	-	-	-	-	-
Spain	140.7	113.9	102.1	130.8	129.8
Switzerland	42.3	40.6	26.4	19.5	37.6
United Kingdom	11.6	4.9	-	-	18.5
Middle East	-	-	-	-	-
Africa	25.0	20.0	20.0	20.0	20.0
Asia and Far East	20.0	15.0	8.0	5.0	5.0
Oceania	-	-	-	-	-
Unspecified	-	-	-	-	-
OECD	1,060.0	1,076.1	1,082.2	1,128.0	1,068.4
Total world	1,120.3	1,123.4	1,115.7	1,161.0	1,103.9

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, 1995-99
(1,000 b/d)

Nigeria

	1995	1996	1997	1998	1999*
North America	725.0	807.2	884.3	861.6	702.6
United States	673.0	777.5	861.8	839.0	677.3
Latin America	90.0	65.0	75.0	80.0	70.0
Eastern Europe	-	-	0.1	1.5	-
Western Europe	550.0	721.5	618.5	498.0	440.4
France	116.3	169.0	91.5	125.5	97.8
Germany	93.3	78.3	99.2	41.9	22.9
Italy	11.5	25.8	48.7	35.9	27.1
Netherlands	52.5	58.7	38.5	7.4	3.1
Sweden	25.7	2.7	5.4	7.4	-
United Kingdom	15.0	32.7	4.4	11.1	9.5
Middle East	-	-	-	-	-
Africa	140.0	90.0	100.0	80.0	80.0
Asia and Far East	160.0	206.6	247.2	184.5	178.4
Japan	15.8	20.3	22.8	12.8	24.3
Oceania	-	7.2	5.9	2.2	5.9
Unspecified	-	-	-	-	-
OECD	1,275.0	1,556.2	1,531.5	1,374.6	1,173.2
Total world	1,665.0	1,897.4	1,930.9	1,707.8	1,477.3

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

Qatar

	1995	1996	1997	1998	1999
North America	-	-	-	1.4	0.9
United States	-	-	-	1.4	0.9
Latin America	0.5	5.0	5.0	-	-
Eastern Europe	-	-	-	-	-
Western Europe	1.5	1.6	-	-	-
France	-	-	-	-	-
Germany	-	-	-	-	-
Italy	1.5	1.6	-	-	-
Netherlands	-	-	-	-	-
Middle East	-	-	-	-	-
Africa	1.5	-	-	-	-
Asia and Far East	318.5	345.0	453.6	538.1	534.1
Japan	295.2	293.4	326.8	349.2	412.2
Thailand	-	-	-	-	-
Oceania	11.0	15.4	6.4	22.9	na
Unspecified	-	-	-	10.0	45.5
OECD	306.7	310.4	333.2	415.1	526.6
Total world	333.0	367.0	465.0	572.4	580.5

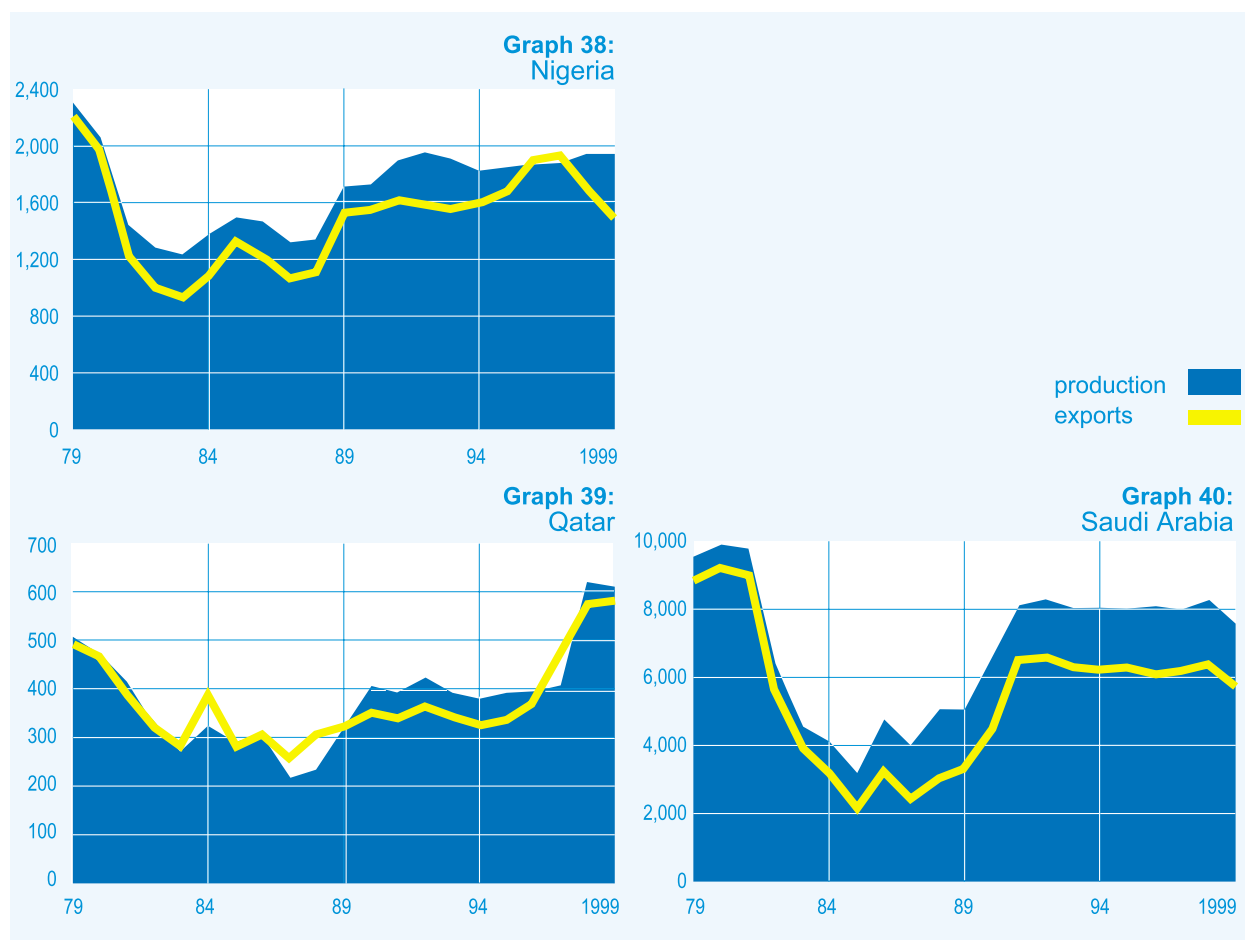
Sources: Direct communications to the Secretariat; UN, Energy Statistics Yearbook; OECD, Monthly Oil Data Statistics; secondary sources; Secretariat's estimates.

OPEC Members' crude oil exports by destination, 1995-99
(1,000 b/d)

Saudi Arabia

	1995	1996	1997	1998	1999
North America	1,380.9	1,340.6	1,339.0	1,491.1	1,463.6
United States	1,314.2	1,298.4	1,305.0	1,412.7	1,398.3
Latin America	146.0	128.8	90.9	86.1	73.8
Eastern Europe	-	-	-	-	-
Western Europe	1,639.4	1,449.8	1,619.5	1,769.1	1,244.7
France	408.3	375.0	388.5	363.2	302.6
Germany	124.3	124.3	116.9	104.4	88.8
Italy	221.7	199.5	285.1	272.2	179.0
Netherlands	285.2	272.1	293.9	290.7	224.5
Spain	172.8	181.0	184.6	190.8	127.9
United Kingdom	73.1	52.3	61.2	65.7	14.5
Middle East	220.7	228.4	212.8	209.6	189.0
Africa	95.8	96.3	105.7	135.9	201.8
Asia and Far East	2,757.0	2,818.3	2,769.4	2,661.2	2,525.4
Japan	986.4	981.5	1,010.5	907.5	792.5
Oceania	51.0	47.1	47.2	37.4	21.4
Unspecified	-	-	-	-	-
OECD	3,057.7	3,819.0	4,016.2	4,205.1	3,522.2
Total world	6,290.8	6,109.3	6,184.5	6,390.4	5,719.7

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

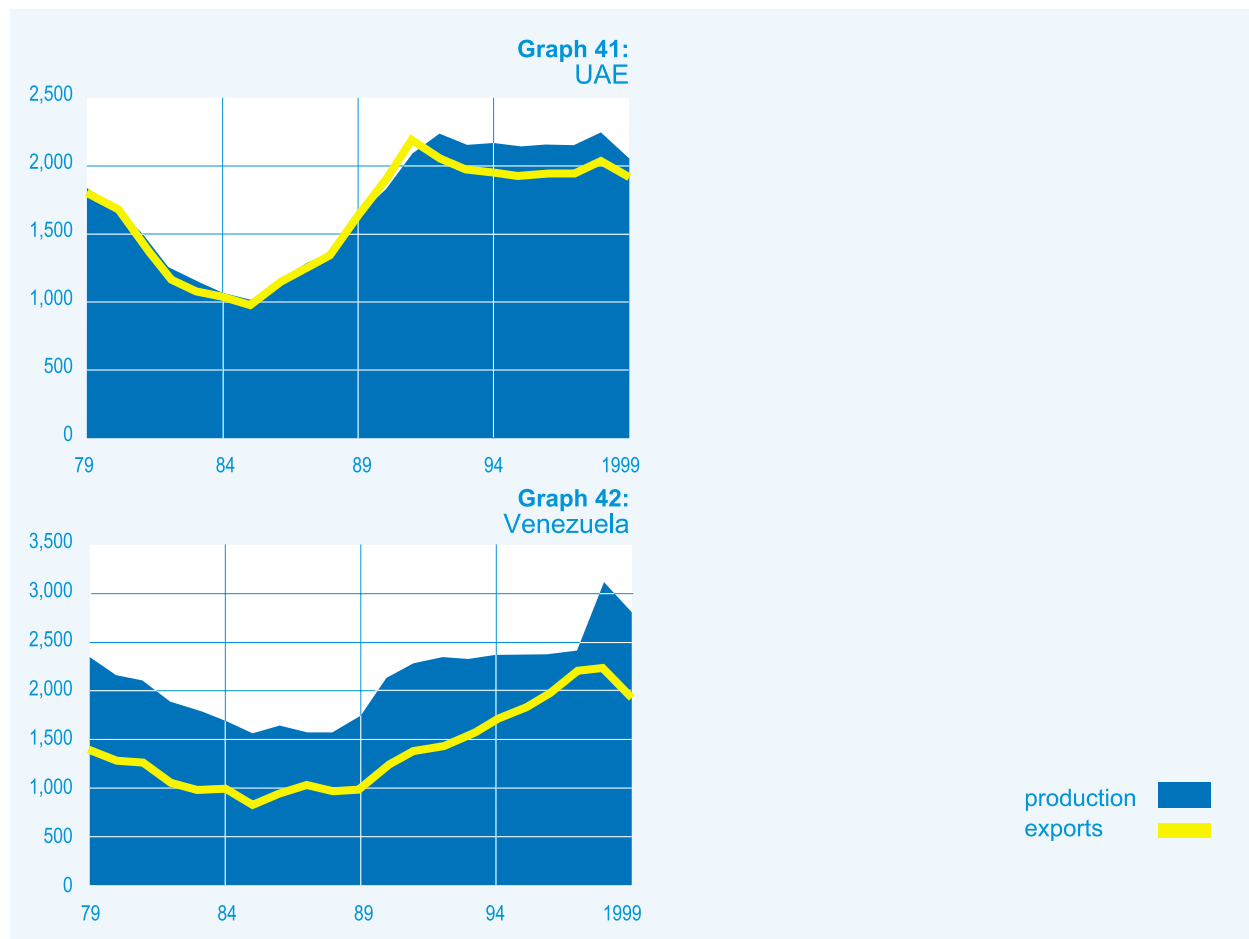


OPEC Members' crude oil exports by destination, 1995-99
(1,000 b/d)

United Arab Emirates

	1995	1996	1997	1998	1999
North America	-	1.4	-	2.5	-
United States	-	1.4	-	2.5	-
Latin America	-	-	-	7.5	-
Eastern Europe	-	-	-	-	-
Western Europe	2.0	0.7	2.0	13.0	1.0
France	-	0.1	-	11.2	-
Germany	-	-	1.0	-	-
Italy	-	-	-	-	-
Netherlands	-	-	1.0	-	-
United Kingdom	-	-	-	1.3	-
Middle East	-	-	-	-	4.0
Africa	36.0	40.9	40.0	57.0	39.0
Asia and Far East	1,828.9	1,843.6	1,846.9	1,924.1	1,848.7
Japan	1,215.0	1,195.1	1,213.4	1,205.0	1,085.0
Oceania	58.1	56.6	60.1	34.9	26.3
Unspecified	-	-	-	-	-
OECD	1,273.0	1,253.8	1,275.5	1,255.4	1,074.4
Total world	1,925.0	1,943.2	1,949.0	2,039.0	1,919.0

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, 1995-99
(1,000 b/d)

Venezuela

	1995	1996	1997	1998	1999
North America	1,258.3	1,214.2	1,557.3	1,558.2	1,223.2
Canada	75.5	51.9	92.8	102.9	86.8
United States	1,182.8	1,162.3	1,464.5	1,455.3	1,136.4
Latin America	373.0	541.8	497.5	532.4	577.6
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	174.4	161.7	152.1	150.3	122.1
France	0.5	-	-	-	-
Germany	80.0	56.3	49.3	49.7	42.0
Italy	14.4	5.9	9.6	2.6	1.3
Netherlands	8.3	8.3	9.1	13.0	17.2
Spain	20.4	18.7	18.9	31.3	24.4
United Kingdom	30.6	26.7	29.2	29.1	25.2
Middle East	-	-	-	-	-
Africa	-	-	-	-	-
Asia and Far East	14.2	13.7	3.9	3.0	-
Japan	1.7	0.5	-	-	-
Oceania	-	-	-	-	-
Unspecified	-	45.0	-	-	-
OECD	1,434.4	1,376.4	1,709.4	1,708.6	1,345.4
Total world	1,819.9	1,976.4	2,210.8	2,243.9	1,923.0

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, 1995-99
(1,000 b/d)

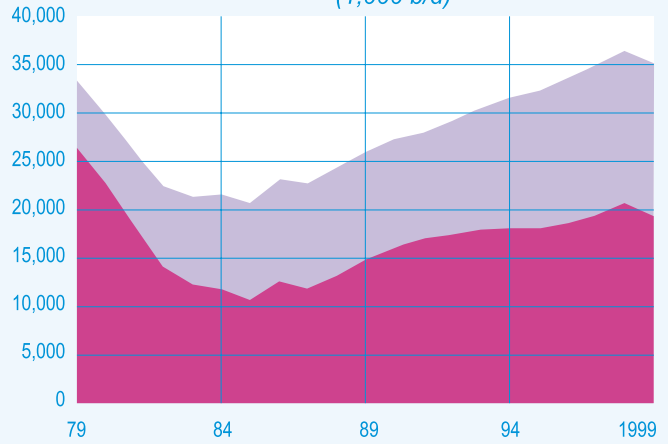
	1995	1996	1997	1998*	1999*	% change 99/98
North America	1,152.5	1,182.3	1,124.0	1,229.2	1,121.9	-8.7
Canada	1,057.6	1,072.0	1,016.0	1,117.0	1,000.9	-10.4
United States	94.9	110.3	108.0	112.2	121.1	7.9
Latin America	4,084.4	4,527.8	5,049.4	5,107.0	4,643.7	-9.1
Colombia	312.5	322.1	360.8	375.7	408.6	8.8
Ecuador	242.9	231.2	270.1	266.4	260.0	-2.4
Mexico	1,309.2	1,544.0	1,722.4	1,736.3	1,605.9	-7.5
Trinidad & Tobago	58.8	58.9	57.9	57.0	58.3	2.3
Venezuela	1,819.9	1,976.4	2,210.8	2,243.9	1,923.0	-14.3
Others	341.1	395.2	427.4	427.7	387.9	-9.3
Eastern Europe	1,888.9	2,069.0	2,176.1	2,428.3	2,608.8	7.4
Former USSR	1,884.0	2,067.0	2,174.0	2,425.1	2,606.6	7.5
Others	4.9	2.0	2.1	3.2	2.2	-31.1
Western Europe	4,281.2	4,531.1	4,669.5	4,612.8	4,768.2	3.4
Norway	2,482.7	2,849.5	2,879.5	2,758.0	2,750.0	-0.3
United Kingdom	1,634.3	1,516.6	1,555.8	1,649.8	1,751.0	6.1
Others	164.3	165.0	234.2	205.0	267.2	30.3
Middle East	13,899.2	13,981.5	14,627.7	15,843.1	15,312.3	-3.4
Iran	2,621.0	2,630.0	2,587.0	2,512.0	2,531.0	0.8
Iraq	63.5	88.1	721.9	1,554.1	2,024.9	30.3
Kuwait	1,186.4	1,224.2	1,134.2	1,190.2	948.2	-20.3
Oman	780.5	832.6	857.1	860.0	864.0	0.5
Qatar	333.0	367.0	465.0	572.4	580.5	1.4
Saudi Arabia	6,290.8	6,109.3	6,184.5	6,390.4	5,719.7	-10.5
Syrian Arab Republic	302.5	352.5	343.7	335.0	325.0	-3.0
United Arab Emirates	1,925.0	1,943.2	1,949.0	2,039.0	1,919.0	-5.9
Others	396.4	434.5	385.3	390.0	400.0	2.6
Africa	4,765.6	5,151.7	5,146.6	5,149.7	4,726.1	-8.2
Algeria	332.8	390.8	373.1	549.4	414.6	-24.5
Angola	602.5	670.4	666.0	685.4	713.9	4.2
Cameroon	100.2	100.8	108.2	108.2	108.2	-
Congo	156.8	180.7	227.8	227.8	227.8	-
Egypt	350.0	331.4	287.7	277.5	263.3	-5.1
Gabon	335.9	347.7	354.1	346.9	327.7	-5.5
SP Libyan AJ	1,120.3	1,123.4	1,115.7	1,161.0	1,103.9	-4.9
Nigeria	1,665.0	1,897.4	1,930.9	1,707.8	1,477.3	-13.5
Others	102.2	109.1	83.0	85.6	89.5	4.5
Asia and Far East	1,865.0	1,819.4	1,820.0	1,703.9	1,617.6	-5.1
Brunei	168.1	155.5	147.4	141.6	166.6	17.6
China	377.9	409.2	400.4	312.9	143.7	-54.1
Indonesia	743.9	706.7	709.7	678.0	721.5	6.4
Malaysia	399.4	347.5	343.6	352.1	340.8	-3.2
Vietnam	153.7	171.2	195.1	195.0	220.0	12.8
Others	22.1	29.4	23.8	24.3	25.0	2.9
Oceania	294.8	278.7	334.0	344.4	338.1	-1.8
Australia	176.2	174.7	221.1	231.9	219.8	-5.2
Others	118.6	104.0	112.9	112.5	118.3	5.2
Total world	32,231.7	33,541.6	34,947.3	36,418.5	35,136.9	-3.5
OPEC	18,101.6	18,456.6	19,381.8	20,598.3	19,363.5	-6.0
OPEC percentage	56.2	55.0	55.5	56.6	55.1	

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

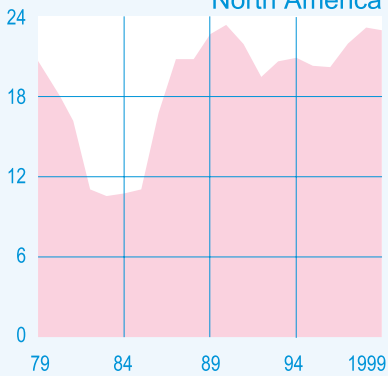
Sources: Direct communications to the Secretariat; UN, Energy Statistics Yearbook; OECD, Monthly Oil Data Statistics, Energy Statistics of OECD/non-OECD Countries; secondary sources; Secretariat's estimates.

■ OPEC
■ non-OPEC

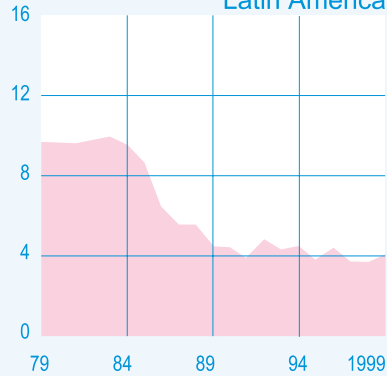
Graph 43:
Crude oil exports, 1979–99
(1,000 b/d)



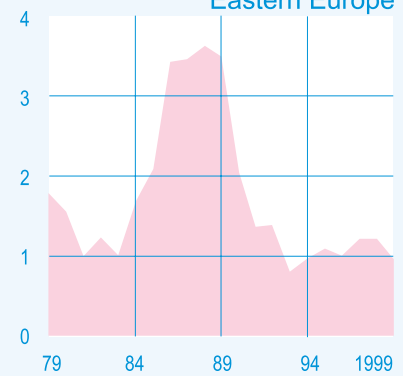
Graph 44:
North America



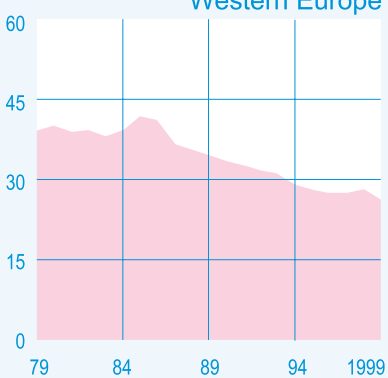
Graph 45:
Latin America



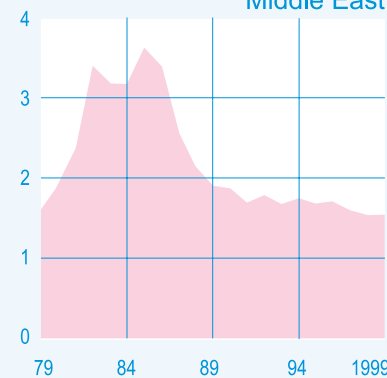
Graph 46:
Eastern Europe



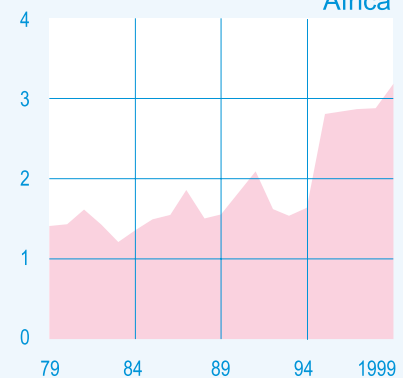
Graph 47:
Western Europe



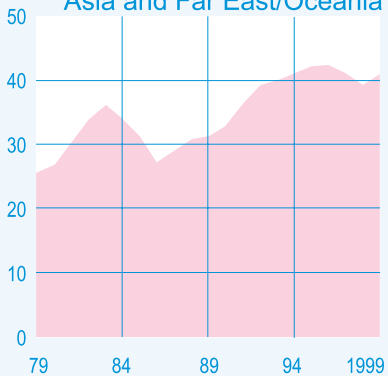
Graph 48:
Middle East



Graph 49:
Africa



Graph 50:
Asia and Far East/Oceania



percentage of OPEC crude oil exports to regions ■

OPEC refined product exports by destination, 1995-99
(1,000 b/d)

Algeria

	1995	1996	1997	1998	1999
North America	105.9	122.3	134.0	139.2	108.3
United States	105.3	122.3	134.0	135.3	106.9
Latin America	23.7	29.4	49.5	52.6	139.4
Eastern Europe	-	-	0.5	-	-
Western Europe	222.1	211.5	224.4	236.4	274.1
France	50.5	34.9	48.9	44.6	52.2
Italy	30.0	54.0	49.3	52.6	70.3
Netherlands	75.5	48.7	56.1	51.4	46.9
Spain	19.4	27.7	20.0	30.7	37.3
United Kingdom	4.1	0.7	0.0	8.3	2.0
Middle East	0.9	0.3	1.1	0.5	2.3
Africa	9.8	10.4	15.5	13.6	45.2
Asia and Far East	33.4	32.2	37.3	19.6	30.4
Oceania	-	-	-	-	-
Unspecified	-	-	-	-	-
Total world	395.8	406.1	462.3	461.9	599.7

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

Indonesia

	1995	1996	1997	1998	1999*
North America	34.6	15.5	10.8	12.1	4.1
United States	34.6	15.5	10.8	12.1	4.1
Latin America	-	-	-	-	-
Western Europe	21.1	28.2	20.2	27.5	5.0
Italy	20.5	20.2	18.7	24.6	0.8
Middle East	0.6	0.4	0.1	-	-
Africa	-	-	-	-	-
Asia and Far East	228.2	245.1	213.4	175.1	183.3
Japan	130.6	142.5	101.5	79.0	72.7
South Korea	25.0	28.6	40.8	38.7	51.8
Singapore	40.6	40.2	36.5	31.9	33.4
Oceania	9.6	8.0	12.8	6.1	3.7
Unspecified	-	-	-	-	-
Total world	294.1	297.1	257.3	220.8	196.2

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, 1995-99
(1,000 b/d)

Kuwait

	1995	1996	1997	1998	1999
North America	5.9	3.7	-	1.2	1.9
United States	5.9	3.7	-	1.2	1.7
Latin America	na	na	na	na	na
Western Europe	41.8	42.6	45.8	59.5	57.9
Italy	-	-	-	0.4	-
Netherlands	28.0	26.7	29.5	25.5	31.5
United Kingdom	-	-	0.4	6.8	5.4
Middle East	na	na	na	na	na
Africa	na	na	na	na	na
Asia and Far East	na	na	na	na	na
Japan	159.3	154.8	159.6	143.3	141.6
Oceania	-	-	0.6	-	na
Australia	-	-	0.6	-	0.5
Unspecified	-	-	-	-	-
Total world	794.2	751.5	848.0	897.0	739.3

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

Saudi Arabia

	1995	1996	1997	1998	1999
North America	66.0	97.2	74.6	46.1	28.6
Latin America	47.4	73.0	70.0	87.0	45.0
Western Europe	91.9	82.0	82.1	95.3	62.5
Middle East	145.7	165.3	185.4	138.0	92.5
Africa	40.8	54.1	81.5	114.6	91.0
Asia and Far East	887.4	958.9	852.7	848.0	919.6
Oceania	42.4	61.5	46.6	40.0	40.5
Unspecified	-	-	-	-	-
Total world	1,321.6	1,492.0	1,392.9	1,368.9	1,279.7

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, 1995-99
(1,000 b/d)

Venezuela

	1995	1996	1997	1998	1999
North America	391.1	416.1	441.1	423.1	460.5
United States	375.9	408.9	427.5	397.1	357.4
Latin America	241.9	274.1	348.6	363.7	313.2
Western Europe	48.6	41.1	44.3	54.9	41.1
Italy	0.9	2.6	2.7	7.1	6.3
United Kingdom	25.1	16.6	3.9	0.6	2.7
Africa	-	-	-	-	-
Asia and Far East	6.7	10.8	7.5	4.5	13.1
Japan	0.5	2.9	2.5	0.1	0.7
Oceania	-	-	-	-	-
Unspecified	-	-	-	-	-
Total world	688.3	742.1	841.5	846.2	828.0

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, 1995-99
(1,000 b/d)

	1995	1996	1997	1998*	1999*	% change 99/98
North America	1,192.6	1,270.7	1,321.0	1,227.8	1,224.5	-0.3
Canada	420.3	484.0	498.1	465.2	488.0	4.9
United States	772.1	786.5	822.7	762.5	736.4	-3.4
Others	0.1	0.1	0.1	0.1	0.1	-
Latin America	1,645.2	1,621.4	1,775.1	1,787.4	1,798.7	0.6
Argentina	83.6	81.4	110.6	104.6	51.6	-50.7
Ecuador	31.0	25.7	28.8	30.5	32.0	5.0
Mexico	131.0	76.0	93.6	104.6	96.6	-7.6
Netherlands Antilles	214.7	219.3	218.8	218.4	224.4	2.8
Trinidad & Tobago	81.4	76.1	75.1	73.2	74.0	1.1
Venezuela	688.3	742.1	841.5	846.2	828.0	-2.2
Virgin Islands	188.5	187.0	186.0	187.1	190.0	1.5
Others	226.7	213.7	220.8	222.9	302.1	35.5
Eastern Europe	1,045.9	1,193.3	1,219.2	1,107.6	1,121.3	1.2
Romania	98.9	80.3	62.1	70.4	57.8	-17.9
Former USSR	789.0	955.0	993.0	872.0	899.0	3.1
Others	158.0	157.9	164.1	165.2	164.5	-0.5
Western Europe	3,936.6	4,153.8	4,265.5	4,333.2	4,221.1	-2.6
Belgium	324.7	369.9	364.9	381.8	397.0	4.0
France	327.4	373.8	396.8	419.5	358.0	-14.7
Germany	297.1	290.0	259.6	309.7	347.6	12.2
Italy	340.0	375.2	419.4	458.7	405.1	-11.7
Netherlands	1,209.8	1,244.1	1,302.5	1,298.9	1,294.8	-0.3
United Kingdom	462.3	504.8	564.2	513.1	478.5	-6.8
Others	975.3	996.0	958.0	951.6	940.2	-1.2
Middle East	3,061.2	3,221.7	3,316.4	3,253.3	3,025.6	-7.0
Bahrain	251.4	239.0	228.4	230.0	240.0	4.3
IR Iran	165.6	183.0	212.6	159.0	166.3	4.6
Iraq	55.5	60.9	52.1	53.0	55.0	3.8
Kuwait	794.2	751.5	848.0	897.0	739.3	-17.6
Qatar	98.0	107.0	125.0	95.1	75.3	-20.8
Saudi Arabia	1,321.6	1,492.0	1,392.9	1,368.9	1,279.7	-6.5
United Arab Emirates	269.1	271.9	323.1	319.1	331.0	3.7
Others	105.9	116.3	134.4	131.2	139.1	6.0
Africa	796.5	799.3	861.3	846.3	998.2	17.9
Algeria	395.8	406.1	462.3	461.9	599.7	29.8
Egypt	112.6	109.9	109.1	104.5	110.0	5.3
Gabon	4.9	5.0	5.2	5.0	5.0	-
Nigeria	18.8	21.3	21.3	20.0	20.0	-
SP Libyan AJ	140.1	129.7	134.3	129.9	135.0	3.9
Others	124.3	127.3	129.1	125.0	128.5	2.8
Asia and Far East	2,315.6	2,540.7	2,799.3	2,780.3	2,805.5	0.9
China	106.5	114.9	198.4	188.6	264.8	40.4
Indonesia	294.1	297.1	257.3	220.8	196.2	-11.1
Japan	172.5	158.7	171.9	131.5	106.9	-18.7
Malaysia	161.9	168.5	151.5	140.3	142.0	1.3
Singapore	977.6	1,003.6	964.2	896.7	905.0	0.9
Others	603.1	797.9	1,056.1	1,202.5	1,190.5	-1.0
Oceania	86.2	105.9	122.4	119.6	129.2	8.0
Australia	82.4	99.7	114.1	111.8	122.3	9.4
Others	3.8	6.2	8.3	7.8	6.9	-11.5
Total world	14,079.9	14,906.7	15,680.3	15,455.6	15,324.0	-0.9
OPEC	4,241.1	4,462.6	4,670.3	4,570.9	4,425.3	-3.2
OPEC percentage	30.1	29.9	29.8	29.6	28.9	

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.

World natural gas exports by country, 1995-99
(million standard cu m)

	1995	1996	1997	1998	1999	% change 99/98
North America	83,791	85,638	86,370	90,610	99,200	9.5
Canada	79,741	81,638	82,130	86,112	94,700	10.0
United States	4,050	4,000	4,240	4,498 ^r	4,500	-
Latin America	2,178	2,436	2,981	3,825	7,300	90.8
Argentina	-	-	670	1,200 ^r	2,000	66.7
Bolivia	1,980	2,040	1,830	2,200 ^r	1,600	-27.3
Mexico	198	396	481	425	1,600	276.5
Trinidad & Tobago	-	-	-	-	2,100	-
Eastern Europe	117,270	123,460	116,450	121,100	127,540	5.3
Former USSR	117,270	123,460	116,450	121,100 ^r	127,540	5.3
Western Europe	71,370	90,120	89,660	88,480	93,200	5.3
Denmark	1,730	1,800	2,970	2,700	2,700	-
France	-	-	-	850	900	5.9
Germany	2,560	2,950	2,430	3,100 ^r	3,500	12.9
Netherlands	38,450	45,800	40,110	36,360	35,000	-3.7
Norway	27,600	38,020	42,310	42,570	45,500	6.9
United Kingdom	1,030	1,550	1,840	2,900 ^r	5,600	93.1
Middle East	7,130	7,340	10,670	12,010	15,200	26.6
IR Iran	100	100	-	-	-	-
Oman	500	500	500	500 ^r	500	-
Qatar	-	-	2,860	4,790	8,100	69.1
United Arab Emirates	6,530	6,740	7,310	6,720	6,600	-1.8
Africa	38,846	42,170	49,860	53,600	61,020	13.8
Algeria	37,356	40,970	48,740	52,690	59,320	12.6
SP Libyan AJ	1,490	1,200	1,120	910	1,000	9.9
Nigeria	-	-	-	-	700	-
Asia and Far East	56,840	62,830	65,290	66,000	69,300	5.0
Brunei	8,380	8,430	8,300	8,200 ^r	8,400	2.4
China	-	220	-	-	-	-
Indonesia	33,310	35,280	35,280	36,400 ^r	38,800	6.6
Malaysia	15,150	18,900	21,710	21,400 ^r	22,100	3.3
Oceania	9,820	9,870	9,540	10,000	10,100	1.0
Australia	9,820	9,870	9,540	10,000 ^r	10,100	1.0
Total world	387,245	423,864	430,821	445,625	482,860	8.4
OPEC	78,786	84,290	95,310	101,510	114,520	12.8
OPEC percentage	20.3	19.9	22.1	22.8	23.7	

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; OECD, Monthly Oil and Gas Data Statistics, World Energy Statistics and Balances.

World imports of crude oil by country, 1995-99
(1,000 b/d)

	1995	1996	1997	1998*	1999*	% change 99/98
North America	8,039.4	8,363.0	8,969.5	9,399.7	9,386.4	-0.1
Canada	589.6	664.4	744.5	754.4	788.1	4.5
United States	7,449.8	7,698.6	8,225.0	8,645.3	8,598.3	-0.5
Latin America	1,780.7	1,894.7	1,973.1	1,962.9	1,992.7	1.5
Brazil	509.1	567.6	596.2	575.0	590.0	2.6
Chile	148.0	160.7	166.3	165.0	170.0	3.0
Cuba	103.1	107.5	110.9	114.8	117.1	2.0
Netherlands Antilles	283.8	284.0	286.7	287.3	288.0	0.2
Puerto Rico	120.5	120.5	123.5	124.5	125.7	1.0
Virgin Islands	325.3	328.3	329.4	332.9	335.0	0.6
Others	290.8	326.1	360.1	363.5	366.9	0.9
Eastern Europe	1,028.2	1,025.1	995.5	963.0	880.4	-8.6
Bulgaria	148.4	138.0	116.0	112.5	104.4	-7.1
Former Czechoslovakia	234.0	259.1	244.9	241.2	240.3	-0.4
Romania	173.9	143.1	123.5	120.0	96.2	-19.8
Former USSR	100.0	95.0	100.0	50.0	-	-100.0
Others	371.9	389.8	411.1	439.3	439.5	-
Western Europe	10,746.0	11,182.3	11,397.6	11,974.8	11,239.9	-6.1
Belgium	531.3	637.9	662.0	699.9	648.7	-7.3
France	1,546.0	1,676.8	1,756.1	1,803.6	1,645.8	-8.7
Germany	1,989.8	2,043.7	1,983.3	2,157.6	2,050.2	-5.0
Greece	303.6	347.2	355.7	367.8	315.8	-14.1
Italy	1,575.0	1,589.1	1,692.0	1,835.2	1,725.7	-6.0
Netherlands	1,057.1	1,092.3	1,075.3	1,104.1	1,045.1	-5.3
Spain	1,126.8	1,106.5	1,134.7	1,217.8	1,183.2	-2.8
Sweden	365.2	386.6	408.0	399.8	392.5	-1.8
Turkey	460.4	435.5	449.5	457.1	442.7	-3.2
United Kingdom	836.3	890.7	858.8	817.1	731.7	-10.5
Others	954.3	976.0	1,022.1	1,114.7	1,058.7	-5.0
Middle East	534.6	517.9	576.9	583.1	592.0	1.5
Bahrain	209.4	221.6	243.7	245.0	247.0	0.8
Yemen	38.4	30.1	29.3	30.0	30.0	-
Others	286.9	266.1	303.9	308.1	315.0	2.2
Africa	690.8	632.2	618.9	614.2	606.4	-1.3
Côte d'Ivoire	61.2	60.8	48.3	42.0	35.0	-16.7
Kenya	33.7	34.1	37.0	34.2	32.1	-6.1
Morocco	132.4	107.2	120.9	126.7	128.3	1.3
Others	463.5	430.1	412.8	411.3	410.9	-0.1
Asia and Far East	9,961.4	10,607.6	11,613.4	11,017.4	11,294.0	2.5
India	602.5	658.9	653.5	680.0	690.0	1.5
Indonesia	187.2	189.3	190.6	212.2	205.0	-3.4
Japan	4,526.8	4,457.7	4,579.3	4,284.2	4,212.8	-1.7
Philippines	307.7	343.0	357.1	340.0	350.0	2.9
Singapore	1,027.4	1,040.3	1,120.8	1,095.0	1,110.0	1.4
South Korea	1,714.5	1,977.8	2,414.4	2,314.7	2,408.0	4.0
Taiwan	578.1	655.0	653.5	646.8	660.0	2.0
Thailand	458.9	608.6	705.3	680.0	695.0	2.2
Others	558.4	677.0	938.8	764.4	963.2	26.0
Oceania	362.5	447.8	467.0	484.3	514.7	6.3
Australia	279.4	366.5	384.1	384.9	417.0	8.3
New Zealand	83.1	81.3	82.9	99.4	97.7	-1.7
Total world	33,143.6	34,670.5	36,611.9	36,999.4	36,506.6	-1.3

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; secondary sources; Secretariat's estimates.

World imports of refined products by country, 1995-99
(1,000 b/d)

	1995	1996	1997	1998*	1999*	% change 99/98
North America	1,241.2	1,355.5	1,387.7	1,495.4	1,470.5	-1.7
Canada	137.7	143.5	174.9	181.6	168.0	-7.5
United States	1,099.5	1,207.9	1,208.7	1,309.7	1,298.3	-0.9
Others	4.1	4.1	4.1	4.1	4.1	-
Latin America	1,215.8	1,256.8	1,421.2	1,447.4	1,478.1	2.1
Brazil	316.9	350.2	382.0	367.5	356.3	-3.0
Cuba	70.3	70.5	76.5	78.4	80.0	2.0
Mexico	138.1	169.8	283.8	328.2	358.7	9.3
Netherlands Antilles	33.7	33.4	33.3	34.1	34.9	2.4
Panama	26.2	11.0	20.5	18.3	20.0	9.3
Puerto Rico	91.5	94.6	96.7	98.7	99.0	0.3
Others	539.3	527.1	528.4	522.2	529.2	1.3
Eastern Europe	283.4	310.8	343.7	364.0	306.7	-15.8
Bulgaria	11.3	9.3	12.5	6.4	6.4	-
Former USSR	85.0	95.0	97.7	105.0	45.0	-57.1
Hungary	31.3	39.9	32.7	33.2	39.4	18.6
Poland	58.1	66.9	83.7	97.9	91.7	-6.3
Others	97.7	99.8	117.0	121.5	124.1	2.1
Western Europe	4,362.9	4,521.6	4,506.0	4,599.6	4,811.5	4.6
Belgium	278.8	287.3	274.5	285.9	289.5	1.3
France	458.9	426.3	327.6	368.7	571.7	55.1
Germany	925.7	983.9	1,057.3	955.8	872.9	-8.7
Italy	492.2	503.8	430.4	412.5	365.7	-11.4
Netherlands	665.1	691.1	793.3	768.3	809.9	5.4
United Kingdom	194.4	178.7	177.8	242.7	255.6	5.3
Others	1,347.8	1,450.4	1,445.2	1,565.6	1,646.3	5.1
Middle East	418.1	451.7	536.6	564.9	574.5	1.7
Syrian Arab Republic	14.1	12.0	15.6	14.7	15.0	2.0
Others	404.0	439.7	521.0	550.2	559.5	1.7
Africa	345.6	387.1	413.1	436.6	437.8	0.3
Egypt	7.7	15.4	28.4	30.0	31.2	4.0
Morocco	24.6	32.1	32.7	35.0	36.0	2.9
Nigeria	48.7	48.8	37.0	70.0	60.0	-14.3
Senegal	7.5	9.0	8.6	8.7	9.0	3.4
Tunisia	36.2	47.9	53.7	55.0	57.1	3.8
Others	220.9	233.9	252.7	237.9	244.5	2.8
Asia and Far East	4,363.0	4,667.0	4,979.6	4,745.2	5,012.4	5.6
China	363.7	430.7	595.8	587.3	631.9	7.6
Hong Kong	335.5	366.7	401.2	406.5	402.0	-1.1
India	319.0	328.9	408.3	423.1	429.6	1.5
Japan	1,218.6	1,355.5	1,238.7	1,074.6	1,238.1	15.2
Singapore	469.9	481.3	530.4	511.6	522.8	2.2
Others	1,656.3	1,703.8	1,805.2	1,742.1	1,788.0	2.6
Oceania	167.7	187.8	179.0	171.9	195.1	13.5
Australia	62.0	75.2	64.7	64.4	76.6	19.0
New Zealand	18.6	25.4	26.9	19.9	31.0	55.3
Others	87.1	87.2	87.4	87.6	87.6	-
Total world	12,397.6	13,138.4	13,766.9	13,825.1	14,286.5	3.3

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, Energy Statistics of OECD/non OECD Countries; secondary sources; Secretariat's estimates.

World imports of natural gas by country, 1995-99
(million standard cu m)

	1995	1996	1997	1998	1999	% change 99/98
North America	81,136	84,584	86,051	91,375	101,895	11.5
Canada	670	1,290	1,270	1,270	1,200	-5.5
United States	80,466	83,294	84,781	90,105	100,695	11.8
Latin America	3,710	2,970	3,750	4,970	5,300	6.6
Argentina	1,980	2,040	1,830	2,200	1,200	-45.5
Brazil	-	-	-	-	400	-
Chile	-	-	670	1,240	2,000	61.3
Mexico	1,730	930	1,250	1,530	1,700	11.1
Eastern Europe	40,560	45,000	41,300	39,760	39,300	-1.2
Bulgaria	5,850	6,040	5,100	3,600	3,200	-11.1
Former Czechoslovakia	14,910	16,640	16,000	16,260	16,500	1.5
Former USSR	100	100	-	-	-	-
Hungary	6,300	7,940	8,000	8,500	8,800	3.5
Poland	7,250	7,140	7,700	7,600	7,400	-2.6
Romania	6,150	7,140	4,500	3,800	3,400	-10.5
Western Europe	187,040	210,070	213,390	219,910	239,765	9.0
Austria	6,740	6,790	6,030	6,200	6,200	-
Belgium	13,086	15,600	14,300	15,500	15,965	3.0
Finland	3,600	4,040	3,700	4,200	4,200	-
France	33,354	36,020	35,150	36,800	41,100	11.7
Germany	67,840	77,860	75,380	73,800	73,200	-0.8
Greece	-	-	160	900	1,500	66.7
Ireland	-	130	830	1,500	2,100	40.0
Italy	35,291	37,290	39,150	42,600	49,300	15.7
Luxembourg	680	730	710	760	800	5.3
Netherlands	3,450	4,630	5,890	5,300	7,300	37.7
Portugal	-	-	500	800	2,200	175.0
Spain	8,103	9,000	12,470	12,600	15,200	20.6
Sweden	820	860	860	860	900	4.7
Switzerland	2,570	2,770	2,620	2,700	3,000	11.1
Turkey	6,958	8,160	9,750	10,380	12,000	15.6
United Kingdom	1,710	1,710	1,320	900	1,400	55.6
Former Yugoslavia	2,838	4,480	4,570	4,110	3,400	-17.3
Middle East	-	-	100	1,750	2,000	14.3
IR Iran	-	-	100	1,750	2,000	14.3
Africa	1,479	1,100	910	450	800	77.8
Tunisia	1,479	1,100	910	450	800	77.8
Asia and Far East	73,320	80,140	85,320	87,410	93,800	7.3
Hong Kong	-	220	-	-	-	-
Japan	58,970	61,940	63,750	66,300	69,400	4.7
South Korea	9,530	12,950	15,710	14,310	17,500	22.3
Singapore	1,500	1,500	1,500	1,500	1,500	-
Taiwan	3,320	3,530	4,360	5,300	5,400	1.9
Total world	387,245	423,864	430,821	445,625	482,860	8.4
OPEC	-	-	100	1,750	2,000	14.3
OPEC percentage	-	-	-	0.4	0.4	

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; OECD, Monthly Oil and Gas Data Statistics, World Energy Statistics and Balances.

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Tanker fleet development in OPEC Members, 1995-99
(1,000 dwt)

	1995		1996		1997		1998		1999	
	no	dwt	no	dwt	no	dwt	no	dwt	no	dwt
Algeria	1	22.3	1	22.3	1	22.6	1	22.6	1	22.6
Indonesia	24	642.4	25	726.7	25	739.1	25	739.1	31	904.2
IR Iran	14	2,083.1	12	3,301.0	25	3,996.1	17	2,998.9	20	3,523.6
Iraq	17	1,493.0	17	1,493.0	17	1,517.0	16	1,364.2	9	534.3
Kuwait	28	3,441.5	28	3,441.5	27	3,156.9	26	3,343.0	17	2,890.3
SP Libyan AJ	11	1,321.7	10	1,234.7	10	1,254.5	9	1,113.5	5	526.9
Nigeria	3	417.0	2	406.5	3	423.7	2	413.0	2	413.0
Qatar	2	190.2	2	190.7	5	479.0	5	479.0	5	465.8
Saudi Arabia	13	717.1	15	796.5	14	719.3	10	521.8	11	481.3
United Arab Emirates	15	778.3	15	785.5	10	509.4	13	659.4	13	659.4
Venezuela	14	675.5	11	559.9	10	521.8	9	474.4	7	373.8
OPEC	142	11,782.1	138	12,958.3	147	13,339.4	134	12,176.3	121	10,795.2
Total world	3,200	281,812.0	3,255	288,294.0	3,323	292,397.5	3,424	300,460.0	3,307	287,358.1
OPEC percentage		4.2		4.5		4.6		4.1		3.8

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; direct communications to the Secretariat.*

World tanker fleet by age, 1999
(1,000 dwt)

	1984 and earlier		1985-89		1990-94		1995-99		Total	
	no	dwt	no	dwt	no	dwt	no	dwt	no	dwt
10,000-16,499	156	2,063.8	60	842.7	36	456.7	107	1,376.3	359	4,739.5
16,500-24,999	189	3,881.3	28	562.9	24	452.9	41	768.7	282	5,665.8
25,000-29,999	155	4,406.9	54	1,568.2	34	999.5	12	347.3	255	7,321.9
30,000-34,999	195	6,221.8	11	360.0	11	371.2	32	1,032.5	249	7,985.4
35,000-39,999	152	5,771.2	41	1,587.8	25	931.3	45	1,673.9	263	9,964.3
40,000-44,999	43	1,797.8	31	1,285.0	44	1,845.5	39	1,668.0	157	6,596.3
45,000-49,999	30	1,409.7	36	1,669.9	23	1,065.4	92	4,258.8	181	8,403.7
50,000-59,999	80	4,423.8	7	372.4	3	170.7	1	55.2	91	5,022.0
60,000-69,999	108	6,940.6	27	1,747.5	31	2,085.6	9	609.6	175	11,383.4
70,000-79,999	13	974.2	7	540.0	4	300.0	6	437.4	30	2,251.5
80,000-89,999	128	11,016.4	52	4,445.7	16	1,369.2	7	607.9	203	17,439.2
90,000-99,999	45	4,250.2	26	2,473.2	85	8,195.4	34	3,314.1	190	18,232.9
100,000-124,999	40	4,655.2	21	2,299.4	29	3,103.9	94	10,048.7	184	20,107.2
125,000-139,999	49	6,511.6	11	1,470.6	21	2,863.4	14	1,810.3	95	12,655.9
140,000-159,999	33	4,949.1	13	1,918.4	53	7,858.8	47	7,114.6	146	21,841.0
160,000-199,999	13	2,308.0	-	-	-	-	-	-	13	2,308.0
200,000-249,999	23	5,370.1	18	4,276.5	10	2,417.2	-	-	51	12,063.8
250,000-279,999	79	21,208.8	23	6,012.5	43	11,250.0	27	7,179.5	172	45,650.7
280,000-319,999	21	6,244.5	2	609.3	63	18,394.9	75	22,502.0	161	47,750.7
320,000-349,999	8	2,644.2	-	-	-	-	-	-	8	2,644.2
350,000 and over	42	17,330.6	-	-	-	-	-	-	42	17,330.6
Total	1,602	124,379.5	468	34,042.0	555	64,131.9	682	64,804.8	3,307	287,358.1
Total world¹									3,315	288,941.6

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.

1. World tanker fleet plus tankers converted to floating production systems in offshore fields.

Source: Simpson Spence & Young, *World Oil Tanker Trends 2000*.

World liquid gas carrier fleet by size and type, 1999
(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	257	367.1	2	2.6	259	369.7
2,000-4,999	251	819.7	1	2.7	252	822.4
5,000-9,999	126	823.9	-	-	126	823.9
10,000-19,999	63	862.0	4	76.1	67	938.1
20,000-39,999	52	1,492.0	5	155.5	57	1,647.4
40,000-59,999	25	1,349.8	6	252.9	31	1,602.7
60,000-99,999	92	7,077.3	15	1,158.6	107	8,235.9
100,000 and over	1	100.9	85	11,045.7	86	11,146.6
Total world	942	12,943.5	118	12,694.2	1,060	24,344.6

Notes: Figures as at year-end. Totals may not add up due to independent rounding.
Source: *Clarkson Research Studies, The Liquid Gas Carrier Register 2000.*

Liquid gas carrier fleet in OPEC Members, 1999
(1,000 cu m)

	LPG		LNG		Total	
	no	capacity	no	capacity	no	capacity
Algeria	5	30.2	6	677.9	11	708.1
Indonesia	5	19.1	-	-	5	19.1
IR Iran	1	12.1	-	-	1	12.1
Iraq	-	-	-	-	-	-
Kuwait	7	522.0	-	-	7	522.0
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	7	959.0	8	962.2
Venezuela	2	28.3	-	-	2	28.3
OPEC	25	701.4	13	1,636.9	38	2,338.3
Total world	942	12,943.5	118	12,694.2	1,060	25,637.7
<i>OPEC percentage</i>		<i>5.4</i>		<i>12.9</i>		<i>9.1</i>

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 2000; direct communications to the Secretariat.*

World combined carrier fleet by size, 1995-99
(1,000 dwt)

	1995		1996		1997		1998		1999	
	no	dwt	no	dwt	no	dwt	no	dwt	no	dwt
10,000-16,499	2	29.3	2	29.3	2	29.7	2	29.7	1	15.2
16,500-24,999	-	-	-	-	-	-	-	-	-	-
25,000-29,999	3	85.2	3	85.2	1	26.4	1	26.4	1	26.4
30,000-39,999	2	63.3	2	63.3	4	124.4	4	124.4	-	-
40,000-44,999	3	128.6	3	128.6	3	130.8	3	130.8	4	175.4
45,000-49,999	12	571.6	10	476.0	10	483.6	10	483.6	7	338.4
50,000-59,999	15	801.8	15	801.8	15	814.7	15	814.7	13	707.9
60,000-69,999	12	787.4	10	652.4	8	525.9	8	525.9	7	456.5
70,000-79,999	40	3,032.5	40	3,024.3	40	3,058.1	38	2,900.9	34	2,575.3
80,000-99,999	31	2,775.4	29	2,611.1	28	2,553.4	26	2,384.0	30	2,724.1
100,000-124,999	41	4,513.9	37	4,097.6	38	4,273.4	30	3,383.4	26	2,936.2
125,000-159,999	40	5,603.4	34	4,742.5	29	4,040.1	25	3,466.0	24	3,294.2
160,000-199,999	21	3,503.2	19	3,173.8	18	3,025.6	14	2,364.4	6	1,016.3
200,000-249,999	6	1,389.0	4	934.1	3	700.5	3	700.5	1	247.9
250,000-319,999	11	3,123.0	11	3,123.0	9	2,618.8	8	2,343.2	5	1,523.9
Total world	239	26,407.6	219	23,943.0	208	22,405.4	187	19,677.9	159	16,037.8

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 2000.*

World laid-up tanker and combined carrier tonnage by size, 1995-99
(1,000 dwt)

	1995		1996		1997		1998		1999	
	no	dwt	no	dwt	no	dwt	no	dwt	no	dwt
up to 44,999	15	342.4	12	278.2	12	281.3	11	250.5	2	50.0
45,000-79,999	2	142.0	1	71.5	1	77.4	2	128.9	-	-
80,000-159,999	4	449.1	6	712.5	6	696.0	4	469.0	1	110.0
160,000-199,999	5	858.8	4	691.1	4	702.2	4	694.0	6	930.0
200,000-319,999	1	318.0	-	-	-	-	-	-	-	-
320,000 and over	1	406.5	3	1,184.5	3	1,203.5	-	-	-	-
Total	28	2,516.8	26	2,937.8	26	2,960.4	21	1,542.4	9	1,090.0

Note: Figures as at year-end.

Source: *Simpson Spence & Young, World Tanker Fleet Review.*

Average spot freight rates for all routes, 1995-99
(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
1995	Jan	166.0	163.5	127.6	99.3	59.1
	Feb	162.8	158.0	122.6	94.2	52.8
	Mar	173.8	152.0	117.9	88.3	49.6
	Apr	170.3	154.3	116.0	90.8	48.9
	May	217.9	192.1	116.4	87.0	45.9
	Jun	279.8	219.4	119.8	90.8	52.4
	Jul	233.7	187.3	120.0	97.2	63.3
	Aug	208.8	188.5	127.8	100.5	63.7
	Sep	174.8	160.0	119.0	93.2	64.3
	Oct	182.4	165.7	118.1	96.4	51.8
	Nov	168.4	160.2	111.8	91.5	50.7
	Dec	159.3	151.6	111.2	94.8	63.2
1996	Jan	177.8	168.9	134.1	102.8	58.9
	Feb	190.1	176.7	141.1	117.1	61.2
	Mar	240.2	205.3	142.2	107.3	68.3
	Apr	237.3	203.4	140.1	101.5	54.5
	May	206.3	182.9	131.6	103.6	50.2
	Jun	256.1	225.8	131.9	105.8	61.3
	Jul	249.6	213.9	116.9	99.4	68.2
	Aug	206.7	176.9	118.8	97.8	69.9
	Sep	212.3	183.4	113.7	93.3	61.8
	Oct	214.6	193.9	118.9	97.8	55.3
	Nov	195.9	183.6	120.5	105.2	56.4
	Dec	196.9	182.9	128.7	102.3	60.8
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

Notes: GP = general purpose, MR = medium range, LR1 = large range 1, LR2 = large range 2, VLCC = very large crude carrier. Tanker sizes are in 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 Report.*

Freight costs in the spot market, 1995-99
(\$/b)

		Crude oil					Petroleum products				
		Carib/USAC	Med/NWE	WAF/USGC	Gulf/Japan	Gulf/NWE	Gulf/Japan	Med/Med	Carib/USAC	S'pore/Japan	
1995	Jan	1.07	0.85	1.06	0.71	1.12	2.70	0.80	1.37	1.51	
	Feb	1.05	0.92	0.95	0.72	1.05	2.42	0.76	1.51	1.44	
	Mar	1.03	0.86	0.95	0.68	1.03	2.39	0.70	1.52	1.48	
	Apr	0.89	0.79	0.98	0.67	1.05	2.12	0.64	1.03	1.35	
	May	0.90	0.79	0.94	0.61	0.96	2.13	0.62	1.22	1.27	
	Jun	0.87	1.08	0.94	0.82	1.15	2.75	0.82	1.32	1.32	
	Jul	0.91	1.06	1.06	0.98	1.33	2.82	0.76	1.24	1.49	
	Aug	0.92	1.09	1.05	0.93	1.33	3.09	0.70	1.15	1.54	
	Sep	0.88	1.03	0.98	0.95	1.31	2.41	0.62	1.02	1.58	
	Oct	0.85	0.96	1.03	0.75	1.08	2.17	0.65	1.01	1.40	
	Nov	0.95	0.86	0.93	0.71	1.10	2.89	0.58	1.19	1.57	
	Dec	0.81	0.86	1.06	0.91	1.35	3.18	0.57	1.41	1.75	
1996	Jan	1.13	1.11	1.28	0.83	1.35	2.99	0.67	2.00	1.70	
	Feb	0.89	1.04	1.24	0.88	1.35	2.53	0.92	1.49	1.55	
	Mar	1.34	0.91	1.26	0.99	1.45	2.67	0.82	1.67	1.49	
	Apr	1.29	0.94	1.13	0.79	1.20	2.67	0.90	1.79	1.42	
	May	1.01	1.16	1.20	0.78	1.27	2.53	0.80	1.35	1.49	
	Jun	1.17	1.09	1.28	0.88	1.35	2.67	0.86	1.26	1.43	
	Jul	1.21	1.27	1.19	1.05	1.50	2.59	0.83	1.14	1.48	
	Aug	1.22	0.93	1.15	1.05	1.52	2.24	0.73	1.11	1.41	
	Sep	0.94	1.02	1.09	0.91	1.35	2.53	0.62	1.18	1.35	
	Oct	0.90	1.05	1.16	0.78	1.27	2.38	0.60	1.22	1.45	
	Nov	0.94	1.07	1.34	0.78	1.35	2.80	0.74	1.27	1.55	
	Dec	1.17	1.06	1.30	0.89	1.32	2.66	0.67	1.33	1.76	
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	

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 for 1995-99 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 Report.

Spot tanker freight rates for all sizes, 1995-99

		Gulf/West		Gulf/East		Caribbean/USAC		all routes	
		% of Worldscale	equivalent \$/t	% of Worldscale	equivalent \$/t	% of Worldscale	equivalent \$/t	% of Worldscale	equivalent \$/t
1995	Jan	48	8.12	67	7.00	155	6.59	90	6.52
	Feb	43	7.28	56	5.84	140	5.95	82	5.94
	Mar	42	7.11	54	5.64	152	6.46	78	5.65
	Apr	43	7.28	60	6.27	132	5.61	80	5.79
	May	39	6.60	49	5.12	142	6.04	76	5.50
	Jun	40	6.77	52	5.43	130	5.53	79	5.72
	Jul	55	9.31	75	7.84	130	5.53	87	6.30
	Aug	53	8.97	71	7.42	144	6.12	88	6.37
	Sep	55	9.31	71	7.42	136	5.78	86	6.23
	Oct	46	7.78	63	6.58	143	6.08	82	5.94
	Nov	47	7.95	54	5.64	134	5.70	81	5.86
	Dec	54	9.14	70	7.32	131	5.57	83	6.01
1996	Jan	52	10.34	73	8.29	163	8.20	91	7.71
	Feb	55	10.93	66	7.49	140	7.04	97	8.22
	Mar	56	11.13	71	8.06	166	8.35	99	8.39
	Apr	51	10.14	60	6.81	186	9.36	98	8.30
	May	45	8.95	52	5.90	154	7.75	89	7.54
	Jun	55	10.93	63	7.15	148	7.44	91	7.71
	Jul	55	10.93	77	8.74	127	6.39	92	7.79
	Aug	60	11.93	76	8.63	135	6.79	92	7.79
	Sep	53	10.54	66	7.49	130	6.54	89	7.54
	Oct	52	10.34	61	6.92	128	6.44	89	7.54
	Nov	52	10.34	59	6.70	125	6.29	89	7.54
	Dec	53	10.54	71	8.06	152	7.65	97	8.22
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

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

Sources: Galbraith's Tanker Report; OPEC Secretariat.

Crude oil pipelines in OPEC Members, 1999

	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/Tunisian border/La Skhirra	Sonatrach	482	24
Ohanet/Haoud el Hamra	Sonatrach	322	30
El Gassi/MD I	Sonatrach	56	10
MD I/Haoud el Hamra	Sonatrach	2x16	16/20
Haoud el Hamra/Skikda	Sonatrach	396	34
Rhourde el Baguel/Haoud el Hamra	Sonatrach	67	14
Hassi R'Mel/Haoud el Hamra	Sonatrach	183	8
Edjeleh/In Amenas	Sonatrach	31	12
El Adeb Larach/Tiguentourine	Sonatrach	34	8
Tin Fouye/In Amenas	Sonatrach	134	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	Asamera	2x101	8
Jene/Jirak	PT Stanvac	28	8
Handil Field/Senipah/SBM	Total Indonesia	21	20/26
Bekapai Field/Senipah/SBM	Total Indonesia	32	12/26
Rama, Seltan, Krisna, Zelda/C Maxus	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/Duri Tank Farm	Caltex	37, 23	26, 30
Duri Tank Farm/Dumai Tank Farm	Caltex	2x28	30, 36
Pamusian field/Lingkas Tank Farm	Tesoro	12	10
Kasim field/Kasim Shipping	Petromer Trend	2x3	10/18
IR Iran			
Isfahan/Rey	NIOC	231	24
Tang-e-Fani/Kermanshah	NIOC	142	10/16
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
Omideh/Abadan	NIOC	63	12/16
Neka/Sari/Rey	NIOC	287	12/16

Crude oil pipelines in OPEC Members, 1999

	Owner or operator	Length (miles)	Diameter (inches)
Iraq			
Bai-Hassan/Kirkuk	INOC	20	16
Butmah/Ain Zalah/K2 PS	INOC	134	12
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	2x65	24/30/32
Haditha/Rumaila	INOC	2x407	18/42
Zubair/Station P3 Petroline	INOC	391	48
Naft Khaneh/Daura	INOC	81	12
Kirkuk/Ceyhan/Dortyol (Turkey)	INOC	2x652	40
Zubair/Al Muajez (Saudi Arabia)	INOC/Aramco	1,575	56
Kuwait			
Raudhatain/Ahmadi	KOC	57	2x30
Minagish/Ahmadi	KOC	30	22/24/26
Umm-Gudair/Shuaiba	KOC	26	14/18
Burgan/Ahmadi	KOC	4x4.7	20, 20/22, 30/34, 34/36
SP Libyan AJ			
Naser/El Brega	NOC	107	36
Raguba/km 110	NOC	55	20
Jebel/Naser	NOC	21	24
Gialo/Waha	Oasis/NOC	94	30
Defa/Waha	Oasis/NOC	21	30
Waha/Es Sider	Oasis/NOC	267	24
Samah/Dahara	Oasis/NOC	114	32
Hamada/Zawia	NOC	236	18
Dahara/Es Sider	Oasis/NOC	86	30
Bahi/Dahara Es Sider line	Oasis/NOC	29	20
Augila/Intisar A	Occidental/NOC	41	24
Intisar A/Zueitina	Occidental/NOC	132	40
Amal/Ras Lanuf	NOC/Mobil	170	30/36
Km 46/Ras Lanuf	NOC	141	36
Joint Beda/Joint El Saida	NOC	85	24
Hofra/Joint El Saida	NOC	35	24
Marada/Ora	NOC	51	10
Joint El Saida/Ras Lanuf	NOC	55	30
El Deeb/Hofra	NOC	44	10
Nafora/Amal	Arabian Gulf	2x32	20, 32
Dor/Kotla	Arabian Gulf	18	6
Beda/Joint-Ora	Arabian Gulf	17	14
Umm Farid/Hofra	Arabian Gulf	18	6
Messla/Ras Lanuf	Arabian Gulf	298	36/42
Butiffel/Intisar	Agip/NOC	85	30
Mansour/Beda	Aquitaine/NOC	32	8
Magid/Nafora	Aquitaine/NOC	65	14
Sarir/Mersa-El-Hariga	NOC/BP/Hunt	318	34

Crude oil pipelines in OPEC Members, 1999

	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	7/11/30
North Apoi/export berth	Texaco	16	13/30
Funiwa/export terminal	Texaco	16	18/30
Rumuekpe/Bonny terminal	Shell	2x67	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	Chevron/NNPC	9, 5	16, 12
Parabe & Meji/valve platform	Chevron/NNPC	28, 10	8, 20
Delta South & Okan/valve platform	Chevron/NNPC	2, 2	16, 16
Valve Platform/Escravos	Chevron/NNPC	2x7	16, 26
Makarba & Abiteye/Escravos	Chevron/NNPC	15, 7	16, 26
Escravos/SBM	Chevron/NNPC	15	26/42
Escravos/Warri	Chevron/NNPC	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	2x1.9	6, 8
Mimbo/Antan terminal	Ashland	2	6
Ukpam/Adanga	Ashland	5	6
Iyab/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 Hanine/Halul	QGPC	27	20

Crude oil pipelines in OPEC Members, 1999

	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	6x44	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	5x17	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	2x26	12
Safaniyah/Khursaniyah Nos 1-4	Aramco	4x66	22, 30/32, 36/38, 40/42
Khursaniyah/Ras Tanura Nos 1-4	Aramco	4x65	22, 30, 40/42, 40/42
Berri/Ras Tanura No 1 & No 2	Aramco	2x36	16, 40/42
Qaisumah/Sidon (Tapline)	Aramco	754	30/31
Riyadh/Khurais	Petromin	87	..
Abqaiq/Yanbu	Petromin	2x789	48/56
Abqaiq/Yanbu (condensate)	Petromin	725	24/28
Saudi-Kuwaiti Neutral Zone			
Wafra/Mina Saud	Getty/Texaco/KNPC/Aramco	3x22	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	3x33	8/24
United Arab Emirates			
Murban/Jabel Dhanna	ADCO	3x50	24, 24, 30
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, 1999

	Owner or operator	Length (miles)	Diameter (inches)
Venezuela			
Ule (Zulia)/Amuay (Falcon)	PDVSA	117, 144	26
Ule (Zulia)/La Salina (Zulia)	PDVSA	3x9	16, 26, 34
Temblador/Caripito (Monagas)	PDVSA	97	23
Morichal/Puerto Ordaz (Bolívar)	PDVSA	44	26
Jusepin/Travieso	PDVSA	2x16	20, 26
Palmarejo/Cardon (Falcon)	PDVSA	153	30
Bachaquero/Puerto Miranda (Zulia)	PDVSA	66	30
Mene Grande/Misoa	PDVSA	11	8
Motatan 2 (Zulia)/San Lorenzo (Zulia)	PDVSA	9	12
Cabimas/Puerto Miranda (Zulia)	PDVSA	27	34
Boscan/Bajo Grande	PDVSA	22	26
Puerto Miranda/Cardon(Falcon)	PDVSA	141	30
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
PT Ancona/Puerto La Cruz	PDVSA	3x62	12, 2x16
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, 1999

	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	2x341	48, 48
Hassi R'Mel/Moroccan border	Sonatrach	329	48
Hassi R'Mel/Issers	Sonatrach	278	42
Indonesia			
Kes/Gresik	Kodeco	40	14
Serdang/Simpang Y	Pertamina	2x27	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/Bontang LNG plant	Pertamina	2x35	20, 36
Santan/Pupuk Kaltim	Pupuk Kaltim	25	16
Musi/Teras/Rambutan/Betung	Pertamina	23, 14, 12	12, 14, 16
Benuang/Prabumulih	Pertamina	15	20
Arun field/Arun LNG plant	Mobil	2x19	42, 16
Arun LNG 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 (lgat 2)	NIGC	742	56
Khangiran Mashad	NIGC	77	16
Sarakhs/Neka/Rasht	NIGC	745	36/30
Sarkhun/Bandar Abbas	NIGC	31	22
Qeshm/Bandar Abbas	NIGC	44	12
Sarkhun/Kerman	NIGC	318	24/20
Semirome/Abadeh	NIGC	26	16
Shiraz/Fasa	NIGC	71	16
Boroujerd/Khoram Abad	NIGC	66	16
Mobarakeh/Yazd	NIGC	198	20/24
Kangan/Kazeroon (lgat 3)	NIGC	150	56
Tabriz/Bazargan	NIGC	157	40
Kooh Namak/Tehran	NIGC	2x70	30, 36
Saveh/Tehran	NIGC	75	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/El Brega	NOC	2x107	36, 30
Raguba/km 110	NOC	54	20

Gas pipelines in OPEC Members, 1999

	Owner or operator	Length (miles)	Diameter (inches)
SP Libyan AJ (continued)			
Bahi/Dahra	Oasis/NOC	30	12
Intisar A/Intisar D	Occidental/NOC	3x14	3x10/40
Defa Naser	Oasis/NOC	68	24/8
Intisar A/Zueitina	Occidental/NOC	140	20
Buttifel/Intisar A	Agip/NOC	85	34
Amal/km 46	Umm Gawaby	29	20
Naser-Hatiba	NOC	54	30
Hatiba-Brega	NOC	64	30
Nigeria			
Sapele/Ajaokuta	NGC	27	16
Escravos/Lagos	NGC	213	36
Oben/Ajaokuta	NGC	122	24
Eriemu/Aladja	NGC	21	16
Imo River/Aba	Shell	17	12
Oben/Sapele	NGC	22	18
Obigbo North/Afam	NGC	11	16
Bomu/Afam	Shell	2x6	8, 10
Alakiri Onne	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
Fahahil/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
Bab/Ruwais	ADNOC	68	30
Maqta/Taweelah	ADNOC	2x33	24, 36
Maqta/AI Ain	ADNOC	100	30
Murgam/Jabel Ali	Dubai-Government	47	24
Sajaa/Sharjah	EMMARAT	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 to 36
Puerto Miranda/La Paz	PDVSA	38	20
Puerto Miranda/Punto Fiso	PDVSA	136	20/22
Casigua/La Fria	PDVSA	47	12
Casigua/La Fria	PDVSA	93	14
Lama/Bajo Grande	PDVSA	40	14
Quiriquire/Caripito	PDVSA	12	10/16
Ule/Amuay	PDVSA	294	8/16, 20
Bombal/Tucupita	PDVSA	22	9
Oracual and 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, 1999

	Owner or operator	Length (miles)	Diameter (inches)
Algeria			
Houd El Hamra/Hassi R'Mel ¹	Sonatrach	184	12
Hassi R'Mel/Arzew ¹	Sonatrach	316	16
Indonesia			
Cilacap/Padalarang	Pertamina	258	10/16
Cilacap/Ujung Berung	Pertamina	225	10/16
Cilacap/Tasimalaya	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	12, 16
Abadan/Mahshahr	NIOC	73, 68, 63	16
Ahwaz/Rey	NIOC	469	12, 26, 16
Ahwaz/Azna/Rey	NIOC	510	10/14/10
Isfahan/Rey	NIOC	231	18
Arak/Rey	NIOC	160	10/16
Rey/Sari	NIOC	178	16/22
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	6
Rey/Tabriz	NIOC	476	14
Tabriz/Miandoab/Orumie	NIOC	175	8/10
Shahrud/Gorgan/Gonabad	NIOC	74	8/10
Imam-Taghi/Torbat Haidarieh	NIOC	58	8
Arak/Hamedan	NIOC	112	12
Bandar Abbas/Isfahan	NIOC	620	26/16/14
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	2x364	8
Kuwait			
Shuaiba/Sabhen	KNPC	2x102	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
Nigeria			
System 2A:			
Warri/Benin/Ore/Mosimi	NNPC	219	16/14/12
System 2B:			
Atlas Cove/Mosimi	NNPC	46	16
Mosimi/Ibadan	NNPC	49	12
Ibadan/Ilorin	NNPC	106	6

Product pipelines in OPEC Members, 1999

	Owner or operator	Length (miles)	Diameter (inches)
Nigeria (continued)			
System 2D:			
Kaduna/Kanol/Gusau	NNPC	223	10/6
Kaduna/Jos/Gombe-Maiduguri	NNPC	656	10/12/6
System 2E:			
Port Harcourt/Enugu/Makurdi	NNPC	233	12/6
United Arab Emirates			
UAN Refinery/Ai Ain	ADNOC-FOD	104	12
UAN Refinery/Abu Dhabi airport	ADNOC-FOD	11	10
UAN Refinery/Mussaffah	ADNOC-FOD	2x10	8, 12
Venezuela			
Puerto Ordaz/Morichal	PDVSA	43	10
Carenero/Guatire	PDVSA	45	16
Catia La Mar/Cantinas	PDVSA	2x10	8, 10
Catia La Mar/Maiquetia	PDVSA	2x2	8
La Paz/El Comejen No 1 & 2	PDVSA	2x24	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	2x25	8
El Palito/Yagua	PDVSA	29	16
El Palito/Barquisimeto	PDVSA	94	12
San Joaquin/Jose	PDVSA	70	16, 22
Santa Rosa/Puerto La Cruz	PDVSA	62	6
Complejo/Puerto La Cruz	PDVSA	41	6/12/26
Puerto La Cruz/San Tome	PDVSA	100	16
San Tome/Maturin	PDVSA	99	8
San Tome/Puerto Ordaz	PDVSA	124	12
Puerto Ordaz/Ciudad Bolivar	PDVSA	44	8

Notes: Figures as at year-end.

1. Pipelines for LPG and condensates.

Source: Direct communications to the Secretariat.

Spot OPEC Reference Basket prices, 1990-99
 (\$/b)

	Algeria Saharan Blend 44.1/0.1	Indonesia Minas 33.9/0.1	Nigeria Bonny Light 36.7/0.1	S. Arabia Arab Light 34.2/1.7	UAE Dubai 32.5/1.43	Venezuela T J Light 32.4/1.2	Mexico Isthmus 32.8/1.51	OPEC Reference Basket
1990	24.34	23.25	24.16	20.82	20.38	20.78	22.05	22.26
1991	21.04	19.40	20.55	17.43	16.59	16.87	18.48	18.62
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
1997 Jan	24.18	25.04	24.04	22.58	21.34	21.91	23.21	23.19
Feb	21.80	21.69	21.65	20.03	18.84	19.09	20.29	20.48
Mar	19.66	18.91	19.39	19.11	18.09	17.00	18.35	18.64
Apr	17.95	18.41	17.82	17.87	16.77	16.08	17.32	17.46
May	19.65	18.83	19.60	19.35	18.60	17.01	18.29	18.76
Jun	18.09	17.93	17.95	17.95	17.34	15.83	16.53	17.37
Jul	19.01	18.04	18.95	17.85	17.38	16.49	17.28	17.86
Aug	19.26	18.15	19.04	17.79	17.74	16.75	17.71	18.06
Sep	19.19	17.96	18.89	18.21	18.05	17.08	17.77	18.16
Oct	20.36	20.16	19.98	19.42	19.20	18.63	19.04	19.54
Nov	19.80	19.66	19.36	18.81	18.58	17.75	17.92	18.84
Dec	17.70	17.59	17.34	16.58	16.30	15.96	16.41	16.84
1998 Jan	15.56	14.64	15.25	13.61	13.41	13.95	14.53	14.42
Feb	14.48	13.60	14.11	12.80	12.41	13.05	13.68	13.45
Mar	13.49	12.40	13.14	11.67	11.53	11.95	12.66	12.41
Apr	13.82	13.13	13.51	12.18	12.23	11.93	12.51	12.76
May	14.55	12.54	14.46	12.73	12.75	12.08	12.84	13.14
Jun	12.06	11.87	11.89	11.88	11.80	10.81	11.37	11.67
Jul	12.47	12.74	12.01	11.87	12.11	11.32	11.89	12.06
Aug	12.41	12.00	12.14	12.48	12.25	10.56	11.42	11.89
Sep	13.73	11.69	13.59	13.17	13.08	12.07	13.03	12.91
Oct	12.83	12.59	12.66	12.72	12.69	11.33	12.06	12.41
Nov	11.25	11.54	11.15	11.92	11.96	10.03	10.49	11.19
Dec	10.23	9.89	9.96	9.90	10.11	8.74	9.01	9.69
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

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; Platt's Oilgram.

Spot crude oil prices, 1990-99
(\$/b)

	Algeria Zarzaitine 41.9/0.07	Indonesia Attaka 42.3/0.09	IR Iran		Iraq		Kuwait Kuwait Exp. 31.4/2.6	SP Libyan AJ Brega 40.4/0.2
			Iran Light 33.9/1.4	Iran Heavy 31.0/1.6	Basrah 34.0/2.0	Kirkuk 36.1/2.1		
1990	24.13	23.73	20.64	19.91	na	na	15.06	23.82
1991	20.78	20.73	17.34	16.33	na	na	na	20.41
1992	19.75	20.48	17.77	16.72	na	na	16.85	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
1997 Jan	24.13	25.68	22.26	21.32	20.81	22.18	21.37	23.81
Feb	21.72	22.63	19.81	18.81	18.03	18.61	18.88	21.39
Mar	19.52	21.08	18.89	17.98	17.38	17.34	18.04	19.33
Apr	17.91	19.99	17.69	16.64	16.39	15.97	16.77	17.68
May	19.58	20.14	18.93	18.37	17.47	17.19	18.25	19.30
Jun	18.06	19.31	17.51	17.16	na	na	16.95	17.87
Jul	18.95	18.58	17.25	17.25	na	na	16.93	18.75
Aug	19.22	19.44	17.17	17.51	16.15	16.29	17.09	19.04
Sep	19.17	19.21	17.48	17.86	16.97	16.98	17.55	18.98
Oct	20.31	20.81	18.82	19.27	17.79	17.93	18.72	20.18
Nov	19.75	20.45	18.22	18.65	16.73	17.05	18.19	19.54
Dec	17.64	18.08	16.03	16.17	na	na	15.98	17.53
1998 Jan	15.55	15.42	13.40	12.90	12.86	13.35	12.80	15.45
Feb	14.47	14.63	12.34	11.79	11.54	12.13	11.69	14.29
Mar	13.45	13.07	11.31	10.71	10.95	11.37	10.61	13.34
Apr	13.77	14.25	11.98	11.23	11.13	11.63	10.99	13.64
May	14.49	14.17	12.53	11.78	11.13	11.72	11.55	14.59
Jun	11.91	13.13	11.68	10.97	10.26	9.69	10.73	12.20
Jul	12.46	13.35	11.67	11.17	10.34	9.81	10.97	12.25
Aug	12.36	12.78	12.28	11.66	10.26	9.76	11.33	12.05
Sep	13.65	13.16	12.97	12.63	11.61	11.72	12.39	13.54
Oct	12.76	14.18	12.52	12.22	11.07	10.91	12.01	12.71
Nov	11.22	13.37	11.72	11.37	9.53	9.13	11.24	11.26
Dec	10.13	10.74	9.80	9.51	8.56	8.27	9.31	10.13
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

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: *Platt's Oilgram*; *PIW*.

Spot crude oil prices, 1990-99
 (\$/b)

	Nigeria Forcados 29.5/0.21	Qatar Dukhan 41.4/1.1	Saudi Arabia		UAE Murban 39.4/0.8	Venezuela T J Medium 24.0/1.85	Angola Cabinda 33.0/0.1	Ecuador Oriente 29.2/0.9
			A. Medium 30.3/2.4	Arab Heavy 28.0/3.0				
1990	23.74	21.22	19.50	18.77	21.70	18.58	na	22.14
1991	20.17	17.86	15.77	14.02	18.17	15.83	na	18.64
1992	19.61	18.49	16.40	15.22	18.86	16.03	18.54	18.21
1993	17.44	16.21	14.19	13.03	16.90	14.32	15.74	16.00
1994	16.20	15.82	14.41	13.65	16.21	14.34	14.96	15.41
1995	17.26	16.73	16.09	15.58	17.18	15.91	16.36	16.88
1996	21.21	19.46	19.01	18.44	20.30	19.48	19.99	20.34
1997	19.29	18.99	17.97	17.17	19.59	na	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
1997 Jan	24.16	22.86	21.53	20.68	23.51	20.76	22.75	22.36
Feb	21.64	20.39	18.98	18.13	21.00	19.51	20.28	18.95
Mar	19.06	19.55	18.10	17.25	20.26	17.24	17.73	17.25
Apr	17.44	18.37	16.87	16.02	18.95	15.81	16.20	16.50
May	19.31	19.51	18.35	17.50	20.27	16.33	18.14	17.55
Jun	17.78	18.11	17.05	16.20	18.79	na	16.55	16.03
Jul	18.77	17.83	17.03	16.22	18.53	na	17.45	16.54
Aug	19.03	18.18	17.29	16.59	18.59	na	17.73	16.98
Sep	18.94	18.55	17.81	17.11	19.11	na	17.60	16.89
Oct	19.91	19.66	19.22	18.52	20.28	na	18.98	18.32
Nov	19.34	19.07	18.46	17.76	19.61	na	18.33	17.32
Dec	17.31	16.88	15.98	15.08	17.32	na	16.20	15.40
1998 Jan	15.15	14.02	13.01	12.11	14.12	na	13.88	13.16
Feb	14.04	13.09	12.15	11.10	12.90	na	13.13	12.49
Mar	12.95	12.14	10.82	9.77	11.96	na	12.07	10.94
Apr	13.29	12.85	11.18	10.53	12.70	na	12.50	11.24
May	14.24	13.22	11.88	11.33	13.54	na	13.42	11.11
Jun	11.58	12.49	11.03	10.48	12.48	na	10.86	10.65
Jul	11.75	12.49	11.02	10.47	12.73	na	10.93	11.35
Aug	11.99	12.54	11.91	11.36	12.85	na	10.90	10.84
Sep	13.41	13.04	12.72	12.17	13.58	na	12.42	12.33
Oct	12.65	12.77	12.27	11.82	13.04	na	11.67	11.87
Nov	11.14	12.13	11.42	11.07	12.26	na	10.40	10.33
Dec	9.91	10.38	9.50	9.15	10.41	na	9.08	8.30
1999 Jan	11.13	10.96	9.98	9.53	10.86	na	10.08	9.53
Feb	10.11	10.44	9.65	9.20	10.24	na	11.08	9.31
Mar	12.30	12.59	11.76	11.31	12.62	na	12.08	12.17
Apr	15.20	15.24	14.37	13.72	15.21	na	13.08	14.83
May	15.39	15.82	15.15	14.60	15.94	na	14.08	15.11
Jun	15.68	15.76	14.96	14.51	15.96	na	15.08	15.14
Jul	19.18	18.34	17.30	16.80	18.35	na	16.08	17.66
Aug	20.32	19.98	19.04	18.45	20.06	na	17.08	19.16
Sep	22.84	22.51	21.85	21.30	22.85	na	18.08	22.34
Oct	22.16	22.00	21.68	21.03	22.63	na	19.08	21.04
Nov	24.76	23.70	23.26	22.81	24.36	na	20.08	22.97
Dec	25.82	24.13	24.07	23.70	25.19	na	21.08	23.78

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. T J Medium quotations are posted prices.

Sources: *Platt's Oilgram*; *Weekly Petroleum Argus*.

Spot crude oil prices, 1990-99
(\$/b)

	Gabon	Oman	Egypt	UK		Norway		Mexico
	Mandji 28.8/1.3	Oman 36.3/0.79	Suez Blend 33.0/1.4	Brent 38.0/0.26	Forties 36.6/0.3	Ekofisk 43.0/0.14	Oseberg 33.7/0.31	Maya 22.0/3.32
1990	20.77	20.89	20.76	23.61	23.53	23.78	..	17.33
1991	16.66	17.14	16.87	20.06	20.17	20.34	19.69	13.15
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
1997 Jan	21.71	22.18	21.11	23.41	23.81	23.65	23.83	18.55
Feb	18.86	19.73	18.59	21.01	21.45	21.34	21.36	15.86
Mar	16.64	18.93	16.50	19.11	19.30	19.26	19.14	14.98
Apr	14.57	17.76	14.79	17.55	17.60	17.60	17.49	14.41
May	16.10	19.10	16.46	19.13	19.38	19.28	19.23	15.29
Jun	14.65	17.78	15.11	17.61	17.80	17.71	17.67	14.28
Jul	15.92	17.52	16.42	18.51	18.90	18.76	18.74	14.40
Aug	16.55	17.84	16.68	18.69	19.04	18.91	18.88	15.08
Sep	16.22	18.13	16.68	18.58	18.88	18.75	18.75	14.79
Oct	17.58	19.24	18.04	19.88	20.10	19.95	19.95	15.99
Nov	16.89	18.64	17.68	19.24	19.45	19.30	19.35	14.62
Dec	15.10	16.45	15.81	17.14	17.40	17.30	17.35	11.56
1998 Jan	12.83	13.59	13.03	15.10	15.31	15.24	15.25	9.60
Feb	11.38	12.66	11.65	14.04	14.26	14.08	14.08	9.25
Mar	10.56	11.78	10.62	13.11	13.38	13.18	13.19	8.01
Apr	10.95	12.43	10.88	13.43	13.70	13.54	13.52	9.31
May	11.86	12.71	11.75	14.41	14.35	14.21	14.27	9.57
Jun	9.62	11.96	9.33	12.16	11.80	11.66	11.75	8.65
Jul	10.01	12.01	9.69	12.05	12.04	12.06	12.06	9.11
Aug	10.07	12.11	9.78	11.98	12.16	12.15	12.06	8.33
Sep	11.72	12.65	11.20	13.33	13.47	13.45	13.42	9.67
Oct	11.02	12.15	10.46	12.58	12.40	12.48	12.50	9.59
Nov	9.73	11.46	9.03	11.08	11.06	11.05	11.22	8.04
Dec	8.60	9.78	8.21	9.90	10.16	10.05	10.03	6.10
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

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: *Platt's Oilgram*.

71
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 76
 Spot crude oil prices, 1990-99
 (\$/b)

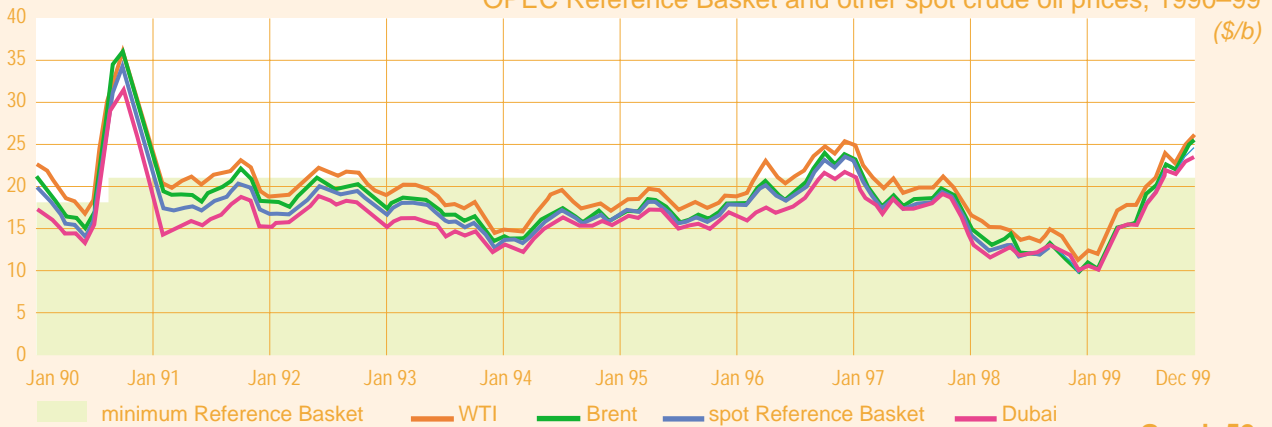
	China	Malaysia	Australia	Colombia	USA	Russia			
	Daqing	Tapis	Miri	Gippsland	Cano Limon	Urals			
	33.0/0.78	44.3/0.2	36.3/0.1	46.0/0.13	30.8/0.47	36.1/2.52			
					WTI	ANS			
					40.0/0.4	27.0/1.06			
1990	23.03	24.07	23.82	23.62	22.46	24.46	21.92	22.54	
1991	19.03	21.23	20.92	20.93	19.18	21.55	18.46	19.02	
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	
1997	Jan	24.86	25.85	25.78	24.70	24.63	25.15	23.60	22.55
	Feb	21.64	23.25	23.35	21.95	21.49	22.40	21.23	20.15
	Mar	19.15	21.96	22.07	20.78	19.76	20.98	20.08	17.96
	Apr	18.39	20.84	20.94	19.68	18.14	19.84	18.64	16.34
	May	18.86	21.16	21.26	19.89	19.48	20.95	19.45	17.95
	Jun	18.01	20.04	20.15	18.88	18.04	19.33	17.38	16.44
	Jul	18.12	19.05	19.17	17.81	18.23	19.65	17.48	17.83
	Aug	18.43	20.14	20.26	19.03	18.55	19.96	18.01	17.83
	Sep	18.10	19.49	19.59	18.42	18.52	19.89	18.21	17.83
	Oct	20.31	21.42	21.51	20.48	19.90	21.25	19.58	19.20
	Nov	19.70	20.99	21.08	20.04	18.89	20.19	18.35	19.13
	Dec	17.66	18.32	18.24	17.96	16.99	18.29	16.38	17.17
1998	Jan	14.81	15.81	15.91	15.30	15.08	16.63	14.78	14.31
	Feb	13.73	15.12	15.22	14.65	14.46	16.15	13.49	13.11
	Mar	12.38	13.43	13.46	13.11	13.16	15.17	12.33	12.17
	Apr	13.14	15.09	15.11	14.41	13.40	15.29	12.39	12.40
	May	12.53	14.52	14.53	14.10	13.13	14.91	12.30	13.00
	Jun	11.83	13.69	13.68	13.38	12.03	13.74	11.70	10.17
	Jul	12.68	13.82	13.82	13.39	12.59	14.05	12.89	11.26
	Aug	12.01	13.16	13.16	12.63	11.98	13.44	12.53	11.56
	Sep	11.82	13.62	13.63	12.98	13.34	14.85	14.00	12.78
	Oct	12.66	14.37	14.37	13.83	12.78	14.36	13.31	11.41
	Nov	11.60	12.97	13.23	12.55	11.38	13.10	11.61	10.46
	Dec	9.77	10.97	10.96	10.43	9.66	11.26	9.36	9.42
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

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: *Platt's Oilgram*.

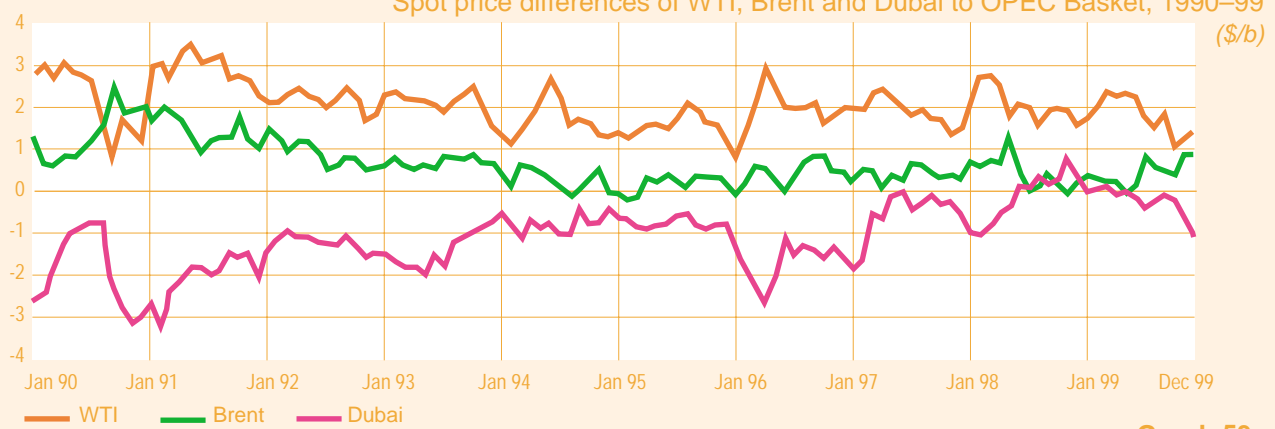
Graph 51:

OPEC Reference Basket and other spot crude oil prices, 1990–99



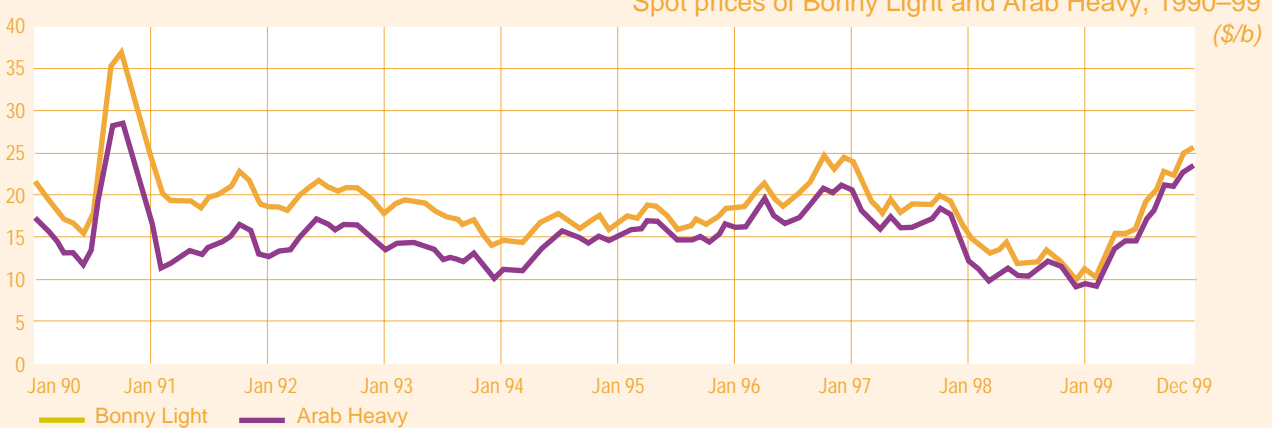
Graph 52:

Spot price differences of WTI, Brent and Dubai to OPEC Basket, 1990–99



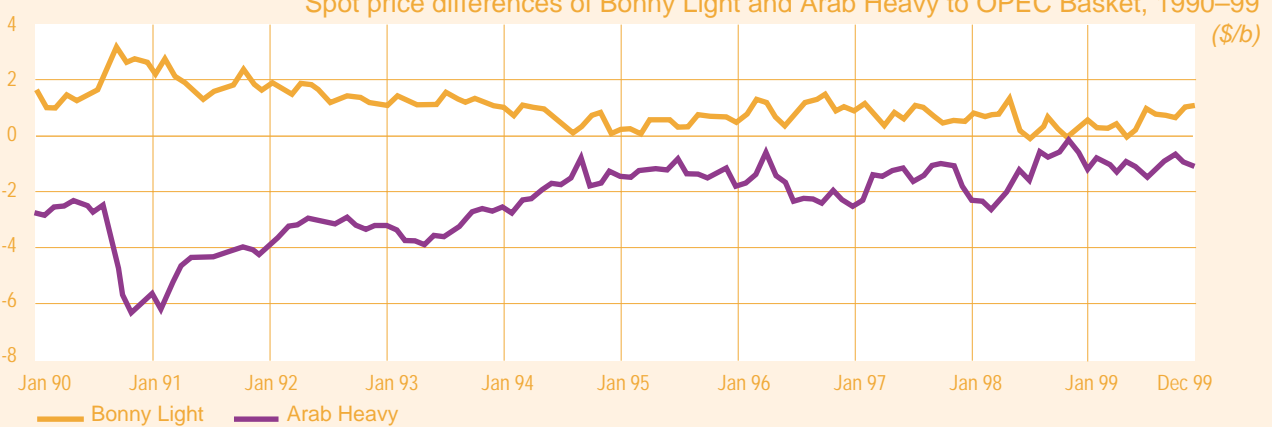
Graph 53:

Spot prices of Bonny Light and Arab Heavy, 1990–99



Graph 54:

Spot price differences of Bonny Light and Arab Heavy to OPEC Basket, 1990–99



Crude oil prices in nominal and real terms, 1970-99
(\$/b)

	Nominal oil price ¹	Exchange rates ²	Nominal price adjusted for:	
			Inflation ³	Combined ⁴
1970	1.67	2.00	1.98	2.36
1971	2.03	2.38	2.29	2.67
1972	2.29	2.48	2.47	2.67
1973	3.05	3.05	3.05	3.05
1974	10.73	11.15	9.45	9.82
1975	10.73	10.95	8.53	8.70
1976	11.51	12.65	8.46	9.31
1977	12.39	13.39	8.42	9.10
1978	12.70	12.39	8.07	7.87
1979	17.25	16.31	10.00	9.46
1980	28.64	27.01	14.75	13.91
1981	32.51	35.08	15.19	16.39
1982	32.38	39.33	14.11	17.13
1983	29.04	37.90	12.06	15.74
1984	28.20	40.38	11.16	15.98
1985	27.01	40.03	10.24	15.18
1986	13.53	16.23	5.02	6.02
1987	17.73	18.91	6.38	6.81
1988	14.24	14.76	4.96	5.13
1989	17.31	18.93	5.75	6.29
1990	22.26	22.34	7.02	7.05
1991	18.62	18.87	5.63	5.71
1992	18.44	18.22	5.40	5.34
1993	16.33	17.84	4.65	5.08
1994	15.53	16.82	4.32	4.68
1995	16.86	17.57	4.57	4.76
1996	20.29	21.25	5.37	5.62
1997	18.68	20.95	4.84	5.42
1998	12.28	13.99	3.13	3.57
1999	17.47	20.25	4.39	5.09

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 Geneva I Agreement and the US vis-a-vis dollar (weights: OPEC imports from Geneva I countries and US).

3. Based on weighted average consumer price indices of Geneva I countries and US (weights: private consumption of 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, 1990-99
(\$/b)

	US Gulf			Singapore			Rotterdam		
	gasoline	gasoil	fuel oil	gasoline	gasoil	fuel oil	gasoline	gasoil	fuel oil
	reg un1 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
1990	29.65	27.63	14.64	32.58	29.32	15.56	31.79	28.08	14.99
1991	26.58	24.43	10.31	28.61	28.30	12.65	27.48	26.54	11.66
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
1997 Jan	28.30	27.62	15.32	26.05	27.95	15.34	25.63	29.07	15.92
Feb	26.21	24.47	12.89	27.37	25.28	14.08	24.45	24.07	14.18
Mar	25.95	22.24	13.27	28.55	27.35	14.20	24.47	22.11	13.12
Apr	24.75	22.15	13.29	25.15	26.85	13.97	22.70	21.72	12.55
May	25.78	22.61	14.23	24.22	25.20	14.33	23.76	22.90	12.44
Jun	23.41	21.23	14.03	23.77	22.87	14.25	22.54	21.59	12.73
Jul	24.89	21.52	14.46	23.36	21.45	14.47	22.52	21.85	13.23
Aug	27.49	22.10	15.72	23.04	22.45	15.18	26.19	22.41	14.19
Sep	24.01	21.79	15.14	23.15	23.16	16.02	24.65	21.92	14.39
Oct	23.22	23.64	16.59	25.21	23.86	16.17	23.27	23.90	15.37
Nov	22.34	22.95	16.19	24.02	23.88	15.43	22.46	23.52	15.89
Dec	20.98	20.32	11.88	20.78	20.52	13.26	20.93	21.17	13.01
1998 Jan	19.51	18.75	9.86	20.04	17.69	9.22	19.44	18.88	10.41
Feb	19.09	18.03	10.35	17.50	17.39	8.23	19.07	18.10	9.83
Mar	18.15	16.91	7.83	17.46	15.99	9.92	17.45	17.07	9.82
Apr	19.69	17.36	11.64	19.06	17.62	11.28	18.39	17.75	11.61
May	20.37	16.60	10.93	20.18	16.12	10.26	18.46	16.96	10.35
Jun	18.64	15.72	10.38	18.34	15.16	8.97	17.83	15.52	9.76
Jul	17.89	15.20	10.60	17.87	14.99	8.82	18.17	15.10	9.47
Aug	15.88	14.20	9.33	15.25	13.79	8.67	16.87	13.69	9.04
Sep	17.14	16.74	9.78	15.39	15.19	11.18	16.67	16.09	9.83
Oct	17.56	16.20	9.90	16.88	15.16	11.92	16.72	15.53	9.98
Nov	14.27	14.30	9.14	14.71	13.68	10.75	15.09	13.82	8.69
Dec	12.67	12.48	6.56	13.56	12.74	9.12	12.82	12.76	7.72
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

Note: US Gulf and Singapore prices apply to cargo, Rotterdam prices to barge size lots.
Source: *Platt's Oilgram*.

Retail prices of refined products in OPEC Members, 1995-99
(units of national currency/b)

	1995	1996	1997	1998	1999
Algeria					
Gasoline	1,629.6	2,543.8	3,020.8 ^f	3,092.3 ^f	3,092.3
Diesel oil	953.9	1,478.6	1,788.6 ^f	1,828.4	1,828.4
Kerosene	607.3	607.3	667.8	683.6 ^f	683.6
Fuel oil	715.4	1,351.4	1,519.9	1,569.6	1,569.6
Indonesia					
Gasoline	111,291.7 ^f	111,291.7 ^f	111,291.7 ^f	143,089.4 ^f	158,988.2
Diesel oil	60,412.4	60,412.4	60,412.4	78,434.2 ^f	87,443.5
Kerosene	44,514.4	44,514.4	44,514.4	44,516.7 ^f	44,516.7
Fuel oil	47,696.5 ^f	47,696.5 ^f	47,696.5 ^f	60,945.5 ^f	67,570.0
IR Iran					
Gasoline	17,488.7 ^f	23,431.5 ^f	28,816.6 ^f	36,169.8 ^f	59,620.6
Diesel oil	2,914.8 ^f	4,423.5 ^f	5,962.1 ^f	8,744.4 ^f	14,308.9
Kerosene	2,914.8 ^f	4,423.5 ^f	5,962.1 ^f	8,744.4 ^f	14,308.9
Fuel oil	1,391.1	2,186.0	2,980.9	4,372.0	7,154.1
Iraq					
Gasoline	31.8	238.5	na	na	na
Diesel oil	15.9	159.0	na	na	na
Kerosene	28.6	79.5	na	na	na
Fuel oil	3.2	15.9	na	na	na
Kuwait					
Gasoline	7.2	7.2	7.2	7.2	8.2
Diesel oil	6.4	6.4	6.4	6.4	7.3
Kerosene	6.4	6.4	6.4	6.4	7.3
Fuel oil	2.9	2.9	2.9	2.9	2.9
SP Libyan AJ					
Gasoline	19.5	19.5	19.5	19.5	21.0
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	1,748.8	1,748.8	3,179.6
Diesel oil	1,430.8	1,430.8	1,430.8	1,430.8	3,020.6
Kerosene	953.9	953.9	953.9	953.9	2,702.7
Fuel oil	1,112.9	1,112.9	1,112.9	1,112.9	1,112.9
Qatar					
Gasoline	91.4	91.4	91.4	95.4	107.3
Diesel oil	87.4	87.4	87.4	89.4	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	95.4	95.4	127.2
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	132.9	132.9	137.5	137.5	137.5
Diesel oil	115.4	115.4	115.4	94.4	94.4
Kerosene	122.4	122.4	122.4	104.9	104.9
Fuel oil	89.6	89.6	89.6	89.6	89.6
Venezuela					
Gasoline	991.0	6,860.3 ^f	8,744.4 ^f	11,129.5 ^f	16,693.1
Diesel oil	715.4	5,902.4 ^f	7,631.4 ^f	7,631.2 ^f	9,198.7
Kerosene	527.5	8,277.4 ^f	11,653.8 ^f	10,765.2 ^f	10,598.5
Fuel oil	573.6	557.8 ^f	1,063.1 ^f	3,590.9 ^f	4,936.6

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

Composite barrel and its components in major consuming countries, 1995-99
(\$/b)

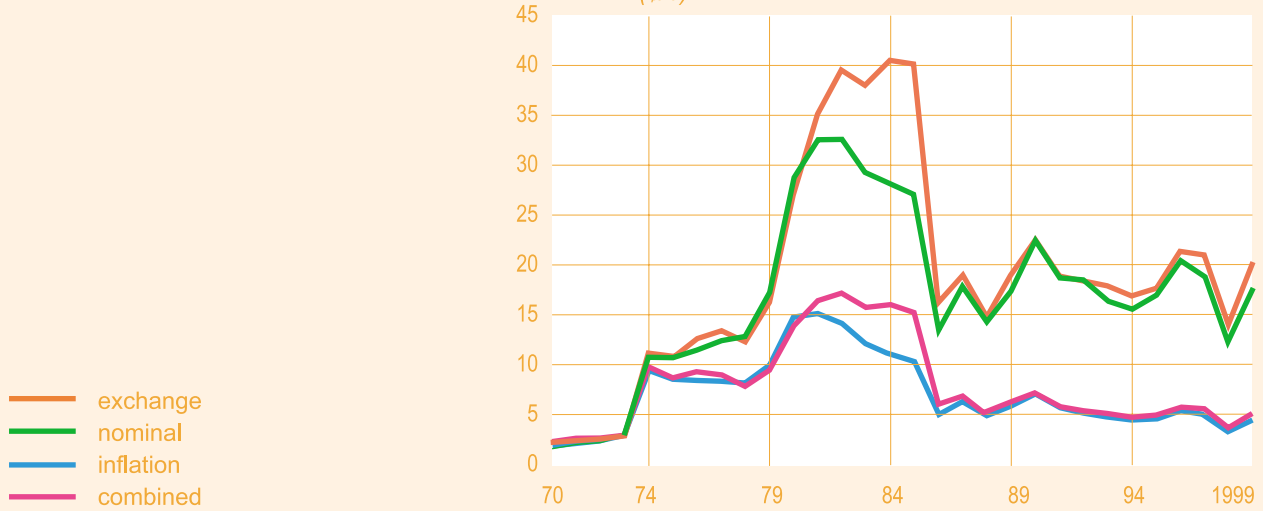
	1995	1996	1997	1998	1999
USA					
Composite barrel	43.2	46.1	46.0	39.9	43.9
Crude cif price	16.8	20.2	18.4	12.0	16.9
Tax	14.3	14.6	14.4	13.5	13.8
Industry margin	12.1	11.3	13.2	14.4	13.2
Canada					
Composite barrel	57.7	60.2	60.6	52.8	56.2
Crude cif price	17.8	21.3	20.6	13.1	17.9
Tax	22.2	22.8	22.8	21.1	21.4
Industry margin	17.7	16.1	17.1	18.5	16.9
Japan					
Composite barrel	115.5	98.6	91.4	80.8	91.9
Crude cif price	18.0	20.6	20.5	13.7	17.5
Tax	43.7	38.0	35.1	32.6	37.3
Industry margin	53.8	40.1	35.9	34.5	37.1
France					
Composite barrel	113.6	120.6	108.9	102.2	103.3
Crude cif price	17.1	20.8	19.0	12.4	17.6
Tax	80.1	83.4	74.6	74.1	72.5
Industry margin	16.4	16.4	15.4	15.7	13.2
Germany					
Composite barrel	103.0	105.2	93.0	83.0	86.8
Crude cif price	17.1	20.7	19.0	12.4	17.6
Tax	66.1	63.5	55.4	52.7	54.5
Industry margin	19.8	21.0	18.6	17.9	14.7
Italy					
Composite barrel	103.1	114.0	104.6	97.9	99.5
Crude cif price	16.9	20.5	18.8	12.2	17.2
Tax	71.4	77.2	70.4	69.2	68.8
Industry margin	14.8	16.3	15.3	16.5	13.5
United Kingdom					
Composite barrel	109.1	112.6	127.1	131.7	141.6
Crude cif price	17.3	21.1	19.3	12.6	18.0
Tax	64.6	69.0	80.1	89.6	95.6
Industry margin	27.1	22.5	27.7	29.4	27.9
European Union					
Composite barrel	102.9	108.2	101.3	94.5	96.9
Crude cif price	17.1	20.7	19.0	12.4	17.6
Tax	66.4	68.3	63.6	64.2	64.7
Industry margin	19.4	19.2	18.7	18.0	14.7
OECD¹					
Composite barrel	74.2	75.2	76.1	72.7	76.5
Crude cif price	17.1	20.5	19.1	12.5	17.5
Tax	36.5	36.5	37.5	35.4	36.3
Industry margin	20.6	18.1	19.6	24.8	22.6

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 1998 and 1999 are estimated. Totals may not add up due to independent rounding.

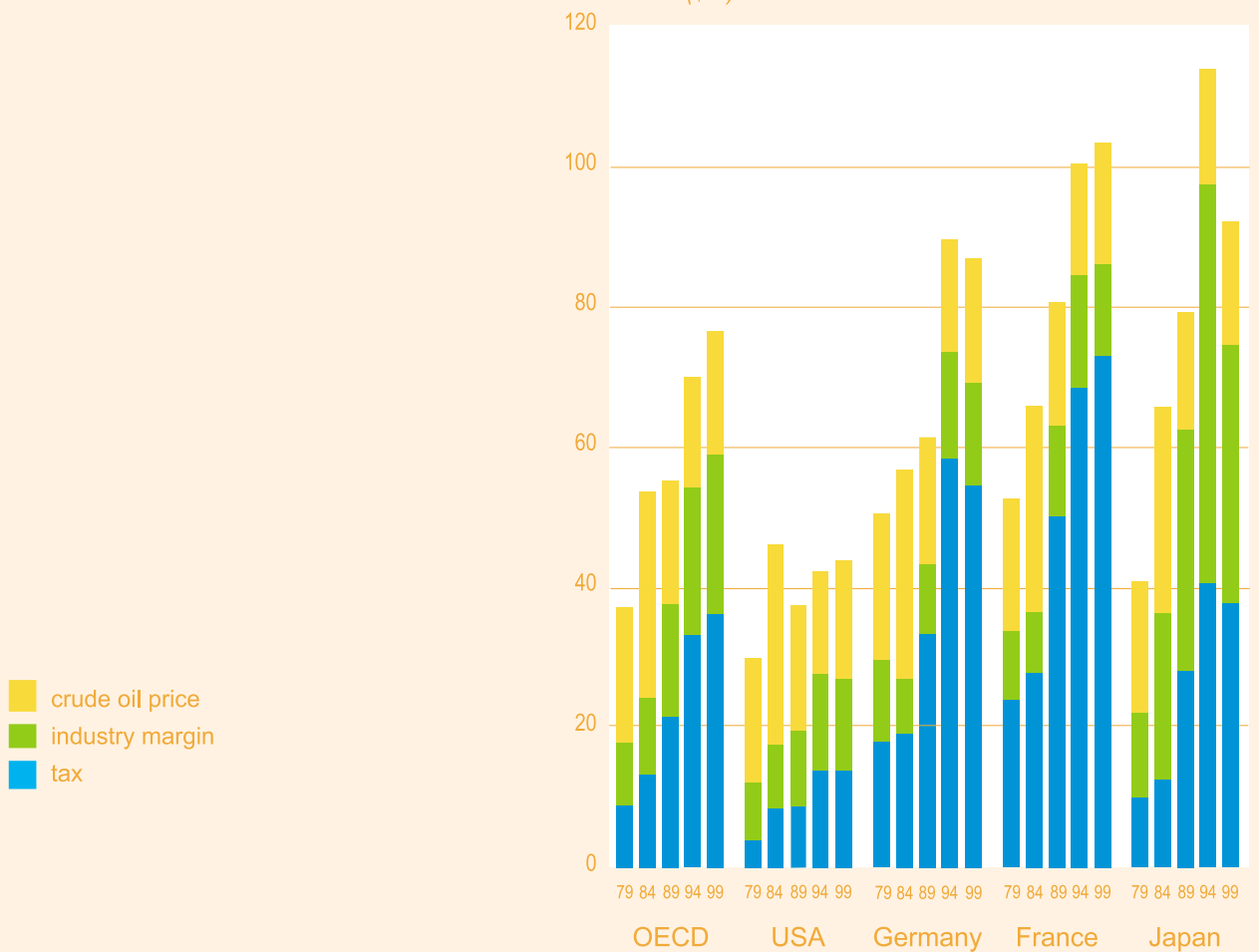
1. OECD countries excluding Australia, New Zealand, Turkey, Iceland.

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

Graph 55:
Crude oil prices in nominal and real terms, 1970–99
(\$/b)



Graph 56:
Composite barrel and its components, 1979–99
(\$/b)



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Principal operations of the major oil companies, 1995-99
(1,000 b/d)

	1995	1996	1997	1998	1999
BP Amoco					
Crude oil and NGL reserves ¹	6,987	7,325	7,612	7,304	6,535
Natural gas reserves ²	29,534	30,349	30,374	31,001	33,802
Crude oil produced	1,873	1,903	1,930	2,049	2,061
Crude oil processed	2,968	2,812	2,867	2,711	2,541
Refined products sold	4,351	4,454	4,674	4,802	5,002
Natural gas sold ³	5,485	5,917	5,858	5,808	6,067
ExxonMobil					
Crude oil and NGL reserves ¹	9,657	10,121	10,279	10,953	11,500
Natural gas reserves ²	60,004	58,605	59,085	58,006	58,000
Crude oil produced	2,536	2,469	2,526	2,502	2,517
Crude oil processed	5,780	5,925	6,234	6,093	5,977
Refined products sold	8,298	8,555	8,773	8,873	8,887
Natural gas sold ³	10,567	11,164	10,894	10,617	10,308
TotalFinaElf					
Crude oil and NGL reserves ¹	2,789	2,818	4,115	4,516	5,233
Natural gas reserves ²	9,428	10,192	17,427	17,479	18,588
Crude oil produced	436	510	1,537	1,502	1,468
Crude oil processed	886	940	2,314	2,570	2,586
Refined products sold ⁴	1,350	1,460	3,100	3,143	3,168
Natural gas sold ³	1,193	1,387	3,304	3,107	3,175
Royal Dutch/Shell					
Crude oil and NGL reserves ¹	8,846	9,435	9,681	10,031	9,775
Natural gas reserves ²	47,607	53,027	56,131	60,462	58,541
Crude oil produced	2,254	2,305	2,328	2,354	2,268
Crude oil processed	3,494	3,771	4,057	3,207	2,289
Refined products sold	5,971	6,316	6,560	5,716	5,366
Natural gas sold ³	7,624	8,354	8,001	7,862	8,218
Chevron					
Crude oil and NGL reserves ¹	4,343	4,364	4,506	4,697	4,784
Natural gas reserves ²	10,070	10,317	9,963	9,303	9,056
Crude oil produced	1,001	1,043	1,074	1,107	1,127
Crude oil processed	1,523	1,488	1,498	1,344	1,424
Refined products sold	2,346	2,289	2,281	2,211	2,384
Natural gas sold ³	3,379	4,366	4,609	4,807	4,936
Texaco					
Crude oil and NGL reserves ¹	2,658	2,704	3,267	3,573	3,480
Natural gas reserves ²	6,095	5,973	6,242	6,517	8,108
Crude oil produced	762	787	833	930	885
Crude oil processed	1,481	1,486	1,551	1,530	1,491
Refined products sold	2,501	2,553	2,585	2,888	3,221
Natural gas sold ³	3,588	3,653	4,176	4,537	3,940
Total majors					
Crude oil and NGL reserves ¹	35,280	36,767	39,460	41,074	41,307
Natural gas reserves ²	162,738	168,463	179,222	182,768	186,095
Crude oil produced	8,862	9,017	10,228	10,444	10,326
Crude oil processed	16,132	16,422	18,521	17,455	16,308
Refined products sold	24,817	25,627	27,973	27,633	28,028
Natural gas sold ³	31,836	34,841	36,842	36,738	36,644

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. 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.

4. From 1997, refining capacity.

Sources: *Oil companies' annual reports.*

Revenue, operating costs, deductions, taxation and net income of the
major oil companies, 1995-99
(m \$)

	1995	1996	1997	1998	1999
BP Amoco					
Revenues ¹	88,051	102,064	108,564	83,732	101,180
Cost of sales ²	82,568	93,036	98,939	77,601	96,020
Income tax (benefit)	1,852	2,783	3,013	1,520	1,880
Special deductions	-	-	-	-	-
Net income (loss)	3,631	6,245	6,612	4,611	3,280
ExxonMobil					
Revenues ³	199,290	215,752	201,746	171,303	186,906
Cost of sales ⁴	184,457	197,725	182,409	159,290	175,756
Income tax (benefit)	5,987	7,553	7,605	3,939	3,240
Special deductions	-	-	-	-	-
Net income (loss)	8,846	10,474	11,732	8,074	7,910
TotalFinaElf⁵					
Revenues ³	27,731	34,004	83,603	68,744	79,991
Cost of sales ²	26,562	32,405	77,547	65,465	73,935
Income tax (benefit)	413	512	3,216	1,266	2,329
Special deductions	-	-	-	-	-
Net income (loss)	756	1,087	2,840	2,013	3,727
Royal Dutch/Shell					
Revenues ³	150,520	171,964	171,657	138,272	149,706
Cost of sales ⁴	138,084	157,259	156,482	136,009	135,426
Income tax (benefit)	5,517	5,819	7,422	1,913	5,696
Special deductions	-	-	-	-	-
Net income (loss)	6,919	8,886	7,753	350	8,584
Chevron					
Revenues	37,082	43,893	41,963	30,557	36,586
Cost of sales ⁴	35,293	39,153	36,461	28,723	32,938
Income tax (benefit)	859	2,133	2,246	495	1,578
Special deductions	-	-	-	-	-
Net income (loss)	930	2,607	3,256	1,339	2,070
Texaco					
Revenues	36,787	45,500	46,667	31,707	35,691
Cost of sales ³	35,922	42,517	43,340	31,056	33,912
Income tax (benefit)	258	965	663	98	602
Special deductions	-	-	-	-25	-
Net income (loss)	607	2,018	2,664	578	1,177
Total majors					
Revenues ¹	539,461	613,177	654,200	524,315	590,060
Cost of sales ²	502,886	562,095	595,178	498,144	547,987
Income tax (benefit)	14,886	19,765	24,165	9,231	15,325
Special deductions	-	-	-	-25	-
Net income (loss)	21,689	31,317	34,857	16,965	26,748

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. 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.

Sources: *Oil companies' annual reports.*

Costs, deductions, taxation and net income as percentage of revenues of the major oil companies, 1995-99

	1995	1996	1997	1998	1999
BP Amoco					
Revenues	100	100	100	100	100
Cost of sales	93.8	91.2	91.1	92.7	94.9
Income tax (benefit)	2.1	2.7	2.8	1.8	1.9
Special deductions	-	-	-	-	-
Net income (loss)	4.1	6.1	6.1	5.5	3.2
ExxonMobil					
Revenues	100	100	100	100	100
Cost of sales	92.6	91.6	90.4	93.0	94.0
Income tax (benefit)	3.0	3.5	3.8	2.3	1.7
Special deductions	-	-	-	-	-
Net income (loss)	4.4	4.9	5.8	4.7	4.2
TotalFinaElf					
Revenues	100	100	100	100	100
Cost of sales	95.8	95.3	92.8	95.2	92.4
Income tax (benefit)	1.5	1.5	3.8	1.8	2.9
Special deductions	-	-	-	-	-
Net income (loss)	2.7	3.2	3.4	2.9	4.7
Royal Dutch/Shell					
Revenues	100	100	100	100	100
Cost of sales	91.7	91.4	91.2	98.4	90.5
Income tax (benefit)	3.7	3.4	4.3	1.4	3.8
Special deductions	-	-	-	-	-
Net income (loss)	4.6	5.2	4.5	0.3	5.7
Chevron					
Revenues	100	100	100	100	100
Cost of sales	95.2	89.2	86.9	94.0	90.0
Income tax (benefit)	2.3	4.9	5.4	1.6	4.3
Special deductions	-	-	-	-	-
Net income (loss)	2.5	5.9	7.8	4.4	5.7
Texaco					
Revenues	100	100	100	100	100
Cost of sales	97.6	93.4	92.9	97.9	95.0
Income tax (benefit)	0.7	2.1	1.4	0.3	1.7
Special deductions	-	-	-	-	-
Net income (loss)	1.7	4.4	5.7	1.8	3.3
Total majors					
Revenues	100	100	100	100	100
Cost of sales	93.2	91.7	91.0	95.0	92.9
Income tax (benefit)	2.8	3.2	3.7	1.8	2.6
Special deductions	-	-	-	-	-
Net income (loss)	4.0	5.1	5.3	3.2	4.5

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, 1995-99
(m \$)

	1995	1996	1997	1998	1999
BP Amoco	8,380	10,288	11,420	10,362	7,345
Exploration ¹	5,261	6,433	7,879	6,318	4,212
Production	na	na	na	na	na
Transportation	na	na	na	na	na
Refining and chemicals ²	1,398	1,964	1,145	1,606	1,215
Marketing ³	1,586	1,731	1,824	1,937	1,634
Others	135	160	572	501	284
ExxonMobil⁴	12,892	15,096	13,021	15,535	13,254
Exploration ¹	6,986	8,863	8,188	9,990	8,325
Production	na	na	na	na	na
Transportation	na	na	na	na	na
Refining and chemicals ²	1,320	1,939	1,323	3,008	2,398
Marketing ⁵	3,404	3,559	2,928	2,537	2,531
Others	1,182	735	582	-	-
TotalFinaElf⁶	2,544	2,808	8,813	9,321	8,613
Exploration ¹	1,294	1,473	5,079	6,108	5,471
Production	na	na	na	na	na
Transportation	na	na	na	na	na
Refining and chemicals ²	382	599	1,303	1,799	1,776
Marketing ³	814	668	2,431	1,414	1,366
Others	54	68	-	-	-
Royal Dutch/Shell	10,965	11,023	12,274	12,859	7,409
Exploration ¹	4,477	4,995	5,724	6,474	4,137
Production	na	na	na	na	na
Transportation	na	na	na	na	na
Refining and chemicals ²	1,243	1,409	2,422	1,491	1,178
Marketing ⁵	4,920	4,344	3,865	4,592	1,808
Others	325	275	263	302	286
Chevron	4,800	4,840	5,541	5,314	6,133
Exploration ¹	2,714	3,022	3,615	3,262	4,637
Production	na	na	na	na	na
Transportation	1,731	1,210	1,122	1,085	995
Refining and chemicals ³	204	497	664	744	501
Marketing ²	na	na	na	na	na
Others	151	111	140	223	na
Texaco	3,128	3,431	5,930	4,019	3,893
Exploration	1,937	2,378	4,452	2,655	2,723
Production	na	na	na	na	na
Transportation	na	na	na	na	na
Refining and chemicals ²	na	na	na	na	na
Marketing	1,140	1,018	1,421	1,148	866
Others ⁷	51	35	57	216	304
Total majors	42,709	47,486	56,999	57,410	46,647
Exploration	22,669	27,164	34,937	34,807	29,505
Production	na	na	na	na	na
Transportation	1,731	1,210	1,122	1,085	995
Refining and chemicals	4,547	6,408	6,857	8,648	7,068
Marketing	11,864	11,320	12,469	11,628	8,205
Others	1,898	1,384	1,614	1,242	874

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. 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.
7. Including investment share in non-subsiary companies.

Sources: *Oil companies' annual reports.*

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