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## Foreword



Welcome to the 2000 edition of the OPEC Annual Statistical Bulletin. As ever, the Organization has devoted considerable time and effort to ensure that this publication, which covers the first year of the new millennium, maintains its reputation as the most comprehensive package of statistical data available on the oil and gas industries of the eleven OPEC Member Countries.

The year 2000 was a significant one in many ways. Not only was it the first year of the new millennium, but September 14, 2000, marked the 40<sup>th</sup> anniversary of the founding of OPEC. Forty years ago, when OPEC was born, nobody predicted that it would last so long or play such an important role in the world economy. Yet, seemingly against all odds, it has done precisely this. All things considered, OPEC's continuing vitality is a truly remarkable achievement that deserves to be applauded.

No less remarkable was the oil market recovery, which began in the spring of 1999 and continued throughout 2000. OPEC increased output on no less than four separate occasions last year, adding a total of around 3.7 million barrels/day of crude to the market (see the table detailing OPEC's production ceilings on pages x-xi). These output increases were aimed at maintaining oil prices in the range of \$22–28/b, a level which is generally considered as being fair and reasonable for both producers and consumers.

The effect that OPEC's output restraint had on oil prices is demonstrated in several tables throughout this book. A glance at **Table 71** shows that the price of the OPEC Reference Basket reached \$27.60 for the year, its highest-ever annual average, while **Table 72** features price movements of various internationally-traded crudes, which remained largely firm throughout the year. As a consequence, OPEC's petroleum revenues reached some \$254 billion in 2000, a level not seen for many years (as shown in **Table 5**).

However, it would be erroneous to think that this increase in revenues represented a financial bonanza for OPEC's Member Countries. A glance at the figures in **Table 2** shows that the average GDP per capita of our Members was a mere \$1,675 last year. And although **Table 7** shows that all eleven Members recorded positive current account balances for the second year running in 2000, one must bear in mind that the challenges of development facing them — especially considering their combined population of more than half a billion people — are still enormous.

There is a saying to the effect that one swallow does not make a summer. In OPEC terms, this means that one or two years of greater oil market stability and fairer prices cannot compensate for or erase all the economic hardship that the Organization's Members had to endure throughout the previous years of lower prices. Now that it has achieved some degree of success in bringing the long sought-after stability to the market, OPEC's determination to continue along this path is greater than ever. The potential for oil market instability remains great, but OPEC is always vigilant and ready to take whatever pro-active measures may be necessary to protect the interests of both producers and consumers.

Finally, to conclude on a personal note, the year 2000 was the final one of my six-year tenure as Secretary General of OPEC. The task of steering the Organization through the reefs and shallows to come now rests upon the broad and very experienced shoulders of my successor, HE Dr Alí Rodríguez Araque of Venezuela. May I wish him and all of OPEC continued success in bringing harmony and stability to the world oil market.

**Rilwanu Lukman**  
**Secretary General**

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

## Economic organizations

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

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

## Abbreviations

### Symbols:

r	Revised.
na	Not available.
–	Nil or negligible.
*	Provisional or estimated figures, as of July 27, 2001.

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

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

	Apr 82– Mar 83 <sup>1</sup>	Apr 83– Oct 84 <sup>2</sup>	Nov 84– Aug 86 <sup>3</sup>	Sep 86– Oct 86 <sup>4</sup>	Nov 86 <sup>5</sup>	Dec 86 <sup>6</sup>	1H87 <sup>7</sup>	2H87 <sup>8</sup>
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
<b>OPEC</b>	<b>17,150</b>	<b>17,150</b>	<b>15,680</b>	<b>15,680</b>	<b>14,580</b>	<b>14,658</b>	<b>15,438</b>	<b>16,220</b>

	1988 <sup>9</sup>	1H89 <sup>10</sup>	3Q89 <sup>11</sup>	4Q89 <sup>12</sup>	Jan 90– Jul 90 <sup>13</sup>	Aug 90– Mar 91 <sup>14</sup>	2Q91– 3Q91 <sup>15</sup>	4Q91, Jan 92 <sup>16</sup>
Algeria	667	695	733	771	827	827	827	na
Indonesia	1,190	1,240	1,307	1,374	1,374	1,374	1,443	na
IR Iran	2,369	2,640	2,783	2,926	3,140	3,140	3,217	na
Iraq	0	2,640	2,783	2,926	3,140	3,140	0	na
Kuwait	996	1,037	1,093	1,149	1,500	1,500	0	na
SP Libyan AJ	996	1,037	1,093	1,149	1,233	1,233	1,425	na
Nigeria	1,301	1,355	1,428	1,501	1,611	1,611	1,840	na
Qatar	299	312	329	346	371	371	399	na
Saudi Arabia	4,343	4,524	4,769	5,014	5,380	5,380	8,034	na
United Arab Emirates	948	988	1,041	1,094	1,095	1,500	2,320	na
Venezuela	1,571	1,636	1,724	1,812	1,945	1,945	2,235	na
<b>OPEC</b>	<b>14,680</b>	<b>18,104</b>	<b>19,083</b>	<b>20,062</b>	<b>21,616</b>	<b>22,021</b>	<b>21,740</b>	<b>23,650<sup>#</sup></b>

	Feb 92– Sep 92 <sup>17</sup>	4Q92 <sup>18</sup>	Jan 93– Feb 93 <sup>19</sup>	Mar 93– Jun 93 <sup>20</sup>	3Q93 <sup>21</sup>	4Q93– 1Q94 <sup>22</sup>	Apr 94– Jun 96 <sup>23</sup>	Jul 96– Dec 97 <sup>24</sup>
Algeria	760	na	764	732	732	750	750	750
Indonesia	1,374	na	1,374	1,317	1,317	1,330	1,330	1,330
IR Iran	3,184	na	3,490	3,340	3,340	3,600	3,600	3,600
Iraq	505	na	500	400	400	400	400	0
Kuwait	812	na	1,500	1,600	1,600	2,000	2,000	2,000
SP Libyan AJ	1,395	na	1,409	1,350	1,350	1,390	1,390	1,390
Nigeria	1,751	na	1,857	1,780	1,780	1,865	1,865	1,865
Qatar	377	na	380	364	364	378	378	378
Saudi Arabia	7,887	na	8,395	8,000	8,000	8,000	8,000	8,000
United Arab Emirates	2,244	na	2,260	2,161	2,161	2,161	2,161	2,161
Venezuela	2,147	na	2,360	2,257	2,257	2,359	2,359	2,359
<b>OPEC</b>	<b>22,436</b>	<b>24,200<sup>#</sup></b>	<b>24,289</b>	<b>23,301</b>	<b>23,301</b>	<b>24,233</b>	<b>24,233</b>	<b>25,033</b>

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

	1Q98 <sup>25</sup>	Apr 98– Jun 98 <sup>26</sup>	Jul 98– Mar 99 <sup>27</sup>	Apr 99– Mar 00 <sup>28</sup>	Apr 00– Jun 00 <sup>29</sup>	Jul 00– Sep00 <sup>30</sup>	Oct 1, 00– Oct 30, 00 <sup>31</sup>	Oct 31, 00 Dec 00 <sup>32</sup>
Algeria	909	50	788	731	788	811	837	853
Indonesia	1,456	70	1,280	1,187	1,280	1,317	1,359	1,385
IR Iran	3,942	140	3,318	3,359	0	3,727	3,844	3,917
Iraq	1,314	0	0	0	0	0	0	0
Kuwait	2,190	125	1,980	1,836	1,980	2,037	2,101	2,141
SP Libyan AJ	1,522	80	1,323	1,227	1,323	1,361	1,404	1,431
Nigeria	2,042	125	2,033	1,885	2,033	2,091	2,157	2,198
Qatar	414	30	640	593	640	658	679	692
Saudi Arabia	8,761	300	8,023	7,438	8,023	8,253	8,512	8,674
United Arab Emirates	2,366	125	2,157	2,000	2,157	2,219	2,289	2,333
Venezuela	2,583	200	2,845	2,720	2,845	2,926	3,019	3,077
<b>OPEC</b>	<b>27,500</b>							
<b>OPEC excl Iraq</b>		<b>1,245</b>	<b>24,387</b>	<b>22,976</b>		<b>25,400</b>	<b>26,200</b>	<b>26,700</b>
<b>OPEC excl Iraq and IR Iran</b>					<b>21,069</b>			

**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.
- 1H88: 82nd Meeting of the OPEC Conference, December 9–14, 1987, with the exception of Iraq. 2H88: 83rd Meeting of the OPEC Conference, June 11–14, 1988, with the exception of Iraq.
- 84th Meeting of the OPEC Conference, November 21–28, 1988.
- 85th Meeting of the OPEC Conference, June 5–7, 1989.
- 2nd Meeting of the Ministerial Monitoring Committee, September 22–27, 1989.
- 86th Meeting of the OPEC Conference, November 25–28, 1989.
- August 1990–December 1990: 87th Meeting of the OPEC Conference, July 26–27, 1990. 1Q91: 88th Meeting of the OPEC Conference, December 12–13, 1990.
- 2Q91: 3rd Meeting of the Ministerial Monitoring Committee, March 11–12, 1991. 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. 1H96: 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.
- 109th Meeting of the OPEC Conference, March 27–29, 2000. Agreement of nine Member Countries.
- 110th (Extraordinary) Meeting of the OPEC Conference, June 21, 2000. Iraq was not called upon to participate in this agreement.
- 111th Meeting of the OPEC Conference, September 10–11, 2000. Iraq was not called upon to participate in this agreement.
- 111th Meeting of the OPEC Conference, September 10–11, 2000. Includes additional 500,000 b/d (price band mechanism) as announced by the OPEC President on October 30, 2000 and effective from October 31, 2000. Iraq was not called upon to participate in this agreement.

# Conversion factors

## Crude oil

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

By country (b/tonne)	1996	1997	1998	1999	2000
Algeria	7.7741	7.7741	7.9448	7.9448	7.9448
Indonesia	7.7600	7.7600	7.2338	7.2338	7.2338
IR Iran	7.3145	7.3145	7.2957	7.2840	7.2840
Iraq	7.4530	7.4530	7.4127	7.4127	7.4127
Kuwait	7.2460	7.2460	7.246	7.2580	7.2580
SP Libyan AJ	7.5876	7.5876	7.5584	7.5584	7.6806
Nigeria	7.3540	7.3540	7.4114	7.4114	7.4114
Qatar	7.6058	7.6058	7.5898	7.6180	7.6180
Saudi Arabia	7.3229	7.3229	7.2843	7.2845	7.2845
United Arab Emirates	7.5964	7.5964	7.5875	7.5532	7.5532
Venezuela	6.9488	6.9580	7.3104	7.1210	7.1270
Average OPEC	7.3671	7.3718	7.3677	7.3464	7.3532

## 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, 1980–2000 (1,000 inhabitants)

	1980	1981	1982	1983	1984	1985	1986
Algeria	18,956	19,564	20,192	20,478	21,084	21,759	22,491
Indonesia	149,012	152,054	155,157	158,324	161,555	164,630	168,350
IR Iran	39,300	40,850	42,313	43,979	45,721	47,541	49,445
Iraq	13,238	13,669	14,110	14,586	15,077	15,585	16,110
Kuwait	1,370	1,430	1,500	1,570	1,640	1,720	1,802
SP Libyan AJ	2,760	2,870	2,990	3,110	3,240	3,370	3,520
Nigeria	71,148	73,409	75,774	78,217	80,699	83,196	85,718
Qatar	230	240	260	310	330	360	390
Saudi Arabia	9,370	9,810	10,250	11,170	11,980	12,649	13,266
United Arab Emirates	1,010	1,100	1,170	1,210	1,310	1,380	1,440
Venezuela	15,020	15,480	15,940	16,390	16,850	17,320	17,530
<b>OPEC</b>	<b>321,414</b>	<b>330,476</b>	<b>339,656</b>	<b>349,344</b>	<b>359,486</b>	<b>369,510</b>	<b>380,062</b>

	1987	1988	1989	1990	1991	1992	1993
Algeria	23,039	23,446	24,465	25,022	25,643	26,271	26,894
Indonesia	172,010	175,590	179,140	179,480	181,390	184,490	187,590
IR Iran	50,648	51,888	53,164	54,484	55,887	57,231	58,668
Iraq	16,659	16,880	17,430	18,080	18,510	18,900	19,260
Kuwait	1,885	1,969	2,055	2,141	1,363	1,422	1,461
SP Libyan AJ	3,670	3,820	3,980	4,150	4,330	4,510	4,700
Nigeria	88,273	90,866	93,505	96,203	98,983	101,884	104,893
Qatar	410	430	460	490	500	530	560
Saudi Arabia	13,912	14,591	15,302	16,048	16,399	16,757	17,123
United Arab Emirates	1,500	1,790	1,860	1,920	1,980	2,040	2,100
Venezuela	17,970	18,160	18,870	19,500	19,970	20,440	20,910
<b>OPEC</b>	<b>389,976</b>	<b>399,430</b>	<b>410,231</b>	<b>417,518</b>	<b>424,955</b>	<b>434,475</b>	<b>444,159</b>

	1994	1995	1996	1997	1998	1999	2000
Algeria	27,496	28,060	28,566	29,045	29,507	30,170	30,610
Indonesia	190,680	194,750	196,810	199,870	204,420	209,260	212,600
IR Iran	60,148	60,557	60,055	60,994	61,900	62,750	63,612
Iraq	19,650	20,090	20,610	21,180	21,800	22,450	23,100
Kuwait	1,620	1,802	1,894	1,980	2,027	2,107	2,189
SP Libyan AJ	4,900	5,410	5,590	5,780	5,340	5,470	5,650
Nigeria	107,900	111,000	114,568	117,897	120,817	123,897	127,056
Qatar	590	550	560	570	540	590	600
Saudi Arabia	17,710	18,250	18,830	19,480	20,180	19,900	20,500
United Arab Emirates	2,160	2,310	2,440	2,570	2,780	2,940	3,030
Venezuela	21,380	21,840	22,310	22,780	23,240	23,710	24,200
<b>OPEC</b>	<b>454,234</b>	<b>464,619</b>	<b>472,233</b>	<b>482,146</b>	<b>492,551</b>	<b>503,244</b>	<b>513,146</b>

Notes: Revisions have been made throughout the time series.

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

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## Area, density and GDP per capita in OPEC Members, 2000

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	Area <sup>1</sup> (1,000 sq km)	Density (inhabitants/sq km)	GDP per capita (\$)
Algeria	2,382	13	1,746
Indonesia	1,904	112	729
IR Iran	1,648	39	2,052
Iraq	438	53	1,286
Kuwait	18	122	17,260
SP Libyan AJ	1,760	3	6,325
Nigeria	924	138	319
Qatar	11	55	24,122
Saudi Arabia	2,150	10	8,360
United Arab Emirates	84	36	23,288
Venezuela <sup>2</sup>	916	26	4,980
<b>OPEC</b>	<b>12,235</b>	<b>42<sup>3</sup></b>	<b>1,675<sup>3</sup></b>

**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, 1980–2000 (m \$)

	1980	1981	1982	1983	1984	1985	1986
Algeria	42,541	44,424	45,120	48,902	52,983	58,087	63,096
Indonesia	72,486	91,841	94,213	87,093	87,638	88,565	88,668
IR Iran	91,639	100,658	123,625	149,726	124,874	166,584	198,248
Iraq	53,586	37,289	42,282	42,129	47,819	49,819	48,457
Kuwait	28,688	25,255	21,586	20,870	21,707	21,446	17,905
SP Libyan AJ	36,756	31,755	31,659	30,170	28,252	27,787	24,089
Nigeria	91,981	82,684	77,172	78,988	83,229	81,080	54,251
Qatar	7,829	8,661	7,597	6,485	6,870	6,153	5,017
Saudi Arabia	156,489	155,144	121,151	107,688	99,716	86,678	73,215
United Arab Emirates	29,618	32,988	30,618	28,030	27,704	27,023	21,574
Venezuela	59,218	66,443	67,854	67,598	60,170	59,869	62,976
<b>OPEC</b>	<b>670,832</b>	<b>677,141</b>	<b>662,877</b>	<b>667,679</b>	<b>640,961</b>	<b>673,092</b>	<b>657,496</b>

	1987	1988	1989	1990	1991	1992	1993
Algeria	64,743	59,337	55,752	62,643	46,678	49,253	50,952
Indonesia	78,207	88,591	101,479	114,289	128,234	139,221	157,963
IR Iran	133,076	122,232	119,597	117,481	119,124	107,335	73,766
Iraq	57,586	64,444	67,640	74,945	10,115	16,806	17,973
Kuwait	22,368	20,690	24,314	18,399	11,011	20,136	24,197
SP Libyan AJ	21,215	23,778	25,168	28,451	31,681	32,581	30,012
Nigeria	27,175	32,401	30,557	32,449	33,265	28,492	21,354
Qatar	5,104	5,717	6,488	7,360	6,884	7,646	7,157
Saudi Arabia	73,552	76,140	82,997	104,671	118,034	123,204	118,516
United Arab Emirates	23,699	23,672	27,268	33,653	33,920	35,413	35,519
Venezuela	46,858	60,379	49,170	48,765	53,615	60,753	60,435
<b>OPEC</b>	<b>553,582</b>	<b>577,381</b>	<b>590,428</b>	<b>643,108</b>	<b>592,560</b>	<b>620,839</b>	<b>597,842</b>

	1994	1995	1996	1997	1998	1999	2000
Algeria	42,425	42,078	46,941	48,225	47,838	48,258	53,435
Indonesia	176,968	202,259	226,874	226,598	99,398	142,077	154,882
IR Iran	105,878	104,763	107,455	100,877	117,861	122,273	130,545
Iraq	17,973	16,777	17,800	15,400	16,400	22,000	29,700
Kuwait	24,995	26,910	31,071	29,867	25,405	29,812	37,783
SP Libyan AJ	29,690	29,735	33,188	34,254	32,252	32,737	35,736
Nigeria	23,663	28,108	35,299	35,788	32,999	34,735	40,575
Qatar	7,374	8,138	9,059	11,298	10,255	12,197	14,473
Saudi Arabia	120,167	127,811	141,322	146,446	128,493	142,862	171,380
United Arab Emirates	36,220	37,080	44,606	49,352	46,481	51,830	70,563
Venezuela	60,882	78,296	73,771	88,811	96,095	103,502	120,510
<b>OPEC</b>	<b>646,236</b>	<b>701,954</b>	<b>767,387</b>	<b>786,917</b>	<b>653,476</b>	<b>742,283</b>	<b>859,582</b>

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

Sources: Direct communications to the Secretariat; IMF, International Financial Statistics, World Economic Outlook database; UN, Statistical Yearbook; EIU, World Outlook 2000, country reports; national sources; Secretariat's estimates.

## OPEC Members' values of exports, 1980–2000 (m \$)

	1980	1981	1982	1983	1984	1985	1986
Algeria	13,871	14,396	13,170	12,703	12,803	12,861	7,433
Indonesia	23,950	25,165	22,328	21,146	21,888	18,587	14,805
IR Iran	12,328	11,821	20,452	21,802	17,087	14,125	7,171
Iraq	26,349	10,140	10,033	8,161	9,317	10,409	7,465
Kuwait	19,842	16,300	10,961	11,574	12,280	10,597	7,251
SP Libyan AJ	21,910	15,571	13,984	12,341	11,148	12,314	8,215
Nigeria	25,934	17,837	12,176	10,363	11,849	13,111	5,083
Qatar	5,680	5,686	4,341	3,357	4,513	3,419	1,849
Saudi Arabia	109,073	119,858	79,081	45,859	37,542	27,481	20,086
United Arab Emirates	21,967	21,792	18,224	15,391	15,990	14,764	10,129
Venezuela	19,221	20,980	16,590	13,937	15,997	14,438	8,660
<b>OPEC</b>	<b>300,125</b>	<b>279,545</b>	<b>221,340</b>	<b>176,634</b>	<b>170,414</b>	<b>152,106</b>	<b>98,146</b>

	1987	1988	1989	1990	1991	1992	1993
Algeria	8,641	7,751	9,503	12,926	12,647	11,439	10,163
Indonesia	17,136	19,219	22,160	25,675	29,142	33,967	36,823
IR Iran	11,716	10,709	13,081	19,305	18,661	19,868	18,080
Iraq	9,705	9,609	12,284	10,314	377	518	457
Kuwait	8,264	7,758	11,476	7,042	1,088	6,572	10,246
SP Libyan AJ	8,043	6,673	8,034	13,225	11,235	9,942	8,590
Nigeria	7,560	6,875	7,871	13,671	12,264	11,886	11,590
Qatar	1,985	2,210	2,738	3,890	3,210	3,841	3,245
Saudi Arabia	23,199	24,376	28,383	44,416	47,697	50,287	42,395
United Arab Emirates	12,765	12,250	17,596	23,544	24,436	24,756	21,250
Venezuela	10,577	10,244	13,286	17,497	15,155	14,185	14,686
<b>OPEC</b>	<b>119,590</b>	<b>117,675</b>	<b>146,412</b>	<b>191,505</b>	<b>175,912</b>	<b>187,260</b>	<b>177,525</b>

	1994	1995	1996	1997	1998	1999	2000*
Algeria	8,899	10,248	13,170	13,680	10,060	12,522	20,008
Indonesia	40,053	45,418	49,814	53,444	48,847	48,665	62,300
IR Iran	19,432	18,360	22,391	18,381	12,993	19,726	29,485
Iraq	453	496	731	4,602	5,500	12,750	20,603
Kuwait	11,260	12,785	14,889	14,224	9,554	12,218	22,691
SP Libyan AJ	8,954	8,975	9,903	9,656	6,659	7,947	13,423
Nigeria	11,269	11,725	16,153	15,213	11,358	12,876	20,644
Qatar	3,213	3,557	4,470	5,581	4,937	6,152	11,527
Saudi Arabia	42,614	50,040	60,729	60,732	38,822	50,761	80,462
United Arab Emirates	26,922	27,753	28,085	34,020	30,750	34,090	46,635
Venezuela	16,089	18,457	23,060	21,624	17,193	20,190	31,802
<b>OPEC</b>	<b>189,158</b>	<b>207,814</b>	<b>243,395</b>	<b>251,155</b>	<b>196,673</b>	<b>237,897</b>	<b>359,580</b>

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

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



## OPEC Members' values of petroleum exports, 1980–2000 (m \$)

	1980	1981	1982	1983	1984	1985	1986
Algeria	12,971	13,066	11,149	9,655	9,778	9,668	5,161
Indonesia	15,595	18,164	15,493	13,558	12,477	9,083	5,501
IR Iran	11,693	10,047	18,690	20,273	15,713	13,012	5,900
Iraq	26,096	10,039	9,933	7,816	8,863	10,097	6,905
Kuwait	18,935	14,229	9,066	10,069	10,996	9,451	6,378
SP Libyan AJ	21,906	14,930	13,692	12,341	10,970	12,132	8,202
Nigeria	24,931	17,291	11,883	9,941	11,534	12,568	4,770
Qatar	5,372	5,496	4,214	2,993	4,386	3,068	1,720
Saudi Arabia	108,175	118,998	78,119	44,830	36,285	25,937	18,061
United Arab Emirates	19,390	18,761	15,956	13,016	12,037	10,896	6,865
Venezuela	17,562	18,609	15,633	13,857	14,824	12,956	7,178
<b>OPEC</b>	<b>282,625</b>	<b>259,629</b>	<b>203,826</b>	<b>158,348</b>	<b>147,863</b>	<b>128,869</b>	<b>76,640</b>

	1987	1988	1989	1990	1991	1992	1993
Algeria	6,555	5,725	6,815	9,588	8,464	7,885	6,902
Indonesia	6,157	5,042	6,062	7,404	6,714	6,619	5,693
IR Iran	9,400	8,419	11,315	16,831	15,276	15,184	12,773
Iraq	9,416	9,312	11,876	9,594	351	482	425
Kuwait	7,523	6,840	10,432	6,385	874	6,221	9,711
SP Libyan AJ	6,293	6,070	6,573	10,715	10,211	9,326	7,689
Nigeria	7,024	6,267	7,470	13,265	11,792	11,642	10,859
Qatar	1,829	1,709	1,955	3,273	2,828	2,870	2,811
Saudi Arabia	20,427	20,205	24,095	40,130	43,701	46,527	38,621
United Arab Emirates	7,900	7,627	10,215	14,846	14,356	14,251	12,118
Venezuela	9,054	8,158	10,001	13,953	12,302	11,336	10,859
<b>OPEC</b>	<b>91,578</b>	<b>85,375</b>	<b>106,809</b>	<b>145,983</b>	<b>126,869</b>	<b>132,343</b>	<b>118,461</b>

	1994	1995	1996	1997	1998	1999	2000*
Algeria	6,335	6,938	8,826	8,352	5,691	7,556	12,920
Indonesia	6,005	6,443	7,879	7,243	4,600	6,580	10,935
IR Iran	13,576	14,973	19,441	15,553	10,048	16,098	25,443
Iraq	421	461	680	4,280	5,111	12,104	18,150
Kuwait	10,459	12,054	14,132	13,468	8,472	10,998	19,200
SP Libyan AJ	7,170	7,763	9,543	8,905	5,612	7,734	13,246
Nigeria	11,040	11,512	14,888	14,391	8,754	12,453	20,040
Qatar	2,623	2,987	3,801	4,655	3,357	4,775	7,834
Saudi Arabia	38,139	43,547	54,272	53,344	32,570	44,934	74,585
United Arab Emirates	11,683	12,822	14,980	15,269	11,131	15,021	26,148
Venezuela	12,292	13,987	19,659	18,140	12,007	16,465	25,598
<b>OPEC</b>	<b>119,742</b>	<b>133,486</b>	<b>168,102</b>	<b>163,599</b>	<b>107,352</b>	<b>154,717</b>	<b>254,100</b>

**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, 1980–2000 (m \$)

	1980	1981	1982	1983	1984	1985	1986
Algeria	10,559	11,303	10,754	10,415	10,293	9,859	9,233
Indonesia	10,834	13,272	16,859	16,352	13,882	10,259	10,718
IR Iran	13,427	16,016	14,345	20,603	16,832	13,721	11,827
Iraq	8,707	20,735	21,534	12,166	11,078	10,556	10,190
Kuwait	6,533	6,969	8,285	7,375	6,896	6,005	5,717
SP Libyan AJ	6,777	8,382	7,175	6,029	6,222	4,101	4,445
Nigeria	16,643	21,049	15,999	12,307	9,393	8,890	4,274
Qatar	1,423	1,518	1,947	1,456	1,162	1,139	1,099
Saudi Arabia	30,162	35,264	40,646	39,195	33,694	23,623	19,114
United Arab Emirates	8,631	9,807	8,762	7,843	6,571	6,537	6,806
Venezuela	11,827	13,106	12,944	8,726	7,774	8,106	8,504
<b>OPEC</b>	<b>125,522</b>	<b>157,420</b>	<b>159,250</b>	<b>142,467</b>	<b>123,797</b>	<b>102,796</b>	<b>91,926</b>

	1987	1988	1989	1990	1991	1992	1993
Algeria	7,071	7,411	9,257	9,833	7,539	8,586	8,206
Indonesia	12,370	13,248	16,360	21,837	25,869	27,280	28,328
IR Iran	13,236	10,608	13,448	18,330	25,190	23,274	19,287
Iraq	7,415	10,268	9,899	6,526	423	603	533
Kuwait	5,495	6,145	6,301	3,972	4,761	7,257	7,038
SP Libyan AJ	4,334	5,869	4,923	5,336	5,361	5,165	5,551
Nigeria	4,465	5,533	4,187	5,627	8,986	8,275	7,508
Qatar	1,134	1,267	1,326	1,695	1,720	2,015	1,891
Saudi Arabia	20,110	21,784	21,153	24,069	29,074	33,254	28,202
United Arab Emirates	7,080	8,522	10,010	11,199	13,746	17,410	19,520
Venezuela	9,659	12,726	7,803	7,335	11,147	14,066	12,511
<b>OPEC</b>	<b>92,368</b>	<b>103,381</b>	<b>104,667</b>	<b>115,758</b>	<b>133,815</b>	<b>147,185</b>	<b>138,575</b>

	1994	1995	1996	1997	1998	1999	2000*
Algeria	9,158	10,400	9,090	8,530	8,810	9,164	9,201
Indonesia	31,983	40,629	42,929	41,680	27,337	24,004	31,700
IR Iran	12,614	12,744	14,989	14,123	13,889	13,511	16,213
Iraq	499	665	950	4,000	4,400	8,130	11,153
Kuwait	6,697	7,790	8,373	8,246	8,619	7,617	8,600
SP Libyan AJ	5,548	5,392	5,873	6,123	5,466	4,334	7,744
Nigeria	7,438	7,912	6,932	10,330	10,002	9,450	11,165
Qatar	1,927	3,398	2,868	3,322	3,409	2,500	3,305
Saudi Arabia	23,343	28,091	27,744	28,732	30,013	28,011	36,937
United Arab Emirates	21,024	20,984	22,638	29,952	24,728	33,128	38,275
Venezuela	9,187	12,650	9,880	14,607	15,818	14,064	17,020
<b>OPEC</b>	<b>129,419</b>	<b>150,654</b>	<b>152,267</b>	<b>169,643</b>	<b>152,490</b>	<b>153,912</b>	<b>191,313</b>

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, 1980–2000 (m \$)

	1980	1981	1982	1983	1984	1985	1986
Algeria	249	90	-183	-85	74	1,015	-2,230
Indonesia	3,011	-566	-5,324	-6,338	-1,856	-1,923	-3,911
IR Iran	-2,438	-3,446	5,733	358	-414	-476	-5,155
Iraq	14,500	-10,600	-11,900	-2,000	-1,730	-3,540	-3,040
Kuwait	15,302	13,699	4,963	5,311	6,428	4,798	5,616
SP Libyan AJ	8,214	-3,964	-1,560	-1,643	-1,457	1,906	-166
Nigeria	5,178	-6,474	-7,282	-4,332	123	2,604	211
Qatar	2,647	2,384	1,124	410	830	549	-189
Saudi Arabia	41,503	39,627	7,575	-16,852	-18,401	-12,932	-11,795
United Arab Emirates	10,069	9,207	7,001	5,257	7,463	6,946	2,370
Venezuela	4,728	4,000	-4,246	4,427	4,651	3,327	-2,245
<b>OPEC</b>	<b>102,962</b>	<b>43,958</b>	<b>-4,098</b>	<b>-15,488</b>	<b>-4,289</b>	<b>2,274</b>	<b>-20,533</b>

	1987	1988	1989	1990	1991	1992	1993
Algeria	141	-2,040	-1,081	1,420	2,367	1,020	362
Indonesia	-2,098	-1,397	-1,108	-2,988	-4,260	-2,780	-2,106
IR Iran	-2,090	-1,869	-191	327	-9,448	-6,504	-4,215
Iraq	2,300	-140	2,850	500	-1,000	-1,500	-250
Kuwait	4,561	4,602	9,136	3,886	-26,479	-450	2,498
SP Libyan AJ	-1,043	-1,826	-1,026	2,201	-219	1,392	-1,362
Nigeria	-73	-296	1,090	4,988	1,203	2,268	-780
Qatar	-132	-261	-4	306	-100	-9	-659
Saudi Arabia	-9,773	-7,340	-9,538	-4,152	-27,546	-17,740	-17,268
United Arab Emirates	4,086	2,533	4,549	5,230	1,634	3,043	4,060
Venezuela	-1,390	-5,809	2,161	8,279	1,736	-3,749	-1,993
<b>OPEC</b>	<b>-5,511</b>	<b>-13,844</b>	<b>6,838</b>	<b>19,998</b>	<b>-62,112</b>	<b>-25,010</b>	<b>-21,713</b>

	1994	1995	1996	1997	1998	1999	2000
Algeria	-1,820	-2,305	1,190	3,210	-920	300	7,322
Indonesia	-2,792	-6,431	-7,663	-4,889	4,096	5,785	7,650
IR Iran	4,950	3,358	5,232	2,213	-1,897	4,726	11,499
Iraq	-229	-402	-523	340	438	773	3,269
Kuwait	3,227	5,016	7,107	7,935	2,215	5,062	14,092
SP Libyan AJ	29	1,998	1,477	1,875	-391	2,136	3,887
Nigeria	-2,128	-2,578	3,507	552	-4,244	506	2,869
Qatar	-502	-2,160	-1,246	-1,679	-455	2,171	3,157
Saudi Arabia	-10,487	-5,325	681	305	-13,150	412	15,500
United Arab Emirates	2,600	4,280	5,300	4,400	-2,900	600	12,570
Venezuela	2,541	2,014	8,914	3,467	-3,253	3,689	13,365
<b>OPEC</b>	<b>-4,611</b>	<b>-2,536</b>	<b>23,976</b>	<b>17,729</b>	<b>-20,460</b>	<b>26,160</b>	<b>95,180</b>

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, 1980–2000  
(units of national currency/\$)

	1980	1981	1982	1983	1984	1985	1986
Algeria	3.837	4.316	4.592	4.789	4.983	5.028	4.702
Indonesia	626.994	631.757	661.421	909.265	1,025.940	1,110.580	1,282.560
IR Iran	70.615	78.328	83.603	86.358	90.030	91.052	78.760
Iraq	0.295	0.295	0.299	0.311	0.311	0.311	0.311
Kuwait	0.270	0.279	0.288	0.291	0.296	0.301	0.291
SP Libyan AJ	0.296	0.296	0.296	0.296	0.296	0.296	0.296
Nigeria	0.547	0.618	0.673	0.724	0.767	0.894	1.755
Qatar	3.657	3.640	3.640	3.640	3.640	3.640	3.640
Saudi Arabia	3.327	3.383	3.428	3.455	3.524	3.622	3.703
United Arab Emirates	3.707	3.671	3.671	3.671	3.671	3.671	3.671
Venezuela	4.293	4.293	4.293	4.297	7.017	7.500	8.083

	1987	1988	1989	1990	1991	1992	1993
Algeria	4.850	5.915	7.609	8.958	18.473	21.836	23.345
Indonesia	1,643.850	1,685.700	1,770.060	1,842.810	1,950.320	2,029.920	2,087.100
IR Iran <sup>1</sup>	144.910	177.970	226.000	304.347	408.587	600.000	1,267.770
Iraq	0.311	0.311	0.311	0.311	0.311	0.311	0.311
Kuwait	0.279	0.279	0.294	0.288	0.284	0.293	0.302
SP Libyan AJ	0.295	0.286	0.300	0.283	0.281	0.285	0.305
Nigeria	4.016	4.537	7.365	8.038	9.909	17.298	22.065
Qatar	3.640	3.640	3.640	3.640	3.640	3.640	3.640
Saudi Arabia	3.745	3.745	3.745	3.745	3.745	3.745	3.745
United Arab Emirates	3.671	3.671	3.671	3.671	3.671	3.671	3.671
Venezuela	14.500	14.500	34.682	46.901	56.816	68.376	90.826

	1994	1995	1996	1997	1998	1999	2000
Algeria	35.059	47.663	54.749	57.707	58.739	66.574	75.260
Indonesia	2,160.750	2,248.610	2,342.300	2,909.380	1,0013.600	7,855.150	8,421.770
IR Iran <sup>1</sup>	1,748.750	1,747.930	1,750.760	1,752.920	1,751.860	1,752.930	1,764.430
Iraq <sup>2</sup>	0.311	0.311	0.311	0.311	0.311	0.311	0.311
Kuwait	0.297	0.298	0.299	0.303	0.305	0.304	0.307
SP Libyan AJ	0.321	0.346	0.362	0.382	0.394	0.464	0.510
Nigeria <sup>3</sup>	21.996	21.895	21.884	21.886	21.886	92.338	101.697
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	3.673	3.673	3.673
Venezuela	148.503	176.842	417.332	488.635	547.556	605.717	679.960

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

- From 1987–92, the rates apply to a trade-weighted average of floating, competitive and basic official exchange rates, as given by the World Bank. In May 1995 a rate of IR 3,000/\$ was introduced applicable to exports.
- The parallel market rate was ID 1,100/\$ in 1995, ID 1,160/\$ in 1996, ID 1,498/\$ in 1997, ID 1,600/\$ in 1998, ID 1,800/\$ in 1999 and ID 1,950/\$ in 2000.
- 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, 1980–2000 (m b)

	1980	1981	1982	1983	1984	1985	1986
Algeria	8,200	8,080	9,440	9,220	9,000	8,820	8,800
Indonesia	11,603	11,018	10,534	10,080	9,611	9,180	9,000
IR Iran	58,296	57,020	56,148	55,257	58,874	59,000	92,860
Iraq	30,000	32,000	59,000	65,000	65,000	65,000	72,000
Kuwait	67,930	67,730	67,150	67,000	92,710	92,464	94,522
SP Libyan AJ	20,330	22,600	22,186	21,784	21,425	21,300	22,800
Nigeria	16,700	16,500	16,750	16,550	16,650	16,600	16,066
Qatar	3,585	3,450	3,425	3,330	4,500	4,500	4,500
Saudi Arabia	168,030	167,850	165,484	168,848	171,710	171,490	169,744
United Arab Emirates	30,410	32,176	32,354	32,340	32,490	32,990	97,203
Venezuela	19,530	19,888	24,900	25,887	28,028	54,454	55,521
<b>OPEC</b>	<b>434,614</b>	<b>438,312</b>	<b>467,371</b>	<b>475,295</b>	<b>509,998</b>	<b>535,798</b>	<b>643,016</b>

	1987	1988	1989	1990	1991	1992	1993
Algeria	8,564	9,200	9,236	9,200	9,200	9,200	9,200
Indonesia	9,000	9,000	5,114	5,415	5,909	5,598	5,167
IR Iran	92,860	92,860	92,860	92,850	92,860	92,860	92,860
Iraq	100,000	100,000	100,000	100,000	100,000	100,000	100,000
Kuwait	94,525	94,525	97,125	97,025	96,500	96,500	96,500
SP Libyan AJ	22,800	22,800	22,800	22,800	22,800	22,800	22,800
Nigeria	15,980	16,000	16,000	17,100	20,000	20,991	20,991
Qatar	4,500	4,500	4,500	2,993	2,993	3,121	3,121
Saudi Arabia	169,585	254,989	260,050	260,342	260,936	261,203	261,355
United Arab Emirates	98,105	98,105	98,105	98,100	98,100	98,100	98,100
Venezuela	58,101	58,505	59,040	60,054	62,649	63,330	64,448
<b>OPEC</b>	<b>674,020</b>	<b>760,484</b>	<b>764,830</b>	<b>765,879</b>	<b>771,947</b>	<b>773,702</b>	<b>774,541</b>

	1994	1995	1996	1997	1998	1999	2000
Algeria	9,979	9,979	10,800	11,200	11,314	11,314	11,314
Indonesia	4,980	4,980	4,980	4,980	4,980	5,201	5,123
IR Iran	94,300	93,700	92,600	92,600	93,700	93,100	99,530
Iraq	100,000	100,000	112,000	112,500	112,500	112,500	112,500
Kuwait	96,500	96,500	96,500	96,500	96,500	96,500	96,500
SP Libyan AJ	22,800	29,500	29,500	29,500	29,500	29,500	36,000
Nigeria	20,991	20,828	20,828	20,828	22,500	29,000	34,458
Qatar	3,500	3,700	3,700	3,700	3,700	3,700	13,157
Saudi Arabia	261,374	261,450	261,444	261,541	261,542	262,784	262,766
United Arab Emirates	98,100	98,100	97,800	97,800	97,800	97,800	97,800
Venezuela	64,877	66,329	72,667	74,931	76,108	76,848	76,848
<b>OPEC</b>	<b>777,400</b>	<b>785,066</b>	<b>802,819</b>	<b>806,080</b>	<b>810,144</b>	<b>818,247</b>	<b>845,996</b>

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

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

## World proven crude oil reserves by region, 1980–2000 (m b)

	1980	1981	1982	1983	1984	1985	1986
North America	39,098	36,850	35,948	35,514	36,218	36,103	35,123
Latin America	74,055	84,106	89,587	90,795	92,922	118,579	119,158
Eastern Europe	65,800	65,695	65,384	65,255	64,662	64,233	62,135
Western Europe	22,761	22,333	21,340	21,985	22,579	22,067	19,822
Middle East	362,910	365,244	388,592	397,053	431,006	431,428	537,184
Africa	52,468	56,354	57,877	57,309	56,255	56,200	57,265
Asia and Pacific	38,971	39,222	39,004	38,722	38,167	38,452	38,349
<b>Total world</b>	<b>656,063</b>	<b>669,804</b>	<b>697,732</b>	<b>706,633</b>	<b>741,808</b>	<b>767,061</b>	<b>869,035</b>
OPEC	434,614	438,312	467,371	475,295	509,998	535,798	643,016
OPEC percentage	66.2	65.4	67.0	67.3	68.8	69.9	74.0

	1987	1988	1989	1990	1991	1992	1993
North America	35,770	35,351	35,877	35,586	33,344	32,091	31,018
Latin America	121,951	121,569	121,070	122,329	125,066	129,760	130,936
Eastern Europe	60,370	59,788	59,592	58,568	58,534	58,953	58,932
Western Europe	17,188	17,846	16,892	16,890	16,950	17,385	17,877
Middle East	566,768	655,830	663,348	662,019	662,461	663,307	663,485
Africa	57,063	57,839	58,792	59,733	62,409	63,855	63,523
Asia and Pacific	38,695	44,488	41,528	42,530	44,040	44,423	43,858
<b>Total world</b>	<b>897,805</b>	<b>992,709</b>	<b>997,099</b>	<b>997,655</b>	<b>1,002,804</b>	<b>1,009,774</b>	<b>1,009,629</b>
OPEC	674,020	760,484	764,830	765,879	771,947	773,702	774,541
OPEC percentage	75.1	76.6	76.7	76.8	77.0	76.6	76.7

	1994	1995	1996	1997	1998	1999	2000
North America	30,334	30,271	30,722	30,652	31,272	29,760	30,491.0
Latin America	131,309	132,473	138,762	140,342	141,909	123,104	124,325.0
Eastern Europe	58,968	58,961	67,366	67,374	67,281	67,260	67,159.7
Western Europe	19,786	20,990	18,540	18,751	18,348	21,478	21,065.6
Middle East	665,766	665,273	675,996	676,755	677,806	678,737	694,606.0
Africa	67,110	74,177	74,776	75,195	76,980	83,504	95,461.9
Asia and Pacific	43,476	43,404	43,428	43,438	44,255	44,387	44,391
<b>Total world</b>	<b>1,016,749</b>	<b>1,025,550</b>	<b>1,049,590</b>	<b>1,052,508</b>	<b>1,057,853</b>	<b>1,048,230</b>	<b>1,077,500</b>
OPEC	777,400	785,066	802,819	806,080	810,144	818,247	845,996
OPEC percentage	76.5	76.6	76.5	76.6	76.6	78.1	78.5

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

## OPEC proven natural gas reserves, 1980–2000 (billion standard cu m)

	1980	1981	1982	1983	1984	1985	1986
Algeria	3,721	3,678	3,613	3,531	3,442	3,349	3,259
Indonesia	822	864	960	1,189	1,699	1,982	2,265
IR Iran	14,101	14,085	14,069	14,045	14,016	13,986	13,955
Iraq	777	773	816	821	818	821	821
Kuwait	1,054	1,046	1,040	1,036	1,038	1,037	1,167
SP Libyan AJ	685	665	653	640	628	626	728
Nigeria	1,161	1,147	1,385	1,370	1,355	1,340	2,400
Qatar	2,800	2,830	3,145	3,400	4,280	4,440	4,440
Saudi Arabia	3,183	3,346	3,432	3,544	3,608	3,687	4,021
United Arab Emirates	2,370	2,529	2,973	3,049	3,108	3,148	5,414
Venezuela	1,262	1,365	1,471	1,562	1,666	1,735	2,622
<b>OPEC</b>	<b>31,937</b>	<b>32,328</b>	<b>33,557</b>	<b>34,188</b>	<b>35,658</b>	<b>36,151</b>	<b>41,092</b>

	1987	1988	1989	1990	1991	1992	1993
Algeria	3,163	3,234	3,250	3,300	3,626	3,650	3,700
Indonesia	2,367	2,561	2,553	2,864	2,803	1,154	1,934
IR Iran	13,922	14,200	17,000	17,003	19,800	20,700	20,700
Iraq	1,000	2,690	3,115	3,107	3,100	3,100	3,100
Kuwait	1,205	1,378	1,400	1,518	1,511	1,495	1,492
SP Libyan AJ	727	827	1,218	1,208	1,309	1,299	1,289
Nigeria	2,407	2,476	2,832	2,840	3,400	3,716	3,683
Qatar	4,440	4,621	4,620	4,615	6,428	6,713	7,070
Saudi Arabia	4,190	5,020	5,218	5,223	5,221	5,249	5,249
United Arab Emirates	5,684	5,663	5,650	5,623	5,793	5,795	5,795
Venezuela	2,838	2,856	2,993	3,429	3,582	3,693	3,693
<b>OPEC</b>	<b>41,943</b>	<b>45,526</b>	<b>49,849</b>	<b>50,729</b>	<b>56,572</b>	<b>56,564</b>	<b>57,705</b>

	1994	1995	1996	1997	1998	1999	2000
Algeria	2,963	3,690	3,700	4,077	4,077	4,523	4,523
Indonesia	3,255	3,500	3,851	3,902	3,650	3,770	3,790
IR Iran	20,764	19,350	23,000	23,000	24,100	22,370	26,600
Iraq	3,115	3,360	3,360	3,188	3,188	3,285	3,285
Kuwait	1,499	1,494	1,489	1,490	1,482	1,482	1,480
SP Libyan AJ	1,310	1,313	1,311	1,315	1,315	1,315	1,325
Nigeria	3,450	3,474	3,475	3,483	3,510	3,568	3,610
Qatar	7,070	8,500	8,500	8,500	10,900	11,157	14,443
Saudi Arabia	5,260	5,545	5,693	5,882	6,068	6,146	6,301
United Arab Emirates	6,777	5,859	5,784	6,063	5,996	5,936	6,060
Venezuela	3,965	4,065	4,052	4,121	4,147	4,152	4,152
<b>OPEC</b>	<b>59,428</b>	<b>60,149</b>	<b>64,215</b>	<b>65,021</b>	<b>68,433</b>	<b>67,704</b>	<b>75,569</b>

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

## World proven natural gas reserves by region, 1980–2000 (billion standard cu m)

	1980	1981	1982	1983	1984	1985	1986
North America	8,132	8,204	8,269	8,261	8,204	8,284	8,209
Latin America	4,597	5,039	5,180	5,280	5,408	5,651	6,545
Eastern Europe	30,872	33,349	35,624	36,489	37,962	40,506	41,548
Western Europe	4,464	5,088	5,018	5,278	5,377	5,358	5,406
Middle East	24,700	25,027	25,907	26,405	27,385	27,704	30,428
Africa	5,872	6,019	6,395	6,383	6,235	6,143	7,379
Asia and Pacific	5,639	5,829	6,175	6,719	7,710	8,313	9,401
<b>Total world</b>	<b>84,276</b>	<b>88,556</b>	<b>92,568</b>	<b>94,814</b>	<b>98,281</b>	<b>101,960</b>	<b>108,915</b>
OPEC	31,937	32,328	33,557	34,188	35,658	36,151	41,092
OPEC percentage	37.9	36.5	36.3	36.1	36.3	35.5	37.7

	1987	1988	1989	1990	1991	1992	1993
North America	8,047	7,451	7,403	7,528	7,456	7,384	7,271
Latin America	7,030	7,104	7,089	7,515	7,637	7,822	7,928
Eastern Europe	42,207	42,974	52,434	54,925	55,755	56,739	56,717
Western Europe	5,353	5,260	5,232	5,402	5,585	5,623	5,388
Middle East	31,193	34,359	37,864	38,014	43,138	44,432	44,940
Africa	7,370	7,684	8,466	8,524	9,603	9,947	10,188
Asia and Pacific	9,717	10,060	10,536	11,020	11,896	11,012	13,109
<b>Total world</b>	<b>110,916</b>	<b>114,890</b>	<b>129,024</b>	<b>132,927</b>	<b>141,071</b>	<b>142,957</b>	<b>145,541</b>
OPEC	41,943	45,526	49,849	50,729	56,572	56,564	57,705
OPEC percentage	37.8	39.6	38.6	38.2	40.1	39.6	39.6

	1994	1995	1996	1997	1998	1999	2000
North America	6,871	6,574	6,643	6,576	6,454	6,454	6,469
Latin America	7,890	7,915	7,985	8,080	8,173	7,357	7,875
Eastern Europe	58,855	58,051	57,313	57,741	57,302	56,664	56,396
Western Europe	5,781	5,843	6,511	7,156	7,147	7,127	7,277
Middle East	46,008	45,635	49,467	49,795	53,406	52,077	59,915
Africa	9,223	9,923	10,171	10,635	10,791	11,528	11,981
Asia and Pacific	14,167	13,290	14,106	14,332	14,198	14,720	14,951
<b>Total world</b>	<b>148,795</b>	<b>147,231</b>	<b>152,196</b>	<b>154,315</b>	<b>157,471</b>	<b>155,926</b>	<b>164,864</b>
OPEC	59,428	60,149	64,215	65,021	68,433	67,704	75,569
OPEC percentage	39.9	40.9	42.2	42.1	43.5	43.4	45.8

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; Cedigaz; OGI; national sources; World Oil; PIW.



## Crude oil production in OPEC Members, 1980–2000 (1,000 b/d)

	1980	1981	1982	1983	1984	1985	1986
Algeria	1,019.9	797.8	704.5	660.9	695.4	672.4	673.9
Indonesia	1,575.7	1,604.2	1,324.8	1,245.3	1,280.1	1,181.5	1,256.8
IR Iran	1,816.6*	1,565.0*	2,420.6*	2,441.7	2,032.4	2,192.3	2,037.1
Iraq	2,646.4	897.4	1,078.4*	1,098.8	1,221.3	1,404.4	1,876.5
Kuwait <sup>1</sup>	1,663.7	1,129.7	824.3	1,054.1	1,163.0	936.3	1,129.0*
SP Libyan AJ	1,831.6	1,217.8	1,136.0	1,121.1*	984.6	999.0*	1,308.0
Nigeria	2,058.0	1,439.6	1,287.0	1,235.5	1,388.0	1,498.9	1,466.6
Qatar	471.4	415.2	332.0	269.0	325.3	288.9*	304.3*
Saudi Arabia <sup>1</sup>	9,900.5	9,808.0	6,483.0	4,539.4	4,079.1	3,175.0	4,784.2
United Arab Emirates	1,701.9	1,502.3	1,248.8	1,149.0	1,069.0	1,012.6*	1,146.0*
Venezuela	2,165.0	2,108.3	1,895.0	1,800.8	1,695.5	1,564.0	1,648.5
<b>OPEC</b>	<b>26,850.7</b>	<b>22,485.3</b>	<b>18,734.4</b>	<b>16,615.6</b>	<b>15,933.7</b>	<b>14,925.2</b>	<b>17,630.9</b>

	1987	1988	1989	1990	1991	1992	1993
Algeria	648.2	672.9*	727.3	783.5	803.0	756.5	747.3
Indonesia	1,158.1	1,168.9*	1,231.0	1,299.3	1,450.0	1,347.7	1,327.3
IR Iran	2,297.6	2,476.3*	2,814.1	3,132.3*	3,401.9*	3,431.6	3,425.2
Iraq	2,358.7	2,744.5*	2,785.8	2,112.7*	281.8*	526.2	659.5
Kuwait <sup>1</sup>	971.6	1,186.3*	1,275.9*	856.5*	190.1*	1,057.2	1,881.8
SP Libyan AJ	972.5	1,021.1*	1,129.2	1,388.5*	1,399.4*	1,432.7	1,361.0
Nigeria	1,323.0	1,340.0*	1,716.3	1,726.7	1,893.1	1,957.0	1,905.2
Qatar	215.6*	233.1*	320.2	405.6	391.2	423.2	390.3
Saudi Arabia <sup>1</sup>	3,975.2	5,090.6*	5,064.5	6,412.5	8,117.8	8,331.7	8,047.7
United Arab Emirates	1,281.1*	1,359.4*	1,641.3*	1,818.5*	2,093.6*	2,241.1*	2,159.3
Venezuela	1,575.5	1,578.1	1,747.4	2,135.2	2,286.2	2,345.6	2,326.0
<b>OPEC</b>	<b>16,776.9</b>	<b>18,871.0</b>	<b>20,452.9</b>	<b>22,071.3</b>	<b>22,308.1</b>	<b>23,850.5</b>	<b>24,230.5</b>

	1994	1995	1996	1997	1998	1999	2000
Algeria	752.5	752.5	805.7	846.1	827.3	749.6	796.0
Indonesia	1,332.8	1,328.4	1,326.7	1,330.4	1,315.4	1,355.5	1,272.5
IR Iran	3,596.0	3,595.0	3,596.0	3,603.4	3,714.0	3,439.0	3,661.3
Iraq	748.7	736.9	740.4	1,383.9	2,181.1	2,719.8*	2,810.0*
Kuwait <sup>1</sup>	2,006.6	2,006.6	2,005.6	2,007.1	2,051.5	1,872.7	1,996.1
SP Libyan AJ	1,389.8	1,399.0	1,394.0	1,395.8	1,449.0*	1,287.2*	1,347.2
Nigeria	1,820.9	1,842.6	1,863.1	1,876.7	1,939.0*	1,781.5	2,053.6
Qatar	378.7	389.8	393.1	405.0	618.1	608.5	648.2
Saudi Arabia <sup>1</sup>	8,049.0	8,023.4	8,102.3	8,011.7	8,280.2	7,564.7	8,094.5
United Arab Emirates	2,166.5	2,148.0	2,161.3	2,160.7	2,244.1	2,048.8	2,174.7
Venezuela	2,367.9	2,378.5	2,381.0	2,411.0	3,120.0	2,800.4	2,891.0
<b>OPEC</b>	<b>24,609.4</b>	<b>24,600.8</b>	<b>24,769.2</b>	<b>25,431.8</b>	<b>27,739.7</b>	<b>26,227.8</b>	<b>27,745.0</b>

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, 1980–2000 (1,000 b/d)

	1980	1981	1982	1983	1984	1985	1986
North America	9,891.7	9,683.8	9,729.6	9,888.4	10,118.2	10,207.7	9,866.2
Latin America	5,569.0	5,945.9	6,226.2	6,101.2	6,161.1	6,082.7	6,041.9
Eastern Europe	12,388.6	12,528.9	12,636.3	12,699.5	12,605.9	11,986.3	12,309.1
Western Europe	2,520.2	2,736.4	2,984.3	3,381.4	3,689.7	3,878.2	3,988.5
Middle East	18,694.4	15,858.5	12,929.7	11,149.8	10,518.3	9,727.7	12,073.7
Africa	6,061.1	4,642.2	4,403.2	4,442.5	4,609.0	4,872.4	5,149.5
Asia and Pacific	4,924.3	4,848.8	4,619.2	4,797.2	5,253.1	5,547.1	5,761.4
<b>Total world</b>	<b>60,049.3</b>	<b>56,244.6</b>	<b>53,528.4</b>	<b>52,460.0</b>	<b>52,955.3</b>	<b>52,302.1</b>	<b>55,190.2</b>
OPEC	26,850.7	22,485.3	18,734.4	16,615.6	15,933.7	14,925.2	17,630.9
OPEC percentage	44.7	40.0	35.0	31.7	30.1	28.5	31.9

	1987	1988	1989	1990	1991	1992	1993
North America	9,558.9	9,417.3	8,855.1	8,518.1	8,552.9	8,413.7	8,150.8
Latin America	6,053.4	6,103.0	6,334.3	6,861.0	7,140.7	7,271.4	7,352.8
Eastern Europe	12,448.4	12,367.7	12,037.7	11,275.9	10,140.6	8,844.5	7,922.2
Western Europe	4,076.8	4,062.6	3,862.7	4,068.8	4,299.5	4,591.9	4,867.1
Middle East	11,955.4	14,175.2	15,180.3	16,127.8	15,953.3	17,568.5	18,264.5
Africa	4,789.0	4,946.4	5,541.6	5,960.9	6,205.6	6,324.7	6,166.9
Asia and Pacific	5,758.8	5,876.5	6,022.7	6,289.2	6,439.1	6,388.3	6,477.9
<b>Total world</b>	<b>54,640.8</b>	<b>56,948.8</b>	<b>57,834.4</b>	<b>59,101.7</b>	<b>58,731.8</b>	<b>59,403.1</b>	<b>59,202.2</b>
OPEC	16,776.9	18,871.0	20,452.9	22,071.3	22,308.1	23,850.5	24,230.5
OPEC percentage	30.7	33.1	35.4	37.3	38.0	40.2	40.9

	1994	1995	1996	1997	1998	1999	2000
North America	8,011.2	7,939.1	7,857.4	7,869.5	7,623.1	7,234.5	7,233.0
Latin America	7,555.6	7,731.8	8,162.7	8,481.6	9,477.1	9,128.4	9,295.2
Eastern Europe	7,168.6	7,050.3	6,930.8	7,093.0	7,083.3	7,212.0	7,629.6
Western Europe	5,585.0	5,743.9	6,081.4	6,130.3	6,055.2	6,096.7	6,238.4
Middle East	18,808.5	18,856.3	19,019.3	19,606.6	21,108.5	20,279.9	21,437.2
Africa	6,121.2	6,199.5	6,416.7	6,589.8	6,708.6	6,348.5	6,771.5
Asia and Pacific	6,695.6	6,805.0	6,965.4	7,082.9	6,957.2	7,068.1	7,220.1
<b>Total world</b>	<b>59,945.7</b>	<b>60,325.8</b>	<b>61,433.7</b>	<b>62,853.7</b>	<b>65,012.9</b>	<b>63,368.1</b>	<b>65,824.9</b>
OPEC	24,609.4	24,600.8	24,769.2	25,431.8	27,739.7	26,227.8	27,745.0
OPEC percentage	41.1	40.8	40.3	40.5	42.7	41.4	42.1

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, 1980–2000 (million standard cu m)

	1980	1981	1982	1983	1984	1985	1986
Algeria	11,647	21,862	26,686	36,267	35,039	36,470	37,560
Indonesia	18,503	18,775	19,076	21,992	32,969	33,905	35,374
IR Iran	7,138	5,950	7,200	11,000	13,500	14,600	15,200
Iraq	1,281	620	680	470	590	850	1,550
Kuwait	4,071	4,684	3,675	4,035	4,376	4,200	5,730
SP Libyan AJ	5,170	3,150	3,350	3,710	4,600	5,200	5,600
Nigeria	1,070	2,155	1,413	2,298	2,051	2,800	3,299
Qatar	4,741	4,323	5,055	5,235	5,930	5,460	5,800
Saudi Arabia	11,431	22,245	8,950	4,380	18,200	18,800	25,200
United Arab Emirates	6,863	9,075	8,320	8,400	11,060	13,210	15,220
Venezuela	14,805	14,886	15,883	15,640	17,300	17,326	19,074
<b>OPEC</b>	<b>86,720</b>	<b>107,725</b>	<b>100,288</b>	<b>113,427</b>	<b>145,615</b>	<b>152,821</b>	<b>169,607</b>

	1987	1988	1989	1990	1991	1992	1993
Algeria	43,170	46,290	48,400	51,600	53,910	53,246	53,872
Indonesia	36,550	38,510	43,234	47,580	51,370	54,190	55,860
IR Iran	16,000	20,000	22,200	24,200	32,200	35,100	36,900
Iraq	3,750	5,600	6,450	3,980	1,740	2,270	2,550
Kuwait	4,780	6,840	8,160	4,190	500	2,620	5,420
SP Libyan AJ	5,000	5,500	6,800	6,200	6,540	6,770	6,360
Nigeria	3,493	3,770	4,322	4,010	4,400	4,421	5,050
Qatar	5,610	5,860	6,200	6,300	7,630	12,620	13,500
Saudi Arabia	26,800	29,100	29,800	33,520	35,170	38,250	40,040
United Arab Emirates	18,890	19,360	22,380	22,110	25,810	22,170	22,990
Venezuela	18,587	19,028	19,538	21,966	21,902	21,617	25,613
<b>OPEC</b>	<b>182,630</b>	<b>199,858</b>	<b>217,484</b>	<b>225,656</b>	<b>241,172</b>	<b>253,274</b>	<b>268,155</b>

	1994	1995	1996	1997	1998	1999	2000
Algeria	51,157	62,301	67,114	75,730	80,876	85,848	88,617
Indonesia	63,473	63,360	66,660	67,150	64,250	70,960	68,365
IR Iran	40,400	38,600	40,410	47,000	50,000	56,755	60,147
Iraq	3,170	3,170	3,240	3,050	2,950	3,180	3,150
Kuwait	5,970	9,278	9,302	9,270	9,491	8,688	9,600
SP Libyan AJ	6,390	6,340	6,420	6,570	6,360	5,200	6,000
Nigeria	4,550	4,844	5,460	5,850	5,900	6,950	12,460
Qatar	13,500	13,500	13,700	17,400	19,580	22,050	29,100
Saudi Arabia	42,770	42,930	44,510	45,840	46,720	46,200	49,810
United Arab Emirates	25,820	31,320	33,800	36,310	37,070	38,990	39,840
Venezuela	24,675	25,200	29,730	30,211	31,440	26,771	27,801
<b>OPEC</b>	<b>281,875</b>	<b>300,843</b>	<b>320,346</b>	<b>344,381</b>	<b>354,637</b>	<b>371,592</b>	<b>394,890</b>

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

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

## World marketed production of natural gas by region, 1980–2000 (million standard cu m)

	1980	1981	1982	1983	1984	1985	1986
North America	620,888	613,645	579,058	527,184	572,803	550,086	533,375
Latin America	63,692	65,556	69,866	75,865	76,961	74,024	76,554
Eastern Europe	426,049	515,060	554,240	586,270	634,810	696,610	738,070
Western Europe	189,428	196,320	184,454	194,171	198,920	206,116	201,735
Middle East	40,936	52,806	40,750	37,770	58,656	63,860	76,070
Africa	20,197	29,489	35,060	46,344	46,632	50,361	53,140
Asia and Pacific	77,724	78,059	83,696	91,392	108,419	118,095	127,414
<b>Total world</b>	<b>1,438,914</b>	<b>1,550,935</b>	<b>1,547,124</b>	<b>1,558,996</b>	<b>1,697,201</b>	<b>1,759,152</b>	<b>1,806,358</b>
OPEC	86,720	107,725	100,288	113,427	145,615	152,821	169,607
OPEC percentage	6.0	6.9	6.5	7.3	8.6	8.7	9.4

	1987	1988	1989	1990	1991	1992	1993
North America	555,588	582,498	595,216	611,194	616,016	633,128	651,464
Latin America	76,067	79,578	81,798	85,696	85,642	82,317	93,043
Eastern Europe	777,380	816,670	841,010	852,500	844,990	803,100	791,430
Western Europe	212,750	200,560	205,110	203,850	216,240	219,600	231,280
Middle East	83,830	94,530	106,180	105,740	115,040	126,510	135,910
Africa	58,949	63,510	68,202	70,890	74,890	75,387	79,452
Asia and Pacific	127,240	133,450	143,964	151,170	164,300	175,970	183,810
<b>Total world</b>	<b>1,891,804</b>	<b>1,970,796</b>	<b>2,041,480</b>	<b>2,081,040</b>	<b>2,117,118</b>	<b>2,116,012</b>	<b>2,166,389</b>
OPEC	182,630	199,858	217,484	225,656	241,172	253,274	268,155
OPEC percentage	9.7	10.1	10.7	10.8	11.4	12.0	12.4

	1994	1995	1996	1997	1998	1999	2000
North America	682,075	685,328	697,549	700,829	700,054	704,690	723,465
Latin America	94,765	99,630	109,950	114,471	122,670	125,251	132,451
Eastern Europe	748,930	734,800	740,350	694,510	714,320	726,720	744,500
Western Europe	233,820	241,800	278,990	271,960	271,640	277,020	281,170
Middle East	146,480	152,708	159,962	178,680	187,161	196,193	215,727
Africa	77,077	88,975	96,174	106,410	111,876	118,138	130,847
Asia and Pacific	201,133	210,470	227,740	239,190	241,880	258,390	269,275
<b>Total world</b>	<b>2,184,280</b>	<b>2,213,711</b>	<b>2,310,715</b>	<b>2,306,050</b>	<b>2,349,601</b>	<b>2,406,402</b>	<b>2,497,435</b>
OPEC	281,875	300,843	320,346	344,381	354,637	371,592	394,890
OPEC percentage	12.9	13.6	13.9	14.9	15.1	15.4	15.8

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, 1980–2000 (1,000 b/d)

	1980	1981	1982	1983	1984	1985	1986
Algeria	471.2	471.2	471.2	471.2	471.2	471.2	471.2
Indonesia	473.4	473.4	473.4	837.0	837.0	837.0	738.7
IR Iran	1,320.0	1,320.0	670.0	670.0	615.0	615.0	615.0
Iraq	305.5	305.5	215.5	365.5	365.5	365.5	365.5
Kuwait	594.0	594.0	594.0	564.0	564.0	564.0	614.0
SP Libyan AJ	117.0	117.0	117.0	117.0	315.0	333.0	342.0
Nigeria	234.0	234.0	234.0	234.0	234.0	234.0	243.0
Qatar	10.5	10.5	13.0	63.0	63.0	63.0	63.0
Saudi Arabia	645.0	765.0	765.0	935.0	1,190.0	1,440.0	1,440.0
United Arab Emirates	15.0	135.0	135.0	180.0	180.0	180.0	180.0
Venezuela	1,444.9	1,444.9	1,323.1	1,323.1	1,224.2	1,229.2	1,224.2
<b>OPEC</b>	<b>5,630.5</b>	<b>5,870.5</b>	<b>5,011.2</b>	<b>5,759.8</b>	<b>6,058.9</b>	<b>6,331.9</b>	<b>6,296.6</b>

	1987	1988	1989	1990	1991	1992	1993
Algeria	471.2	471.2	474.5	474.5	474.5	474.5	474.5
Indonesia	738.7	738.7	751.3	751.3	782.8	782.8	782.8
IR Iran	615.0	615.0	777.0	777.0	957.0	957.0	1,092.0
Iraq	365.5	365.5	550.0	550.0	550.0 <sup>1</sup>	550.0 <sup>1</sup>	595.0
Kuwait	670.0	670.0	670.0	670.0	670.0 <sup>1</sup>	670.0 <sup>1</sup>	670.0 <sup>1</sup>
SP Libyan AJ	342.0	342.0	342.0	342.0	342.0	342.0	342.0
Nigeria	265.5	265.5	400.5	400.5	400.5	400.5	400.5
Qatar	63.0	63.0	63.0	63.0	63.0	63.0	63.0
Saudi Arabia	1,425.0	1,425.0	1,750.0	1,750.0	1,750.0	1,550.0	1,550.0
United Arab Emirates	180.0	180.0	180.0	192.5	192.5	192.5	205.0
Venezuela	1,258.1	1,201.1	1,167.0	1,224.0	1,224.0	1,224.0	1,181.0
<b>OPEC</b>	<b>6,394.0</b>	<b>6,337.0</b>	<b>7,125.3</b>	<b>7,194.8</b>	<b>7,406.3</b>	<b>7,206.3</b>	<b>7,355.8</b>

	1994	1995	1996	1997	1998	1999	2000
Algeria	468.6	462.2	462.2	462.2	462.2	462.2	487.0
Indonesia	895.3	891.2	891.2	891.2	929.7	929.7	1,057.0
IR Iran	1,092.0	1,092.0	1,092.0	1,208.0	1,524.0	1,524.0	1,474.0
Iraq	603.0	603.0	603.0	603.0	603.0	603.0	603.0
Kuwait	820.0	820.0	797.0	874.5	829.6	899.0	899.0
SP Libyan AJ	342.0	342.0	342.0	342.0	342.0	342.0	380.0
Nigeria	400.5	424.0	424.0	424.0	424.0	424.0	445.0
Qatar	63.0	63.0	63.0	63.0	63.0	63.0	63.0
Saudi Arabia	1,670.0	1,670.0	1,670.0	1,693.0	1,780.0	1,810.0	1,825.0
United Arab Emirates	205.0	211.0	246.0	291.0	291.0	411.0	420.0
Venezuela	1,181.0	1,181.0	1,183.2	1,183.2	1,200.3	1,188.4	1,183.2
<b>OPEC</b>	<b>7,740.4</b>	<b>7,759.4</b>	<b>7,773.6</b>	<b>8,035.1</b>	<b>8,448.8</b>	<b>8,656.3</b>	<b>8,836.2</b>

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, 1980–2000 (1,000 b/cd)

	1980	1981	1982	1983	1984	1985	1986
North America	20,633.7	20,053.2	19,004.2	18,031.3	17,589.3	17,382.6	17,325.2
Latin America	8,668.6	8,623.5	8,136.2	8,014.9	7,433.1	7,426.2	7,088.3
Eastern Europe <sup>1</sup>	13,508.5	13,708.5	13,858.5	14,108.5	14,038.5	14,038.5	14,298.5
Western Europe	21,066.5	20,576.9	18,359.4	17,332.1	16,755.9	15,303.6	14,881.8
Middle East	3,865.0	4,109.6	3,422.2	3,748.4	3,979.4	4,227.9	4,301.4
Africa	2,220.5	2,186.2	2,278.0	2,324.6	2,539.7	2,603.4	2,612.4
Asia and Pacific	12,377.7	12,609.8	12,969.7	12,547.2	12,445.5	12,372.6	12,540.7
<b>Total world</b>	<b>82,340.5</b>	<b>81,867.8</b>	<b>78,028.2</b>	<b>76,106.9</b>	<b>74,781.4</b>	<b>73,354.8</b>	<b>73,048.3</b>
OPEC	5,630.5	5,870.5	5,011.2	5,759.8	6,058.9	6,331.9	6,296.6
OPEC percentage	6.8	7.2	6.4	7.6	8.1	8.6	8.6

	1987	1988	1989	1990	1991	1992	1993
North America	17,784.3	17,510.7	17,423.8	17,557.7	17,705.1	17,037.5	16,988.9
Latin America	7,427.3	7,357.5	7,564.0	7,765.7	7,538.9	7,604.8	7,443.6
Eastern Europe <sup>1</sup>	14,277.0	14,317.0	14,317.0	12,255.1	12,202.7	12,204.5	12,183.9
Western Europe	15,205.2	14,937.8	14,734.6	14,833.0	14,973.5	15,055.7	14,887.0
Middle East	4,371.2	4,377.7	5,049.2	5,055.8	5,266.9	5,079.9	5,260.1
Africa	2,658.3	2,651.5	2,790.8	2,826.4	2,820.2	2,818.8	2,746.1
Asia and Pacific	12,392.9	12,254.6	12,399.0	12,849.1	13,207.4	14,129.8	14,426.2
<b>Total world</b>	<b>74,116.2</b>	<b>73,406.7</b>	<b>74,278.4</b>	<b>73,142.8</b>	<b>73,714.6</b>	<b>73,930.9</b>	<b>73,935.8</b>
OPEC	6,394.0	6,337.0	7,125.3	7,194.8	7,406.3	7,206.3	7,355.8
OPEC percentage	8.6	8.6	9.6	9.8	10.0	9.7	9.9

	1994	1995	1996	1997	1998	1999	2000
North America	17,418.5	17,359.2	17,324.4	17,627.6	17,802.7	18,452.6	18,444.8
Latin America	7,387.6	7,447.2	7,457.9	7,922.6	7,606.3	7,664.6	7,826.7
Eastern Europe <sup>1</sup>	12,305.2	12,193.9	12,125.4	11,976.2	11,294.4	11,317.3	9,972.2
Western Europe	14,757.8	14,698.9	14,672.2	14,864.4	15,065.0	14,929.2	14,982.5
Middle East	5,559.1	5,565.1	5,528.3	5,781.0	6,134.5	6,353.9	6,337.9
Africa	2,780.9	2,795.9	2,833.3	2,888.3	2,944.5	2,982.5	3,282.5
Asia and Pacific	14,992.1	15,905.8	16,604.3	16,866.6	18,681.8	19,491.0	20,129.8
<b>Total world</b>	<b>75,201.2</b>	<b>75,966.0</b>	<b>76,545.7</b>	<b>77,926.8</b>	<b>79,529.2</b>	<b>81,191.1</b>	<b>80,976.4</b>
OPEC	7,740.4	7,759.4	7,773.6	8,035.1	8,448.8	8,656.3	8,836.2
OPEC percentage	10.3	10.2	10.2	10.3	10.6	10.7	11.0

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

## Output of refined products in OPEC Members, 1980–2000 (1,000 b/d)

	1980	1981	1982	1983	1984	1985	1986
Algeria	217.4	283.7	400.2	386.8	407.9	390.0	433.0
Indonesia	526.9	530.8	534.0	526.1	499.3	501.4	550.0
IR Iran	582.3	626.6	658.7	624.0	618.0	647.0	558.4
Iraq	187.0	190.0	190.5	292.0	340.0	344.0	346.4
Kuwait	336.5	276.3	420.0	468.4	478.9	566.5	599.0
SP Libyan AJ	108.6	111.3	121.6	126.4	128.5	143.9	182.1
Nigeria	120.9	151.9	162.1	151.2	160.2	135.2	136.0
Qatar	7.7	7.8	7.4	8.4	14.2	23.2	29.0
Saudi Arabia	736.9	758.8	804.8	877.2	917.6	1,115.6	1,333.5
United Arab Emirates	11.8	54.8	84.0	108.6	142.2	148.5	166.0
Venezuela	903.9	839.8	850.7	833.7	839.7	892.4	895.8
<b>OPEC</b>	<b>3,739.9</b>	<b>3,831.8</b>	<b>4,234.0</b>	<b>4,402.8</b>	<b>4,546.5</b>	<b>4,907.7</b>	<b>5,229.2</b>

	1987	1988	1989	1990	1991	1992	1993
Algeria	431.0	433.3	433.6	435.3	428.6	434.5	426.1
Indonesia	568.7	606.5	640.4	711.2	677.8	649.9	770.5
IR Iran	541.2	614.1	669.9	751.0	806.1	851.4	911.7
Iraq	351.1	351.5	389.2	344.8	274.3	358.0	417.7
Kuwait	593.1	652.2	689.0	554.7	105.7	313.3	449.4
SP Libyan AJ	204.9	222.8	261.5	278.0	282.0	282.4	286.8
Nigeria	135.2	154.8	214.2	257.2	242.8	218.9	220.3
Qatar	33.0	37.6	49.3	57.2	53.2	58.4	49.4
Saudi Arabia	1,386.8	1,442.3	1,335.2	1,537.6	1,417.1	1,447.5	1,482.0
United Arab Emirates	168.3	174.1	177.8	187.7	183.8	185.4	193.4
Venezuela	831.4	975.8	1,010.1	1,038.6	1,087.8	1,050.6	1,069.3
<b>OPEC</b>	<b>5,244.7</b>	<b>5,665.0</b>	<b>5,870.2</b>	<b>6,153.3</b>	<b>5,559.2</b>	<b>5,850.3</b>	<b>6,276.6</b>

	1994	1995	1996	1997	1998	1999	2000
Algeria	429.8	440.7	429.4	435.6	410.2	430.6	441.4
Indonesia	767.4	854.3	892.9	887.6	928.4	933.7	968.2
IR Iran	916.9	942.0	957.0	974.4	1,337.8	1,361.2	1,316.4
Iraq	457.7	447.8	438.3	444.5	459.1	442.9	493.2
Kuwait	782.4	821.7	787.7	879.6	876.1	903.3	729.5
SP Libyan AJ	295.4	300.4	304.7	307.6	317.5	324.9	337.8
Nigeria	108.4	161.3	193.0	192.5	113.6	131.1	88.6
Qatar	57.1	57.8	60.9	55.4	60.1	59.8	58.4
Saudi Arabia	1,511.3	1,449.9	1,641.0	1,584.4	1,600.3	1,593.2	1,649.7
United Arab Emirates	208.4	230.1	234.9	298.4	222.4	232.9	315.3
Venezuela	1,126.8	1,201.1	1,335.2	1,327.3	1,332.7	1,209.3	1,240.8
<b>OPEC</b>	<b>6,661.7</b>	<b>6,907.0</b>	<b>7,275.0</b>	<b>7,387.4</b>	<b>7,658.1</b>	<b>7,622.9</b>	<b>7,639.4</b>

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

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

## World output of refined products by region, 1980–2000 (1,000 b/d)

	1980	1981	1982	1983	1984	1985	1986
North America	16,539.2	15,771.0	14,927.1	14,604.5	15,162.9	15,221.4	15,912.0
Latin America	5,939.9	5,781.0	5,554.3	5,274.7	5,352.4	5,078.7	5,100.8
Eastern Europe	10,626.9	10,453.8	10,375.4	10,459.8	10,018.1	9,848.9	10,702.5
Western Europe	13,780.1	12,552.5	11,970.6	11,890.3	11,888.9	11,626.2	12,409.3
Middle East	2,478.5	2,599.3	2,810.5	3,045.7	3,218.4	3,558.6	3,790.3
Africa	1,397.2	1,531.2	1,704.5	1,736.2	1,724.7	1,735.6	1,826.5
Asia and Pacific	9,181.0	8,892.5	8,698.9	8,884.6	8,984.9	8,818.0	9,085.3
<b>Total world</b>	<b>59,942.8</b>	<b>57,581.3</b>	<b>56,041.3</b>	<b>55,896.0</b>	<b>56,350.2</b>	<b>55,887.4</b>	<b>58,826.7</b>
OPEC	3,739.9	3,831.8	4,234.0	4,402.8	4,546.5	4,907.7	5,229.2
OPEC percentage	6.2	6.7	7.6	7.9	8.1	8.8	8.9

	1987	1988	1989	1990	1991	1992	1993
North America	16,162.6	16,639.3	16,860.7	16,986.4	16,911.2	17,013.5	17,522.4
Latin America	5,226.3	5,356.4	5,554.8	5,706.2	5,777.4	5,910.4	6,045.3
Eastern Europe	10,803.8	10,698.9	10,546.6	9,850.4	9,202.5	7,762.4	6,849.0
Western Europe	12,298.4	12,844.9	12,868.7	13,234.6	13,436.9	13,829.2	13,930.0
Middle East	3,847.6	4,057.9	4,102.4	4,278.5	3,696.4	4,117.2	4,409.1
Africa	1,864.1	1,944.4	2,090.4	2,190.2	2,183.8	2,168.8	2,233.6
Asia and Pacific	9,276.3	9,683.1	10,387.6	11,056.2	11,758.2	12,505.6	13,344.7
<b>Total world</b>	<b>59,479.1</b>	<b>61,224.8</b>	<b>62,411.2</b>	<b>63,302.6</b>	<b>62,966.5</b>	<b>63,307.1</b>	<b>64,334.3</b>
OPEC	5,244.7	5,665.0	5,870.2	6,153.3	5,559.2	5,850.3	6,276.6
OPEC percentage	8.8	9.3	9.4	9.7	8.8	9.2	9.8

	1994	1995	1996	1997	1998	1999	2000
North America	17,628.6	17,833.2	18,355.2	18,675.2	18,918.4	18,934.9	19,318.2
Latin America	6,258.2	6,267.6	6,511.0	6,587.3	6,755.0	6,790.2	6,854.7
Eastern Europe	5,996.7	6,014.0	5,813.8	5,839.8	5,743.0	5,674.7	5,818.8
Western Europe	14,266.8	14,241.7	14,590.2	14,885.9	15,262.6	14,572.8	14,812.2
Middle East	4,864.9	4,881.3	5,059.5	5,190.5	5,533.5	5,578.8	5,558.8
Africa	2,204.7	2,328.6	2,362.7	2,370.7	2,302.2	2,400.8	2,429.7
Asia and Pacific	13,819.5	14,635.9	15,537.9	16,332.8	16,273.4	17,030.0	17,607.4
<b>Total world</b>	<b>65,039.3</b>	<b>66,202.3</b>	<b>68,230.3</b>	<b>69,882.2</b>	<b>70,788.2</b>	<b>70,982.2</b>	<b>72,399.8</b>
OPEC	6,661.7	6,907.0	7,275.0	7,387.4	7,658.1	7,622.9	7,639.4
OPEC percentage	10.2	10.4	10.7	10.6	10.8	10.7	10.6

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, 1980–2000 (1,000 b/d)

	1980	1981	1982	1983	1984	1985	1986
Algeria	101.4	103.9	116.4	122.2	140.5	143.5	147.2
Indonesia	424.5	458.7	479.7	467.6	468.6	462.8	470.0
IR Iran	511.7	618.1	719.1	871.4	723.0	735.0	711.5
Iraq	188.9	204.6	203.2	249.7	234.2	256.0	261.3
Kuwait	37.0	49.4	67.9	74.4	89.5	101.7	96.1
SP Libyan AJ	89.5	109.7	118.8	117.3	108.5	103.0	94.0
Nigeria	171.0	235.8	236.3	225.9	203.3	214.0	196.3
Qatar	6.1	6.8	7.8	8.5	8.9	10.5	11.6
Saudi Arabia	407.2	498.6	546.6	603.6	651.8	632.1	621.3
United Arab Emirates	58.3	72.5	83.7	85.0	98.3	100.9	102.6
Venezuela	366.7	389.4	391.2	384.2	352.1	355.8	375.9
<b>OPEC</b>	<b>2,362.3</b>	<b>2,747.5</b>	<b>2,970.7</b>	<b>3,209.8</b>	<b>3,078.7</b>	<b>3,115.3</b>	<b>3,087.8</b>

	1987	1988	1989	1990	1991	1992	1993
Algeria	152.6	158.0	168.1	177.5	162.3	190.7	186.8
Indonesia	491.6	514.0	547.9	629.7	661.4	701.4	711.4
IR Iran	751.0	766.0	778.5	853.8	892.6	940.7	960.2
Iraq	281.3	294.7	303.3	324.7	308.8	440.3	563.6
Kuwait	85.0	75.0	72.4	65.2	66.2	101.1	95.2
SP Libyan AJ	99.5	104.3	107.7	100.5	105.9	107.5	125.5
Nigeria	218.7	231.7	247.8	254.8	234.6	244.9	211.1
Qatar	11.6	12.5	13.0	13.2	12.8	13.9	13.7
Saudi Arabia	632.0	685.9	701.4	680.0	676.3	729.4	767.5
United Arab Emirates	109.4	112.7	114.3	115.9	118.8	124.9	133.1
Venezuela	377.7	386.8	367.5	375.0	379.8	402.3	419.8
<b>OPEC</b>	<b>3,210.4</b>	<b>3,341.6</b>	<b>3,421.9</b>	<b>3,590.3</b>	<b>3,619.5</b>	<b>3,997.2</b>	<b>4,188.1</b>

	1994	1995	1996	1997	1998	1999	2000
Algeria	177.3	172.7	168.7	163.6	171.2	175.8	184.0
Indonesia	751.7	774.7	865.4	946.9	896.7	947.5	1,034.3
IR Iran	920.0	945.0	984.1	981.6	1,318.0	1,192.2	1,189.0
Iraq	623.5	612.9	594.5	601.4	620.7	599.6	655.3
Kuwait	106.2	117.6	114.1	131.8	158.8	163.8	167.6
SP Libyan AJ	153.5	174.1	175.3	174.1	170.8	167.8	155.5
Nigeria	160.4	186.1	199.7	206.0	198.6	184.3	206.7
Qatar	16.3	17.2	19.3	21.6	23.2	22.2	23.6
Saudi Arabia	792.4	751.2	807.4	814.5	865.8	908.4	937.0
United Arab Emirates	132.1	125.5	123.0	115.0	130.0	127.9	135.1
Venezuela	412.1	416.6	403.5	411.1	441.7	383.2	410.0
<b>OPEC</b>	<b>4,245.5</b>	<b>4,293.7</b>	<b>4,455.0</b>	<b>4,567.7</b>	<b>4,995.4</b>	<b>4,872.7</b>	<b>5,098.0</b>

## World consumption of refined products by region, 1980–2000 (1,000 b/d)

	1980	1981	1982	1983	1984	1985	1986
North America	18,151.9	17,055.2	16,145.2	15,903.5	16,641.7	16,547.9	17,092.8
Latin America	4,594.3	4,580.6	4,477.5	4,262.4	4,317.1	4,298.0	4,549.5
Eastern Europe	10,505.4	10,511.6	10,519.5	10,506.6	10,422.0	10,506.8	10,490.8
Western Europe	13,102.3	11,980.4	11,484.7	11,195.2	11,201.7	11,419.6	11,767.9
Middle East	1,544.4	1,834.8	2,025.8	2,318.5	2,263.6	2,284.3	2,277.9
Africa	1,272.6	1,422.0	1,447.0	1,517.1	1,519.4	1,549.8	1,531.9
Asia and Pacific	10,464.9	10,172.3	10,036.2	10,181.4	10,012.0	9,905.2	10,377.3
<b>Total world</b>	<b>59,635.7</b>	<b>57,556.9</b>	<b>56,135.9</b>	<b>55,884.6</b>	<b>56,377.5</b>	<b>56,511.5</b>	<b>58,088.1</b>
OPEC	2,362.3	2,747.5	2,970.7	3,209.8	3,078.7	3,115.3	3,087.8
OPEC percentage	4.0	4.8	5.3	5.7	5.5	5.5	5.3

	1987	1988	1989	1990	1991	1992	1993
North America	17,548.7	18,225.0	18,260.4	17,572.5	17,132.1	17,528.3	17,946.1
Latin America	4,714.3	4,806.8	4,943.1	4,962.4	5,098.3	5,214.1	5,326.6
Eastern Europe	10,550.1	10,316.0	10,039.3	9,771.7	9,396.9	8,011.1	6,824.5
Western Europe	11,889.9	12,106.1	12,095.1	12,223.9	12,566.3	12,697.5	12,659.2
Middle East	2,379.3	2,449.5	2,476.7	2,582.4	2,646.5	2,950.8	3,161.5
Africa	1,633.5	1,700.7	1,754.2	1,778.3	1,748.0	1,796.8	1,799.1
Asia and Pacific	10,671.2	11,286.4	11,983.6	12,746.0	13,291.9	14,134.3	14,861.1
<b>Total world</b>	<b>59,386.9</b>	<b>60,890.4</b>	<b>61,552.3</b>	<b>61,637.3</b>	<b>61,879.9</b>	<b>62,332.8</b>	<b>62,578.0</b>
OPEC	3,210.4	3,341.6	3,421.9	3,590.3	3,619.5	3,997.2	4,188.1
OPEC percentage	5.4	5.5	5.6	5.8	5.8	6.4	6.7

	1994	1995	1996	1997	1998	1999	2000
North America	18,485.7	18,449.5	18,983.9	19,373.4	19,701.0	20,392.8	20,663.0
Latin America	5,554.6	5,587.1	5,799.8	6,017.2	6,261.8	6,253.9	6,305.0
Eastern Europe	5,916.5	5,858.8	5,399.7	5,532.6	5,370.0	5,186.4	4,909.7
Western Europe	12,709.4	12,995.9	13,376.7	13,450.1	13,735.4	13,745.5	13,650.5
Middle East	3,259.7	3,278.4	3,364.5	3,397.8	3,841.9	3,767.8	3,870.3
Africa	1,790.7	1,897.9	1,918.6	1,979.3	2,014.2	2,017.0	1,980.7
Asia and Pacific	15,611.1	16,505.3	17,512.0	18,331.2	17,614.8	18,562.7	19,215.5
<b>Total world</b>	<b>63,327.6</b>	<b>64,573.0</b>	<b>66,355.2</b>	<b>68,081.5</b>	<b>68,539.2</b>	<b>69,926.1</b>	<b>70,594.8</b>
OPEC	4,245.5	4,293.7	4,455.0	4,567.7	4,995.4	4,872.7	5,098.0
OPEC percentage	6.7	6.6	6.7	6.7	7.3	7.0	7.2

Note: Revisions have been made throughout the time series.

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

## Crude oil exports by OPEC Members, 1980–2000 (1,000 b/d)

	1980	1981	1982	1983	1984	1985	1986
Algeria	715.5	521.8	228.9	260.4	181.6	272.0	255.0
Indonesia	988.0	992.5	818.6	858.3	876.3	705.7	793.8
IR Iran	796.7	714.6	1,623.2	1,718.7	1,521.8	1,568.3	1,454.0
Iraq	2,482.0	872.0	846.0	702.0	867.0	1,085.4	1,393.5
Kuwait	1,296.5	813.8	368.8	544.4	658.0	475.9	756.0
SP Libyan AJ	1,693.0	1,062.5	974.0	937.4	929.6	894.6	1,067.0
Nigeria	1,960.2	1,228.4	1,002.8	935.2	1,094.1	1,333.3	1,221.2
Qatar	465.7	391.0	322.8	279.5	386.2	280.0	307.0
Saudi Arabia	9,223.2	9,017.9	5,639.4	3,920.8	3,186.9	2,150.7	3,265.8
United Arab Emirates	1,697.3	1,439.0	1,167.0	1,077.3	1,036.7	977.7	1,132.0
Venezuela	1,287.2	1,266.0	1,057.9	976.7	998.9	825.9	948.7
<b>OPEC</b>	<b>22,605.3</b>	<b>18,319.5</b>	<b>14,049.4</b>	<b>12,210.7</b>	<b>11,737.1</b>	<b>10,569.5</b>	<b>12,594.0</b>

	1987	1988	1989	1990	1991	1992	1993
Algeria	240.0	244.0	280.5	280.6	344.7	279.4	308.0
Indonesia	701.0	646.6	675.7	684.7	798.8	652.0	681.6
IR Iran	1,710.0	1,696.0	2,120.0 <sup>1</sup>	2,220.0 <sup>1</sup>	2,420.0 <sup>1</sup>	2,528.0	2,600.0
Iraq	1,717.0	2,095.0	2,260.0	1,596.0	39.0	60.7	59.2
Kuwait	607.0	698.0	850.0	645.0	85.0	695.6	1,440.0
SP Libyan AJ	810.0	890.0	872.0	1,090.0	1,220.0	1,180.0	1,110.0
Nigeria	1,065.2	1,110.5	1,525.9	1,550.0	1,610.0	1,585.0	1,557.0
Qatar	254.0	305.0	320.0	347.8	336.6	362.3	340.6
Saudi Arabia	2,416.5	3,030.1	3,335.5	4,499.8	6,526.3	6,581.9	6,292.9
United Arab Emirates	1,250.0	1,345.0	1,650.0	1,895.0	2,195.0	2,060.0	1,970.0
Venezuela	1,026.9	972.7	986.3	1,242.0	1,381.3	1,429.0	1,540.3
<b>OPEC</b>	<b>11,797.6</b>	<b>13,032.9</b>	<b>14,875.9</b>	<b>16,050.9</b>	<b>16,956.7</b>	<b>17,413.9</b>	<b>17,899.6</b>

	1994	1995	1996	1997	1998	1999	2000
Algeria	329.2	332.8	390.8	373.1	549.4	414.6	461.1*
Indonesia	792.6	743.9	706.7	709.7	678.0	781.9 <sup>a</sup>	622.5
IR Iran	2,650.0	2,621.0	2,630.0	2,587.0	2,512.0	2,291.0 <sup>a</sup>	2,492.2*
Iraq	60.0	63.5	88.1	746.6 <sup>b</sup>	1,417.6 <sup>b</sup>	2,130.9 <sup>a</sup>	1,995.9
Kuwait	1,263.5	1,186.4	1,224.2	1,134.2	1,190.2	948.2	1,244.7*
SP Libyan AJ	1,125.0	1,120.3	1,123.4	1,115.7	1,161.0	991.7 <sup>a</sup>	1,005.0
Nigeria	1,590.0	1,665.0	1,812.9 <sup>a</sup>	1,855.5 <sup>a</sup>	1,832.8 <sup>a</sup>	1,705.1 <sup>a</sup>	1,986.4*
Qatar	322.6	333.0	367.0	465.0	572.4	580.5	617.6
Saudi Arabia	6,233.6	6,290.8	6,109.3	6,184.5	6,390.4	5,719.7	6,253.1
United Arab Emirates	1,955.0	1,925.0	1,943.2	1,949.0	2,039.0	1,919.0	1,814.9
Venezuela	1,696.4	1,819.9	1,976.4	2,210.8	2,243.9	1,923.0	2,003.5
<b>OPEC</b>	<b>18,017.9</b>	<b>18,101.6</b>	<b>18,372.0<sup>a</sup></b>	<b>19,331.1<sup>a</sup></b>	<b>20,586.9<sup>a</sup></b>	<b>19,405.5<sup>a</sup></b>	<b>20,496.8</b>

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, 1980–2000 (1,000 b/d)

	1980	1981	1982	1983	1984	1985	1986
<b>North America</b>	<b>4,212.1</b>	<b>2,987.4</b>	<b>1,559.8</b>	<b>1,289.6</b>	<b>1,258.9</b>	<b>1,169.7</b>	<b>2,131.6</b>
United States	3,755.5	2,657.7	1,371.9	1,179.6	1,164.2	1,077.4	1,984.8
<b>Latin America</b>	<b>2,180.1</b>	<b>1,763.0</b>	<b>1,370.0</b>	<b>1,210.4</b>	<b>1,120.5</b>	<b>908.6</b>	<b>811.9</b>
<b>Eastern Europe</b>	<b>344.3</b>	<b>180.2</b>	<b>172.4</b>	<b>122.0</b>	<b>197.2</b>	<b>221.2</b>	<b>431.7</b>
<b>Western Europe</b>	<b>9,035.9</b>	<b>7,117.9</b>	<b>5,510.3</b>	<b>4,637.8</b>	<b>4,623.5</b>	<b>4,425.3</b>	<b>5,181.1</b>
France	1,982.6	1,428.1	1,121.7	875.1	840.3	709.7	795.4
Germany	1,306.2	949.8	810.6	653.8	498.7	414.4	522.2
Italy	1,349.3	1,318.6	1,223.5	1,052.5	1,027.8	986.8	1,142.2
United Kingdom	692.5	487.9	373.3	240.9	182.8	208.6	255.3
<b>Middle East</b>	<b>438.7</b>	<b>436.8</b>	<b>479.1</b>	<b>387.0</b>	<b>371.1</b>	<b>384.3</b>	<b>425.2</b>
<b>Africa</b>	<b>324.6</b>	<b>295.6</b>	<b>202.0</b>	<b>147.2</b>	<b>160.9</b>	<b>158.8</b>	<b>195.4</b>
<b>Asia and Pacific</b>	<b>5,944.6</b>	<b>5,538.6</b>	<b>4,714.3</b>	<b>4,372.2</b>	<b>3,952.0</b>	<b>3,293.1</b>	<b>3,417.1</b>
Japan	3,539.8	3,083.1	2,788.2	2,699.2	2,709.5	2,301.2	2,166.6
<b>Unspecified</b>	<b>125.0</b>	<b>–</b>	<b>41.5</b>	<b>44.5</b>	<b>53.0</b>	<b>8.5</b>	<b>–</b>
<b>Total world</b>	<b>22,605.3</b>	<b>18,319.5</b>	<b>14,049.4</b>	<b>12,210.7</b>	<b>11,737.1</b>	<b>10,569.5</b>	<b>12,594.0</b>

	1987	1988	1989	1990	1991	1992	1993
<b>North America</b>	<b>2,450.3</b>	<b>2,714.7</b>	<b>3,372.7</b>	<b>3,770.0</b>	<b>3,714.4</b>	<b>3,391.2</b>	<b>3,690.1</b>
United States	2,333.9	2,603.6	3,206.1	3,570.6	3,511.5	3,306.5	3,542.2
<b>Latin America</b>	<b>657.4</b>	<b>716.8</b>	<b>667.3</b>	<b>708.9</b>	<b>661.4</b>	<b>844.0</b>	<b>766.8</b>
<b>Eastern Europe</b>	<b>408.0</b>	<b>473.0</b>	<b>518.2</b>	<b>332.0</b>	<b>230.0</b>	<b>241.6</b>	<b>142.9</b>
<b>Western Europe</b>	<b>4,321.5</b>	<b>4,649.5</b>	<b>5,147.1</b>	<b>5,362.9</b>	<b>5,552.6</b>	<b>5,515.9</b>	<b>5,578.4</b>
France	484.4	542.3	639.9	730.6	858.3	837.0	1,025.6
Germany	467.7	561.0	651.3	700.3	738.9	741.1	626.5
Italy	997.6	888.1	982.0	1,136.6	1,235.4	1,142.4	1,120.0
United Kingdom	182.3	240.0	206.0	296.8	285.4	270.3	347.5
<b>Middle East</b>	<b>305.7</b>	<b>280.4</b>	<b>284.4</b>	<b>300.9</b>	<b>286.9</b>	<b>309.3</b>	<b>298.8</b>
<b>Africa</b>	<b>220.1</b>	<b>196.4</b>	<b>231.0</b>	<b>294.3</b>	<b>356.7</b>	<b>281.3</b>	<b>277.0</b>
<b>Asia and Pacific</b>	<b>3,434.3</b>	<b>3,959.4</b>	<b>4,655.2</b>	<b>5,281.9</b>	<b>6,154.7</b>	<b>6,805.1</b>	<b>7,124.6</b>
Japan	2,291.2	2,321.6	2,682.5	2,964.5	3,128.2	3,253.5	3,371.2
<b>Unspecified</b>	<b>0.3</b>	<b>42.7</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>25.5</b>	<b>21.0</b>
<b>Total world</b>	<b>11,797.6</b>	<b>13,032.9</b>	<b>14,875.9</b>	<b>16,050.9</b>	<b>16,956.7</b>	<b>17,413.9</b>	<b>17,899.6</b>

	1994	1995	1996	1997	1998	1999	2000
<b>North America</b>	<b>3,768.1</b>	<b>3,676.8</b>	<b>3,689.2</b>	<b>4,214.0</b>	<b>4,731.0</b>	<b>4,455.1</b>	<b>4,796.3</b>
United States	3,555.3	3,439.9	3,463.4	3,960.2	4,448.1	4,197.4	4,538.6
<b>Latin America</b>	<b>810.6</b>	<b>675.0</b>	<b>800.4</b>	<b>713.1</b>	<b>771.4</b>	<b>826.2</b>	<b>913.5</b>
<b>Eastern Europe</b>	<b>174.5</b>	<b>197.9</b>	<b>183.9</b>	<b>234.0</b>	<b>247.6</b>	<b>181.3</b>	<b>205.1</b>
<b>Western Europe</b>	<b>5,267.5</b>	<b>5,110.1</b>	<b>5,053.6</b>	<b>5,307.1</b>	<b>5,827.3</b>	<b>4,981.0</b>	<b>5,108.9</b>
France	892.5	882.9	839.8	850.1	992.9	824.5	800.2
Germany	744.8	597.9	576.2	532.4	550.1	478.5	496.9
Italy	938.9	1,028.9	1,113.6	1,258.9	1,357.6	1,188.7	1,237.8
United Kingdom	231.0	203.5	183.8	134.5	148.5	86.8	77.3
<b>Middle East</b>	<b>313.3</b>	<b>304.2</b>	<b>312.4</b>	<b>307.8</b>	<b>310.1</b>	<b>293.6</b>	<b>272.1</b>
<b>Africa</b>	<b>296.2</b>	<b>506.0</b>	<b>517.3</b>	<b>563.7</b>	<b>578.4</b>	<b>557.7</b>	<b>621.6</b>
<b>Asia and Pacific</b>	<b>7,387.7</b>	<b>7,620.7</b>	<b>7,759.3</b>	<b>7,985.9</b>	<b>8,104.1</b>	<b>7,900.1</b>	<b>8,271.8</b>
Japan	3,598.7	3,598.0	3,558.2	3,743.3	3,563.2	3,514.0	3,564.0
<b>Unspecified</b>	<b>–</b>	<b>10.9</b>	<b>55.9</b>	<b>5.4</b>	<b>16.8</b>	<b>210.5</b>	<b>307.6</b>
<b>Total world</b>	<b>18,017.9</b>	<b>18,101.6</b>	<b>18,372.0</b>	<b>19,331.1</b>	<b>20,586.9</b>	<b>19,405.5</b>	<b>20,496.8</b>

Note: Data includes re-exports.

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

## Share of total OPEC crude oil exports by region, 1980–2000 (per cent)

	1980	1981	1982	1983	1984	1985	1986
<b>North America</b>	<b>18.6</b>	<b>16.3</b>	<b>11.1</b>	<b>10.6</b>	<b>10.7</b>	<b>11.1</b>	<b>16.9</b>
United States	16.6	14.5	9.8	9.7	9.9	10.2	15.8
<b>Latin America</b>	<b>9.6</b>	<b>9.6</b>	<b>9.8</b>	<b>9.9</b>	<b>9.5</b>	<b>8.6</b>	<b>6.4</b>
<b>Eastern Europe</b>	<b>1.5</b>	<b>1.0</b>	<b>1.2</b>	<b>1.0</b>	<b>1.7</b>	<b>2.1</b>	<b>3.4</b>
<b>Western Europe</b>	<b>40.0</b>	<b>38.9</b>	<b>39.2</b>	<b>38.0</b>	<b>39.4</b>	<b>41.9</b>	<b>41.1</b>
France	8.8	7.8	8.0	7.2	7.2	6.7	6.3
Germany	5.8	5.2	5.8	5.4	4.2	3.9	4.1
Italy	6.0	7.2	8.7	8.6	8.8	9.3	9.1
United Kingdom	3.1	2.7	2.7	2.0	1.6	2.0	2.0
<b>Middle East</b>	<b>1.9</b>	<b>2.4</b>	<b>3.4</b>	<b>3.2</b>	<b>3.2</b>	<b>3.6</b>	<b>3.4</b>
<b>Africa</b>	<b>1.4</b>	<b>1.6</b>	<b>1.4</b>	<b>1.2</b>	<b>1.4</b>	<b>1.5</b>	<b>1.6</b>
<b>Asia and Pacific</b>	<b>26.3</b>	<b>30.2</b>	<b>33.6</b>	<b>35.8</b>	<b>33.7</b>	<b>31.2</b>	<b>27.1</b>
Japan	15.7	16.8	19.8	22.1	23.1	21.8	17.2
<b>Unspecified</b>	<b>0.6</b>	<b>–</b>	<b>0.3</b>	<b>0.4</b>	<b>0.5</b>	<b>0.1</b>	<b>–</b>
<b>Total world</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>

	1987	1988	1989	1990	1991	1992	1993
<b>North America</b>	<b>20.8</b>	<b>20.8</b>	<b>22.7</b>	<b>23.5</b>	<b>21.9</b>	<b>19.5</b>	<b>20.6</b>
United States	19.8	20.0	21.6	22.2	20.7	19.0	19.8
<b>Latin America</b>	<b>5.6</b>	<b>5.5</b>	<b>4.5</b>	<b>4.4</b>	<b>3.9</b>	<b>4.8</b>	<b>4.3</b>
<b>Eastern Europe</b>	<b>3.5</b>	<b>3.6</b>	<b>3.5</b>	<b>2.1</b>	<b>1.4</b>	<b>1.4</b>	<b>0.8</b>
<b>Western Europe</b>	<b>36.6</b>	<b>35.7</b>	<b>34.6</b>	<b>33.4</b>	<b>32.7</b>	<b>31.7</b>	<b>31.2</b>
France	4.1	4.2	4.3	4.6	5.1	4.8	5.7
Germany	4.0	4.3	4.4	4.4	4.4	4.3	3.5
Italy	8.5	6.8	6.6	7.1	7.3	6.6	6.3
United Kingdom	1.5	1.8	1.4	1.8	1.7	1.6	1.9
<b>Middle East</b>	<b>2.6</b>	<b>2.2</b>	<b>1.9</b>	<b>1.9</b>	<b>1.7</b>	<b>1.8</b>	<b>1.7</b>
<b>Africa</b>	<b>1.9</b>	<b>1.5</b>	<b>1.6</b>	<b>1.8</b>	<b>2.1</b>	<b>1.6</b>	<b>1.5</b>
<b>Asia and Pacific</b>	<b>29.1</b>	<b>30.4</b>	<b>31.3</b>	<b>32.9</b>	<b>36.3</b>	<b>39.1</b>	<b>39.8</b>
Japan	19.4	17.8	18.0	18.5	18.4	18.7	18.8
<b>Unspecified</b>	<b>–</b>	<b>0.3</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>0.1</b>	<b>0.1</b>
<b>Total world</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>

	1994	1995	1996	1997	1998	1999	2000
<b>North America</b>	<b>20.9</b>	<b>20.3</b>	<b>20.1</b>	<b>21.8</b>	<b>23.0</b>	<b>23.0</b>	<b>23.4</b>
United States	19.7	19.0	18.9	20.5	21.6	21.6	22.1
<b>Latin America</b>	<b>4.5</b>	<b>3.7</b>	<b>4.4</b>	<b>3.7</b>	<b>3.7</b>	<b>4.3</b>	<b>4.5</b>
<b>Eastern Europe</b>	<b>1.0</b>	<b>1.1</b>	<b>1.0</b>	<b>1.2</b>	<b>1.2</b>	<b>0.9</b>	<b>1.0</b>
<b>Western Europe</b>	<b>29.2</b>	<b>28.2</b>	<b>27.5</b>	<b>27.5</b>	<b>28.3</b>	<b>25.7</b>	<b>24.9</b>
France	5.0	4.9	4.6	4.4	4.8	4.2	3.9
Germany	4.1	3.3	3.1	2.8	2.7	2.5	2.4
Italy	5.2	5.7	6.1	6.5	6.6	6.1	6.0
United Kingdom	1.3	1.1	1.0	0.7	0.7	0.4	0.4
<b>Middle East</b>	<b>1.7</b>	<b>1.7</b>	<b>1.7</b>	<b>1.6</b>	<b>1.5</b>	<b>1.5</b>	<b>1.3</b>
<b>Africa</b>	<b>1.6</b>	<b>2.8</b>	<b>2.8</b>	<b>2.9</b>	<b>2.8</b>	<b>2.9</b>	<b>3.0</b>
<b>Asia and Pacific</b>	<b>41.0</b>	<b>42.1</b>	<b>42.2</b>	<b>41.3</b>	<b>39.4</b>	<b>40.7</b>	<b>40.4</b>
Japan	20.0	19.9	19.4	19.4	17.3	18.1	17.4
<b>Unspecified</b>	<b>–</b>	<b>0.1</b>	<b>0.3</b>	<b>–</b>	<b>0.1</b>	<b>1.1</b>	<b>1.5</b>
<b>Total world</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>

Note: Data includes re-exports.

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

## World crude oil exports by region, 1980–2000 (1,000 b/d)

	1980	1981	1982	1983	1984	1985	1986
North America	475.4	386.7	440.9	446.0	533.5	687.0	736.3
Latin America	2,399.6	2,655.3	2,828.0	2,825.0	2,842.8	2,613.3	2,649.0
Eastern Europe	2,415.0	2,372.9	2,429.6	2,515.1	2,563.1	2,299.3	2,535.1
Western Europe	1,351.7	1,535.0	1,708.8	1,951.5	2,226.6	2,346.2	2,523.7
Middle East	16,358.7	13,681.9	10,393.2	8,705.1	8,122.2	7,072.9	8,880.2
Africa	5,139.6	3,566.2	2,970.6	3,000.4	3,243.1	3,662.7	3,679.4
Asia and Pacific	1,736.2	1,651.5	1,628.0	1,726.5	1,977.8	1,959.2	2,007.6
<b>Total world</b>	<b>29,876.2</b>	<b>25,849.5</b>	<b>22,399.1</b>	<b>21,169.6</b>	<b>21,509.1</b>	<b>20,640.6</b>	<b>23,011.3</b>
OPEC	22,605.3	18,319.5	14,049.4	12,210.7	11,737.1	10,569.5	12,594.0
OPEC percentage	75.7	70.9	62.7	57.7	54.6	51.2	54.7

	1987	1988	1989	1990	1991	1992	1993
North America	771.0	864.4	788.3	763.0	878.7	926.4	1,015.5
Latin America	2,764.3	2,735.1	2,716.0	3,001.0	3,219.6	3,340.0	3,496.2
Eastern Europe	2,684.6	2,822.9	2,502.1	2,132.9	1,215.0	1,479.7	1,802.0
Western Europe	2,597.5	2,512.6	2,461.3	2,650.6	2,935.5	3,178.8	3,475.8
Middle East	8,585.1	9,960.7	11,498.7	12,286.3	12,678.5	13,422.2	13,992.9
Africa	3,366.1	3,539.5	4,053.1	4,364.3	4,697.9	4,599.7	4,534.6
Asia and Pacific	1,880.2	1,893.1	1,878.5	2,099.1	2,303.5	2,228.9	2,245.2
<b>Total world</b>	<b>22,648.8</b>	<b>24,328.3</b>	<b>25,898.0</b>	<b>27,297.2</b>	<b>27,928.7</b>	<b>29,175.8</b>	<b>30,562.2</b>
OPEC	11,797.6	13,032.9	14,875.9	16,050.9	16,956.7	17,413.9	17,899.6
OPEC percentage	52.1	53.6	57.4	58.8	60.7	59.7	58.6

	1994	1995	1996	1997	1998	1999*	2000*
North America	1,081.3	1,152.5	1,182.3	1,124.0	1,229.6	1,141.5	1,196.6
Latin America	3,743.3	4,076.0	4,523.6	5,034.3	5,181.9	4,758.4	4,898.2
Eastern Europe	1,878.1	1,888.9	2,069.0	2,177.9	2,428.2	2,565.0	3,058.5
Western Europe	4,172.3	4,281.3	4,531.8	4,653.1	4,611.1	4,758.2	4,938.5
Middle East	13,867.3	13,899.2	13,957.6	14,694.4	15,744.6	15,207.1	16,058.6
Africa	4,401.3	4,544.6	4,837.9	4,966.7	5,139.7	4,745.4	5,007.8
Asia and Pacific	2,301.5	2,286.0	2,227.8	2,284.2	2,222.6	2,175.1	2,185.7
<b>Total world</b>	<b>31,445.1</b>	<b>32,128.6</b>	<b>33,329.9</b>	<b>34,934.7</b>	<b>36,557.7</b>	<b>35,350.6</b>	<b>37,344.0</b>
OPEC	18,017.9	18,101.6	18,372.0	19,331.1	20,586.9	19,405.5	20,496.8
OPEC percentage	57.3	56.3	55.1	55.3	56.3	54.9	54.9

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

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

## Exports of refined products by OPEC Members, 1980–2000 (1,000 b/d)

	1980	1981	1982	1983	1984	1985	1986
Algeria	148.1	201.8	404.3	291.6	399.9	320.0	376.0
Indonesia	162.6	155.8	121.1	130.2	191.9	149.8	159.3
IR Iran	141.0	140.0	181.0	57.0	56.7	39.4	10.0
Iraq	35.0	53.9	0.1	38.3	49.6	12.3	7.8
Kuwait	343.4	280.8	370.4	414.3	394.9	492.9	525.0
SP Libyan AJ	72.5	62.1	78.0	78.7	76.8	90.9	101.9
Nigeria	74.6	43.4	10.9	16.3	20.0	20.0	8.8
Qatar	1.8	13.2	11.6	16.8	26.0	28.3	36.0
Saudi Arabia	413.2	484.9	507.6	389.2	442.1	574.3	712.3
United Arab Emirates	19.6	37.7	45.7	60.7	97.7	92.1	111.6
Venezuela	564.6	476.2	476.2	507.6	502.3	530.7	572.1
<b>OPEC</b>	<b>1,976.4</b>	<b>1,949.8</b>	<b>2,206.9</b>	<b>2,000.7</b>	<b>2,257.9</b>	<b>2,350.7</b>	<b>2,620.8</b>

	1987	1988	1989	1990	1991	1992	1993
Algeria	365.0	375.0	393.3	452.8	400.0	419.1	374.6
Indonesia	187.9	204.9	230.8	239.7	230.0	254.4	239.1
IR Iran	3.0	8.0	38.0	60.0	88.0	70.0	70.0
Iraq	110.0	110.0	145.0	126.2	11.5	16.1 <sup>r</sup>	17.6 <sup>r</sup>
Kuwait	553.0	635.0	690.0	380.0	40.0	256.0	419.0
SP Libyan AJ	110.5	90.0	127.5	150.0	140.0	170.0	142.0
Nigeria	15.7	21.0	30.0	30.0	31.0	30.0	32.5
Qatar	41.1	44.0	75.0	74.0	81.6	103.8	116.2
Saudi Arabia	1,021.4	1,141.0	1,072.6	1,305.8	1,226.1	1,287.6	1,385.7
United Arab Emirates	114.0	117.0	155.0	165.0	170.0	173.0	160.0
Venezuela	477.3	622.5	617.7	616.8	712.0	615.2	634.5
<b>OPEC</b>	<b>2,998.9</b>	<b>3,368.4</b>	<b>3,574.9</b>	<b>3,600.3</b>	<b>3,130.2</b>	<b>3,395.2<sup>r</sup></b>	<b>3,591.2<sup>r</sup></b>

	1994	1995	1996	1997	1998	1999	2000
Algeria	384.0	395.8	406.1	462.3	461.9	599.7	544.3
Indonesia	250.1	294.1	297.1	257.3	220.8	191.9	188.8 <sup>*</sup>
IR Iran	119.5	165.6	172.5 <sup>r</sup>	225.9 <sup>r</sup>	277.8 <sup>r</sup>	272.3 <sup>r</sup>	268.0 <sup>*</sup>
Iraq	17.8 <sup>r</sup>	18.3 <sup>r</sup>	23.6 <sup>r</sup>	18.9 <sup>r</sup>	23.0 <sup>r</sup>	23.0 <sup>r</sup>	23.0 <sup>*</sup>
Kuwait	622.3	794.2	751.5	848.0	795.0 <sup>r</sup>	838.6 <sup>r</sup>	674.5
SP Libyan AJ	130.0	140.1	129.7	153.4 <sup>r</sup>	168.6 <sup>r</sup>	201.2 <sup>r</sup>	237.0 <sup>*</sup>
Nigeria	25.0	38.8 <sup>r</sup>	22.6 <sup>r</sup>	25.3 <sup>r</sup>	3.0 <sup>r</sup>	10.0 <sup>r</sup>	17.3
Qatar	103.0	98.0	107.0	125.0	95.1	75.3	75.3
Saudi Arabia	1,360.1	1,321.6	1,492.0	1,392.9	1,368.9	1,279.7	1,228.1
United Arab Emirates	155.0	269.1	271.9	323.1	319.1	331.0	391.7
Venezuela	633.5	688.3	742.1	841.5	846.2	828.0	784.7
<b>OPEC</b>	<b>3,800.3<sup>r</sup></b>	<b>4,223.9<sup>r</sup></b>	<b>4,416.1<sup>r</sup></b>	<b>4,673.6<sup>r</sup></b>	<b>4,579.4<sup>r</sup></b>	<b>4,650.6<sup>r</sup></b>	<b>4,432.6<sup>*</sup></b>

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

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

## World exports of refined products by region, 1980–2000 (1,000 b/d)

	1980	1981	1982	1983	1984	1985	1986
North America	514.2	610.4	806.3	802.8	777.8	818.4	813.1
Latin America	2,030.3	1,824.6	1,770.6	1,749.5	1,736.0	1,473.2	1,454.5
Eastern Europe	1,360.0	1,391.3	1,413.9	1,500.4	1,463.4	1,372.1	1,552.9
Western Europe	2,646.1	2,710.7	2,898.8	3,064.4	3,012.8	2,990.2	3,336.8
Middle East	1,251.8	1,334.5	1,393.1	1,249.0	1,361.6	1,533.4	1,756.6
Africa	402.5	412.3	599.9	488.9	607.4	539.3	599.0
Asia and Pacific	873.2	920.3	995.5	1,061.4	1,196.2	1,151.7	1,247.3
<b>Total world</b>	<b>9,078.1</b>	<b>9,204.1</b>	<b>9,878.1</b>	<b>9,916.4</b>	<b>10,155.2</b>	<b>9,878.3</b>	<b>10,760.2</b>
OPEC	1,976.4	1,949.8	2,206.9	2,000.7	2,257.9	2,350.7	2,620.8
OPEC percentage	21.8	21.2	22.3	20.2	22.2	23.8	24.4

	1987	1988	1989	1990	1991	1992	1993
North America	829.4	955.9	1,005.8	1,071.8	1,230.8	1,187.9	1,123.7
Latin America	1,429.2	1,599.9	1,651.6	1,651.4	1,755.2	1,669.7	1,827.8
Eastern Europe	1,584.4	1,561.4	1,519.1	1,169.6	996.2	759.8	913.0
Western Europe	3,245.4	3,331.6	3,443.0	3,637.9	3,673.4	3,855.3	4,047.1
Middle East	2,212.6	2,418.2	2,550.7	2,509.9	2,005.8	2,308.9	2,551.4
Africa	637.1	642.0	726.9	828.4	779.3	845.7	826.3
Asia and Pacific	1,333.9	1,354.6	1,539.8	1,608.3	1,665.6	1,821.0	1,968.4
<b>Total world</b>	<b>11,272.0</b>	<b>11,863.6</b>	<b>12,436.9</b>	<b>12,477.3</b>	<b>12,106.2</b>	<b>12,448.3</b>	<b>13,257.8</b>
OPEC	2,998.9	3,368.4	3,574.9	3,600.3	3,130.2	3,395.2	3,591.2
OPEC percentage	26.6	28.4	28.7	28.9	25.9	27.3	27.1

	1994	1995	1996	1997	1998	1999*	2000*
North America	1,123.7	1,147.3	1,234.9	1,285.8	1,212.6	1,209.7	1,358.1
Latin America	1,787.1	1,777.1	1,851.3	1,999.4	2,088.8	2,071.0	2,030.2
Eastern Europe	1,018.1	1,044.6	1,187.4	1,219.2	1,097.5	1,121.7	1,329.5
Western Europe	4,090.2	3,936.6	4,153.8	4,212.0	4,230.9	4,220.5	4,403.9
Middle East	2,765.7	3,023.2	3,196.6	3,335.6	3,283.5	3,224.9	3,073.5
Africa	852.7	875.6	876.1	957.3	965.5	1,149.5	1,147.2
Asia and Pacific	2,088.6	2,348.4	2,625.7	2,949.8	2,898.3	2,938.9	3,001.2
<b>Total world</b>	<b>13,726.0</b>	<b>14,152.8</b>	<b>15,125.7</b>	<b>15,959.1</b>	<b>15,777.0</b>	<b>15,936.2</b>	<b>16,343.5</b>
OPEC	3,800.3	4,223.9	4,416.1	4,673.6	4,579.4	4,650.6	4,432.6
OPEC percentage	27.7	29.8	29.2	29.3	29.0	29.2	27.1

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.



## Exports of crude oil and refined products by OPEC Members, 1980–2000 (1,000 b/d)

	1980	1981	1982	1983	1984	1985	1986
Algeria	863.6	723.6	633.2	552.0	581.5	592.0	631.0
Indonesia	1,150.6	1,148.3	939.7	988.5	1,068.2	855.5	953.1
IR Iran	937.7	854.6	1,804.2	1,775.7	1,578.5	1,607.7	1,464.0
Iraq	2,517.0	925.9	846.1	740.3	916.6	1,097.7	1,401.3
Kuwait	1,639.9	1,094.6	739.2	958.7	1,052.9	968.8	1,281.0
SP Libyan AJ	1,765.5	1,124.6	1,052.0	1,016.1	1,006.4	985.5	1,168.9
Nigeria	2,034.8	1,271.8	1,013.7	951.5	1,114.1	1,353.3	1,230.0
Qatar	467.5	404.2	334.4	296.3	412.2	308.3	343.0
Saudi Arabia	9,636.4	9,502.8	6,147.0	4,310.0	3,629.0	2,725.0	3,978.1
United Arab Emirates	1,716.9	1,476.7	1,212.7	1,138.0	1,134.4	1,069.8	1,243.6
Venezuela	1,851.8	1,742.2	1,534.1	1,484.3	1,501.2	1,356.6	1,520.8
<b>OPEC</b>	<b>24,581.7</b>	<b>20,269.3</b>	<b>16,256.3</b>	<b>14,211.4</b>	<b>13,995.0</b>	<b>12,920.2</b>	<b>15,214.8</b>

	1987	1988	1989	1990	1991	1992	1993
Algeria	605.0	619.0	673.8	733.4	744.7	698.5	682.6
Indonesia	888.9	851.5	906.5	924.4	1,028.8	906.4	920.7
IR Iran	1,713.0	1,704.0	2,158.0 <sup>1</sup>	2,280.0 <sup>1</sup>	2,508.0 <sup>1</sup>	2,598.0	2,670.0
Iraq	1,827.0	2,205.0	2,405.0	1,722.2	50.5	76.8 <sup>e</sup>	76.9 <sup>e</sup>
Kuwait	1,160.0	1,333.0	1,540.0	1,025.0	125.0	951.6	1,859.0
SP Libyan AJ	920.5	980.0	999.5	1,240.0	1,360.0	1,350.0	1,252.0
Nigeria	1,080.9	1,131.5	1,555.9	1,580.0	1,641.0	1,615.0	1,589.5
Qatar	295.1	349.0	395.0	421.8	418.2	466.1	456.8
Saudi Arabia	3,437.9	4,171.1	4,408.1	5,805.6	7,752.4	7,869.5	7,678.6
United Arab Emirates	1,364.0	1,462.0	1,805.0	2,060.0	2,365.0	2,233.0	2,130.0
Venezuela	1,504.2	1,595.2	1,604.0	1,858.8	2,093.3	2,044.2	2,174.8
<b>OPEC</b>	<b>14,796.5</b>	<b>16,401.3</b>	<b>18,450.8</b>	<b>19,651.2</b>	<b>20,086.9</b>	<b>20,809.2<sup>e</sup></b>	<b>21,490.9<sup>e</sup></b>

	1994	1995	1996	1997	1998	1999	2000
Algeria	713.2	728.6	796.9	835.4	1,011.3	1,014.2	1,005.3
Indonesia	1,042.7	1,038.0	1,003.8	967.0	898.8	973.8	811.3 <sup>*</sup>
IR Iran	2,769.5	2,786.6	2,802.5 <sup>r</sup>	2,812.9 <sup>r</sup>	2,789.8 <sup>r</sup>	2,563.3 <sup>r</sup>	2,760.2 <sup>*</sup>
Iraq	77.8 <sup>r</sup>	81.8 <sup>r</sup>	111.7 <sup>r</sup>	765.5 <sup>r</sup>	1,440.6 <sup>r</sup>	2,153.9 <sup>r</sup>	2,018.9 <sup>*</sup>
Kuwait	1,885.8	1,980.6	1,975.7	1,982.2	1,985.2 <sup>r</sup>	1,786.7 <sup>r</sup>	1,919.2
SP Libyan AJ	1,255.0	1,260.4	1,253.1	1,269.1 <sup>r</sup>	1,329.6 <sup>r</sup>	1,192.9 <sup>r</sup>	1,242.0 <sup>*</sup>
Nigeria	1,615.0	1,703.8 <sup>r</sup>	1,835.5 <sup>r</sup>	1,880.8 <sup>r</sup>	1,835.8 <sup>r</sup>	1,715.1 <sup>r</sup>	2,003.7
Qatar	425.6	431.0	474.0	590.0	667.5	655.8	692.9
Saudi Arabia	7,593.7	7,612.4	7,601.3	7,577.4	7,759.3	6,999.3	7,481.2
United Arab Emirates	2,110.0	2,194.1	2,215.1	2,272.1	2,358.1	2,250.0	2,206.6
Venezuela	2,329.9	2,508.2	2,718.5	3,052.3	3,090.1	2,751.0	2,788.2
<b>OPEC</b>	<b>21,818.3<sup>r</sup></b>	<b>22,325.5<sup>r</sup></b>	<b>22,788.1<sup>r</sup></b>	<b>24,004.7<sup>r</sup></b>	<b>25,166.2<sup>r</sup></b>	<b>24,056.1<sup>r</sup></b>	<b>24,929.4<sup>*</sup></b>

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

1. Corresponds to a fiscal year ending March 20.

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

## World exports of crude oil and refined products by region, 1980–2000 (1,000 b/d)

	1980	1981	1982	1983	1984	1985	1986
North America	989.6	997.1	1,247.2	1,248.8	1,311.3	1,505.4	1,549.4
Latin America	4,429.9	4,479.9	4,598.6	4,574.5	4,578.8	4,086.5	4,103.5
Eastern Europe	3,775.0	3,764.2	3,843.5	4,015.5	4,026.5	3,671.4	4,088.0
Western Europe	3,997.8	4,245.7	4,607.6	5,015.9	5,239.4	5,336.4	5,860.5
Middle East	17,610.5	15,016.4	11,786.3	9,954.1	9,483.8	8,606.3	10,636.8
Africa	5,542.1	3,978.5	3,570.5	3,489.3	3,850.5	4,202.0	4,278.4
Asia and Pacific	2,609.4	2,571.8	2,623.5	2,787.9	3,174.0	3,110.9	3,254.9
<b>Total world</b>	<b>38,954.3</b>	<b>35,053.6</b>	<b>32,277.2</b>	<b>31,085.9</b>	<b>31,664.3</b>	<b>30,518.9</b>	<b>33,771.5</b>
OPEC	24,581.7	20,269.3	16,256.3	14,211.4	13,995.0	12,920.2	15,214.8
OPEC percentage	63.1	57.8	50.4	45.7	44.2	42.3	45.1

	1987	1988	1989	1990	1991	1992	1993
North America	1,600.4	1,820.3	1,794.1	1,834.8	2,109.5	2,114.3	2,139.2
Latin America	4,193.5	4,335.0	4,367.6	4,652.4	4,974.8	5,009.7	5,324.0
Eastern Europe	4,269.0	4,384.3	4,021.2	3,302.5	2,211.2	2,239.5	2,715.0
Western Europe	5,842.9	5,844.2	5,904.3	6,288.5	6,608.9	7,034.1	7,522.9
Middle East	10,797.7	12,378.9	14,049.4	14,796.2	14,684.3	15,731.2	16,544.3
Africa	4,003.2	4,181.5	4,780.0	5,192.7	5,477.2	5,445.4	5,360.8
Asia and Pacific	3,214.1	3,247.7	3,418.3	3,707.4	3,969.1	4,049.9	4,213.6
<b>Total world</b>	<b>33,920.9</b>	<b>36,191.9</b>	<b>38,334.9</b>	<b>39,774.5</b>	<b>40,034.9</b>	<b>41,624.1</b>	<b>43,819.9</b>
OPEC	14,796.5	16,401.3	18,450.8	19,651.2	20,086.9	20,809.2	21,490.9
OPEC percentage	43.6	45.3	48.1	49.4	50.2	50.0	49.0

	1994	1995	1996	1997	1998	1999*	2000*
North America	2,205.0	2,299.8	2,417.2	2,409.8	2,442.2	2,351.1	2,554.8
Latin America	5,530.3	5,853.2	6,374.9	7,033.8	7,270.6	6,829.5	6,928.4
Eastern Europe	2,896.2	2,933.5	3,256.4	3,397.1	3,525.7	3,686.6	4,388.0
Western Europe	8,262.5	8,217.9	8,685.6	8,865.1	8,842.0	8,978.7	9,342.4
Middle East	16,633.0	16,922.4	17,154.2	18,030.1	19,028.1	18,432.0	19,132.1
Africa	5,254.0	5,420.2	5,714.0	5,924.0	6,105.2	5,894.9	6,155.1
Asia and Pacific	4,390.1	4,634.5	4,853.5	5,234.0	5,120.8	5,114.0	5,186.8
<b>Total world</b>	<b>45,171.1</b>	<b>46,281.4</b>	<b>48,455.7</b>	<b>50,893.8</b>	<b>52,334.7</b>	<b>51,286.8</b>	<b>53,687.5</b>
OPEC	21,818.3	22,325.5	22,788.1	24,004.7	25,166.2	24,056.1	24,929.4
OPEC percentage	48.3	48.2	47.0	47.2	48.1	46.9	46.4

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

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

## Natural gas exports by OPEC Members, 1980–2000 (million standard cu m)

	1980	1981	1982	1983	1984	1985	1986
Algeria	6,352	7,081	10,001	18,361	18,924	21,640	20,440
Indonesia	11,480	11,753	12,332	12,962	18,978	20,250	20,342
IR Iran	220	256	–	–	–	–	–
Iraq	–	–	–	–	–	–	650
Kuwait	–	–	–	–	–	–	–
SP Libyan AJ	2,134	998	1,103	770	970	1,230	860
Nigeria	–	–	–	–	–	–	–
Qatar	–	–	–	–	–	–	–
Saudi Arabia	–	–	–	–	–	–	–
United Arab Emirates	2,604	2,646	2,981	2,476	2,874	3,036	3,004
Venezuela	–	–	–	–	–	–	–
<b>OPEC</b>	<b>22,790</b>	<b>22,734</b>	<b>26,417</b>	<b>34,569</b>	<b>41,746</b>	<b>46,156</b>	<b>45,296</b>

	1987	1988	1989	1990	1991	1992	1993
Algeria	25,750	26,120	29,420	31,330	33,890	35,488	35,054
Indonesia	22,121	24,580	24,870	27,530	29,710	31,630	31,800
IR Iran	–	–	–	1,500	3,010	–	500
Iraq	2,750	3,100	3,600	2,000	–	–	–
Kuwait	–	–	–	–	–	–	–
SP Libyan AJ	800	1,060	1,430	1,240	1,580	1,840	1,600
Nigeria	–	–	–	–	–	–	–
Qatar	–	–	–	–	–	–	–
Saudi Arabia	–	–	–	–	–	–	–
United Arab Emirates	2,869	3,180	3,110	3,200	3,450	3,420	3,350
Venezuela	–	–	–	–	–	–	–
<b>OPEC</b>	<b>54,290</b>	<b>58,040</b>	<b>62,430</b>	<b>66,800</b>	<b>71,640</b>	<b>72,378</b>	<b>72,304</b>

	1994	1995	1996	1997	1998	1999	2000
Algeria	31,693	37,356	40,970	48,740	52,690	59,320	61,693
Indonesia	35,150	33,310	35,280	35,280	36,400	39,120	36,180
IR Iran	–	100	100	–	–	–	–
Iraq	–	–	–	–	–	–	–
Kuwait	–	–	–	–	–	–	–
SP Libyan AJ	1,480	1,490	1,200	1,120	910	960	800
Nigeria	–	–	–	–	–	740	5,410
Qatar	–	–	–	2,860	4,790	8,100	14,040
Saudi Arabia	–	–	–	–	–	–	–
United Arab Emirates	4,150	6,530	6,740	7,310	6,720	7,070	6,510
Venezuela	–	–	–	–	–	–	–
<b>OPEC</b>	<b>72,473</b>	<b>78,786</b>	<b>84,290</b>	<b>95,310</b>	<b>101,510</b>	<b>115,310</b>	<b>124,633</b>

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, World Energy Statistics and Balances.

World natural gas exports by region, 1980–2000 (*million standard cu m*)

	1980	1981	1982	1983	1984	1985	1986
North America	23,935	23,262	23,649	21,707	22,941	27,662	22,712
Latin America	4,948	5,270	4,981	4,352	3,708	2,210	2,210
Eastern Europe	53,457	57,853	60,619	59,354	66,888	69,250	77,400
Western Europe	74,847	69,734	62,553	65,061	70,514	68,135	61,670
Middle East	2,824	2,902	2,981	2,476	2,874	3,036	3,654
Africa	8,486	8,079	11,104	19,131	19,894	22,870	21,300
Asia and Pacific	22,514	21,556	21,889	24,144	32,904	35,509	36,453
<b>Total world</b>	<b>191,011</b>	<b>188,656</b>	<b>187,776</b>	<b>196,225</b>	<b>219,723</b>	<b>228,672</b>	<b>225,399</b>
OPEC	22,790	22,734	26,417	34,569	41,746	46,156	45,296
OPEC percentage	11.9	12.1	14.1	17.6	19.0	20.2	20.1

	1987	1988	1989	1990	1991	1992	1993
North America	29,423	37,660	40,410	43,130	51,030	63,680	67,545
Latin America	2,270	2,230	2,210	2,200	2,220	2,200	2,127
Eastern Europe	83,480	88,830	103,480	110,200	105,200	99,100	100,900
Western Europe	63,390	59,210	64,810	62,240	67,710	71,910	74,440
Middle East	5,619	6,280	6,710	6,700	6,460	3,420	3,850
Africa	26,550	27,180	30,850	32,570	35,470	37,328	36,654
Asia and Pacific	38,698	41,110	41,600	47,290	51,470	55,810	57,930
<b>Total world</b>	<b>249,430</b>	<b>262,500</b>	<b>290,070</b>	<b>304,330</b>	<b>319,560</b>	<b>333,448</b>	<b>343,446</b>
OPEC	54,290	58,040	62,430	66,800	71,640	72,378	72,304
OPEC percentage	21.8	22.1	21.5	21.9	22.4	21.7	21.1

	1994	1995	1996	1997	1998	1999	2000
North America	75,340	83,791	85,638	86,370	90,610	99,200	108,560
Latin America	2,180	2,178	2,436	2,981	3,825	8,730	10,540
Eastern Europe	106,730	117,270	123,460	116,450	121,100	127,490	131,520
Western Europe	73,870	71,370	90,120	89,660	88,480	95,500	108,940
Middle East	4,160	7,130	7,340	10,670	12,010	15,670	23,390
Africa	33,173	38,846	42,170	49,860	53,600	61,020	67,903
Asia and Pacific	64,040	66,660	72,700	74,830	76,000	79,490	78,550
<b>Total world</b>	<b>359,493</b>	<b>387,245</b>	<b>423,864</b>	<b>430,821</b>	<b>445,625</b>	<b>487,100</b>	<b>529,403</b>
OPEC	72,473	78,786	84,290	95,310	101,510	115,310	124,633
OPEC percentage	20.2	20.3	19.9	22.1	22.8	23.7	23.5

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, World Energy Statistics and Balances.

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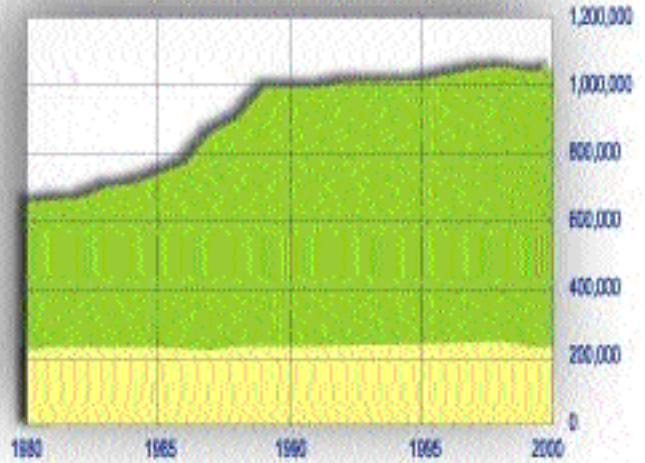
## World proven crude oil reserves by country, 1996–2000 (m b)

	1996	1997	1998	1999	2000	% change 2000/99
<b>North America</b>	<b>30,721.9</b>	<b>30,652.1</b>	<b>31,272.3</b>	<b>29,760.3</b>	<b>30,491.0</b>	<b>2.5</b>
Canada	8,704.9	8,635.1	8,726.3	8,726.3	8,726.0	–
United States	22,017.0	22,017.0	22,546.0	21,034.0	21,765.0	3.5
<b>Latin America</b>	<b>138,761.5</b>	<b>140,342.1</b>	<b>141,909.2</b>	<b>123,103.8</b>	<b>124,325.0</b>	<b>1.0</b>
Argentina	2,588.0	2,621.0	2,621.2	2,753.4	3,071.2	11.5
Brazil	6,680.8	6,680.8	7,106.2	7,357.5	8,100.0	10.1
Colombia	2,798.0	2,800.0	2,577.2	2,577.2	2,577.2	–
Ecuador	3,388.0	3,290.0	3,199.0	3,040.0	3,040.0	–
Mexico	48,472.0	47,822.0	47,822.0	28,399.0	28,260.0	–0.5
Venezuela	72,667.0	74,930.8	76,108.4	76,848.1	76,848.1	–
Others	2,167.7	2,197.5	2,475.2	2,128.6	2,428.5	14.1
<b>Eastern Europe</b>	<b>67,365.6</b>	<b>67,373.9</b>	<b>67,281.4</b>	<b>67,259.7</b>	<b>67,159.7</b>	<b>–0.1</b>
Former USSR	65,405.0	65,405.0	65,405.0	65,405.0	65,305.0	–0.2
Others	1,960.6	1,968.9	1,876.4	1,854.7	1,854.7	–
<b>Western Europe</b>	<b>18,540.4</b>	<b>18,751.4</b>	<b>18,348.3</b>	<b>21,478.1</b>	<b>21,065.6</b>	<b>–1.9</b>
Denmark	957.1	861.7	943.5	1,069.3	1,069.3	–
Italy	684.6	729.3	621.8	621.8	621.8	–
Norway	11,280.0	10,913.0	10,366.0	13,485.0	13,158.0	–2.4
United Kingdom	4,516.9	5,002.8	5,190.9	5,153.3	5,002.8	–2.9
Others	1,101.8	1,244.6	1,226.1	1,148.8	1,213.7	5.7
<b>Middle East</b>	<b>675,996.4</b>	<b>676,755.3</b>	<b>677,806.2</b>	<b>678,736.9</b>	<b>694,605.9</b>	<b>2.3</b>
IR Iran	92,600.0	92,600.0	93,700.0	93,100.0	99,530.0	6.9
Iraq	112,000.0	112,500.0	112,500.0	112,500.0	112,500.0	–
Kuwait	96,500.0	96,500.0	96,500.0	96,500.0	96,500.0	–
Oman	5,238.0	5,400.0	5,400.0	5,700.0	5,700.0	–
Qatar	3,700.0	3,700.0	3,700.0	3,700.0	13,157.0	255.6
Saudi Arabia	261,444.0	261,541.0	261,542.0	262,784.0	262,766.0	–
Syrian Arab Republic	2,500.0	2,500.0	2,500.0	2,500.0	2,500.0	–
United Arab Emirates	97,800.0	97,800.0	97,800.0	97,800.0	97,800.0	–
Others	4,214.4	4,214.3	4,164.2	4,152.9	4,152.9	–
<b>Africa</b>	<b>74,775.8</b>	<b>75,194.7</b>	<b>76,980.5</b>	<b>83,504.0</b>	<b>95,461.9</b>	<b>14.3</b>
Algeria	10,800.0	11,200.0	11,314.0	11,314.0	11,314.0	–
Angola	5,412.2	5,412.2	5,412.0	5,412.0	5,412.0	–
Egypt	3,000.0	2,924.0	2,924.0	2,947.6	2,947.6	–
Gabon	2,349.0	2,499.0	2,499.0	2,499.0	2,499.0	–
SP Libyan AJ	29,500.0	29,500.0	29,500.0	29,500.0	36,000.0	22.0
Nigeria	20,828.0	20,828.0	22,500.0	29,000.0	34,458.0	18.8
Others	2,886.6	2,831.5	2,831.5	2,831.4	2,831.3	–
<b>Asia and Pacific</b>	<b>43,428.2</b>	<b>43,438.2</b>	<b>44,255.1</b>	<b>44,386.8</b>	<b>44,390.5</b>	<b>–</b>
Australia	1,800.1	1,800.1	2,895.0	2,895.0	2,895.0	–
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	5,363.7	5,468.2	5,167.0	5,018.0	5,018.0	–
Indonesia	4,979.7	4,979.7	4,979.7	5,201.0	5,122.6	–1.5
Malaysia	4,000.0	3,900.0	3,900.0	3,900.0	3,900.0	–
Others	1,934.7	1,940.2	1,963.4	2,022.8	2,104.9	4.1
<b>Total world</b>	<b>1,049,589.8</b>	<b>1,052,507.7</b>	<b>1,057,853.0</b>	<b>1,048,229.5</b>	<b>1,077,499.6</b>	<b>2.8</b>
<b>OPEC</b>	<b>802,818.7</b>	<b>806,079.5</b>	<b>810,144.1</b>	<b>818,247.0</b>	<b>845,995.7</b>	<b>3.4</b>
<b>OPEC percentage</b>	<b>76.5</b>	<b>76.6</b>	<b>76.6</b>	<b>78.1</b>	<b>78.5</b>	

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; World Petroleum Trends.

**Graph 1:**

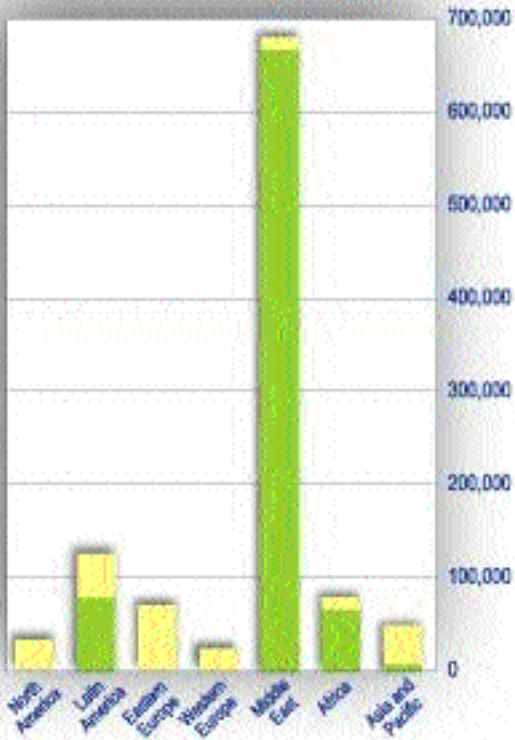
World proven crude oil reserves, 1980–2000  
(m b)



OPEC  
non-OPEC

**Graph 2:**

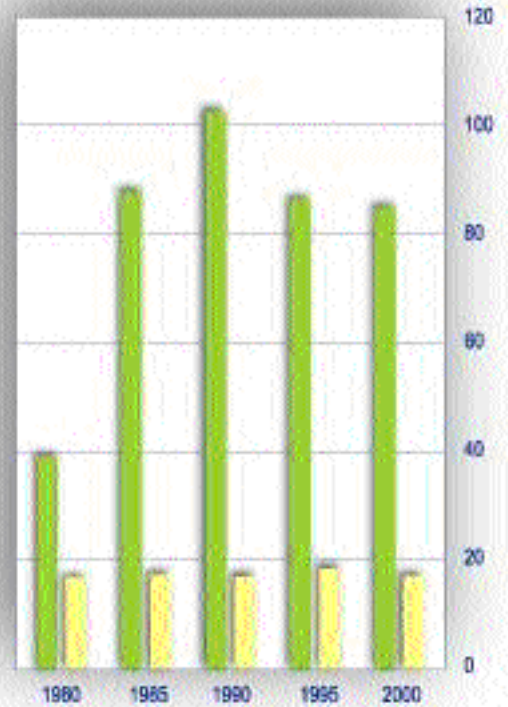
Crude oil reserves by region, 2000  
(m b)



OPEC  
non-OPEC

**Graph 3:**

Crude oil reserves to production ratios, 1980–2000  
(years)



OPEC  
non-OPEC

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World proven natural gas reserves by country, 1996–2000 (billion standard cu m)

	1996	1997	1998	1999	2000	% change 2000/99
<b>North America</b>	<b>6,643.0</b>	<b>6,576.0</b>	<b>6,454.0</b>	<b>6,454.0</b>	<b>6,469.0</b>	<b>0.2</b>
Canada	1,929.0	1,841.0	1,809.0	1,809.0	1,728.0	-4.5
United States	4,714.0	4,735.0	4,645.0	4,645.0	4,741.0	2.1
<b>Latin America</b>	<b>7,985.0</b>	<b>8,080.3</b>	<b>8,172.6</b>	<b>7,356.6</b>	<b>7,875.0</b>	<b>7.0</b>
Argentina	688.3	683.8	687.0	720.0	748.0	3.9
Colombia	217.5	196.3	195.0	193.0	196.0	1.6
Mexico	1,810.0	1,796.9	1,760.0	861.0	835.0	-3.0
Trinidad & Tobago	456.0	517.0	560.0	602.0	705.0	17.1
Venezuela	4,051.5	4,120.8	4,147.5	4,152.4	4,152.4	-
Others	761.7	765.5	823.1	828.2	1,238.5	49.5
<b>Eastern Europe</b>	<b>57,313.0</b>	<b>57,740.8</b>	<b>57,301.8</b>	<b>56,664.1</b>	<b>56,396.1</b>	<b>-0.5</b>
Hungary	88.0	84.0	87.0	81.3	81.3	-
Poland	160.0	155.0	145.0	146.0	146.0	-
Romania	389.0	374.0	360.0	348.0	335.0	-3.7
Former USSR	56,650.0	57,100.0	56,682.0	56,061.0	55,806.0	-0.5
Others	26.0	27.8	27.8	27.8	27.8	-
<b>Western Europe</b>	<b>6,511.4</b>	<b>7,156.3</b>	<b>7,147.2</b>	<b>7,126.7</b>	<b>7,277.1</b>	<b>2.1</b>
Denmark	158.0	137.0	123.0	142.0	144.0	1.4
Germany	329.3	343.0	347.5	340.0	325.6	-4.2
Italy	297.7	278.0	222.0	208.0	199.0	-4.3
Netherlands	1,765.0	1,787.0	1,771.0	1,714.0	1,680.0	-2.0
Norway	3,001.0	3,654.0	3,780.0	3,808.0	4,017.0	5.5
United Kingdom	760.0	765.0	755.0	755.0	760.0	0.7
Others	200.4	192.3	148.7	159.7	151.5	-5.1
<b>Middle East</b>	<b>49,467.0</b>	<b>49,794.6</b>	<b>53,406.0</b>	<b>52,077.0</b>	<b>59,915.0</b>	<b>15.1</b>
IR Iran	23,000.0	23,000.0	24,100.0	22,370.0	26,600.0	18.9
Iraq	3,360.0	3,188.0	3,188.0	3,285.0	3,285.0	-
Kuwait	1,489.0	1,490.0	1,482.0	1,482.0	1,480.0	-0.1
Qatar	8,500.0	8,500.0	10,900.0	11,157.0	14,443.0	29.5
Saudi Arabia	5,693.3	5,882.0	6,068.0	6,146.0	6,301.0	2.5
United Arab Emirates	5,784.0	6,063.0	5,996.0	5,936.0	6,060.0	2.1
Others	1,640.7	1,671.6	1,672.0	1,701.0	1,746.0	2.6
<b>Africa</b>	<b>10,170.9</b>	<b>10,635.1</b>	<b>10,791.0</b>	<b>11,528.0</b>	<b>11,981.3</b>	<b>3.9</b>
Algeria	3,700.0	4,077.0	4,077.0	4,523.0	4,523.0	-
Egypt	851.9	927.1	1,020.0	1,250.0	1,444.0	15.5
SP Libyan AJ	1,311.0	1,315.0	1,315.0	1,315.0	1,325.0	0.8
Nigeria	3,475.0	3,483.0	3,510.0	3,568.0	3,610.0	1.2
Others	833.0	833.0	869.0	872.0	1,079.3	23.8
<b>Asia and Pacific</b>	<b>14,106.0</b>	<b>14,332.0</b>	<b>14,198.0</b>	<b>14,720.0</b>	<b>14,951.0</b>	<b>1.6</b>
Australia	3,260.0	3,280.0	3,310.0	3,500.0	3,530.0	0.9
China	1,120.0	1,199.0	1,200.0	1,375.0	1,515.0	10.2
India	679.0	665.0	650.0	650.0	660.0	1.5
Indonesia	3,851.0	3,902.0	3,650.0	3,770.0	3,790.0	0.5
Malaysia	2,400.0	2,464.0	2,410.0	2,413.0	2,420.0	0.3
Pakistan	589.0	595.0	612.0	649.0	655.0	0.9
Others	2,207.0	2,227.0	2,366.0	2,363.0	2,381.0	0.8
<b>Total world</b>	<b>152,196.3</b>	<b>154,315.1</b>	<b>157,470.6</b>	<b>155,926.4</b>	<b>164,864.5</b>	<b>5.7</b>
<b>OPEC</b>	<b>64,214.8</b>	<b>65,020.8</b>	<b>68,433.5</b>	<b>67,704.4</b>	<b>75,569.4</b>	<b>11.6</b>
<b>OPEC percentage</b>	<b>42.2</b>	<b>42.1</b>	<b>43.5</b>	<b>43.4</b>	<b>45.8</b>	

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



## Active rigs in OPEC Members and in world, 1996–2000

	1996	1997	1998	1999	2000	% change 00/99
Algeria	29	30	16	12	17	41.7
Indonesia	46	61	38	28	34	21.4
IR Iran	22	23	27	27	27	–
Iraq	10	7	7	9	–	na
Kuwait	9	9	9	12	11	–8.3
SP Libyan AJ	21	19	12	8	6	–25.0
Nigeria	15	10	12	4	10	150.0
Qatar	11	16	13	3	6	100.0
Saudi Arabia	20	28	25	21	26	23.8
United Arab Emirates	27	24	17	13	12	–7.7
Venezuela	106	108	65	59	73	23.7
<b>OPEC</b>	<b>316</b>	<b>335</b>	<b>241</b>	<b>196</b>	<b>222</b>	<b>13.3</b>
<b>North America</b>	<b>1,380</b>	<b>1,541</b>	<b>933</b>	<b>1,185</b>	<b>1,510</b>	<b>27.4</b>
Canada	410	508	345	385	410	6.5
United States	970	1,033	588	800	1,100	37.5
<b>Latin America</b>	<b>277</b>	<b>287</b>	<b>213</b>	<b>196</b>	<b>257</b>	<b>31.1</b>
Argentina	60	60	28	40	68	70.0
Bolivia	6	10	15	11	10	–9.1
Brazil	23	20	19	19	25	31.6
Chile	1	2	2	–	1	na
Colombia	16	18	15	14	14	–
Ecuador	3	5	6	4	9	125.0
Mexico	48	50	53	44	46	4.5
Trinidad & Tobago	4	6	6	3	6	100.0
<b>Western Europe</b>	<b>101</b>	<b>94</b>	<b>68</b>	<b>59</b>	<b>73</b>	<b>23.7</b>
France	–	3	1	1	1	–
Germany	7	5	4	4	2	–50.0
Italy	14	10	10	8	7	–12.5
Netherlands	14	7	7	4	5	25.0
Norway	16	19	12	16	24	50.0
United Kingdom	33	35	24	17	19	11.8
<b>Middle East</b>	<b>145</b>	<b>154</b>	<b>135</b>	<b>110</b>	<b>133</b>	<b>20.9</b>
Bahrain	1	1	2	–	–	–
Oman	21	25	24	16	25	56.3
Syrian Arab Republic	19	16	14	14	18	–
Yemen	5	5	4	3	6	100.0
<b>Africa</b>	<b>133</b>	<b>128</b>	<b>79</b>	<b>58</b>	<b>70</b>	<b>20.7</b>
Angola	9	10	5	5	7	40.0
Egypt	40	42	17	20	21	5.0
Gabon	4	6	4	2	2	–
South Africa	–	1	1	1	–	–
<b>Asia and Pacific</b>	<b>196</b>	<b>186</b>	<b>159</b>	<b>136</b>	<b>156</b>	<b>14.7</b>
Australia	19	11	18	5	12	140.0
Brunei	3	3	2	2	2	–
India	64	51	46	46	51	10.9
Malaysia	4	5	9	7	10	42.9
New Zealand	2	–	–	2	2	–
Pakistan	10	13	8	9	10	11.1
<b>World<sup>1</sup></b>	<b>2,232</b>	<b>2,390</b>	<b>1,587</b>	<b>1,744</b>	<b>2,199</b>	<b>26.1</b>
<b>OPEC percentage</b>	<b>14.2</b>	<b>14.0</b>	<b>15.2</b>	<b>11.2</b>	<b>10.1</b>	

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, 1996–2000

	1996	1997	1998	1999	2000	% change 00/99
<b>Algeria</b>	<b>100</b>	<b>105</b>	<b>85</b>	<b>91</b>	<b>137</b>	<b>50.5</b>
Oil	56	57	45	49	74	51.0
Gas	21	23	22	23	35	52.2
Dry	22	23	18	19	28	47.4
Others	1	2	–	–	–	–
Average depth (ft)	9,131	9,130	9,130	9,130	10,161	11.3
<b>Indonesia</b>	<b>858</b>	<b>1,006</b>	<b>1,016</b>	<b>1,051</b>	<b>1,031</b>	<b>–1.9</b>
Oil	337	528	639	715	771	7.8
Gas	24	166	171	139	46	–66.9
Dry	67	71	84	55	40	–27.3
Others	430	241	122	142	174	22.5
Average depth (ft)	3,700	3,478	4,502	3,285	3,300	0.5
<b>IR Iran</b>	<b>113</b>	<b>125</b>	<b>124</b>	<b>134</b>	<b>150</b>	<b>11.9</b>
Oil	62	112	76	84	95	13.1
Gas	4	3	12	5	–	–
Dry	4	5	–	–	–	–
Others	43	5	36	45	55	22.2
Average depth (ft)	7,086	7,402	7,543	7,073	6,301	–10.9
<b>Iraq</b>	<b>na</b>	<b>na</b>	<b>12</b>	<b>12</b>	<b>na</b>	<b>na</b>
Oil	na	na	na	na	na	na
Gas	na	na	na	na	na	na
Dry	na	na	na	na	na	na
Others	na	na	na	na	na	na
Average depth (ft)	na	na	9,000	7,667	na	na
<b>Kuwait</b>	<b>28</b>	<b>45</b>	<b>36</b>	<b>99</b>	<b>138</b>	<b>39.4</b>
Oil	25	29	30	99	128	29.3
Gas	–	–	–	–	–	–
Dry	–	–	–	–	–	–
Others	3	16	6	–	10	na
Average depth (ft)	10,002	6,796	10,473	8,000	7,643	–4.5
<b>SP Libyan AJ</b>	<b>131</b>	<b>128</b>	<b>123</b>	<b>90</b>	<b>109</b>	<b>21.1</b>
Oil	101	96	90	70	71	1.4
Gas	2	4	5	2	2	–
Dry	18	20	19	11	25	127.3
Others	10	8	9	7	11	57.1
Average depth (ft)	7,297	7,077	7,724	7,724	7,796	0.9
<b>Nigeria</b>	<b>138</b>	<b>137</b>	<b>132</b>	<b>82</b>	<b>85</b>	<b>3.7</b>
Oil	118	95	88	54	62	14.8
Gas	2	8	10	6	3	–50.0
Dry	7	9	11	7	10	42.9
Others	11	25	23	15	10	–33.3
Average depth (ft)	10,314	9,364	9,538	9,615	9,311	–3.2
<b>Qatar</b>	<b>78</b>	<b>121</b>	<b>117</b>	<b>66</b>	<b>66</b>	<b>–</b>
Oil	71	100	79	40	40	–
Gas	2	10	13	4	12	200.0
Dry	5	4	–	–	2	–
Others	–	7	25	22	12	–45.5
Average depth (ft)	7,617	6,883	7,300	7,300	7,410	1.5

## Wells completed in OPEC Members, 1996–2000

	1996	1997	1998	1999	2000	% change 00/99
<b>Saudi Arabia</b>	<b>182</b>	<b>305</b>	<b>284</b>	<b>224</b>	<b>257</b>	<b>14.7</b>
Oil	na	na	na	na	na	na
Gas	na	na	na	na	na	na
Dry	na	na	na	na	na	na
Others	na	na	na	na	na	na
Average depth (ft)	8,395	8,754	8,176	8,175	8,049	-1.5
<b>Saudi-Kuwaiti Neutral Zone</b>	<b>48</b>	<b>46</b>	<b>40</b>	<b>35</b>	<b>40</b>	<b>14.3</b>
Oil	40	36	33	29	37	27.6
Gas	–	–	–	–	–	–
Dry	–	1	2	3	1	-66.7
Others	8	9	5	3	2	-33.3
Average depth (ft)	7,488	7,413	7,048	7,050	7,020	-0.4
<b>United Arab Emirates</b>	<b>125</b>	<b>148</b>	<b>125</b>	<b>108</b>	<b>87</b>	<b>-19.4</b>
Oil	61	72	65	50	43	-14.0
Gas	36	45	22	28	30	7.1
Dry	6	7	7	6	2	-66.7
Others	22	24	31	24	12	-50.0
Average depth (ft)	10,900	10,097	11,045	11,908	9,110	-23.5
<b>Venezuela</b>	<b>961</b>	<b>1,088</b>	<b>1,110</b>	<b>827</b>	<b>691</b>	<b>-16.4</b>
Oil	575	1,013	671	386	564	46.1
Gas	–	4	3	2	–	–
Dry	8	1	18	19	2	-89.5
Others	378	70	418	420	125	-70.2
Average depth (ft)	5,593	6,119	5,445	6,186	5,866	-5.2
<b>OPEC</b>	<b>2,762</b>	<b>3,254</b>	<b>3,204</b>	<b>2,819</b>	<b>2,791</b>	<b>-1.0</b>
Oil	1,446	2,138	1,816	1,576	1,885	19.6
Gas	91	263	258	209	128	-38.8
Dry	137	141	159	120	110	-8.3
Others	906	407	675	678	411	-39.4
Average depth (ft)	6,070	6,107	6,199	5,853	5,773	-1.4
<b>Total world<sup>1,2</sup></b>	<b>56,088</b>	<b>68,553</b>	<b>50,106</b>	<b>45,095</b>	<b>60,095</b>	<b>33.3</b>
Oil	19,599	22,316	14,206	11,058	17,338	56.8
Gas	13,669	17,103	15,983	15,301	22,861	49.4
Dry	9,320	9,596	7,169	5,765	6,280	8.9
Others	2,985	3,693	2,589	2,681	3,227	20.4
Average depth (ft)	5,351	5,212	5,466	5,343	5,054	-5.4

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, 1996–2000

	1996	1997	1998	1999	2000	% change 00/99
<b>Algeria</b>	<b>1,189</b>	<b>1,214</b>	<b>1,175</b>	<b>1,136</b>	<b>1,235</b>	<b>8.7</b>
Flowing	868	886	865	836	930	11.2
Artificial lift	321	328	310	300	305	1.7
<b>Indonesia</b>	<b>8,343</b>	<b>8,729</b>	<b>8,837</b>	<b>8,226</b>	<b>9,341</b>	<b>13.6</b>
Flowing	580	630	1,184	720	1,511	109.9
Artificial lift	7,763	8,099	7,653	7,506	7,830	4.3
<b>IR Iran</b>	<b>1,092</b>	<b>1,121</b>	<b>1,152</b>	<b>1,211</b>	<b>1,287</b>	<b>6.3</b>
Flowing	1,092	1,121	1,152	1,211	1,287	6.3
Artificial lift	–	–	–	–	–	–
<b>Iraq</b>	<b>na</b>	<b>na</b>	<b>na</b>			<b>na</b>
Flowing	na	na	na	na	na	na
Artificial lift	na	na	na	na	na	na
<b>Kuwait</b>	<b>798</b>	<b>788</b>	<b>810</b>	<b>730</b>	<b>785</b>	<b>7.5</b>
Flowing	798	788	810	730	785	7.5
Artificial lift	–	–	–	–	–	–
<b>SP Libyan AJ</b>	<b>1,454</b>	<b>1,470</b>	<b>1,425</b>	<b>1,430</b>	<b>1,436</b>	<b>0.4</b>
Flowing	945	955	912	902	904	0.2
Artificial lift	509	515	513	528	532	0.8
<b>Nigeria</b>	<b>1,793</b>	<b>2,251</b>	<b>2,125</b>	<b>2,145</b>	<b>2,109</b>	<b>–1.7</b>
Flowing	1,404	1,864	1,760	1,770	1,779	0.5
Artificial lift	389	387	365	375	330	–12.0
<b>Qatar</b>	<b>288</b>	<b>360</b>	<b>412</b>	<b>411</b>	<b>415</b>	<b>1.0</b>
Flowing	253	317	348	322	325	0.9
Artificial lift	35	43	64	89	90	1.1
<b>Saudi Arabia</b>	<b>1,420</b>	<b>1,565</b>	<b>1,535</b>	<b>1,475</b>	<b>1,550</b>	<b>5.1</b>
Flowing	1,320	1,455	1,430	1,400	1,457	4.1
Artificial lift	100	110	105	75	93	24.0
<b>Saudi-Kuwaiti Neutral Zone</b>	<b>468</b>	<b>532</b>	<b>455</b>	<b>465</b>	<b>550</b>	<b>18.3</b>
Flowing	257	267	182	190	210	10.5
Artificial lift	211	265	273	275	340	23.6
<b>United Arab Emirates</b>	<b>1,427</b>	<b>1,435</b>	<b>1,451</b>	<b>1,424</b>	<b>1,505</b>	<b>5.7</b>
Flowing	1,045	1,056	1,069	1,075	1,143	6.3
Artificial lift	382	379	382	349	362	3.7
<b>Venezuela</b>	<b>14,418</b>	<b>15,584</b>	<b>15,090</b>	<b>12,820</b>	<b>15,506</b>	<b>21.0</b>
Flowing	1,185	1,245	1,245	1,056	1,223	15.8
Artificial lift	13,233	14,339	13,845	11,764	14,283	21.4
<b>OPEC<sup>1</sup></b>	<b>32,690</b>	<b>35,049</b>	<b>34,467</b>	<b>31,473</b>	<b>35,719</b>	<b>13.5</b>
Flowing	9,747	10,584	10,957	10,212	11,554	13.1
Artificial lift	22,943	24,465	23,510	21,261	24,165	13.7
<b>Total world<sup>1,2</sup></b>	<b>783,122</b>	<b>798,064</b>	<b>772,096</b>	<b>772,050</b>	<b>883,938</b>	<b>14.5</b>
Flowing	54,362	53,137	50,206	48,245	51,849	7.5
Artificial lift	728,760	743,859	721,083	722,975	832,089	15.1

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.

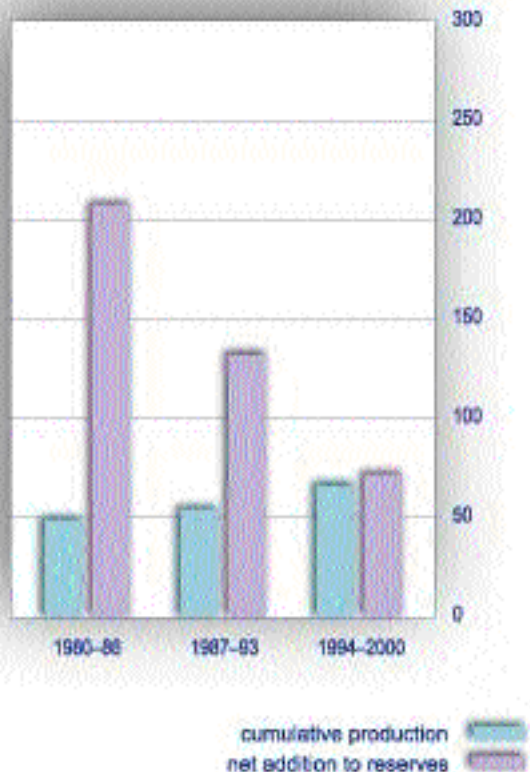
2. Excluding Eastern Europe.

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

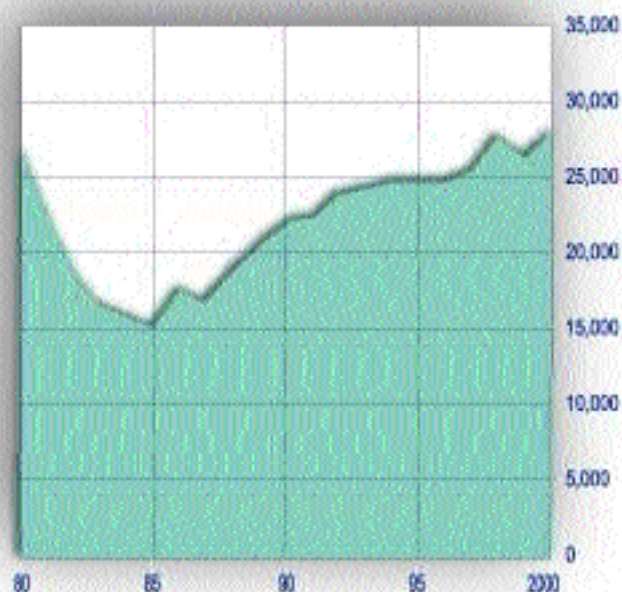
OPEC cumulative production and net addition to reserves, 1980–2000 (bn b)

	Production	Net addition to reserves		Production	Net addition to reserves
before 1980	183.737		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	342.665	8.10
1989	252.885	4.35	2000	352.819	27.75

**Graph 4:**  
OPEC cumulative production and net addition to reserves, 1980–2000 (bn b)



**Graph 5:**  
OPEC crude oil production, 1980–2000 (1,000 b/d)



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

## Algeria

Year	Daily average	Cumulative	% change in daily av	Year	Daily average	Cumulative	% change in daily av
1918–1957		2,533		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	6,952,888	-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	7,448,633	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	953,769	0.2	1987	648.2	8,176,620	-3.8
1966	718.7	1,216,094	28.6	1988	672.9*	8,422,883	3.8
1967	825.7	1,517,475	14.9	1989	727.3	8,688,348	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	3,645,457	3.3	1995	752.5	10,366,382	-
1974	1,008.6	4,013,596	-8.1	1996	805.7	10,661,268	7.1
1975	982.6	4,372,245	-2.6	1997	846.1	10,970,095	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 <sup>1</sup>	2000	796.0	11,837,008	6.2

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, 1980–2000  
(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

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

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## Indonesia

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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	1,355.5	18,405,970	3.1
2000	1,272.5	18,871,705	-6.1

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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.

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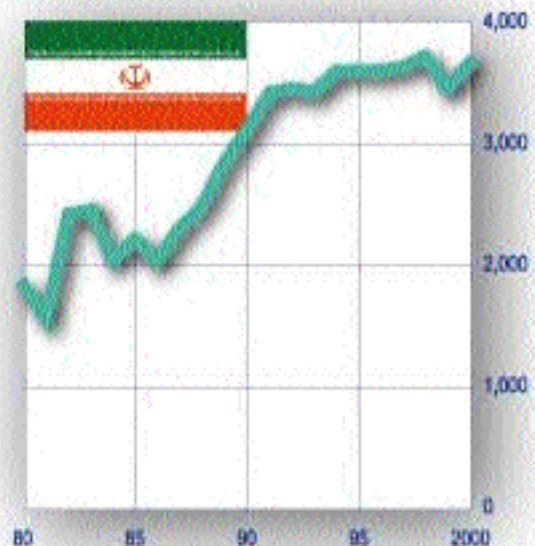
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Graph 7:  
IndonesiaGraph 8:  
IR Iran



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

## IR Iran

Year	Daily average	Cumulative	% change in daily av	Year	Daily average	Cumulative	% change in daily av
1913	5.0	1,825		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	2000	3,661.3	51,601,497	6.5

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

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

## Iraq

Year	Daily average	Cumulative	% change in daily av	Year	Daily average	Cumulative	% change in daily av
1928	2.7	988		1965	1,312.6	4,848,984	4.6
1929	3.0	2,083	11.1	1966	1,392.2	5,357,137	6.1
1930	2.0	2,813	-33.3	1967	1,228.1	5,805,393	-11.8
1931	2.0	3,543	-	1968	1,503.3	6,355,601	22.4
1932	1.4	4,056	-30.0	1969	1,521.2	6,910,839	1.2
1933	1.6	4,640	14.3	1970	1,548.6	7,476,078	1.8
1934	16.5	10,662	931.3	1971	1,694.1	8,094,425	9.4
1935	78.1	39,169	373.3	1972	1,465.5	8,630,798	-13.5
1936	85.7	70,535	9.7	1973	2,018.1	9,367,404	37.7
1937	92.4	104,261	7.8	1974	1,970.6	10,086,673	-2.4
1938	91.5	137,658	-1.0	1975	2,261.7	10,912,194	14.8
1939	85.5	168,866	-6.6	1976	2,415.4	11,796,236	6.8
1940	55.9	189,325	-34.6	1977	2,348.2	12,653,333	-2.8
1941	36.3	202,575	-35.1	1978	2,562.0	13,588,476	9.1
1942	55.7	222,905	53.4	1979	3,476.9	14,857,556	35.7
1943	79.3	251,850	42.4	1980	2,646.4	15,826,156	-23.9
1944	92.5	285,705	16.6	1981	897.4	16,153,707	-66.1
1945	100.1	322,241	8.2	1982	1,078.4*	16,547,318	20.2
1946	101.8	359,398	1.7	1983	1,098.8	16,948,376	1.9
1947	103.0	396,993	1.2	1984	1,221.3	17,395,379	11.2
1948	76.6	425,029	-25.6	1985	1,404.4	17,907,969	15.0
1949	90.6	458,098	18.3	1986	1,876.5	18,592,904	33.6
1950	139.6	509,052	54.1	1987	2,358.7	19,453,818	25.7
1951	180.8	575,044	29.5	1988	2,744.5*	20,458,289	16.4
1952	389.0	717,418	115.2	1989	2,785.8	21,475,101	1.5
1953	581.4	929,629	49.5	1990	2,112.7*	22,246,254	-24.2
1954	636.2	1,161,842	9.4	1991	281.8*	22,349,107	-86.7
1955	697.0	1,416,247	9.6	1992	526.2	22,541,697	86.7
1956	641.0	1,650,853	-8.0	1993	659.5	22,782,402	25.3
1957	449.5	1,814,920	-29.9	1994	748.7	23,055,669	13.5
1958	731.3	2,081,845	62.7	1995	736.9	23,324,634	-1.6
1959	856.9	2,394,613	17.2	1996	740.4	23,595,628	0.5
1960	972.2	2,750,439	13.5	1997	1,383.9	24,100,757	86.9
1961	1,007.1	3,118,030	3.6	1998	2,181.1	24,896,852	57.6
1962	1,009.2	3,486,388	0.2	1999	2,719.8*	25,889,595	24.7
1963	1,161.9	3,910,482	15.1	2000	2,810.0*	26,918,057	3.3
1964	1,255.2	4,369,885	8.0				

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

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

## Kuwait

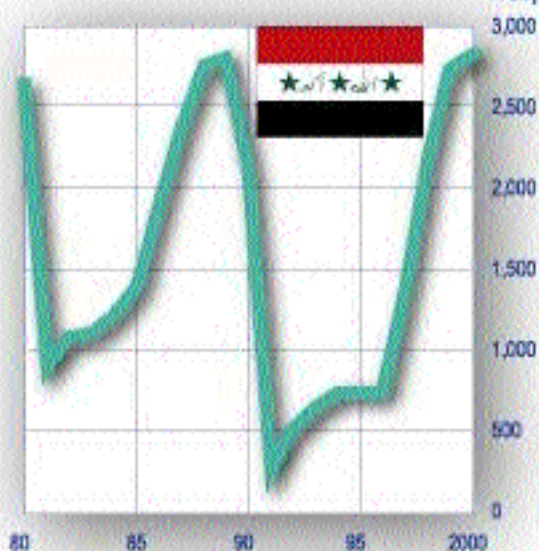
Year	Daily average	Cumulative	% change in daily av	Year	Daily average	Cumulative	% change in daily av
1946	16.2	5,913		1974	2,546.1	17,429,052	-15.7
1947	44.5	22,156	174.7	1975	2,084.2	18,189,785	-18.1
1948	127.2	68,711	185.8	1976	2,145.4	18,975,000	2.9
1949	246.5	158,683	93.8	1977	1,969.0	19,693,684	-8.2
1950	344.4	284,389	39.7	1978	2,131.4	20,471,641	8.2
1951	561.4	489,300	63.0	1979	2,500.3	21,384,250	17.3
1952	747.1	762,739	33.1	1980	1,663.7	21,993,164	-33.5
1953	861.9	1,077,332	15.4	1981	1,129.7	22,405,504	-32.1
1954	959.7	1,427,623	11.3	1982	824.3	22,706,374	-27.0
1955	1,103.6	1,830,437	15.0	1983	1,054.1	23,091,120	27.9
1956	1,108.5	2,236,148	0.4	1984	1,163.0	23,516,778	10.3
1957	1,171.6	2,663,782	5.7	1985	936.3	23,858,536	-19.5
1958	1,435.8	3,187,849	22.6	1986	1,129.0*	24,270,616	20.6
1959	1,441.1	3,713,850	0.4	1987	971.6	24,625,254	-13.9
1960	1,691.8	4,333,049	17.4	1988	1,186.3*	25,059,444	22.1
1961	1,735.0	4,966,324	2.6	1989	1,275.9*	25,525,131	7.5
1962	1,957.8	5,680,921	12.8	1990	856.5*	25,837,756	-32.9
1963	2,096.3	6,446,071	7.1	1991	190.1*	25,907,125	-77.8
1964	2,301.0	7,288,237	9.8	1992	1,057.2	26,294,061	456.3
1965	2,360.3	8,149,746	2.6	1993	1,881.8	26,980,918	78.0
1966	2,484.1	9,056,443	5.2	1994	2,006.6	27,713,327	6.6
1967	2,499.8	9,968,870	0.6	1995	2,006.6	28,445,736	-
1968	2,613.5	10,925,411	4.5	1996	2,005.6	29,179,785	-
1969	2,773.4	11,937,702	6.1	1997	2,007.1	29,912,377	0.1
1970	2,989.6	13,028,906	7.8	1998	2,051.5	30,661,174	2.2
1971	3,196.7	14,195,701	6.9	1999	1,872.7	31,344,710	-8.7
1972	3,283.0	15,397,279	2.7	2000	1,996.1	32,075,282	6.6
1973	3,020.4	16,499,725	-8.0				

Notes: Figures include share of production from Neutral Zone.

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

Graph 9:

Iraq



Graph 10:

Kuwait



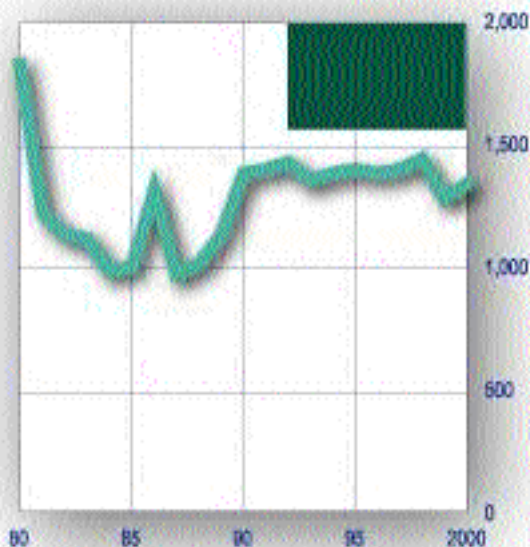
## Cumulative crude oil production in OPEC Members (1,000 b)

## SP Libyan AJ

Year	Daily average	Cumulative	% change in daily av	Year	Daily average	Cumulative	% change in daily av
1961	18.2	6,643		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	2000	1,347.2	21,990,504	4.7

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.

Graph 11:  
SP Libyan AJ



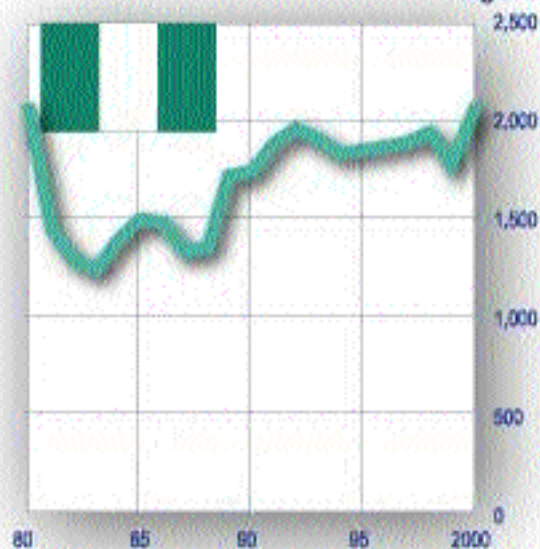
## Cumulative crude oil production in OPEC Members (1,000 b)

## Nigeria

Year	Daily average	Cumulative	% change in daily av	Year	Daily average	Cumulative	% change in daily av
1958	5.1	1,862		1980	2,058.0	8,389,456	-10.6
1959	11.2	5,950	119.6	1981	1,439.6	8,914,910	-30.0
1960	17.4	12,318	55.4	1982	1,287.0	9,384,665	-10.6
1961	46.0	29,108	164.4	1983	1,235.5	9,835,623	-4.0
1962	67.5	53,745	46.7	1984	1,388.0	10,343,631	12.3
1963	76.5	81,668	13.3	1985	1,498.9	10,890,729	8.0
1964	120.2	125,661	57.1	1986	1,466.6	11,426,038	-2.2
1965	274.2	225,744	128.1	1987	1,323.0	11,908,933	-9.8
1966	417.6	378,168	52.3	1988	1,340.0*	12,399,367	1.3
1967	319.1	494,640	-23.6	1989	1,716.3	13,025,816	28.1
1968	141.3	546,355	-55.7	1990	1,726.7	13,656,062	0.6
1969	540.3	743,565	282.4	1991	1,893.1	14,347,043	9.6
1970	1,083.1	1,138,896	100.5	1992	1,957.0	15,063,305	3.4
1971	1,531.2	1,697,784	41.4	1993	1,905.2	15,758,703	-2.6
1972	1,815.7	2,362,331	18.6	1994	1,820.9	16,423,324	-4.4
1973	2,054.3	3,112,150	13.1	1995	1,842.6	17,095,870	1.2
1974	2,255.0	3,935,225	9.8	1996	1,863.1	17,777,753	1.1
1975	1,783.2	4,586,093	-20.9	1997	1,876.7	18,462,763	0.7
1976	2,066.8	5,342,537	15.9	1998	1,939.0*	19,170,515	3.3
1977	2,085.1	6,103,598	0.9	1999	1,781.5	19,820,763	-8.1
1978	1,897.0	6,796,000	-9.0	2000	2,053.6	20,572,380	15.3
1979	2,302.0	7,636,228	21.3				

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

Graph 12:  
Nigeria



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

## Qatar

Year	Daily average	Cumulative	% change in daily av	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	2000	648.2	6,032,054	6.5

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		1970	3,799.1	13,283,848	18.1
1939	10.8	4,453	671.4	1971	4,768.9	15,024,497	25.5
1940	13.9	9,540	28.7	1972	6,016.3	17,226,462	26.2
1941	11.8	13,847	-15.1	1973	7,596.2	19,999,075	26.3
1942	12.4	18,373	5.1	1974	8,479.7	23,094,166	11.6
1943	13.3	23,228	7.3	1975	7,075.4	25,676,687	-16.6
1944	21.3	31,024	60.2	1976	8,577.2	28,815,932	21.2
1945	58.4	52,340	174.2	1977	9,199.9	32,173,898	7.3
1946	164.2	112,273	181.2	1978	8,301.1	35,203,793	-9.8
1947	246.2	202,136	49.9	1979	9,532.6	38,683,202	14.8
1948	390.3	344,986	58.5	1980	9,900.5	42,306,785	3.9
1949	476.7	518,981	22.1	1981	9,808.0	45,886,705	-0.9
1950	546.7	718,527	14.7	1982	6,483.0	48,253,000	-33.9
1951	761.5	996,474	39.3	1983	4,539.4	49,909,884	-30.0
1952	824.8	1,298,351	8.3	1984	4,079.1	51,402,828	-10.1
1953	844.6	1,606,630	2.4	1985	3,175.0	52,561,686	-22.2
1954	961.8	1,957,687	13.9	1986	4,784.2	54,307,919	50.7
1955	976.6	2,314,146	1.5	1987	3,975.2	55,758,849	-16.9
1956	1,002.8	2,681,171	2.7	1988	5,090.6*	57,622,007	28.1
1957	1,030.8	3,057,413	2.8	1989	5,064.5	59,470,549	-0.5
1958	1,058.5	3,443,765	2.7	1990	6,412.5	61,811,112	26.6
1959	1,152.7	3,864,501	8.9	1991	8,117.8	64,774,109	26.6
1960	1,313.5	4,345,242	13.9	1992	8,331.7	67,823,511	2.6
1961	1,480.1	4,885,478	12.7	1993	8,047.7	70,760,921	-3.4
1962	1,642.9	5,485,137	11.0	1994	8,049.0	73,698,806	-
1963	1,786.0	6,137,027	8.7	1995	8,023.4	76,627,347	-0.3
1964	1,896.5	6,831,146	6.2	1996	8,102.3	79,592,789	1.0
1965	2,205.3	7,636,080	16.3	1997	8,011.7	82,517,060	-1.1
1966	2,601.8	8,585,737	18.0	1998	8,280.2	85,539,333	3.4
1967	2,805.0	9,609,562	7.8	1999	7,564.7	88,300,448	-8.6
1968	3,042.9	10,723,264	8.5	2000	8,094.5	91,263,035	7.0
1969	3,216.2	11,897,177	5.7				

Note: Figures include share of production from Neutral Zone.

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

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

## United Arab Emirates

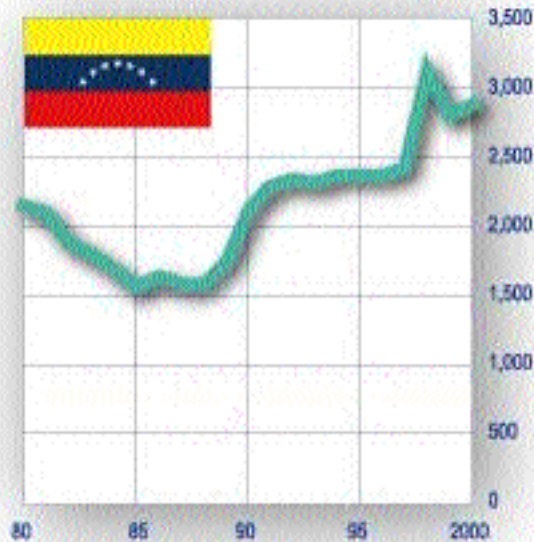
Year	Daily average	Cumulative	% change in daily av	Year	Daily average	Cumulative	% change in daily av
1962	14.2	5,183		1982	1,248.8	8,168,382	-16.9
1963	48.2	22,776	239.4	1983	1,149.0	8,587,775	-8.0
1964	186.8	91,145	287.6	1984	1,069.0	8,979,037	-7.0
1965	282.2	194,148	51.1	1985	1,012.6*	9,348,624	-5.3
1966	360.0	325,548	27.6	1986	1,146.0*	9,766,918	13.2
1967	382.1	465,014	6.1	1987	1,281.1*	10,234,502	11.8
1968	496.6	646,770	30.0	1988	1,359.4*	10,732,031	6.1
1969	627.8	875,917	26.4	1989	1,641.3*	11,331,110	20.7
1970	779.6	1,160,471	24.2	1990	1,818.5*	11,994,858	10.8
1971	1,059.5	1,547,188	35.9	1991	2,093.6*	12,759,028	15.1
1972	1,202.7	1,987,377	13.5	1992	2,241.1*	13,579,260	7.0
1973	1,532.6	2,546,776	27.4	1993	2,159.3	14,367,399	-3.6
1974	1,678.6	3,159,465	9.5	1994	2,166.5	15,158,184	0.3
1975	1,663.8	3,766,752	-0.9	1995	2,148.0	15,942,204	-0.9
1976	1,936.4	4,475,475	16.4	1996	2,161.3	16,733,239	0.6
1977	1,998.7	5,205,004	3.2	1997	2,160.7	17,521,895	-
1978	1,830.5	5,873,137	-8.4	1998	2,244.1	18,340,991	3.9
1979	1,830.7	6,541,339	-	1999	2,048.8	19,088,803	-8.7
1980	1,701.9	7,164,231	-7.0	2000	2,174.7	19,884,744	6.1
1981	1,502.3	7,712,570	-11.7				

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

Graph 15:  
United Arab Emirates



Graph 16:  
Venezuela





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

## Venezuela

Year	Daily average	Cumulative	% change in daily av	Year	Daily average	Cumulative	% change in daily av
1917	0.3	110		1959	2,771.0	12,823,814	6.4
1918	0.9	438	200.0	1960	2,846.1	13,865,487	2.7
1919	0.8	730	-11.1	1961	2,919.9	14,931,250	2.6
1920	1.3	1,206	62.5	1962	3,199.8	16,099,177	9.6
1921	4.0	2,666	207.7	1963	3,247.9	17,284,661	1.5
1922	6.1	4,892	52.5	1964	3,392.8	18,526,426	4.5
1923	11.9	9,236	95.1	1965	3,472.9	19,794,034	2.4
1924	24.9	18,349	109.2	1966	3,371.1	21,024,486	-2.9
1925	54.6	38,278	119.3	1967	3,542.1	22,317,352	5.1
1926	97.7	73,939	78.9	1968	3,604.8	23,636,709	1.8
1927	165.5	134,346	69.4	1969	3,594.1	24,948,556	-0.3
1928	289.5	240,303	74.9	1970	3,708.0	26,301,976	3.2
1929	372.8	376,375	28.8	1971	3,549.1	27,597,397	-4.3
1930	370.5	511,608	-0.6	1972	3,219.9	28,775,880	-9.3
1931	320.2	628,481	-13.6	1973	3,366.0	30,004,470	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	1,148,231	9.0	1977	2,237.9	33,603,767	-2.5
1936	422.5	1,302,866	3.8	1978	2,165.5	34,394,184	-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	36,816,192	-2.6
1940	502.3	2,065,051	-10.4	1982	1,895.0	37,507,867	-10.1
1941	621.3	2,291,825	23.7	1983	1,800.8	38,165,159	-5.0
1942	405.9	2,439,979	-34.7	1984	1,695.5	38,785,712	-5.8
1943	491.5	2,619,376	21.1	1985	1,564.0	39,356,572	-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	40,533,332	-4.4
1946	1,064.3	3,588,277	20.1	1988	1,578.1	41,110,930	0.2
1947	1,191.5	4,023,175	12.0	1989	1,747.4	41,748,731	10.7
1948	1,338.8	4,513,176	12.4	1990	2,135.2	42,528,079	22.2
1949	1,321.4	4,995,487	-1.3	1991	2,286.2	43,362,542	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	6,824,663	5.8	1994	2,367.9	45,934,305	1.8
1953	1,765.0	7,468,888	-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	9,847,239	13.9	1998	3,120.0	49,692,719	29.4
1957	2,779.2	10,861,647	13.1	1999	2,800.4	50,714,865	-10.2
1958	2,604.8	11,812,399	-6.3	2000	2,891.0	51,772,971	3.2

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

World crude oil production by country, 1996–2000 (1,000 b/d)

	1996	1997	1998	1999	2000	% change 00/99
<b>North America</b>	<b>7,857.4</b>	<b>7,869.5</b>	<b>7,623.1</b>	<b>7,234.5</b>	<b>7,233.0</b>	–
Canada	1,392.8	1,418.0	1,371.2	1,353.0	1,411.3	4.3
USA	6,464.6	6,451.4	6,251.9	5,881.5	5,821.6	–1.0
<b>Latin America</b>	<b>8,162.7</b>	<b>8,481.6</b>	<b>9,477.1</b>	<b>9,128.4</b>	<b>9,295.2</b>	<b>1.8</b>
Argentina	782.0	834.2	846.9	801.5	759.9	–5.2
Brazil	783.8	841.6	975.4	1,101.6	1,233.0	11.9
Chile	9.1	8.5	8.1	7.7	7.8	1.2
Colombia	625.1	652.5	746.9	815.5	686.7	–15.8
Ecuador	393.6	386.8	377.9	372.1	391.4	5.2
Mexico	2,858.2	3,022.4	3,070.6	2,906.1	3,012.1	3.6
Peru	120.3	118.3	115.6	105.9	99.2	–6.4
Trinidad & Tobago	129.1	123.8	122.6	125.0	119.5	–4.4
Venezuela	2,381.0	2,411.0	3,120.0	2,800.4	2,891.0	3.2
Others	80.5	82.7	93.0	92.6	94.6	2.2
<b>Eastern Europe</b>	<b>6,930.8</b>	<b>7,093.0</b>	<b>7,083.3</b>	<b>7,212.0</b>	<b>7,629.6</b>	<b>5.8</b>
Albania	9.0	8.1	7.0	6.2	6.3	1.5
Hungary	37.4	33.2	31.3	29.0	26.9	–7.0
Romania	129.0	129.0	125.0	118.0	118.0	–
Former USSR	6,743.8	6,912.1	6,907.5	7,044.9	7,459.4	5.9
Others	11.7	10.6	12.6	13.9	18.9	35.8
<b>Western Europe</b>	<b>6,081.4</b>	<b>6,130.3</b>	<b>6,055.2</b>	<b>6,096.7</b>	<b>6,238.4</b>	<b>2.3</b>
Denmark	208.6	230.9	236.5	296.7	362.7	22.3
France	42.3	35.6	34.2	30.5	28.4	–7.1
Germany	56.4	55.5	56.9	53.9	61.9	14.9
Italy	101.6	107.8	104.7	83.4	74.1	–11.2
Netherlands	57.0	56.0	53.6	51.2	27.6	–46.2
Norway	3,030.8	3,062.9	2,908.0	2,880.7	3,182.0	10.5
Turkey	67.3	67.8	68.0	60.2	54.1	–10.2
United Kingdom	2,418.1	2,422.1	2,506.4	2,569.9	2,378.1	–7.5
Former Yugoslavia	55.0	49.0	46.6	42.7	41.5	–2.9
Others	44.4	42.7	40.3	27.5	28.1	2.2
<b>Middle East</b>	<b>19,019.3</b>	<b>19,606.6</b>	<b>21,108.5</b>	<b>20,279.9</b>	<b>21,437.2</b>	<b>5.7</b>
Bahrain	174.3	182.4	185.0	176.4	180.5	2.3
IR Iran	3,596.0	3,603.4	3,714.0	3,439.0	3,661.3	6.5
Iraq	740.4	1,383.9	2,181.1	2,719.8*	2,810.0*	3.3
Kuwait <sup>1</sup>	2,005.6	2,007.1	2,051.5	1,872.7	1,996.1	6.6
Oman	882.6	899.6	896.1	903.3	898.7	–0.5
Qatar	393.1	405.0	618.1	608.5	648.2	6.5
Saudi Arabia <sup>1</sup>	8,102.3	8,011.7	8,280.2	7,564.7	8,094.5	7.0
Syrian Arab Republic	607.0	572.0	553.4	537.5	529.1	–1.6
United Arab Emirates	2,161.3	2,160.7	2,244.1	2,048.8	2,174.7	6.1
Yemen	356.7	380.8	385.1	409.2	444.2	8.6
<b>Africa</b>	<b>6,416.7</b>	<b>6,589.8</b>	<b>6,708.6</b>	<b>6,348.5</b>	<b>6,771.5</b>	<b>6.7</b>
Algeria	805.7	846.1	827.3	749.6	796.0	6.2
Angola	679.2	713.6	734.4	765.0	745.0	–2.6
Cameroon	92.5	100.0	100.0	100.0	100.7	0.7
Congo	210.2	265.0	265.0	265.0	265.0	–
Egypt	844.0	822.6	790.1	755.7	695.0	–8.0
Gabon	361.2	367.5	359.9	340.0	327.4	–3.7
SP Libyan AJ	1,394.0	1,395.8	1,449.0*	1,287.2*	1,347.2	4.7
Nigeria	1,863.1	1,876.7	1,939.0*	1,781.5	2,053.6	15.3
Tunisia	86.3	78.4	78.8	79.9	76.1	–4.8
Others	80.4	124.0	164.9	224.6	365.6	62.8
<b>Asia and Pacific</b>	<b>6,965.4</b>	<b>7,082.9</b>	<b>6,957.2</b>	<b>7,068.1</b>	<b>7,220.1</b>	<b>2.1</b>
Australia	535.2	567.8	536.9	518.5	699.8	35.0
Brunei	148.4	147.0	141.3	166.8	177.9	6.7
China	3,173.2	3,252.4	3,152.2	3,211.9	3,228.3	0.5
India	661.1	678.7	658.8	655.8	645.7	–1.5
Indonesia	1,326.7	1,330.4	1,315.4	1,355.5	1,272.5	–6.1
Malaysia	646.6	624.2	639.6	617.5	599.5	–2.9
New Zealand	44.3	59.2	47.0	41.4	35.9	–13.2
Others	429.9	423.2	466.0	500.8	560.5	11.9
<b>Total world</b>	<b>61,433.7</b>	<b>62,853.7</b>	<b>65,012.9</b>	<b>63,368.1</b>	<b>65,824.9</b>	<b>3.9</b>
<b>OPEC</b>	<b>24,769.2</b>	<b>25,431.8</b>	<b>27,739.7</b>	<b>26,227.8</b>	<b>27,745.0</b>	<b>5.8</b>
<b>OPEC percentage</b>	<b>40.3</b>	<b>40.5</b>	<b>42.7</b>	<b>41.4</b>	<b>42.1</b>	

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

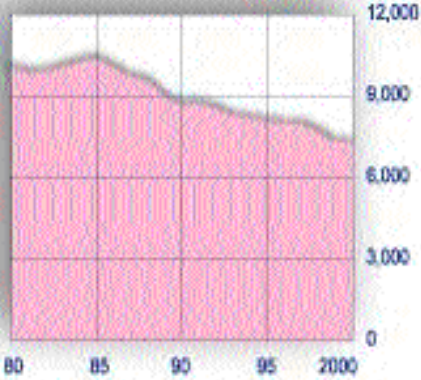
1. Including share of production from Neutral Zone.

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

**Graph 17:**  
World crude oil production, 1980–2000  
(1,000 b/d)



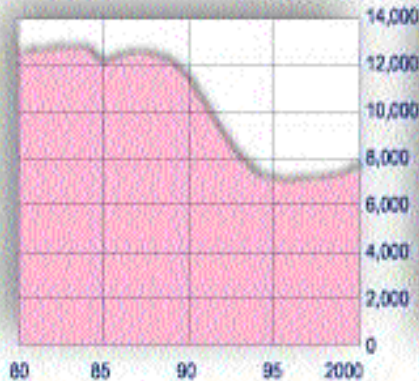
**Graph 18:**  
North America



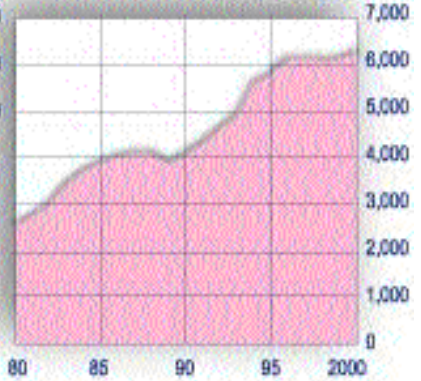
**Graph 19:**  
Latin America



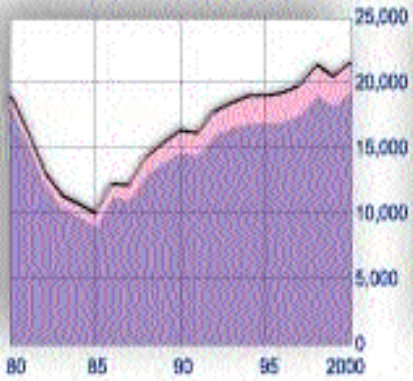
**Graph 20:**  
Eastern Europe



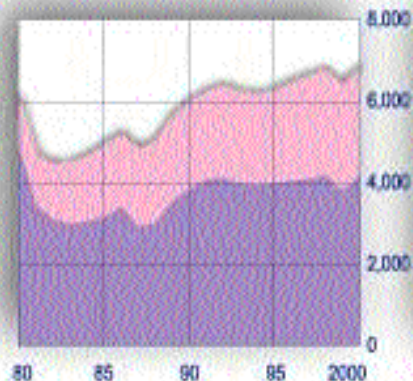
**Graph 21:**  
Western Europe



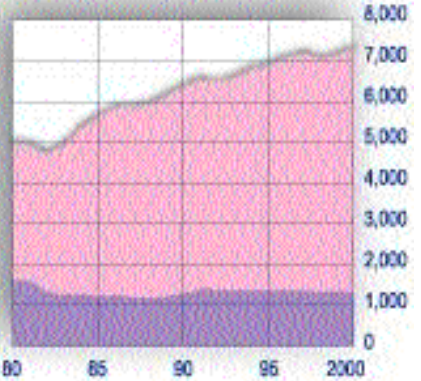
**Graph 22:**  
Middle East



**Graph 23:**  
Africa



**Graph 24:**  
Asia and Pacific



Breakdown of natural gas production in OPEC Members, 1996–2000  
(million standard cu m)

	1996	1997	1998	1999	2000	% change 00/99
<b>Algeria</b>						
<b>Gross production</b>	<b>151,818</b>	<b>155,721</b>	<b>157,188</b>	<b>155,835</b>	<b>170,179</b>	<b>9.2</b>
Marketed production	67,114	75,730	80,876	85,848	88,617	3.2
Flaring	7,486	6,927	6,931	6,733	6,800	1.0
Reinjection	71,481	67,118	63,959	58,204	69,162	18.8
Shrinkage	5,737	5,946	5,422	5,050	5,600	10.9
<b>Indonesia</b>						
<b>Gross production</b>	<b>88,560</b>	<b>88,680</b>	<b>84,380</b>	<b>86,880</b>	<b>82,167</b>	<b>-5.4</b>
Marketed production	66,660	67,150	64,250	70,960	68,365	-3.7
Flaring	5,000	4,900	5,000	4,810	4,807	-0.1
Reinjection	15,500	15,190	13,730	6,480	4,453	-31.3
Shrinkage	1,400	1,440	1,400	4,630	4,542	-1.9
<b>IR Iran</b>						
<b>Gross production</b>	<b>86,010</b>	<b>82,600</b>	<b>89,000</b>	<b>104,605</b>	<b>122,379</b>	<b>17.0</b>
Marketed production	40,410	47,000	50,000	56,755	60,147	6.0
Flaring	12,000	11,000	10,000	12,500	12,550	0.4
Reinjection	30,000	21,000	25,000	29,850	44,132	47.8
Shrinkage	3,600	3,600	4,000	5,500	5,550	0.9
<b>Iraq</b>						
<b>Gross production</b>	<b>3,480</b>	<b>3,800</b>	<b>4,000</b>	<b>4,380</b>	<b>4,350</b>	<b>-0.7</b>
Marketed production	3,240	3,050	2,950	3,180	3,150	-0.9
Flaring	50	500	800	950	950	-
Reinjection	-	-	-	-	-	-
Shrinkage	190	250	250	250	250	-
<b>Kuwait</b>						
<b>Gross production</b>	<b>10,892</b>	<b>10,870</b>	<b>11,081</b>	<b>10,144</b>	<b>11,200</b>	<b>10.4</b>
Marketed production	9,302	9,270	9,491	8,688	9,600	10.5
Flaring	500	510	500	458	500	9.2
Reinjection	-	-	-	-	-	-
Shrinkage	1,090	1,090	1,090	998	1,100	10.2
<b>SP Libyan AJ</b>						
<b>Gross production</b>	<b>12,640</b>	<b>12,910</b>	<b>12,600</b>	<b>9,200</b>	<b>10,150</b>	<b>10.3</b>
Marketed production	6,420	6,570	6,360	5,200	6,000	15.4
Flaring	1,810	1,850	1,830	1,300	1,050	-19.2
Reinjection	3,810	3,890	3,810	2,100	2,500	19.0
Shrinkage	600	600	600	600	600	-
<b>Nigeria</b>						
<b>Gross production</b>	<b>36,830</b>	<b>32,280</b>	<b>31,750</b>	<b>30,700</b>	<b>34,860</b>	<b>13.6</b>
Marketed production	5,460	5,850	5,900	6,950	12,460	79.3
Flaring	27,320	22,600	20,900	18,850	17,200	-8.8
Reinjection	3,930	3,230	4,200	4,000	4,000	-
Shrinkage	120	600	750	900	1,200	33.3
<b>Qatar</b>						
<b>Gross production</b>	<b>18,950</b>	<b>23,710</b>	<b>26,200</b>	<b>29,300</b>	<b>37,150</b>	<b>26.8</b>
Marketed production	13,700	17,400	19,580	22,050	29,100	32.0
Flaring	-	-	-	-	-	-
Reinjection	3,250	3,710	3,860	4,000	4,250	6.3
Shrinkage	2,000	2,600	2,760	3,250	3,800	16.9

Breakdown of natural gas production in OPEC Members, 1996–2000  
(million standard cu m)

	1996	1997	1998	1999	2000	% change 00/99
<b>Saudi Arabia</b>						
<b>Gross production</b>	<b>46,260</b>	<b>47,550</b>	<b>48,140</b>	<b>48,690</b>	<b>53,460</b>	<b>9.8</b>
Marketed production	44,510	45,840	46,720	46,200	49,810	7.8
Flaring	930	990	430	310	570	83.9
Reinjection	250	300	100	50	100	100.0
Shrinkage	570	420	890	2,130	2,980	39.9
<b>United Arab Emirates</b>						
<b>Gross production</b>	<b>45,930</b>	<b>48,090</b>	<b>48,980</b>	<b>51,000</b>	<b>52,590</b>	<b>3.1</b>
Marketed production	33,800	36,310	37,070	38,990	39,840	2.2
Flaring	390	1,520	1,500	1,300	1,290	-0.8
Reinjection	8,510	7,000	7,150	7,450	8,100	8.7
Shrinkage	3,230	3,260	3,260	3,260	3,360	3.1
<b>Venezuela</b>						
<b>Gross production</b>	<b>55,105</b>	<b>59,153</b>	<b>61,350</b>	<b>57,066</b>	<b>61,878</b>	<b>8.4</b>
Marketed production	29,730	30,211	31,440	26,771	27,801	3.8
Flaring	4,200	4,430	4,400	3,702	4,874	31.7
Reinjection	15,258	18,440	18,710	19,712	20,407	3.5
Shrinkage	5,917	6,072	6,800	6,881	8,796	27.8
<b>OPEC</b>						
<b>Gross production</b>	<b>556,475</b>	<b>565,364</b>	<b>574,669</b>	<b>587,800</b>	<b>640,363</b>	<b>8.9</b>
Marketed production	320,346	344,381	354,637	371,592	394,890	6.3
Flaring	59,686	55,227	52,291	50,913	50,591	-0.6
Reinjection	151,989	139,878	140,519	131,846	157,104	19.2
Shrinkage	24,454	25,878	27,222	33,449	37,778	12.9

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

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

World marketed production of natural gas by country, 1996–2000 (*million standard cu m*)

	1996	1997	1998	1999	2000	% change 00/99
<b>North America</b>	<b>697,549</b>	<b>700,829</b>	<b>700,054</b>	<b>704,690</b>	<b>723,465</b>	<b>2.7</b>
Canada	163,630	165,580	170,300	177,370	183,290	3.3
United States	533,919	535,249	529,754	527,320	540,175	2.4
<b>Latin America</b>	<b>109,950</b>	<b>114,471</b>	<b>122,670</b>	<b>125,251</b>	<b>132,451</b>	<b>5.7</b>
Argentina	26,570	27,380	29,590	34,570	37,410	8.2
Bolivia	3,090	3,170	3,030	2,470	3,320	34.4
Brazil	5,050	5,520	5,800	6,170	7,290	18.2
Colombia	4,740	3,970	6,260	5,180	5,700	10.0
Mexico	29,300	31,700	34,330	36,150	34,840	-3.6
Trinidad & Tobago	8,570	9,300	9,300	11,730	13,970	19.1
Venezuela	29,730	30,211	31,440	26,771	27,801	3.8
Others	2,900	3,220	2,920	2,210	2,120	-4.1
<b>Eastern Europe</b>	<b>740,350</b>	<b>694,510</b>	<b>714,320</b>	<b>726,720</b>	<b>744,500</b>	<b>2.4</b>
Hungary	4,640	4,370	3,850	3,400	3,420	0.6
Poland	3,600	3,300	3,740	3,650	3,900	6.8
Romania	17,500	15,700	14,600	14,600	13,600	-6.8
Former USSR	714,130	670,680	691,710	704,710	723,240	2.6
Others	480	460	420	360	340	-5.6
<b>Western Europe</b>	<b>278,990</b>	<b>271,960</b>	<b>271,640</b>	<b>277,020</b>	<b>281,170</b>	<b>1.5</b>
Denmark	6,460	7,880	7,580	7,770	8,170	5.1
Germany	21,320	21,520	21,000	22,430	21,240	-5.3
Italy	20,220	19,460	19,010	17,480	15,700	-10.2
Netherlands	89,650	81,840	79,910	72,030	67,750	-5.9
Norway	40,920	45,940	46,200	49,880	51,140	2.5
United Kingdom	89,950	85,840	89,020	98,710	108,330	9.7
Others	10,470	9,480	8,920	8,720	8,840	1.4
<b>Middle East</b>	<b>159,962</b>	<b>178,680</b>	<b>187,161</b>	<b>196,193</b>	<b>215,727</b>	<b>10.0</b>
Bahrain	6,570	7,970	8,290	8,410	8,570	1.9
IR Iran	40,410	47,000	50,000	56,755	60,147	6.0
Iraq	3,240	3,050	2,950	3,180	3,150	-0.9
Kuwait	9,302	9,270	9,491	8,688	9,600	10.5
Oman	4,120	6,970	7,010	5,590	9,110	63.0
Qatar	13,700	17,400	19,580	22,050	29,100	32.0
Saudi Arabia	44,510	45,840	46,720	46,200	49,810	7.8
Syrian Arab Republic	4,020	4,560	5,750	6,040	6,100	1.0
United Arab Emirates	33,800	36,310	37,070	38,990	39,840	2.2
Others	290	310	300	290	300	3.4
<b>Africa</b>	<b>96,174</b>	<b>106,410</b>	<b>111,876</b>	<b>118,138</b>	<b>130,847</b>	<b>10.8</b>
Algeria	67,114	75,730	80,876	85,848	88,617	3.2
Egypt	13,400	13,500	13,740	14,670	18,300	24.7
SP Libyan AJ	6,420	6,570	6,360	5,200	6,000	15.4
Nigeria	5,460	5,850	5,900	6,950	12,460	79.3
Others	3,780	4,760	5,000	5,470	5,470	-

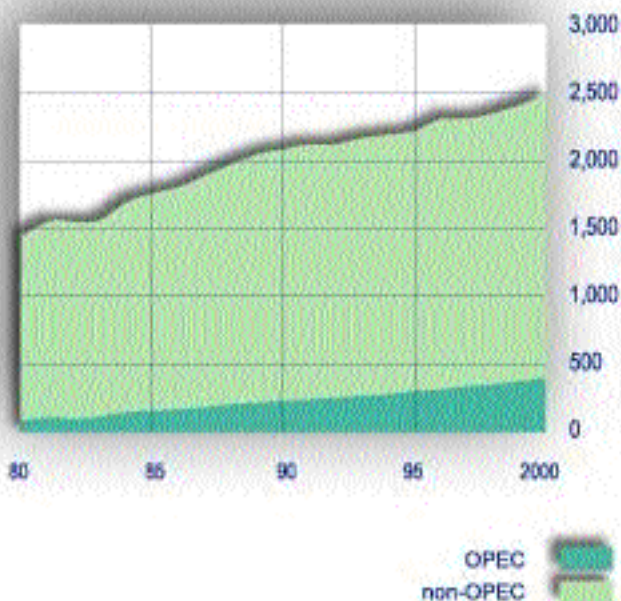
World marketed production of natural gas by country, 1996–2000 (million standard cu m)

	1996	1997	1998	1999	2000	% change 00/99
<b>Asia and Pacific</b>	<b>227,740</b>	<b>239,190</b>	<b>241,880</b>	<b>258,390</b>	<b>269,275</b>	<b>4.2</b>
Australia	28,350	30,430	30,960	31,700	32,800	3.5
Bangladesh	7,560	7,630	8,200	9,050	9,700	7.2
Brunei	9,210	9,180	8,920	9,450	9,890	4.7
China	18,990	21,200	22,190	24,190	27,100	12.0
India	19,720	20,300	21,540	21,300	22,500	5.6
Indonesia	66,660	67,150	64,250	70,960	68,365	-3.7
Malaysia	34,830	38,400	38,800	40,270	42,420	5.3
New Zealand	4,630	4,590	4,810	5,300	5,500	3.8
Pakistan	19,720	19,780	20,100	22,200	24,230	9.1
Thailand	12,130	15,230	16,100	17,710	18,620	5.1
Others	5,940	5,300	6,010	6,260	8,150	30.2
<b>Total world</b>	<b>2,310,715</b>	<b>2,306,050</b>	<b>2,349,601</b>	<b>2,406,402</b>	<b>2,497,435</b>	<b>3.8</b>
<b>OPEC</b>	<b>320,346</b>	<b>344,381</b>	<b>354,637</b>	<b>371,592</b>	<b>394,890</b>	<b>6.3</b>
<b>OPEC percentage</b>	<b>13.9</b>	<b>14.9</b>	<b>15.1</b>	<b>15.4</b>	<b>15.8</b>	

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

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

**Graph 25:**  
World marketed gas production, 1980–2000  
(bn cu m)



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



## Crude oil production by companies in OPEC Members 1996–2000 (1,000 b/d)

	1996	1997	1998*	1999*	2000*	% change 00/99
<b>Algeria</b>						
Sonatrach	773.5	813.8	770.5	698.1	741.3	6.2
Total Algérie	8.2	8.0	7.8	7.1	7.5	6.2
Medaloil	na	na	na	na	na	na
Hispanoil	na	na	na	na	na	na
Braspetro	na	na	na	na	na	na
<b>Total</b>	<b>805.7</b>	<b>846.1</b>	<b>827.3</b>	<b>749.6</b>	<b>796.0</b>	<b>6.2</b>

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.

	1996	1997*	1998*	1999*	2000	% change 00/99
<b>Indonesia</b>						
Pertamina	65.0	65.2	61.3	57.6	45.9	-20.3
PT Stanvac	na	na	na	na	na	na
Calasiatic/Topco	na	na	na	na	na	na
<b>Total production sharing</b>	<b>1,152.5</b>	<b>1,155.7</b>	<b>1,086.4</b>	<b>1,021.2</b>	<b>1,150.0</b>	<b>12.6</b>
PT Caltex	616.1	617.8	580.7	545.9	693.5	27.0
Inpex	na	na	na	na	na	na
Arri	61.7	61.9	58.2	54.7	54.7	-
Arco	na	na	na	na	na	na
Hudbay Oil	na	na	na	na	na	na
Total Indonesie	77.8	78.0	73.3	68.9	21.5	-68.8
Calasiatic/Topco	-	-	-	-	-	-
Unocal	54.4	54.5	51.3	48.2	55.4	14.9
Petromer Trend	na	na	na	na	na	na
Conoco	29.7	29.8	28.0	26.3	47.8	81.8
Maxus SES	92.1	92.3	86.8	81.6	126.7	55.3
Asamera North, South	3.0	3.0	2.8	2.6	na	-
Tesoro	na	na	na	na	na	na
Marathon	18.4	18.4	17.3	16.3	na	-
CSR	na	na	na	na	na	na
Hufco	na	na	na	na	na	na
Kodeco Energy	2.9	2.9	2.7	2.6	3.8	48.8
Vico	50.8	50.9	47.9	45.0	na	-
PTSI	7.4	7.4	7.0	6.6	na	-
Lasmo	5.1	5.1	4.8	4.5	na	-
PT Stanvac (Rimau)	na	na	na	na	na	na
Others	133.2	133.6	125.6	118.0	146.6	24.2
<b>Total</b>	<b>1,326.7</b>	<b>1,330.4</b>	<b>1,315.4</b>	<b>1,355.5</b>	<b>1,272.5</b>	<b>-6.1</b>

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.

	1996	1997	1998	1999	2000	% change 00/99
<b>IR Iran</b>						
NIOC	3,596.0	3,603.4	3,714.0	3,439.0	3,661.3	6.5
<b>Total</b>	<b>3,596.0</b>	<b>3,603.4</b>	<b>3,714.0</b>	<b>3,439.0</b>	<b>3,661.3</b>	<b>6.5</b>

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



## Crude oil production by companies in OPEC Members 1996–2000 (1,000 b/d)

	1996	1997	1998	1999	2000	% change 00/99
<b>Iraq</b>						
INOC	740.4	1,383.9	2,181.1	2,719.8	2,810.0	3.3
<b>Total</b>	<b>740.4</b>	<b>1,383.9</b>	<b>2,181.1</b>	<b>2,719.8</b>	<b>2,810.0</b>	<b>3.3</b>

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

	1996*	1997*	1998*	1999*	2000*	% change 00/99
<b>Kuwait</b>						
KOC	1,812.0	1,813.4	1,853.5	1,692.0	1,803.4	6.6
AOC	193.6	193.7	198.0	180.7	na	na
<b>Total</b>	<b>2,005.6</b>	<b>2,007.1</b>	<b>2,051.5</b>	<b>1,872.7</b>	<b>1,996.1</b>	<b>6.6</b>

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

	1996	1997	1998	1999	2000	% change 00/99
<b>SP Libyan AJ</b>						
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
<b>Total</b>	<b>1,394.0</b>	<b>1,395.8</b>	<b>1,449.0</b>	<b>1,287.2</b>	<b>1,347.2</b>	<b>4.7</b>

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.

	1996	1997*	1998*	1999*	2000*	% change 00/99
<b>Nigeria</b>						
Shell/NNPC	859.1	865.4	894.3	821.5	947.0	–
Chevron/NNPC	370.2	372.9	385.4	354.1	408.0	–
Mobil/NNPC	276.0	278.0	287.2	263.9	304.2	–
Agip/NNPC	143.4	144.5	149.3	137.2	158.1	–
Elf/NNPC	122.3	123.2	127.3	116.9	134.8	–
Texaco/NNPC	52.2	52.6	54.4	49.9	57.6	–
Pan Ocean	3.3	3.3	3.4	3.1	3.6	–
Tenneco	na	na	na	na	na	–
Phillips	na	na	na	na	na	–
Others	18.6	18.7	19.4	17.8	20.5	–
<b>Production sharing</b>	na	na	na	na	na	–
Ashland	17.9	18.0	18.6	17.1	19.7	–
<b>Total</b>	<b>1,863.1</b>	<b>1,876.7</b>	<b>1,939.0</b>	<b>1,781.5</b>	<b>2,053.6</b>	<b>15.3</b>

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 1996–2000 (1,000 b/d)

Qatar	1996	1997*	1998*	1999*	2000*	% change
						00/99
QGPC						
Offshore	263.9	271.9	416.7	408.5	435.2	–
Onshore	129.2	133.1	201.4	200.0	213.0	–
<b>Total</b>	<b>393.1</b>	<b>405.0</b>	<b>618.1</b>	<b>608.5</b>	<b>648.2</b>	<b>6.5</b>

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

Saudi Arabia	1996	1997	1998	1999	2000	% change
						00/99
Aramco	na	na	na	na	na	na
AOC	na	na	198.0	na	na	na
Getty Oil Company	na	na	na	na	na	na
<b>Total</b>	<b>8,102.3</b>	<b>8,011.7</b>	<b>8,280.2</b>	<b>7,564.7</b>	<b>8,094.5</b>	<b>7.0</b>

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	1996	1997*	1998*	1999*	2000*	% change
						00/99
<b>Abu Dhabi</b>						
ADCO	1,008.7	1,008.4	1,047.3	956.2	1,014.9	–
ADMA	459.6	459.4	477.2	435.6	462.4	–
Total	29.1	29.0	30.2	27.5	29.2	–
ADOC	22.8	22.8	23.7	21.7	23.0	–
Amerada Hess	10.1	10.1	10.4	9.5	10.1	–
Zadco	319.2	319.1	331.4	302.6	321.2	–
<b>Dubai</b>						
DPC	305.2	305.1	316.9	289.3	307.1	–
<b>Sharjah</b>						
Buttes	6.7	6.7	7.0	6.4	6.8	–
<b>Total</b>	<b>2,161.3</b>	<b>2,160.7</b>	<b>2,244.1</b>	<b>2,048.8</b>	<b>2,174.7</b>	<b>6.1</b>

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	1996	1997*	1998*	1999*	2000*	% change
						00/99
Lagoven	938.8	950.6	1,230.1	–	–	–
Maraven	784.7	794.6	1,028.3	–	–	–
Meneven	–	–	–	–	–	–
Corpoven	657.5	665.8	861.6	–	–	–
PDVSA	–	–	–	2,800.4	2,891.0	3.2
<b>Total</b>	<b>2,381.0</b>	<b>2,411.0</b>	<b>3,120.0</b>	<b>2,800.4</b>	<b>2,891.0</b>	<b>3.2</b>

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

Parent companies' percentage equity in companies holding producing rights  
in OPEC Members, 2000

	BP Amoco <sup>1</sup>	TotalFinaElf <sup>2</sup>	Exxon <sup>3</sup>	Mobil <sup>3</sup>	Shell	Chevron	Texaco	Government or NOC	Others
<b>Algeria</b>									
Sonatrach	-	-	-	-	-	-	-	100.00	-
Total Algérie	-	85.00	-	-	-	-	-	15.00	-
Medaloil	-	-	-	-	-	-	-	51.00	49.00
Hispanoil	-	-	-	-	-	-	-	51.00	49.00
Braspetro	-	-	-	-	-	-	-	51.00	49.00
<b>Indonesia</b>									
Pertamina	-	-	-	-	-	-	-	100.00	-
PT Stanvac	-	-	50.00	50.00	-	-	-	-	-
Calasiatic/Topco	-	-	-	-	-	50.00	50.00	-	-
<b>Production sharing</b>									
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
<b>IR Iran</b>									
NIOC	-	-	-	-	-	-	-	100.00	-
<b>Iraq</b>									
INOC	-	-	-	-	-	-	-	100.00	-
<b>Kuwait</b>									
KOC	-	-	-	-	-	-	-	100.00	-
AOC	-	-	-	-	-	-	-	20.00	80.00
<b>SP Libyan AJ</b>									
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 <sup>2</sup>	-	-	-	-	-	-	-	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, 2000

	BP Amoco <sup>1</sup>	TotalFinaElf <sup>2</sup>	Exxon <sup>3</sup>	Mobil <sup>3</sup>	Shell	Chevron	Texaco	Government or NOC	Others
<b>Nigeria</b>								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
<b>Production sharing</b>									
Ashland	-	-	-	-	-	-	-	50.00	50.00
<b>Qatar</b>									
QGPC	-	-	-	-	-	-	-	100.00	-
<b>Saudi Arabia</b>									
Aramco	-	-	-	-	-	-	-	100.00	-
AOC	-	-	-	-	-	-	-	20.00	80.00
Getty Oil Company	-	-	-	-	-	-	-	-	100.00
<b>United Arab Emirates</b>									
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
<b>Venezuela</b>									
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,  
1996–2000 (1,000 b/d)

	1996	1997	1998	1999	2000
<b>Algeria</b>	<b>806</b>	<b>846</b>	<b>827</b>	<b>750</b>	<b>796</b>
Total Algérie <sup>1</sup>	8	8	8	7	8
Government or NOC	774	814	771	699	741
Others	24	24	49	44	47
<b>Indonesia</b>	<b>1,327</b>	<b>1,330</b>	<b>1,315</b>	<b>1,356</b>	<b>1,273</b>
Total Indonésie <sup>1</sup>	78	78	77	80	75
Exxon <sup>2</sup>	20	20	20	20	19
Mobil <sup>2</sup>	63	63	62	64	60
Chevron	308	309	305	315	295
Texaco	308	309	305	315	295
Government or NOC	65	65	64	66	62
Others	485	486	481	496	465
<b>IR Iran</b>	<b>3,596</b>	<b>3,603</b>	<b>3,714</b>	<b>3,439</b>	<b>3,661</b>
Government or NOC	3,596	3,603	3,714	3,439	3,661
Others	–	–	–	–	–
<b>Iraq</b>	<b>740</b>	<b>1,384</b>	<b>2,181</b>	<b>2,720</b>	<b>2,810</b>
Government or NOC	740	1,384	2,181	2,720	2,810
Others	–	–	–	–	–
<b>Kuwait</b>	<b>2,006</b>	<b>2,007</b>	<b>2,052</b>	<b>1,873</b>	<b>1,996</b>
Government or NOC	1,812	1,813	1,853	1,692	1,803
Others	194	194	198	181	193
<b>SP Libyan AJ</b>	<b>1,394</b>	<b>1,396</b>	<b>1,449</b>	<b>1,287</b>	<b>1,347</b>
Government or NOC	1,038	1,039	1,079	958	1,003
Others	356	357	370	329	344
<b>Nigeria</b>	<b>1,863</b>	<b>1,877</b>	<b>1,939</b>	<b>1,782</b>	<b>2,054</b>
TotalFinaElf <sup>1</sup>	49	49	51	47	54
Mobil <sup>2</sup>	110	111	115	105	121
Shell	258	260	269	247	284
Chevron	158	159	164	151	174
Texaco	10	10	10	10	11
Government or NOC	1,118	1,126	1,164	1,069	1,233
Others	160	161	167	153	176
<b>Qatar</b>	<b>393</b>	<b>405</b>	<b>618</b>	<b>609</b>	<b>648</b>
Government or NOC	393	405	618	609	648
Others	–	–	–	–	–
<b>Saudi Arabia</b>	<b>8,102</b>	<b>8,012</b>	<b>8,280</b>	<b>7,565</b>	<b>8,095</b>
Government or NOC	7,940	7,852	8,082	7,384	7,901
Others	162	160	198	181	194
<b>United Arab Emirates</b>	<b>2,161</b>	<b>2,161</b>	<b>2,244</b>	<b>2,049</b>	<b>2,175</b>
BP Amoco <sup>3</sup>	163	163	169	155	164
TotalFinaElf <sup>1</sup>	176	176	183	167	177
Exxon <sup>2</sup>	75	75	78	71	75
Mobil <sup>2</sup>	75	75	78	71	75
Shell	96	96	100	91	97
Government or NOC	1,163	1,163	1,208	1,103	1,171
Others	413	413	429	392	416
<b>Venezuela</b>	<b>2,381</b>	<b>2,411</b>	<b>3,120</b>	<b>2,800</b>	<b>2,891</b>
Government or NOC	2,381	2,411	3,120	2,800	2,891
Others	–	–	–	–	–

Parent companies' estimated gross share of crude oil production in OPEC Members,  
1996–2000 (1,000 b/d)

	1996	1997	1998	1999	2000
<b>OPEC</b>	<b>24,769</b>	<b>25,432</b>	<b>27,740</b>	<b>26,230</b>	<b>27,746</b>
BP Amoco <sup>3</sup>	163	163	169	155	164
TotalFinaElf <sup>1</sup>	311	312	319	301	314
Exxon <sup>2</sup>	95	95	98	92	95
Mobil <sup>2</sup>	248	249	255	241	257
Shell	354	356	368	338	381
Chevron	466	468	470	466	470
Texaco	318	319	316	324	306
Government or NOC	21,020	21,675	23,854	22,539	23,924
Others	1,794	1,795	1,891	1,775	1,835

**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, 1996–2000 (1,000 b/d)

	Location	1996	1997	1998	1999	2000
<b>Algeria</b>		<b>462.2</b>	<b>462.2</b>	<b>462.2</b>	<b>462.2</b>	<b>487.0</b>
Sonatrach	Skikda	323.4	323.4	323.4	323.4	324.7
	Arzew	53.9	53.9	53.9	53.9	54.1
	El Harrach	58.2	58.2	58.2	58.2	54.1
	Hassi Messaoud	26.7	26.7	26.7	26.7	54.1
	In Amenas	–	–	–	–	–
<b>Indonesia</b>		<b>891.2</b>	<b>891.2</b>	<b>929.7</b>	<b>929.7</b>	<b>1,057.0</b>
Pertamina	Musi <sup>1</sup>	119.3	119.3	109.1	109.1	135.2
	Balongan	112.5	112.5	125.0	125.0	125.0
	Dumai	108.0	108.0	114.0	114.0	120.0
	Cilacap	270.0	270.0	285.0	285.0	348.0
	Balikpapan	228.2	228.2	240.9	240.9	260.0
	Sungai Pakning	45.0	45.0	47.5	47.5	50.0
	Pangkalan Brandan	4.8	4.8	4.8	4.8	5.0
	Wonokromo	na	na	na	na	na
	Cepu	3.4	3.4	3.4	3.4	3.8
	Kasim	–	–	–	–	10.0
<b>IR Iran</b>		<b>1,092.0</b>	<b>1,208.0</b>	<b>1,524.0</b>	<b>1,524.0</b>	<b>1,474.0</b>
NIOC	Abadan	297.0	297.0	450.0	450.0	400.0
	Arak	135.0	135.0	150.0	150.0	150.0
	Tehran	220.0	220.0	225.0	225.0	225.0
	Isfahan	254.0	254.0	265.0	265.0	265.0
	Tabriz	99.0	99.0	112.0	112.0	112.0
	Shiraz	40.0	40.0	40.0	40.0	40.0
	Kermanshah	27.0	27.0	30.0	30.0	30.0
	Lavan	20.0	20.0	20.0	20.0	20.0
	Masjid-I-Sulaiman	–	–	–	–	–
	Bandar Abbas	–	116.0	232.0	232.0	232.0
<b>Iraq</b>		<b>603.0</b>	<b>603.0</b>	<b>603.0</b>	<b>603.0</b>	<b>603.0</b>
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
<b>Kuwait</b>		<b>797.0</b>	<b>874.5</b>	<b>829.6</b>	<b>899.0</b>	<b>899.0</b>
KNPC	Mina Al-Ahmadi	387.0	426.5	409.4	450.0	450.0
	Shuaiba	159.0	193.0	181.5	194.0	194.0
	Mina Abdullah	251.0	255.0	238.7	255.0	255.0
<b>SP Libyan AJ</b>		<b>342.0</b>	<b>342.0</b>	<b>342.0</b>	<b>342.0</b>	<b>380.0</b>
NOC	Zawia	108.0	108.0	108.0	108.0	120.0
	Marsa El-Brega	9.0	9.0	9.0	9.0	10.0
	Ras Lanuf	198.0	198.0	198.0	198.0	220.0
	Tobruk	18.0	18.0	18.0	18.0	20.0
	Sarir	9.0	9.0	9.0	9.0	10.0

## Refinery capacity in OPEC Members by location, 1996–2000 (1,000 b/d)

	Location	1996	1997	1998	1999	2000
<b>Nigeria</b>		<b>424.0</b>	<b>424.0</b>	<b>424.0</b>	<b>424.0</b>	<b>445.0</b>
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	60.0
	Port Harcourt New	135.0	135.0	135.0	135.0	150.0
<b>Qatar</b>		<b>63.0</b>	<b>63.0</b>	<b>63.0</b>	<b>63.0</b>	<b>63.0</b>
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
<b>Saudi Arabia</b>		<b>1,670.0</b>	<b>1,693.0</b>	<b>1,780.0</b>	<b>1,810.0</b>	<b>1,825.0</b>
Saudi Aramco	Ras Tanura	300.0	300.0	325.0	325.0	325.0
	Jeddah	90.0	88.0	60.0	60.0	60.0
	Riyadh	135.0	140.0	125.0	110.0	115.0
Getty	Mina Saud	–	–	–	–	–
AOC	Khafji	30.0	30.0	30.0	30.0	30.0
Saudi Aramco	Yanbu (domestic)	170.0	190.0	210.0	210.0	225.0
Saudi Aramco/Mobil	Yanbu (export)	320.0	320.0	320.0	365.0	365.0
Saudi Aramco/Shell	Jubail	300.0	300.0	310.0	310.0	305.0
Saudi Aramco/Petrola	Rabigh	325.0	325.0	400.0	400.0	400.0
<b>United Arab Emirates</b>		<b>246.0</b>	<b>291.0</b>	<b>291.0</b>	<b>411.0</b>	<b>420.0</b>
ADNOC	Al-Ruwais	126.0	126.0	126.0	126.0	140.0
	Umm Al-Narr	85.0	85.0	85.0	85.0	90.0
Metro Oil	Fujairah	35.0	80.0	80.0	80.0	70.0
Emirate Oil	Jebel Ali				120.0	120.0
<b>Venezuela</b>		<b>1,183.2</b>	<b>1,183.2</b>	<b>1,200.3</b>	<b>1,188.4</b>	<b>1,183.2</b>
PDVSA	Amuay	571.0	571.0	571.0	571.0	564.0
	Caripito	–	–	–	–	–
	Cardon	297.0	297.0	297.0	297.0	293.0
	San Lorenzo	–	–	–	–	–
	Bajo Grande	–	–	–	–	11.0
	Moron	–	–	–	–	–
	Tucupita	–	–	–	–	–
	Puerto La Cruz/El Chaure	195.0	195.0	200.2	200.2	200.2
	San Roque	5.2	5.2	5.2	5.2	–
	El Palito	115.0	115.0	126.9	115.0	115.0
	Barinas	–	–	–	–	–
<b>OPEC</b>		<b>7,773.6</b>	<b>8,035.1</b>	<b>8,448.8</b>	<b>8,656.3</b>	<b>8,836.2</b>

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

1. Plaju and Sungai Gerong.

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



## World refinery capacity by country, 1996–2000 (1,000 b/d)

	1996	1997	1998	1999	2000	% change 00/99
<b>North America</b>	<b>17,324.4</b>	<b>17,627.6</b>	<b>17,802.7</b>	<b>18,452.6</b>	<b>18,444.8</b>	–
Canada	1,851.8	1,851.8	1,872.7	1,911.7	1,906.3	–0.3
USA	15,472.6	15,775.8	15,930.0	16,541.0	16,538.5	0.0
<b>Latin America</b>	<b>7,457.9</b>	<b>7,922.6</b>	<b>7,606.3</b>	<b>7,664.6</b>	<b>7,826.7</b>	<b>2.1</b>
Argentina	665.0	666.5	652.7	661.8	639.1	–3.4
Brazil	1,256.1	1,662.3	1,772.3	1,783.3	1,918.1	7.6
Colombia	248.9	248.9	248.9	248.9	285.9	14.9
Mexico	1,520.0	1,520.0	1,525.0	1,525.0	1,525.0	–
Netherlands Antilles	490.0	525.0	250.0	320.0	320.0	–
Trinidad & Tobago	245.0	245.0	160.0	160.0	160.0	–
Venezuela	1,183.2	1,183.2	1,200.3	1,188.4	1,183.2	–0.4
Virgin Islands	545.0	545.0	545.0	525.0	525.0	–
Others	1,304.8	1,326.7	1,252.2	1,252.2	1,270.4	1.5
<b>Eastern Europe</b>	<b>12,125.4</b>	<b>11,976.2</b>	<b>11,294.4</b>	<b>11,317.3</b>	<b>9,972.2</b>	<b>–11.9</b>
Former USSR	10,340.5	10,170.5	9,748.8	9,761.7	8,399.6	–14.0
Others	1,784.9	1,805.6	1,545.6	1,555.6	1,572.6	1.1
<b>Western Europe</b>	<b>14,672.2</b>	<b>14,864.4</b>	<b>15,065.0</b>	<b>14,929.2</b>	<b>14,982.5</b>	<b>0.4</b>
Belgium	629.8	629.8	714.8	719.0	768.0	6.8
France	1,785.6	1,865.2	1,946.9	1,901.9	1,895.5	–0.3
Germany	2,108.3	2,183.7	2,246.0	2,275.3	2,259.0	–0.7
Italy	2,261.8	2,453.4	2,446.2	2,340.6	2,359.1	0.8
Netherlands	1,186.5	1,187.8	1,187.8	1,187.8	1,203.8	1.3
Spain	1,295.7	1,293.7	1,315.5	1,315.5	1,293.5	–1.7
United Kingdom	1,941.0	1,825.8	1,854.0	1,784.7	1,771.0	–0.8
Others	3,463.6	3,425.1	3,353.7	3,404.4	3,432.6	0.8
<b>Middle East</b>	<b>5,528.3</b>	<b>5,781.0</b>	<b>6,134.5</b>	<b>6,353.9</b>	<b>6,337.9</b>	<b>–0.3</b>
IR Iran	1,092.0	1,208.0	1,524.0	1,524.0	1,474.0	–3.3
Iraq	603.0	603.0	603.0	603.0	603.0	–
Kuwait	797.0	874.5	829.6	899.0	899.0	–
Qatar	63.0	63.0	63.0	63.0	63.0	–
Saudi Arabia	1,670.0	1,693.0	1,780.0	1,810.0	1,825.0	0.8
United Arab Emirates	246.0	291.0	291.0	411.0	420.0	2.2
Others	1,057.3	1,048.5	1,043.9	1,043.9	1,053.9	1.0
<b>Africa</b>	<b>2,833.3</b>	<b>2,888.3</b>	<b>2,944.5</b>	<b>2,982.5</b>	<b>3,282.5</b>	<b>10.1</b>
Algeria	462.2	462.2	462.2	462.2	487.0	5.4
Egypt	546.1	546.1	577.8	577.8	726.3	25.7
Gabon	20.0	17.1	17.1	17.1	17.1	–
SP Libyan AJ	342.0	342.0	342.0	342.0	380.0	11.1
Nigeria	424.0	424.0	424.0	424.0	445.0	5.0
Others	1,039.0	1,097.0	1,121.5	1,159.4	1,227.1	5.8
<b>Asia and Pacific</b>	<b>16,604.3</b>	<b>16,866.6</b>	<b>18,681.8</b>	<b>19,491.0</b>	<b>20,129.8</b>	<b>3.3</b>
Australia	771.3	762.1	807.1	812.4	846.5	4.2
China	2,967.0	2,967.0	4,346.8	4,346.8	4,346.8	–
India	1,086.4	1,086.4	1,141.5	1,857.7	2,113.2	13.8
Indonesia	891.2	891.2	929.7	929.7	1,057.0	13.7
Japan	4,989.0	4,966.0	5,059.5	4,997.7	4,962.1	–0.7
South Korea	2,211.3	2,450.1	2,450.1	2,450.1	2,460.1	0.4
Singapore	1,157.0	1,157.0	1,172.0	1,255.0	1,270.0	1.2
Taiwan	770.0	770.0	770.0	770.0	920.0	19.5
Others	1,761.2	1,816.8	2,005.1	2,071.6	2,154.1	4.0
<b>Total world</b>	<b>76,545.7</b>	<b>77,926.8</b>	<b>79,529.2</b>	<b>81,191.1</b>	<b>80,976.4</b>	<b>–0.3</b>
<b>OPEC</b>	<b>7,773.6</b>	<b>8,035.1</b>	<b>8,448.8</b>	<b>8,656.3</b>	<b>8,836.2</b>	<b>2.1</b>
<b>OPEC percentage</b>	<b>10.2</b>	<b>10.3</b>	<b>10.6</b>	<b>10.7</b>	<b>10.9</b>	

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, 1996–2000 (1,000 b/d)

	1996	1997	1998	1999	2000	% change 00/99
<b>Algeria</b>	<b>429.4</b>	<b>435.6</b>	<b>410.2</b>	<b>430.6</b>	<b>441.4</b>	<b>2.5</b>
Gasoline	55.2	47.1	48.2	54.3	45.6	-16.1
Kerosene	24.1	26.1	21.1	28.5	34.0	19.5
Distillates	127.4	135.3	128.5	134.3	130.0	-3.2
Residuals	104.0	108.5	98.9	105.7	104.5	-1.2
Others	118.8	118.6	113.4	107.8	127.3	18.1
<b>Indonesia</b>	<b>892.9</b>	<b>887.6</b>	<b>928.4<sup>r</sup></b>	<b>933.7<sup>r</sup></b>	<b>968.2</b>	<b>3.7</b>
Gasoline	166.7	171.5	191.0	193.5	193.5	-5.0
Kerosene	146.6	131.0	148.2	158.6	158.6	-1.0
Distillates	251.9	250.9	256.3	262.7	262.7	4.4
Residuals	77.4	78.1	77.8	74.4	87.4	17.4
Others	250.3	256.2	255.1	243.6	265.9	9.1
<b>IR Iran</b>	<b>957.0</b>	<b>974.4</b>	<b>1,337.8</b>	<b>1,361.2</b>	<b>1,316.4</b>	<b>-3.3</b>
Gasoline	151.5	154.2	179.7	189.0	182.6	-3.4
Kerosene	129.2	131.6	157.4	162.4	156.9	-3.4
Distillates	291.6	296.9	357.8	369.7	357.3	-3.4
Residuals	259.2	263.9	402.6	410.4	397.6	-3.1
Others	125.4	127.7	240.4	229.7	222.0	-3.4
<b>Iraq</b>	<b>438.3</b>	<b>444.5<sup>r</sup></b>	<b>459.1<sup>r</sup></b>	<b>442.9<sup>r</sup></b>	<b>493.2</b>	<b>11.4</b>
Gasoline	68.4	69.4 <sup>r</sup>	71.7	71.0	na	na
Kerosene	32.5	32.9 <sup>r</sup>	34.0	34.0	na	na
Distillates	135.1	137.0 <sup>r</sup>	141.5	140.0	na	na
Residuals	136.8	138.7 <sup>r</sup>	143.2	138.2	na	na
Others	65.6	66.6 <sup>r</sup>	68.7	59.7	na	na
<b>Kuwait</b>	<b>787.7</b>	<b>879.6</b>	<b>876.1</b>	<b>903.3</b>	<b>729.5</b>	<b>-19.2</b>
Gasoline	45.5	42.6	48.3	46.0	na	na
Kerosene	133.4	140.8	141.3	156.2	na	na
Distillates	224.3	259.7	251.6	266.1	na	na
Residuals	174.4	210.8	196.1	201.6	na	na
Others	210.0	225.7	238.7	233.4	na	na
<b>SP Libyan AJ</b>	<b>304.7</b>	<b>307.6</b>	<b>317.5<sup>r</sup></b>	<b>324.9<sup>r</sup></b>	<b>337.8</b>	<b>4.0</b>
Gasoline	45.8	46.1	47.4	47.7	49.0	2.7
Kerosene	36.4	36.9	36.9	36.0	34.8	-3.3
Distillates	86.7	87.3	87.0	86.0	85.5	-0.5
Residuals	87.6	88.2	93.2	98.3	101.7	3.5
Others	48.2	49.1	53.0	56.9	66.8	17.4
<b>Nigeria</b>	<b>193.0</b>	<b>192.5</b>	<b>113.6</b>	<b>131.1</b>	<b>88.6</b>	<b>-32.4</b>
Gasoline	61.2	61.0	36.0	39.5	21.4	-45.9
Kerosene	24.1	24.0	14.2	19.5	14.4	-26.4
Distillates	49.8	49.6	29.3	33.8	20.9	-38.1
Residuals	42.3	42.2	24.9	28.5	28.5	-0.2
Others	15.8	15.7	9.3	9.7	3.5	-64.1
<b>Qatar</b>	<b>60.9</b>	<b>55.4</b>	<b>60.1<sup>r</sup></b>	<b>59.8</b>	<b>58.4</b>	<b>-2.4</b>
Gasoline	14.2	12.3	13.6	13.5	na	na
Kerosene	10.4	9.4	9.8	9.8	na	na
Distillates	14.0	14.0	14.9	14.5	na	na
Residuals	18.4	16.4	18.3	18.1	na	na
Others	4.0	3.3	3.5	3.9	na	na

## Output of refined products by type in OPEC Members, 1996–2000 (1,000 b/d)

	1996	1997	1998	1999	2000	% change 00/99
<b>Saudi Arabia</b>	<b>1,641.0</b>	<b>1,584.4</b>	<b>1,600.3</b>	<b>1,593.2</b>	<b>1,649.7</b>	<b>3.5</b>
Gasoline	258.8	247.1	267.5	272.7	275.0	0.8
Kerosene	175.0	166.7	145.9	166.1	183.3	10.4
Distillates	526.0	525.9	529.7	517.4	543.0	4.9
Residuals	494.7	453.1	483.5	449.4	449.2	-0.1
Others	186.5	191.6	173.8	187.6	199.3	6.2
<b>United Arab Emirates</b>	<b>234.9</b>	<b>298.4</b>	<b>222.4</b>	<b>232.9</b>	<b>315.3</b>	<b>35.4</b>
Gasoline	34.1	35.2	35.2	34.0	29.6	-13.1
Kerosene	55.7	67.1	57.4	58.1	84.7	45.8
Distillates	66.0	75.6	66.8	72.8	79.7	9.4
Residuals	45.8	48.9	33.7	36.7	36.9	0.3
Others	33.3	71.6	29.3	31.1	84.4	171.1
<b>Venezuela</b>	<b>1,335.2</b>	<b>1,327.3</b>	<b>1,332.7<sup>r</sup></b>	<b>1,209.3</b>	<b>1,240.8</b>	<b>2.6</b>
Gasoline	181.4	186.5	342.8	197.7	201.3	1.8
Kerosene	85.7	90.9	92.6	96.0	93.8	-2.3
Distillates	390.5	392.9	402.0	354.6	339.9	-4.2
Residuals	243.2	226.0	240.0	211.1	260.3	23.3
Others	434.3	431.0	255.3	349.8	345.6	-1.2
<b>OPEC</b>	<b>7,275.0</b>	<b>7,387.4<sup>r</sup></b>	<b>7,658.1<sup>r</sup></b>	<b>7,622.9<sup>r</sup></b>	<b>7,639.4</b>	<b>0.2</b>
Gasoline	1,082.8	1,073.0 <sup>r</sup>	1,281.4	1,169.2	na	na
Kerosene	853.1	857.4 <sup>r</sup>	858.7	926.9	na	na
Distillates	2,163.3	2,225.0 <sup>r</sup>	2,265.3	2,241.1	na	na
Residuals	1,683.7	1,674.8 <sup>r</sup>	1,812.3	1,772.4	na	na
Others	1,492.1	1,557.2 <sup>r</sup>	1,440.4	1,513.4	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, 1996–2000 (1,000 b/d)

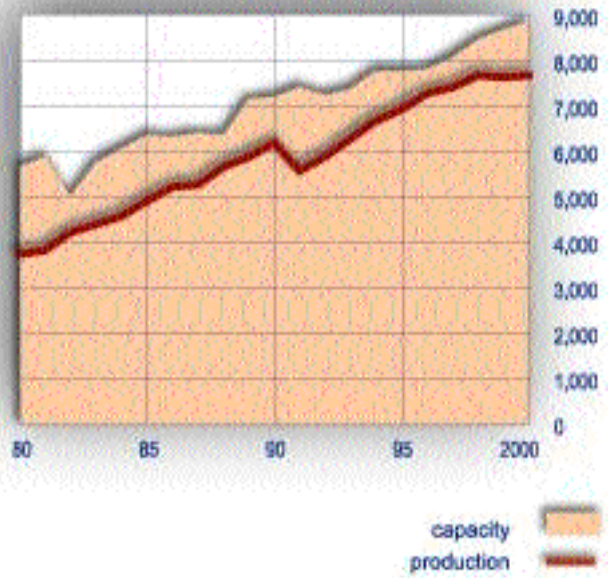
	1996	1997	1998	1999	2000	% change 00/99
<b>North America</b>	<b>18,355.2</b>	<b>18,675.2</b>	<b>18,918.4</b>	<b>18,934.9</b>	<b>19,318.2</b>	<b>2.0</b>
Canada	1,865.1	1,895.8	1,912.5	1,934.7	1,980.9	2.4
United States	16,490.0	16,779.4	17,005.9	17,000.1	17,337.3	2.0
<b>Latin America</b>	<b>6,511.0</b>	<b>6,587.3</b>	<b>6,755.0</b>	<b>6,790.2</b>	<b>6,854.7</b>	<b>0.9</b>
Argentina	490.7	533.4	551.3	546.9	529.4	-3.2
Brazil	1,412.0	1,519.8	1,632.0	1,767.6	1,813.6	2.6
Mexico	1,400.5	1,368.0	1,370.6	1,312.7	1,294.7	-1.4
Venezuela	1,335.2	1,327.3	1,332.7	1,209.3	1,240.8	2.6
Virgin Islands	396.0	411.0	421.0	418.0	422.0	1.0
Others	1,476.7	1,427.8	1,447.4	1,535.7	1,554.2	1.2
<b>Eastern Europe</b>	<b>5,813.8</b>	<b>5,839.8</b>	<b>5,743.0</b>	<b>5,674.7</b>	<b>5,818.8</b>	<b>2.5</b>
Bulgaria	140.2	121.9	108.7	108.3	129.1	19.2
Romania	277.6	259.5	260.7	210.3	216.5	3.0
Former USSR	4,681.4	4,695.3	4,586.3	4,571.9	4,676.7	2.3
Others	714.6	763.1	787.3	784.2	796.4	1.6
<b>Western Europe</b>	<b>14,590.2</b>	<b>14,885.9</b>	<b>15,262.6</b>	<b>14,572.8</b>	<b>14,812.2</b>	<b>1.6</b>
Belgium	726.3	756.7	784.6	741.2	787.8	6.3
France	1,783.1	1,889.0	1,953.5	1,754.0	1,802.2	2.7
Germany	2,449.8	2,356.4	2,484.6	2,447.3	2,466.9	0.8
Italy	1,830.1	1,946.8	2,026.8	1,936.3	1,995.0	3.0
Netherlands	1,733.5	1,729.9	1,733.1	1,661.3	1,750.0	5.3
Norway	308.4	324.9	312.4	326.2	325.9	-0.1
Portugal	260.4	276.2	296.3	284.1	259.0	-8.8
Spain	1,114.8	1,178.7	1,266.2	1,250.3	1,234.9	-1.2
United Kingdom	2,045.4	2,052.6	1,980.1	1,862.2	1,867.8	0.3
Others	2,338.5	2,374.6	2,425.0	2,309.9	2,322.6	0.5
<b>Middle East</b>	<b>5,059.5</b>	<b>5,190.5</b>	<b>5,533.5</b>	<b>5,578.8</b>	<b>5,558.8</b>	<b>-0.4</b>
IR Iran	957.0	974.4	1,337.8	1,361.2	1,316.4	-3.3
Iraq	438.3	444.5	459.1	442.9	493.2	11.4
Kuwait	787.7	879.6	876.1	903.3	729.5	-19.2
Qatar	60.9	55.4	60.1	59.8	58.4	-2.4
Saudi Arabia	1,641.0	1,584.4	1,600.3	1,593.2	1,649.7	3.5
United Arab Emirates	234.9	298.4	222.4	232.9	315.3	35.4
Others	939.8	953.8	977.8	985.4	996.3	1.1
<b>Africa</b>	<b>2,362.7</b>	<b>2,370.7</b>	<b>2,302.2</b>	<b>2,400.8</b>	<b>2,429.7</b>	<b>1.2</b>
Algeria	429.4	435.6	410.2	430.6	441.4	2.5
Egypt	553.8	559.9	577.4	585.4	597.7	2.1
Gabon	19.4	19.7	19.4	19.8	19.2	-2.6
SP Libyan AJ	304.7	307.6	317.5	324.9	337.8	4.0
Nigeria	193.0	192.5	113.6	131.1	88.6	-32.4
Others	862.4	855.3	864.0	909.1	944.9	3.9
<b>Asia and Pacific</b>	<b>15,537.9</b>	<b>16,332.8</b>	<b>16,273.4</b>	<b>17,030.0</b>	<b>17,607.4</b>	<b>3.4</b>
Australia	766.9	794.8	776.8	807.5	786.7	-2.6
China	2,753.5	2,838.2	2,962.4	3,522.9	3,871.3	9.9
India	1,278.8	1,310.4	1,379.1	1,413.3	1,478.3	4.6
Indonesia	892.9	887.6	928.4	933.7	968.2	3.7
Japan	4,381.5	4,513.8	4,446.3	4,377.1	4,357.6	-0.4
New Zealand	97.1	105.2	109.7	104.1	108.3	4.0
Philippines	356.0	361.8	331.0	329.7	343.8	4.3
Singapore	1,049.8	998.7	990.3	1,001.2	1,020.2	1.9
South Korea	2,012.5	2,494.2	2,355.2	2,481.1	2,526.7	1.8
Taiwan	670.5	693.4	707.2	723.4	739.3	2.2
Others	1,278.3	1,334.7	1,287.2	1,336.1	1,406.9	5.3
<b>Total world</b>	<b>68,230.3</b>	<b>69,882.2</b>	<b>70,788.2</b>	<b>70,982.2</b>	<b>72,399.8</b>	<b>2.0</b>
<b>OPEC</b>	<b>7,275.0</b>	<b>7,387.4</b>	<b>7,658.1</b>	<b>7,622.9</b>	<b>7,639.4</b>	<b>0.2</b>
<b>OPEC percentage</b>	<b>10.7</b>	<b>10.6</b>	<b>10.8</b>	<b>10.7</b>	<b>10.6</b>	

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

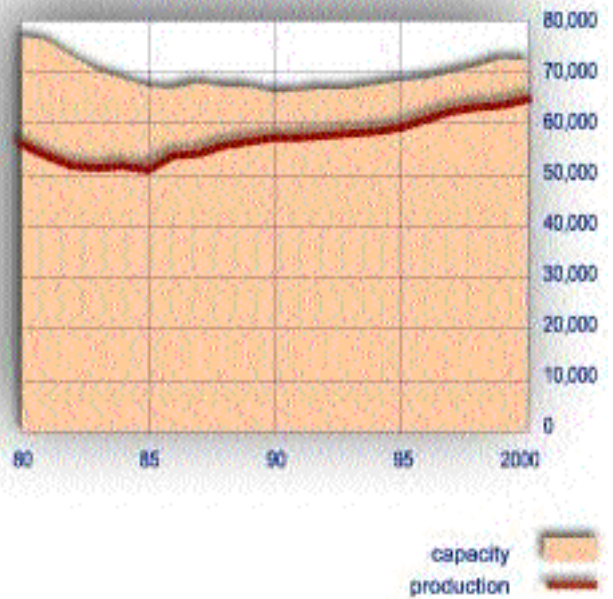
**Sources:** Direct communications to the Secretariat; UN, Energy Statistics Yearbook; OECD, Monthly Oil and Gas Statistics; BP Statistical Review; national sources; OAPC Report; OECD, Energy Statistics and Balances of non-OECD Countries.

Output of refined products vs refinery capacity, 1980–2000  
(1,000 b/d)

Graph 27:  
OPEC



Graph 28:  
non-OPEC



## Consumption of refined products by type in OPEC Members, 1996–2000 (1,000 b/d)

	1996	1997	1998	1999	2000	% change 00/99
<b>Algeria</b>	<b>168.7</b>	<b>163.6</b>	<b>171.2</b>	<b>175.8</b>	<b>184.0</b>	<b>4.7</b>
Gasoline	47.8	46.0	45.6	43.1	41.2	-4.4
Kerosene	6.8	7.4	7.2	7.0	8.2	16.1
Distillates	61.2	61.9	67.4	70.2	79	12.8
Residuals	0.4	0.3	0.3	0.3	0.4	32.4
Others	52.6	48.0	50.7	55.1	55.1	-
<b>Indonesia</b>	<b>865.4</b>	<b>946.9</b>	<b>896.7</b>	<b>947.5</b>	<b>1,034.3</b>	<b>9.2</b>
Gasoline	171.3	181.3	169.4	198.8	216.7	9.0
Kerosene	199.0	217.4	204.1	205.9	221.0	7.4
Distillates	358.4	395.1	380.1	385.2	428.0	11.1
Residuals	77.5	91.3	86.3	93.7	103.3	10.2
Others	59.1	61.8	56.8	63.9	65.4	2.2
<b>IR Iran</b>	<b>984.1</b>	<b>981.6</b>	<b>1,318.0</b>	<b>1,192.2</b>	<b>1,189</b>	<b>-0.3</b>
Gasoline	157.5	186.0	260.3	213.1	202	-5.2
Kerosene	130.4	154.7	210.6	175.2	165	-5.8
Distillates	375.2	342.4	430.9	360.7	348	-3.5
Residuals	232.3	194.5	253.5	254.8	230	-9.7
Others	88.6	104.0	162.7	188.4	244	29.5
<b>Iraq</b>	<b>594.5</b>	<b>601.4</b>	<b>620.7</b>	<b>599.6</b>	<b>655.3</b>	<b>9.3</b>
Gasoline	121.0	122.2	126.5	122.5	134.0	9.4
Kerosene	65.0	66.1	68.0	65.7	71.9	9.4
Distillates	178.3	180.9	185.1	178.3	194.3	9.0
Residuals	122.8	123.2	128.3	124.1	135.7	9.4
Others	107.5	109.0	112.7	109.1	119.5	9.5
<b>Kuwait</b>	<b>114.1</b>	<b>131.8</b>	<b>158.8</b>	<b>163.8</b>	<b>167.6</b>	<b>2.4</b>
Gasoline	36.3	39.6	41.3	39.4	36.3	-8.0
Kerosene	8.6	9.4	11.0	8.8	8.0	-8.9
Distillates	8.9	10.1	10.1	11.4	11.1	-2.6
Residuals	57.0	69.1	92.8	100.5	108.9	8.3
Others	3.3	3.7	3.5	3.6	3.3	-7.7
<b>SP Libyan AJ</b>	<b>175.3</b>	<b>174.1</b>	<b>170.8</b>	<b>167.8</b>	<b>155.5</b>	<b>-7.4</b>
Gasoline	39.3	39.1	43.9	47.2	42.2	-10.6
Kerosene	17.1	16.2	10.9	7.4	6.5	-11.5
Distillates	52.8	53.1	59.5	64.1	59.0	-8.0
Residuals	47.9	47.9	43.7	39.9	39.6	-0.8
Others	18.2	17.8	12.8	9.2	8.1	-11.9
<b>Nigeria</b>	<b>199.7</b>	<b>206.0</b>	<b>198.6</b>	<b>184.3</b>	<b>206.7</b>	<b>12.2</b>
Gasoline	93.0	93.2	90.0	84.2	111.7	32.8
Kerosene	42.0	40.8	39.6	37.2	25.6	-31.2
Distillates	42.5	47.3	45.4	42.4	46.6	9.9
Residuals	20.2	22.6	21.5	18.7	20.8	11.2
Others	2.0	2.0	2.0	1.8	2.0	11.0
<b>Qatar</b>	<b>19.3</b>	<b>21.6</b>	<b>23.2</b>	<b>22.2</b>	<b>23.6</b>	<b>6.5</b>
Gasoline	9.7	10.7	11.5	11.0	11.7	6.2
Kerosene	3.1	3.5	3.8	3.7	3.9	7.2
Distillates	5.6	6.4	6.8	6.5	6.9	6.8
Residuals	na	na	na	na	na	na
Others	0.9	1.0	1.1	1.0	1.1	6.0

## Consumption of refined products by type in OPEC Members, 1996–2000 (1,000 b/d)

	1996	1997	1998	1999	2000	% change 00/99
<b>Saudi Arabia</b>	<b>807.4</b>	<b>814.5</b>	<b>865.8</b>	<b>908.4</b>	<b>937.0</b>	<b>3.1</b>
Gasoline	253.1	258.4	271.9	269.8	273.3	1.3
Kerosene	57.8	57.6	56.8	52.9	55.3	4.6
Distillates	321.6	336.6	342.4	357.1	373	4.4
Residuals	117.0	101.4	132.1	166.2	170.4	2.5
Others	57.9	60.6	62.6	62.3	65.0	4.3
<b>United Arab Emirates</b>	<b>123.0</b>	<b>115.0</b>	<b>130.0</b>	<b>127.9</b>	<b>135.1</b>	<b>5.6</b>
Gasoline	33.0	36.0	39.0	34.3	32.6	-4.8
Kerosene	2.5	2.3	2.6	2.6	2.7	6.0
Distillates	50.0	38.0	52.0	51.4	58.1	13.0
Residuals	27.5	27.7	27.5	31.4	33.2	6.0
Others	10.0	11.0	9.0	8.4	8.4	-
<b>Venezuela</b>	<b>403.5</b>	<b>411.1</b>	<b>441.7</b>	<b>383.2</b>	<b>410.0</b>	<b>7.0</b>
Gasoline	185.3	187.7	194.6	199.5	208.2	4.4
Kerosene	10.7	11.2	7.1	6.7	6.2	-8.1
Distillates	75.1	76.0	80.2	73.6	82	10.7
Residuals	10.5	13.9	21.5	21.9	25.7	17.8
Others	121.9	122.4	138.3	81.6	88.3	8.3
<b>OPEC</b>	<b>4,455.0</b>	<b>4,567.7</b>	<b>4,995.4</b>	<b>4,872.7</b>	<b>5,098.0</b>	<b>4.4</b>
Gasoline	1,147.1	1,200.3	1,294.0	1,262.9	1,310.0	3.6
Kerosene	543.1	586.7	621.7	573.0	574.3	0.2
Distillates	1,529.6	1,547.6	1,659.9	1,600.9	1,685.5	5.0
Residuals	713.3	691.9	807.6	851.4	868.0	1.9
Others	522.0	541.3	612.2	584.4	660.2	11.5

## World consumption of refined products by country, 1996–2000 (1,000 b/d)

	1996	1997	1998	1999	2000	% change 00/99
<b>North America</b>	<b>18,983.9</b>	<b>19,373.4</b>	<b>19,701.0</b>	<b>20,392.8</b>	<b>20,663.0</b>	<b>1.3</b>
Canada	1,760.2	1,841.5	1,837.1	1,900.7	2,003.8	5.4
United States	17,221.2	17,529.4	17,861.5	18,489.6	18,656.6	0.9
Others	2.5	2.5	2.5	2.5	2.5	–
<b>Latin America</b>	<b>5,799.8</b>	<b>6,017.2</b>	<b>6,261.8</b>	<b>6,253.9</b>	<b>6,305.0</b>	<b>0.8</b>
Argentina	446.8	452.1	459.7	443.1	419.7	–5.3
Brazil	1,675.6	1,776.1	1,857.2	1,876.9	1,883.0	0.3
Colombia	256.1	263.1	262.1	234.7	226.3	–3.6
Ecuador	116.5	119.2	121.4	123.4	124.3	0.7
Mexico	1,885.6	1,947.1	1,976.9	2,028.6	2,067.5	1.9
Venezuela	403.5	411.1	441.7	383.2	410.0	7.0
Others	1,015.7	1,048.6	1,142.8	1,163.9	1,174.3	0.9
<b>Eastern Europe</b>	<b>5,399.7</b>	<b>5,532.6</b>	<b>5,370.0</b>	<b>5,186.4</b>	<b>4,909.7</b>	<b>–5.3</b>
Former Czechoslovakia	238.8	235.2	246.6	251.0	247.6	–1.3
Romania	240.9	247.0	228.3	224.9	221.0	–1.7
Former USSR	4,296.1	4,412.4	4,251.5	4,032.1	3,765.2	–6.6
Others	623.8	638.0	643.6	678.4	675.9	–0.4
<b>Western Europe</b>	<b>13,376.7</b>	<b>13,450.1</b>	<b>13,735.4</b>	<b>13,745.5</b>	<b>13,650.5</b>	<b>–0.7</b>
France	1,890.5	1,899.7	1,978.5	1,999.6	1,994.4	–0.3
Germany	2,840.6	2,827.8	2,833.7	2,747.3	2,689.5	–2.1
Italy	1,751.3	1,783.9	1,805.2	1,796.5	1,775.4	–1.2
Netherlands	431.8	453.0	447.7	464.9	471.5	1.4
Spain	1,087.5	1,129.9	1,219.4	1,260.3	1,289.2	2.3
United Kingdom	1,768.7	1,710.9	1,701.7	1,695.1	1,667.4	–1.6
Others	3,606.4	3,644.8	3,749.3	3,781.8	3,763.2	–0.5
<b>Middle East</b>	<b>3,364.5</b>	<b>3,397.8</b>	<b>3,841.9</b>	<b>3,767.8</b>	<b>3,870.3</b>	<b>2.7</b>
IR Iran	984.1	981.6	1,318.0	1,192.2	1,189.0	–0.3
Iraq	594.5	601.4	620.7	599.6	655.3	9.3
Kuwait	114.1	131.8	158.8	163.8	167.6	2.4
Qatar	19.3	21.6	23.2	22.2	23.6	6.5
Saudi Arabia	807.4	814.5	865.8	908.4	937.0	3.1
Syrian Arab Republic	239.1	247.7	255.4	269.1	274.1	1.9
United Arab Emirates	123.0	115.0	130.0	127.9	135.1	5.6
Others	483.0	484.1	470.0	484.7	488.6	0.8
<b>Africa</b>	<b>1,918.6</b>	<b>1,979.3</b>	<b>2,014.2</b>	<b>2,017.0</b>	<b>1,980.7</b>	<b>–1.8</b>
Algeria	168.7	163.6	171.2	175.8	184.0	4.7
Egypt	408.2	422.7	454.5	452.2	401.1	–11.3
SP Libyan AJ	175.3	174.1	170.8	167.8	155.5	–7.4
Nigeria	199.7	206.0	198.6	184.3	206.7	12.2
Tunisia	66.1	66.8	68.3	70.6	73.0	3.4
Others	900.7	946.1	950.9	966.4	960.4	–0.6
<b>Asia and Pacific</b>	<b>17,512.0</b>	<b>18,331.2</b>	<b>17,614.8</b>	<b>18,562.7</b>	<b>19,215.5</b>	<b>3.5</b>
Australia	812.0	821.4	840.4	838.9	829.2	–1.2
China	3,539.0	3,963.5	3,775.6	4,169.5	4,675.9	12.1
India	1,672.2	1,735.8	1,841.2	2,018.1	2,080.9	3.1
Indonesia	865.4	946.9	896.7	947.5	1,034.3	9.2
Japan	5,412.1	5,391.0	5,244.2	5,337.0	5,287.5	–0.9
New Zealand	117.6	124.2	122.3	126.1	132.7	5.2
South Korea	2,007.1	2,144.2	1,801.5	1,959.6	2,022.8	3.2
Thailand	689.3	702.4	691.9	690.7	663.7	–3.9
Others	2,397.5	2,501.8	2,401.0	2,475.2	2,488.5	0.5
<b>Total world</b>	<b>66,355.2</b>	<b>68,081.5</b>	<b>68,539.2</b>	<b>69,926.1</b>	<b>70,594.8</b>	<b>1.0</b>
<b>OPEC</b>	<b>4,455.0</b>	<b>4,567.7</b>	<b>4,995.4</b>	<b>4,872.7</b>	<b>5,098.0</b>	<b>4.6</b>
<b>OPEC percentage</b>	<b>6.7</b>	<b>6.7</b>	<b>7.3</b>	<b>7.0</b>	<b>7.2</b>	

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; OAPEC Report; OLADE.

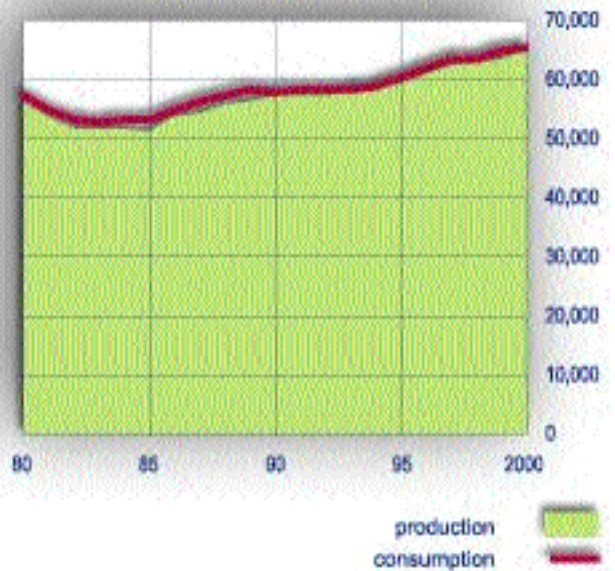


Production and consumption of refined products, 1980–2000  
(1,000 b/d)

**Graph 29:**  
OPEC



**Graph 30:**  
non-OPEC



## OPEC Members' crude oil exports by destination, 1996–2000 (1,000 b/d)

<b>Algeria</b>	1996	1997	1998	1999	2000*
<b>North America</b>	63.8	59.7	204.8	79.0	59.9
Canada	63.8	59.7	66.7	64.3	59.9
United States	–	–	138.0	14.7	–
<b>Latin America</b>	2.7	4.1	3.4	14.6	15.0
<b>Eastern Europe</b>	10.3	4.6	11.2	3.8	8.9
<b>Western Europe</b>	310.6	301.3	326.8	315.4	353.7
Belgium	–	–	–	–	3.6
France	78.2	101.6	103.8	82.8	71.2
Germany	45.1	–	36.0	31.5	74.1
Italy	94.5	84.7	102.0	117.1	130.7
Netherlands	–	2.9	8.7	8.5	2.0
Spain	18.6	23.8	31.1	36.6	30.1
United Kingdom	20.7	8.0	14.0	24.3	11.7
<b>Middle East</b>	–	–	–	–	–
<b>Africa</b>	3.4	3.4	3.3	1.7	–
<b>Asia and Pacific</b>	–	–	–	–	–
<b>Unspecified</b>	–	–	–	–	23.5
<b>Total world</b>	<b>390.8</b>	<b>373.1</b>	<b>549.4</b>	<b>414.6</b>	<b>461.1</b>

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

<b>Indonesia</b>	1996	1997	1998	1999	2000
<b>North America</b>	57.3	58.3	68.1	73.5	38.8
United States	57.3	58.3	68.1	73.5	38.8
<b>Latin America</b>	–	–	–	–	–
<b>Eastern Europe</b>	–	–	–	–	–
<b>Western Europe</b>	–	–	–	–	–
Italy	–	–	–	–	–
<b>Middle East</b>	–	–	0.6	0.7	1.5
<b>Africa</b>	–	–	–	–	–
<b>Asia and Pacific</b>	649.4	651.4	609.4	673.4	552.1
Australia	78.4	79.4	141.6	118.9	56.3
China	137.3	138.3	77.6	86.5	92.6
Japan	288.1	289.1	219.8	259.5	205.2
Philippines	4.1	5.1	2.8	1.2	–
South Korea	73.8	74.8	87.9	125.7	102.5
Singapore	23.4	24.4	42.4	33.2	42.9
Taiwan	21.9	22.9	27.8	28.6	25.1
<b>Unspecified</b>	–	–	–	34.3	30.1
<b>Total world</b>	<b>706.7</b>	<b>709.7</b>	<b>678.0</b>	<b>781.9</b>	<b>622.5</b>

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

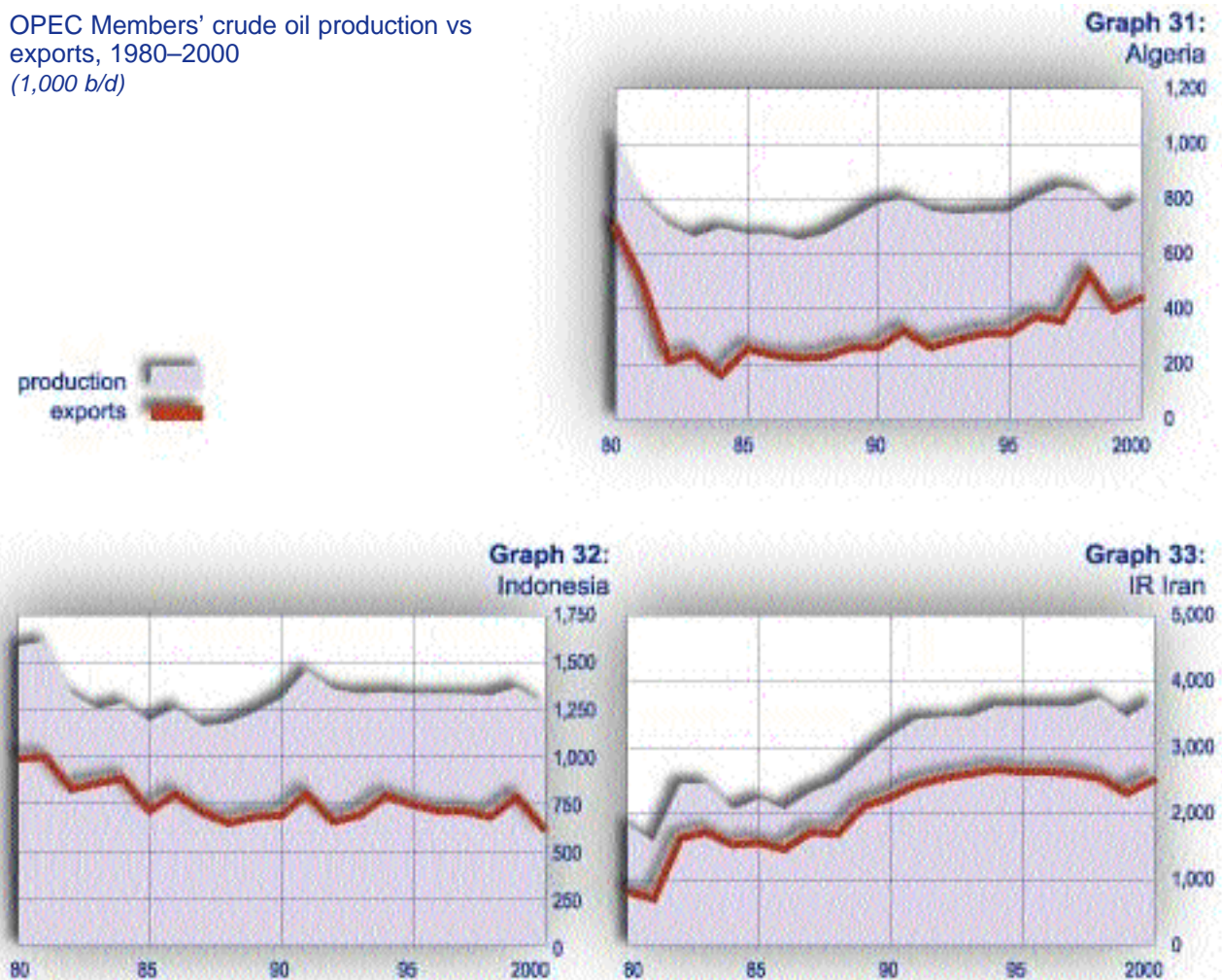
OPEC Members' crude oil exports by destination, 1996–2000 (1,000 b/d)

IR Iran	1996	1997	1998	1999*	2000*
<b>North America</b>	<b>39.5</b>	<b>32.5</b>	–	–	–
Canada	39.5	32.5	–	–	–
United States	–	–	–	–	–
<b>Latin America</b>	<b>60.0</b>	<b>35.0</b>	<b>50.0</b>	<b>50.0</b>	<b>60.0</b>
<b>Eastern Europe</b>	<b>155.0</b>	<b>145.0</b>	<b>120.0</b>	<b>100.0</b>	<b>110.0</b>
<b>Western Europe</b>	<b>1,145.5</b>	<b>1,065.0</b>	<b>1,033.9</b>	<b>949.2</b>	<b>920.8</b>
France	171.5	128.6	159.3	137.1	102.2
Germany	18.2	23.5	19.9	16.2	17.9
Italy	264.8	259.9	292.9	286.4	222.8
Netherlands	103.6	89.8	75.5	71.6	62.4
United Kingdom	15.9	–	9.1	–	–
<b>Middle East</b>	<b>20.0</b>	<b>25.0</b>	<b>25.0</b>	<b>25.0</b>	<b>30.0</b>
<b>Africa</b>	<b>190.0</b>	<b>200.0</b>	<b>190.0</b>	<b>150.0</b>	<b>200.0</b>
<b>Asia and Pacific</b>	<b>1,020.0</b>	<b>1,084.5</b>	<b>1,093.1</b>	<b>1,016.8</b>	<b>1,171.4</b>
Australia	–	–	–	–	–
Japan	429.6	465.2	460.3	496.6	490.5
<b>Unspecified</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>
<b>Total world</b>	<b>2,630.0</b>	<b>2,587.0</b>	<b>2,512.0</b>	<b>2,291.0</b>	<b>2,492.2</b>

Note: Corresponds to a fiscal year ending March 20.

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

OPEC Members' crude oil production vs exports, 1980–2000 (1,000 b/d)



## OPEC Members' crude oil exports by destination, 1996–2000 (1,000 b/d)

<b>Iraq</b>	1996	1997	1998*	1999*	2000*
<b>North America</b>	1.2	105.1	358.3	780.9	700.4
United States	1.2	91.7	345.2	754.4	654.8
<b>Latin America</b>	–	–	–	–	–
<b>Eastern Europe</b>	8.6	81.3	110.0	70.0	80.0
<b>Western Europe</b>	11.0	341.0	739.0	831.7	781.1
France	1.9	77.2	168.4	146.2	146.3
Germany	–	0.7	19.3	16.7	4.4
Italy	0.8	34.9	113.6	137.0	177.7
Netherlands	–	22.5	108.2	162.4	63.5
Spain	2.4	73.9	130.4	123.5	122.2
United Kingdom	–	–	–	–	–
<b>Middle East</b>	64.0	70.0	75.0	75.0	75.0
<b>Africa</b>	–	27.5	–	–	–
<b>Asia and Pacific</b>	3.3	121.7	135.3	232.2	227.4
Japan	3.3	15.1	17.2	98.3	72.0
<b>Unspecified</b>	–	–	–	141.0	132.0
<b>Total world</b>	88.1	746.6	1,417.6	2,130.9	1,995.9

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

<b>Kuwait</b>	1996	1997	1998	1999	2000*
<b>North America</b>	200.0	223.4	219.5	158.0	268.7
United States	200.0	223.4	219.3	158.0	268.7
<b>Latin America</b>	–	–	–	–	–
<b>Eastern Europe</b>	–	–	–	–	–
<b>Western Europe</b>	204.9	155.0	186.0	116.2	199.9
France	16.2	17.5	16.9	15.0	26.9
Germany	16.0	12.3	16.3	14.8	12.7
Italy	–	0.1	–	2.7	33.7
Netherlands	130.4	90.6	95.2	82.4	126.6
Spain	–	–	0.3	–	–
United Kingdom	32.1	32.0	18.6	–	–
<b>Middle East</b>	–	–	–	–	–
<b>Africa</b>	80.7	57.6	53.8	24.8	24.8
<b>Asia and Pacific</b>	727.7	692.8	724.1	647.2	699.2
Australia	5.5	4.2	4.3	1.1	0.9
Japan	347.3	401.5	391.9	346.4	395.7
<b>Unspecified</b>	10.9	5.4	6.8	1.9	52.0
<b>Total world</b>	1,224.2	1,134.2	1,190.2	948.2	1,244.7

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

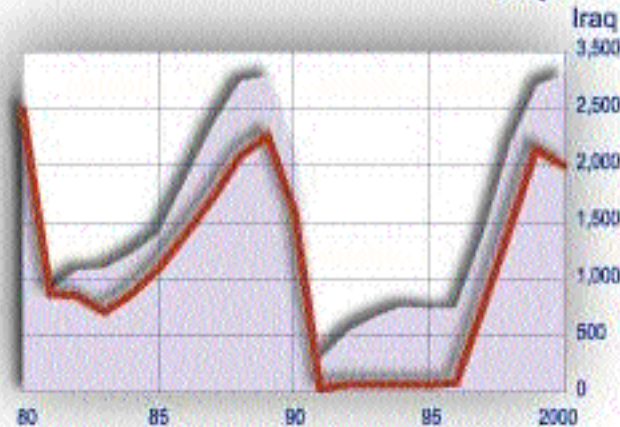
OPEC Members' crude oil exports by destination, 1996–2000 (1,000 b/d)

SP Libyan AJ	1996	1997	1998	1999	2000
North America	–	–	–	–	–
Latin America	–	–	–	–	–
Eastern Europe	10.0	3.0	5.0	7.5	3.5
Western Europe	1,078.4	1,084.7	1,131.0	974.2	986.5
Austria	22.2	23.9	30.6	22.9	12.9
Belgium	–	0.1	1.6	–	3.2
France	35.5	49.9	49.5	46.0	48.5
Germany	241.5	234.6	264.2	250.0	233.7
Italy	521.9	538.4	539.7	438.9	466.9
Netherlands	–	–	–	–	–
Spain	113.9	102.1	130.8	128.1	140.7
Switzerland	40.6	26.4	19.5	37.6	36.3
United Kingdom	4.9	–	–	18.5	7.1
Middle East	–	–	–	–	–
Africa	20.0	20.0	20.0	10.0	15.0
Asia and Pacific	15.0	8.0	5.0	–	–
Unspecified	–	–	–	–	–
<b>Total world</b>	<b>1,123.4</b>	<b>1,115.7</b>	<b>1,161.0</b>	<b>991.7</b>	<b>1,005.0</b>

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

production  
exports

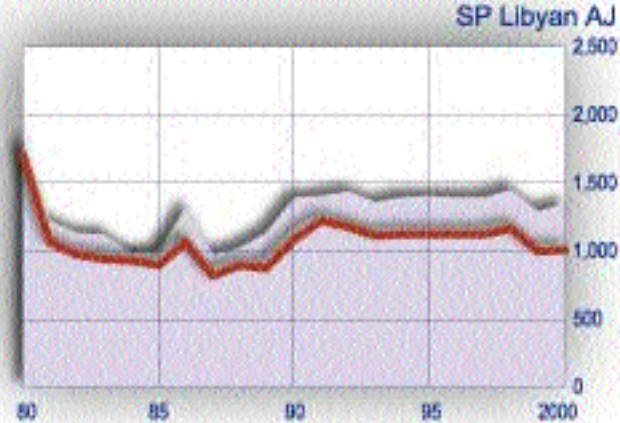
Graph 34:



Graph 35:



Graph 36:



## OPEC Members' crude oil exports by destination, 1996–2000 (1,000 b/d)

<b>Nigeria</b>	1996	1997	1998	1999	2000
<b>North America</b>	<b>771.2</b>	<b>838.7</b>	<b>827.2</b>	<b>676.0</b>	<b>931.2</b>
United States	742.8	817.3	805.5	654.4	904.3
<b>Latin America</b>	<b>62.1</b>	<b>80.6</b>	<b>92.1</b>	<b>110.1</b>	<b>105.7</b>
<b>Eastern Europe</b>	<b>–</b>	<b>0.1</b>	<b>1.4</b>	<b>–</b>	<b>2.6</b>
<b>Western Europe</b>	<b>689.4</b>	<b>586.6</b>	<b>478.1</b>	<b>426.3</b>	<b>437.9</b>
France	161.5	86.8	120.4	94.7	91.5
Germany	74.8	94.1	40.2	22.2	37.8
Italy	24.6	46.1	34.5	26.2	23.7
Netherlands	56.1	36.5	7.1	3.0	7.4
Sweden	2.6	5.1	7.1	–	5.2
United Kingdom	31.2	4.2	10.7	9.2	–
<b>Middle East</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>
<b>Africa</b>	<b>86.0</b>	<b>109.5</b>	<b>118.4</b>	<b>130.4</b>	<b>129.8</b>
<b>Asia and Pacific</b>	<b>204.2</b>	<b>240.0</b>	<b>315.6</b>	<b>362.4</b>	<b>379.2</b>
Japan	19.4	21.6	12.3	23.5	15.1
<b>Unspecified</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>
<b>Total world</b>	<b>1,812.9</b>	<b>1,855.5</b>	<b>1,832.8</b>	<b>1,705.1</b>	<b>1,986.4</b>

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

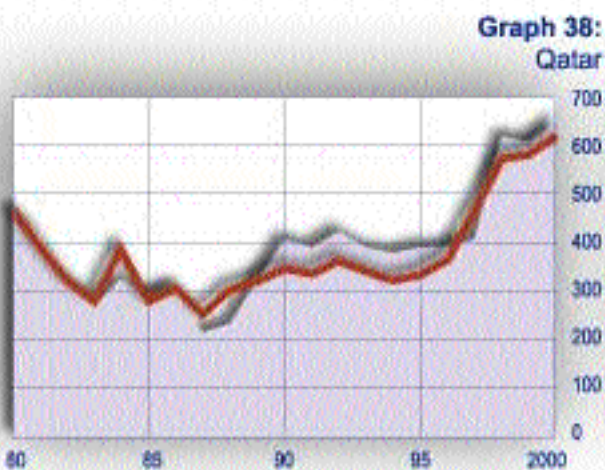
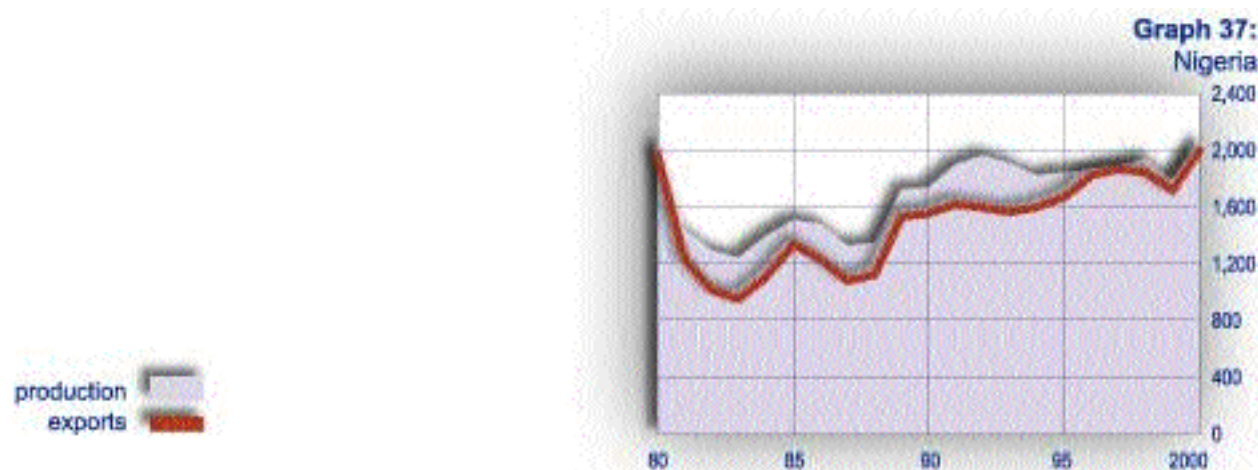
<b>Qatar</b>	1996	1997	1998	1999	2000*
<b>North America</b>	<b>–</b>	<b>–</b>	<b>1.4</b>	<b>0.9</b>	<b>–</b>
United States	–	–	1.4	0.9	–
<b>Latin America</b>	<b>5.0</b>	<b>5.0</b>	<b>–</b>	<b>–</b>	<b>–</b>
<b>Eastern Europe</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>
<b>Western Europe</b>	<b>1.6</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>2.7</b>
France	–	–	–	–	–
Germany	–	–	–	–	–
Italy	1.6	–	–	–	–
Netherlands	–	–	–	–	–
<b>Middle East</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>
<b>Africa</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>
<b>Asia and Pacific</b>	<b>360.4</b>	<b>460.0</b>	<b>561.0</b>	<b>546.4</b>	<b>563.1</b>
Japan	293.4	326.8	349.2	412.2	411.7
Thailand	–	–	–	–	–
<b>Unspecified</b>	<b>–</b>	<b>–</b>	<b>10.0</b>	<b>33.3</b>	<b>51.8</b>
<b>Total world</b>	<b>367.0</b>	<b>465.0</b>	<b>572.4</b>	<b>580.5</b>	<b>617.6</b>

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, 1996–2000 (1,000 b/d)

<b>Saudi Arabia</b>	1996	1997	1998	1999	2000
<b>North America</b>	1,340.6	1,339.0	1,491.1	1,463.6	1,581.3
United States	1,298.4	1,305.0	1,412.7	1,405.0	1,525.8
<b>Latin America</b>	128.8	90.9	86.1	73.8	61.6
<b>Eastern Europe</b>	–	–	–	–	–
<b>Western Europe</b>	1,449.8	1,619.5	1,769.1	1,244.7	1,325.5
France	375.0	388.5	363.2	302.6	313.5
Germany	124.3	116.9	104.4	88.8	90.1
Italy	199.5	285.1	272.2	179.0	180.3
Netherlands	272.1	293.9	290.7	224.5	235.5
Spain	181.0	184.6	190.8	127.9	135.1
United Kingdom	52.3	61.2	65.7	14.5	42.5
<b>Middle East</b>	228.4	212.8	209.6	189.0	165.6
<b>Africa</b>	96.3	105.7	135.9	201.8	217.7
<b>Asia and Pacific</b>	2,865.4	2,816.6	2,698.6	2,546.8	2,901.5
Japan	981.5	1,010.5	907.5	792.5	908.1
<b>Unspecified</b>	–	–	–	–	–
<b>Total world</b>	6,109.3	6,184.5	6,390.4	5,719.7	6,253.1

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

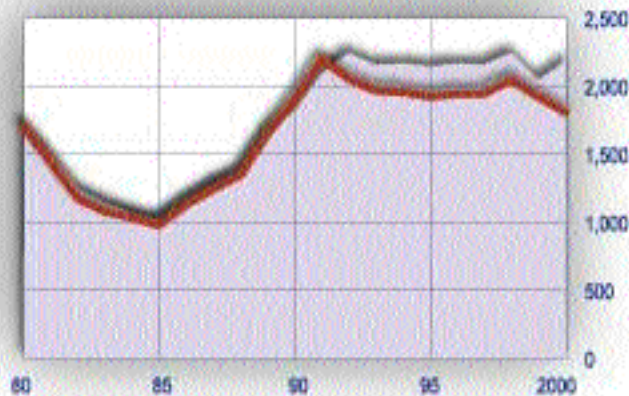


## OPEC Members' crude oil exports by destination, 1996–2000 (1,000 b/d)

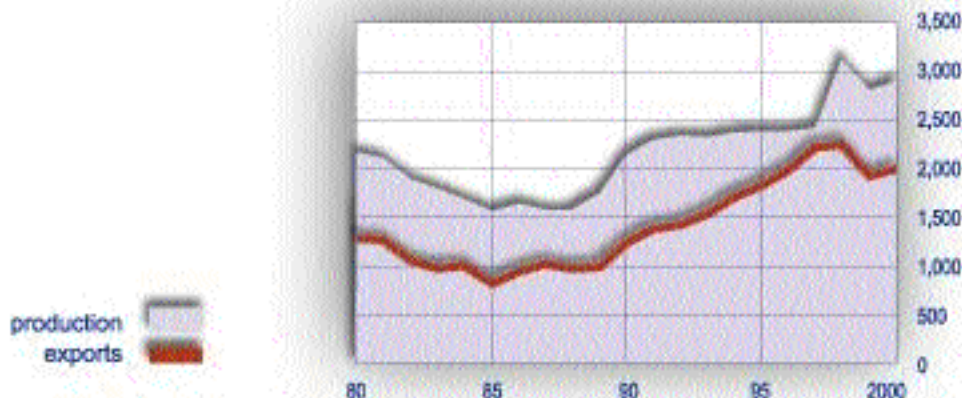
United Arab Emirates	1996	1997	1998	1999	2000
<b>North America</b>	1.4	–	2.5	–	1.3
United States	1.4	–	2.5	–	1.3
<b>Latin America</b>	–	–	7.5	–	–
<b>Eastern Europe</b>	–	–	–	–	–
<b>Western Europe</b>	0.7	2.0	13.0	1.0	1.3
France	0.1	–	11.2	–	0.1
Germany	–	1.0	–	–	–
Italy	–	–	–	–	–
Netherlands	–	1.0	–	–	1.2
United Kingdom	–	–	1.3	–	–
<b>Middle East</b>	–	–	–	4.0	–
<b>Africa</b>	40.9	40.0	57.0	39.0	34.3
<b>Asia and Pacific</b>	1,900.2	1,907.0	1,959.0	1,875.0	1,778.0
Japan	1,195.1	1,213.4	1,205.0	1,085.0	1,065.8
<b>Unspecified</b>	–	–	–	–	–
<b>Total world</b>	1,943.2	1,949.0	2,039.0	1,919.0	1,814.9

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

Graph 40:  
United Arab Emirates



Graph 41:  
Venezuela



production  
exports



## OPEC Members' crude oil exports by destination, 1996–2000 (1,000 b/d)

<b>Venezuela</b>	1996	1997	1998	1999	2000
<b>North America</b>	<b>1,214.2</b>	<b>1,557.3</b>	<b>1,558.2</b>	<b>1,223.2</b>	<b>1,214.8</b>
Canada	51.9	92.8	102.9	86.8	69.9
United States	1,162.3	1,464.5	1,455.3	1,136.4	1,144.9
<b>Latin America</b>	<b>541.8</b>	<b>497.5</b>	<b>532.4</b>	<b>577.6</b>	<b>671.2</b>
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
<b>Eastern Europe</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>
<b>Western Europe</b>	<b>161.7</b>	<b>152.1</b>	<b>150.3</b>	<b>122.1</b>	<b>99.5</b>
France	–	–	–	–	–
Germany	56.3	49.3	49.7	38.4	26.2
Italy	5.9	9.6	2.6	1.3	2.0
Netherlands	8.3	9.1	13.0	12.6	7.4
Spain	18.7	18.9	31.3	24.4	22.5
United Kingdom	26.7	29.2	29.1	20.4	16.0
<b>Middle East</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>
<b>Africa</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>
<b>Asia and Pacific</b>	<b>13.7</b>	<b>3.9</b>	<b>3.0</b>	<b>–</b>	<b>–</b>
Japan	0.5	–	–	–	–
<b>Unspecified</b>	<b>45.0</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>18.1</b>
<b>Total world</b>	<b>1,976.4</b>	<b>2,210.8</b>	<b>2,243.9</b>	<b>1,923.0</b>	<b>2,003.5</b>

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

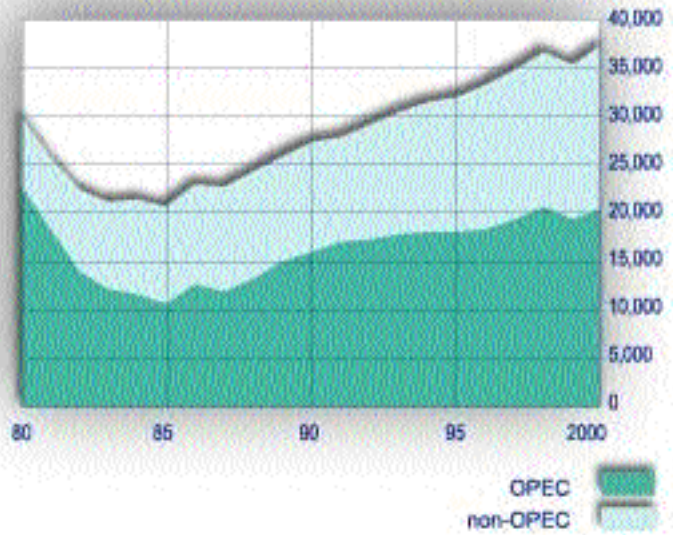
## World crude oil exports by country, 1996–2000 (1,000 b/d)

	1996	1997	1998*	1999*	2000*	% change 00/99
<b>North America</b>	<b>1,182.3</b>	<b>1,124.0</b>	<b>1,229.6</b>	<b>1,141.5</b>	<b>1,196.6</b>	<b>4.8</b>
Canada	1,072.0	1,016.0	1,117.0	1,020.4	1,144.9	12.2
United States	110.3	108.0	112.7	121.1	51.8	-57.2
<b>Latin America</b>	<b>4,523.6</b>	<b>5,034.3</b>	<b>5,181.9</b>	<b>4,758.4</b>	<b>4,898.2</b>	<b>2.9</b>
Colombia	322.1	358.8	462.6	491.9	426.8	-13.2
Ecuador	231.2	270.1	255.6	259.5	251.4	-3.1
Mexico	1,544.2	1,722.4	1,736.3	1,605.9	1,775.7	10.6
Trinidad & Tobago	58.9	57.9	72.1	73.8	71.5	-3.1
Venezuela	1,976.4	2,210.8	2,243.9	1,923.0	2,003.5	4.2
Others	390.8	414.3	411.3	404.3	369.3	-8.7
<b>Eastern Europe</b>	<b>2,069.0</b>	<b>2,177.9</b>	<b>2,428.2</b>	<b>2,565.0</b>	<b>3,058.5</b>	<b>19.2</b>
Former USSR	2,067.0	2,174.0	2,425.1	2,562.8	3,056.3	19.3
Others	2.0	3.9	3.1	2.2	2.2	1.8
<b>Western Europe</b>	<b>4,531.8</b>	<b>4,653.1</b>	<b>4,611.1</b>	<b>4,758.2</b>	<b>4,938.5</b>	<b>3.8</b>
Norway	2,849.5	2,879.5	2,758.0	2,739.9	2,910.2	6.2
United Kingdom	1,516.6	1,540.9	1,648.1	1,751.0	1,780.1	1.7
Others	165.7	232.7	205.0	267.2	248.1	-7.1
<b>Middle East</b>	<b>13,957.6</b>	<b>14,694.4</b>	<b>15,744.6</b>	<b>15,207.1</b>	<b>16,058.6</b>	<b>5.6</b>
Iran	2,630.0	2,587.0	2,512.0	2,291.0	2,492.2	8.8
Iraq	88.1	746.6	1,417.6	2,130.9	1,995.9	-6.3
Kuwait	1,224.2	1,134.2	1,190.2	948.2	1,244.7	31.3
Oman	832.6	857.1	847.2	842.3	845.0	0.3
Qatar	367.0	465.0	572.4	580.5	617.6	6.4
Saudi Arabia	6,109.3	6,184.5	6,390.4	5,719.7	6,253.1	9.3
Syrian Arab Republic	352.5	352.7	352.0	339.1	330.0	-2.7
United Arab Emirates	1,943.2	1,949.0	2,039.0	1,919.0	1,814.9	-5.4
Others	410.6	418.4	423.7	436.5	465.3	6.6
<b>Africa</b>	<b>4,837.9</b>	<b>4,966.7</b>	<b>5,139.7</b>	<b>4,745.4</b>	<b>5,007.8</b>	<b>5.5</b>
Algeria	390.8	373.1	549.4	414.6	461.1	11.2
Angola	625.2	660.7	694.3	733.2	701.3	-4.4
Cameroon	104.3	110.2	123.5	123.5	124.3	0.7
Congo	175.0	236.6	242.4	256.4	250.0	-2.5
Egypt	133.8	124.0	56.4	53.9	49.6	-8.0
Gabon	347.7	354.1	338.8	320.1	308.2	-3.7
SP Libyan AJ	1,123.4	1,115.7	1,161.0	991.7	1,005.0	1.3
Nigeria	1,812.9	1,855.5	1,832.8	1,705.1	1,986.4	16.5
Others	124.8	136.6	141.1	147.0	122.0	-17.0
<b>Asia and Pacific</b>	<b>2,227.8</b>	<b>2,284.2</b>	<b>2,222.6</b>	<b>2,175.1</b>	<b>2,185.7</b>	<b>0.5</b>
Australia	174.7	221.1	231.9	219.8	394.2	79.4
Brunei	155.5	147.4	146.9	162.6	171.9	5.7
China	409.2	400.4	312.9	143.7	209.3	45.6
Indonesia	706.7	709.7	678.0	781.9	622.5	-20.4
Malaysia	394.7	362.0	389.5	354.8	340.8	-3.9
Vietnam	174.1	220.3	250.4	258.9	252.3	-2.5
Others	213.0	223.4	212.9	253.3	194.5	-23.2
<b>Total world</b>	<b>33,329.9</b>	<b>34,934.7</b>	<b>36,557.7</b>	<b>35,350.6</b>	<b>37,344.0</b>	<b>5.6</b>
<b>OPEC</b>	<b>18,372.0</b>	<b>19,331.1</b>	<b>20,586.9</b>	<b>19,405.5</b>	<b>20,496.8</b>	<b>5.6</b>
<b>OPEC percentage</b>	<b>55.1</b>	<b>55.3</b>	<b>56.3</b>	<b>54.9</b>	<b>54.9</b>	

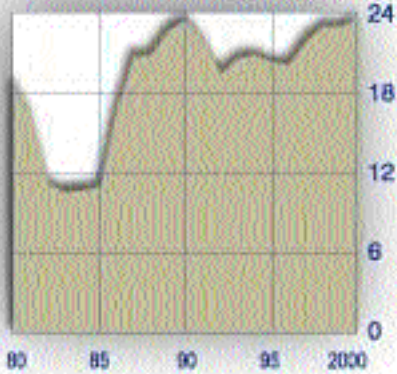
Notes: Data includes re-exports. Revisions have been made throughout the time series.

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

**Graph 42:**  
Crude oil exports, 1980–2000  
(1,000 b/d)

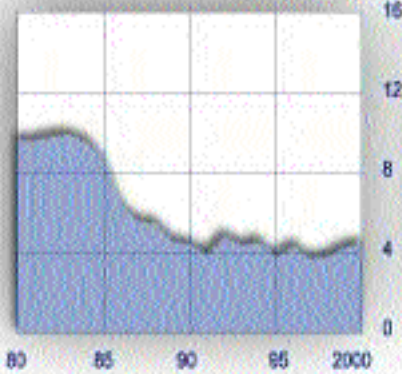


**Graph 43:**  
North America

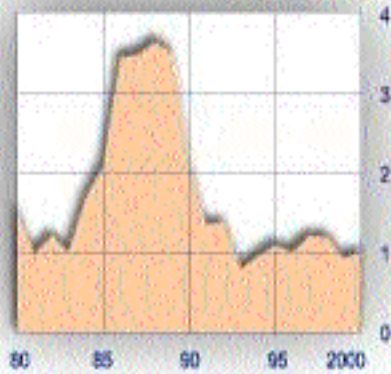


Graphs 43–49: percentage of OPEC crude oil exports to regions.

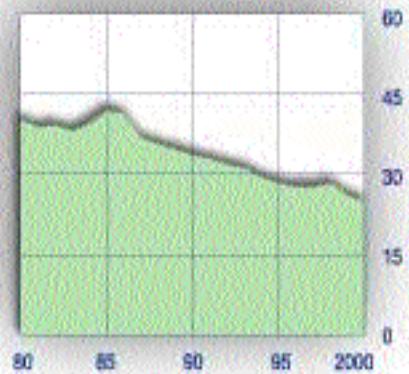
**Graph 44:**  
Latin America



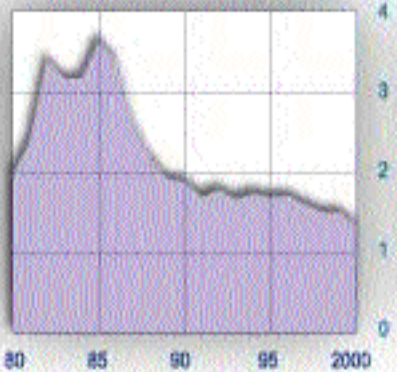
**Graph 45:**  
Eastern Europe



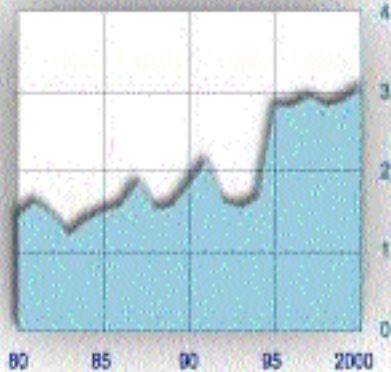
**Graph 46:**  
Western Europe



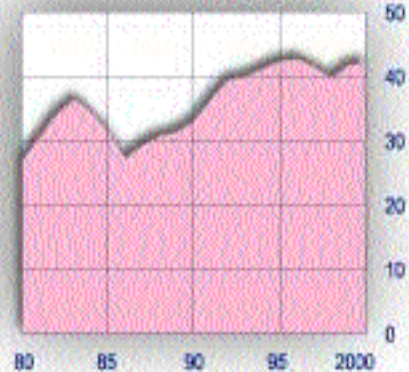
**Graph 47:**  
Middle East



**Graph 48:**  
Africa



**Graph 49:**  
Asia and Pacific



## OPEC refined product exports by destination, 1996–2000 (1,000 b/d)

<b>Algeria</b>	1996	1997	1998	1999	2000
<b>North America</b>	<b>122.3</b>	<b>134.0</b>	<b>139.2</b>	<b>108.3</b>	<b>131.9</b>
United States	122.3	134.0	135.3	106.9	130.8
<b>Latin America</b>	<b>29.4</b>	<b>49.5</b>	<b>52.6</b>	<b>139.4</b>	<b>65.2</b>
<b>Eastern Europe</b>	<b>–</b>	<b>0.5</b>	<b>–</b>	<b>–</b>	<b>–</b>
<b>Western Europe</b>	<b>211.5</b>	<b>224.4</b>	<b>236.4</b>	<b>274.1</b>	<b>306.4</b>
France	34.9	48.9	44.6	52.2	48.2
Italy	54.0	49.3	52.6	70.3	61.1
Netherlands	48.7	56.1	51.4	46.9	49.3
Spain	27.7	20.0	30.7	37.3	47.8
United Kingdom	0.7	–	8.3	2.0	6.4
<b>Middle East</b>	<b>0.3</b>	<b>1.1</b>	<b>0.5</b>	<b>2.3</b>	<b>0.4</b>
<b>Africa</b>	<b>10.4</b>	<b>15.5</b>	<b>13.6</b>	<b>45.2</b>	<b>21.2</b>
<b>Asia and Pacific</b>	<b>32.2</b>	<b>37.3</b>	<b>19.6</b>	<b>30.4</b>	<b>19.2</b>
<b>Unspecified</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>
<b>Total world</b>	<b>406.1</b>	<b>462.3</b>	<b>461.9</b>	<b>599.7</b>	<b>544.3</b>

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

<b>Indonesia</b>	1996	1997	1998	1999	2000*
<b>North America</b>	<b>15.5</b>	<b>10.8</b>	<b>12.1</b>	<b>5.2</b>	<b>6.7</b>
United States	15.5	10.8	12.1	5.2	6.7
<b>Latin America</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>
<b>Western Europe</b>	<b>28.2</b>	<b>20.2</b>	<b>27.5</b>	<b>11.7</b>	<b>3.7</b>
Italy	20.2	18.7	24.6	6.9	0.8
<b>Middle East</b>	<b>0.4</b>	<b>0.1</b>	<b>–</b>	<b>–</b>	<b>–</b>
<b>Africa</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>
<b>Asia and Pacific</b>	<b>253.1</b>	<b>226.2</b>	<b>181.2</b>	<b>175.0</b>	<b>178.4</b>
Japan	142.5	101.5	79.0	72.8	67.4
South Korea	28.6	40.8	38.7	38.3	54.5
Singapore	40.2	36.5	31.9	27.0	30.1
<b>Unspecified</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>
<b>Total world</b>	<b>297.1</b>	<b>257.3</b>	<b>220.8</b>	<b>191.9</b>	<b>188.8</b>

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, 1996–2000 (1,000 b/d)

<b>Kuwait</b>	1996	1997	1998	1999	2000*
<b>North America</b>	3.7	–	1.2	1.9	6.3
United States	3.7	–	1.2	1.7	6.3
<b>Latin America</b>	na	na	na	na	na
<b>Western Europe</b>	42.6	45.8	59.5	57.9	59.7
Italy	–	–	0.4	–	–
Netherlands	26.7	29.5	25.5	31.5	21.9
United Kingdom	–	0.4	6.8	5.4	16.5
<b>Middle East</b>	na	na	na	na	na
<b>Africa</b>	na	na	na	na	na
<b>Asia and Pacific</b>	na	na	na	na	na
Australia	–	0.6	–	0.5	–
Japan	154.8	159.6	143.3	141.6	128.4
<b>Unspecified</b>	–	–	–	–	–
<b>Total world</b>	<b>751.5</b>	<b>848.0</b>	<b>795.0</b>	<b>838.6</b>	<b>674.5</b>

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

<b>Saudi Arabia</b>	1996	1997	1998	1999	2000
<b>North America</b>	97.2	74.6	46.1	28.6	21.1
<b>Latin America</b>	73.0	70.0	87.0	45.0	56.3
<b>Western Europe</b>	82.0	82.1	95.3	62.5	78.0
<b>Middle East</b>	165.3	185.4	138.0	92.5	119.9
<b>Africa</b>	54.1	81.5	114.6	91.0	108.7
<b>Asia and Pacific</b>	1,020.4	899.3	887.9	960.1	844.0
<b>Unspecified</b>	–	–	–	–	–
<b>Total world</b>	<b>1,492.0</b>	<b>1,392.9</b>	<b>1,368.9</b>	<b>1,279.7</b>	<b>1,228.1</b>

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, 1996–2000 (1,000 b/d)

Venezuela	1996	1997	1998	1999	2000*
<b>North America</b>	<b>416.1</b>	<b>441.1</b>	<b>423.1</b>	<b>460.5</b>	<b>407.3</b>
United States	408.9	427.5	397.1	357.4	315.5
<b>Latin America</b>	<b>274.1</b>	<b>348.6</b>	<b>363.7</b>	<b>313.2</b>	<b>301.3</b>
<b>Western Europe</b>	<b>41.1</b>	<b>44.3</b>	<b>54.9</b>	<b>41.1</b>	<b>58.5</b>
Italy	2.6	2.7	16.7	6.3	8.7
United Kingdom	16.6	3.9	0.6	2.7	3.4
<b>Africa</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>
<b>Asia and Pacific</b>	<b>10.8</b>	<b>7.5</b>	<b>4.5</b>	<b>13.1</b>	<b>17.5</b>
Japan	2.9	2.5	0.1	0.7	12.4
<b>Unspecified</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>
<b>Total world</b>	<b>742.1</b>	<b>841.5</b>	<b>846.2</b>	<b>828.0</b>	<b>784.7</b>

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, 1996–2000 (1,000 b/d)

	1996	1997	1998	1999*	2000*	% change 00/99
<b>North America</b>	<b>1,234.9</b>	<b>1,285.8</b>	<b>1,212.6</b>	<b>1,209.7</b>	<b>1,358.1</b>	<b>12.3</b>
Canada	403.2	425.7	398.2	412.5	417.9	1.3
United States	831.6	859.9	814.4	797.2	940.2	17.9
Others	0.1	0.1	–	–	–	–
<b>Latin America</b>	<b>1,851.3</b>	<b>1,999.4</b>	<b>2,088.8</b>	<b>2,071.0</b>	<b>2,030.2</b>	<b>–2.0</b>
Argentina	86.4	101.9	110.5	101.2	102.4	1.2
Ecuador	36.2	40.3	34.6	35.0	35.0	–
Mexico	87.2	87.5	102.4	96.6	85.4	–11.6
Netherlands Antilles	219.3	219.6	226.0	230.0	232.8	1.2
Trinidad & Tobago	87.8	89.6	94.4	94.0	96.0	2.1
Venezuela	742.1	841.5	846.2	828.0	784.7	–5.2
Virgin Islands	361.2	375.5	385.0	382.1	385.9	1.0
Others	231.2	243.6	289.6	304.1	308.0	1.3
<b>Eastern Europe</b>	<b>1,187.4</b>	<b>1,219.2</b>	<b>1,097.5</b>	<b>1,121.7</b>	<b>1,329.5</b>	<b>18.5</b>
Romania	80.3	62.1	60.0	39.1	50.4	28.8
Former USSR	955.0	993.0	872.0	913.1	1,086.3	19.0
Others	152.0	164.1	165.5	169.4	192.8	13.8
<b>Western Europe</b>	<b>4,153.8</b>	<b>4,212.0</b>	<b>4,230.9</b>	<b>4,220.5</b>	<b>4,403.9</b>	<b>4.3</b>
Belgium	369.9	367.3	384.1	397.0	411.0	3.5
France	373.8	360.3	324.5	358.0	387.5	8.2
Germany	290.0	260.2	301.6	347.6	388.5	11.8
Italy	375.2	417.7	454.5	405.1	425.6	5.1
Netherlands	1,244.1	1,301.5	1,300.9	1,294.8	1,367.6	5.6
United Kingdom	504.8	568.4	516.7	478.5	444.4	–7.1
Others	996.0	936.6	948.7	939.6	979.2	4.2
<b>Middle East</b>	<b>3,196.6</b>	<b>3,335.6</b>	<b>3,283.5</b>	<b>3,224.9</b>	<b>3,073.5</b>	<b>–4.7</b>
Bahrain	259.6	248.2	247.3	248.0	250.0	0.8
IR Iran	172.5	225.9	277.8	272.3	268.0	–1.6
Iraq	23.6	18.9	23.0	23.0	23.0	–
Kuwait	751.5	848.0	795.0	838.6	674.5	–19.6
Qatar	107.0	125.0	95.1	75.3	75.3	–
Saudi Arabia	1,492.0	1,392.9	1,368.9	1,279.7	1,228.1	–4.0
United Arab Emirates	271.9	323.1	319.1	331.0	391.7	18.4
Others	118.5	153.6	157.3	157.1	162.8	3.6
<b>Africa</b>	<b>876.1</b>	<b>957.3</b>	<b>965.5</b>	<b>1,149.5</b>	<b>1,147.2</b>	<b>–0.2</b>
Algeria	406.1	462.3	461.9	599.7	544.3	–9.2
Egypt	109.9	109.5	103.2	106.0	110.0	3.8
Gabon	5.0	5.2	5.0	5.0	5.0	–
Nigeria	22.6	25.3	3.0	10.0	17.3	73.0
SP Libyan AJ	129.7	153.4	168.6	201.2	237.0	17.8
Others	202.8	201.6	223.7	227.6	233.7	2.7
<b>Asia and Pacific</b>	<b>2,625.7</b>	<b>2,949.8</b>	<b>2,898.3</b>	<b>2,938.9</b>	<b>3,001.2</b>	<b>2.1</b>
Australia	117.7	134.2	121.1	122.3	122.1	–0.1
China	114.9	198.4	188.6	264.8	292.0	10.3
Indonesia	297.1	257.3	220.8	191.9	188.8	–1.6
Japan	158.9	172.0	131.7	106.9	87.9	–17.8
Malaysia	140.8	151.3	139.9	142.0	145.0	2.1
Singapore	990.2	964.2	941.6	945.0	957.9	1.4
Others	806.0	1,072.4	1,154.7	1,165.9	1,207.6	3.6
<b>Total world</b>	<b>15,125.7</b>	<b>15,959.1</b>	<b>15,777.0</b>	<b>15,936.2</b>	<b>16,343.5</b>	<b>2.6</b>
<b>OPEC</b>	<b>4,416.1</b>	<b>4,673.6</b>	<b>4,579.4</b>	<b>4,650.6</b>	<b>4,432.6</b>	<b>–4.7</b>
<b>OPEC percentage</b>	<b>29.2</b>	<b>29.3</b>	<b>29.0</b>	<b>29.2</b>	<b>27.1</b>	

**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, 1996–2000 (million standard cu m)

	1996	1997	1998	1999	2000	% change 00/99
<b>North America</b>	<b>85,638</b>	<b>86,370</b>	<b>90,610</b>	<b>99,200</b>	<b>108,560</b>	<b>9.4</b>
Canada	81,638	82,130	86,112	94,700	101,660	7.3
United States	4,000	4,240	4,498	4,500	6,900	53.3
<b>Latin America</b>	<b>2,436</b>	<b>2,981</b>	<b>3,825</b>	<b>8,730</b>	<b>10,540</b>	<b>20.7</b>
Argentina	–	670	1,200	3,410	4,200	23.2
Bolivia	2,040	1,830	2,200	1,570	2,060	31.2
Mexico	396	481	425	1,560	340	–78.2
Trinidad & Tobago	–	–	–	2,190	3,940	79.9
<b>Eastern Europe</b>	<b>123,460</b>	<b>116,450</b>	<b>121,100</b>	<b>127,490</b>	<b>131,520</b>	<b>3.2</b>
Former USSR	123,460	116,450	121,100	127,490	131,520	3.2
<b>Western Europe</b>	<b>90,120</b>	<b>89,660</b>	<b>88,480</b>	<b>95,500</b>	<b>108,940</b>	<b>14.1</b>
Denmark	1,800	2,970	2,700	2,710	3,040	12.2
France	–	–	850	700	800	14.3
Germany	2,950	2,430	3,100	3,800	5,110	34.5
Netherlands	45,800	40,110	36,360	35,000	36,620	4.6
Norway	38,020	42,310	42,570	45,490	48,660	7.0
United Kingdom	1,550	1,840	2,900	7,800	14,710	88.6
<b>Middle East</b>	<b>7,340</b>	<b>10,670</b>	<b>12,010</b>	<b>15,670</b>	<b>23,390</b>	<b>49.3</b>
IR Iran	100	–	–	–	–	–
Oman	500	500	500	500	2,840	468.0
Qatar	–	2,860	4,790	8,100	14,040	73.3
United Arab Emirates	6,740	7,310	6,720	7,070	6,510	–7.9
<b>Africa</b>	<b>42,170</b>	<b>49,860</b>	<b>53,600</b>	<b>61,020</b>	<b>67,903</b>	<b>11.3</b>
Algeria	40,970	48,740	52,690	59,320	61,693	4.0
SP Libyan AJ	1,200	1,120	910	960	800	–16.7
Nigeria	–	–	–	740	5,410	631.1
<b>Asia and Pacific</b>	<b>72,700</b>	<b>74,830</b>	<b>76,000</b>	<b>79,490</b>	<b>78,550</b>	<b>–2.5</b>
Australia	9,870	9,540	10,000	10,100	10,050	–0.5
Brunei	8,430	8,300	8,200	8,410	8,790	4.5
China	220	–	–	–	–	–
Indonesia	35,280	35,280	36,400	39,120	36,180	–7.5
Malaysia	18,900	21,710	21,400	21,770	21,980	1.0
Myanmar	–	–	–	90	1,550	–
<b>Total world</b>	<b>423,864</b>	<b>430,821</b>	<b>445,625</b>	<b>487,100</b>	<b>529,403</b>	<b>8.7</b>
<b>OPEC</b>	<b>84,290</b>	<b>95,310</b>	<b>101,510</b>	<b>115,310</b>	<b>124,633</b>	<b>8.1</b>
<b>OPEC percentage</b>	<b>19.9</b>	<b>22.1</b>	<b>22.8</b>	<b>23.7</b>	<b>23.5</b>	

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

Sources: Direct communications to the Secretariat; Cedigaz; national sources; OECD, World Energy Statistics and Balances.



## World imports of crude oil by country, 1996–2000 (1,000 b/d)

	1996	1997	1998	1999*	2000*	% change 00/99
<b>North America</b>	<b>8,338.2</b>	<b>9,150.5</b>	<b>9,606.8</b>	<b>9,683.8</b>	<b>10,005.8</b>	<b>3.3</b>
Canada	664.4	744.5	754.4	801.2	896.0	11.8
United States	7,673.8	8,406.1	8,852.4	8,882.6	9,109.8	2.6
<b>Latin America</b>	<b>1,897.0</b>	<b>1,928.0</b>	<b>1,973.8</b>	<b>1,925.9</b>	<b>2,010.5</b>	<b>4.4</b>
Brazil	567.6	589.7	564.8	552.0	578.0	4.7
Chile	158.6	166.1	180.2	170.0	179.0	5.3
Cuba	28.9	22.1	18.2	17.3	19.4	12.1
Netherlands Antilles	284.0	237.8	251.2	250.2	267.3	6.8
Puerto Rico	120.5	123.5	124.5	122.2	125.0	2.3
Virgin Islands	411.8	428.3	438.7	438.9	443.1	1.0
Others	325.6	360.6	396.2	375.3	398.7	6.2
<b>Eastern Europe</b>	<b>1,023.5</b>	<b>1,002.6</b>	<b>973.4</b>	<b>872.8</b>	<b>925.5</b>	<b>6.0</b>
Bulgaria	140.5	118.9	111.6	104.4	124.5	19.2
Former Czechoslovakia	151.9	141.4	138.6	121.3	114.4	-5.7
Romania	147.1	126.1	120.0	86.2	93.2	8.1
Former USSR	95.0	100.0	50.0	10.0	5.0	-50.0
Others	489.0	516.2	553.3	550.8	588.3	6.8
<b>Western Europe</b>	<b>11,182.8</b>	<b>11,401.0</b>	<b>11,974.8</b>	<b>11,238.8</b>	<b>11,524.8</b>	<b>2.5</b>
Belgium	637.9	662.0	699.9	648.7	684.9	5.6
France	1,676.8	1,756.1	1,803.6	1,645.8	1,705.1	3.6
Germany	2,043.7	1,983.3	2,157.6	2,050.2	2,045.3	-0.2
Greece	347.2	355.7	367.8	315.8	383.7	21.5
Italy	1,589.1	1,692.0	1,835.2	1,725.7	1,794.5	4.0
Netherlands	1,092.3	1,075.3	1,104.1	1,045.1	1,061.9	1.6
Spain	1,106.5	1,134.7	1,217.8	1,183.2	1,171.5	-1.0
Sweden	386.6	408.0	399.8	392.5	420.3	7.1
Turkey	435.5	449.5	457.1	442.7	417.0	-5.8
United Kingdom	890.7	858.8	817.1	731.7	875.6	19.7
Others	976.4	1,025.5	1,114.7	1,057.6	964.9	-8.8
<b>Middle East</b>	<b>518.1</b>	<b>540.1</b>	<b>551.2</b>	<b>541.0</b>	<b>568.0</b>	<b>5.0</b>
Bahrain	222.2	213.9	212.5	210.0	220.0	4.8
Yemen	30.1	29.3	30.0	28.0	30.0	7.1
Others	265.9	296.9	308.7	303.0	318.0	5.0
<b>Africa</b>	<b>655.0</b>	<b>586.5</b>	<b>642.7</b>	<b>648.2</b>	<b>691.6</b>	<b>6.7</b>
Côte d'Ivoire	61.6	59.7	66.8	69.3	75.3	8.5
Kenya	28.5	37.0	43.6	42.1	43.0	2.1
Morocco	111.1	121.5	117.4	117.9	124.8	5.9
Others	453.8	368.3	414.9	418.8	448.5	7.1
<b>Asia and Pacific</b>	<b>11,087.2</b>	<b>12,101.7</b>	<b>11,624.9</b>	<b>11,898.5</b>	<b>12,764.3</b>	<b>7.3</b>
Australia	366.5	387.2	434.6	447.0	432.5	-3.2
India	668.8	677.9	781.1	772.6	806.1	4.3
Indonesia	189.3	190.6	212.2	232.0	219.1	-5.6
Japan	4,457.7	4,579.3	4,284.2	4,212.8	4,245.0	0.8
New Zealand	81.6	82.9	99.4	97.7	99.8	2.2
Philippines	350.7	357.1	324.1	322.2	331.0	2.7
Singapore	1,040.3	1,120.8	1,048.1	1,062.5	1,102.3	3.7
South Korea	1,977.8	2,414.4	2,314.7	2,408.0	2,460.2	2.2
Taiwan	655.2	653.8	693.0	707.1	723.7	2.3
Thailand	609.0	705.6	654.0	658.4	685.0	4.0
Others	690.3	932.1	779.3	978.3	1,659.5	69.6
<b>Total world</b>	<b>34,701.9</b>	<b>36,710.5</b>	<b>37,347.5</b>	<b>36,809.1</b>	<b>38,490.4</b>	<b>4.6</b>

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, 1996–2000 (1,000 b/d)

	1996	1997	1998	1999*	2000*	% change 00/99
<b>North America</b>	<b>1,355.5</b>	<b>1,387.7</b>	<b>1,495.8</b>	<b>1,600.0</b>	<b>1,599.4</b>	–
Canada	143.5	174.9	181.9	170.7	160.4	–6.0
United States	1,207.9	1,208.7	1,309.7	1,425.0	1,434.7	0.7
Others	4.1	4.1	4.2	4.3	4.3	–
<b>Latin America</b>	<b>1,247.4</b>	<b>1,430.1</b>	<b>1,480.4</b>	<b>1,490.2</b>	<b>1,582.6</b>	<b>6.2</b>
Brazil	285.8	304.2	301.6	304.7	308.3	1.2
Cuba	117.7	131.9	132.3	135.0	137.0	1.5
Mexico	176.6	296.5	328.2	358.7	442.3	23.3
Netherlands Antilles	33.4	33.3	33.3	33.5	33.5	–
Panama	11.0	20.5	23.8	21.0	20.0	–4.8
Puerto Rico	94.6	96.7	98.7	99.0	99.0	–
Others	528.4	546.8	562.5	538.4	542.4	0.8
<b>Eastern Europe</b>	<b>309.5</b>	<b>339.2</b>	<b>358.6</b>	<b>268.4</b>	<b>199.3</b>	<b>–25.8</b>
Bulgaria	9.3	8.8	6.0	6.0	12.0	100.0
Former USSR	95.0	97.7	105.0	40.0	10.0	–75.0
Hungary	38.6	32.0	30.2	26.7	21.0	–21.4
Poland	66.9	83.7	97.9	91.7	62.4	–32.0
Others	99.8	117.0	119.6	103.9	93.8	–9.7
<b>Western Europe</b>	<b>4,548.1</b>	<b>4,534.4</b>	<b>4,620.6</b>	<b>4,815.7</b>	<b>5,132.3</b>	<b>6.6</b>
Belgium	287.3	274.5	285.9	289.5	300.1	3.7
France	426.3	327.6	368.7	571.7	552.3	–3.4
Germany	983.9	1,057.3	955.8	872.9	908.0	4.0
Italy	503.8	430.4	412.5	365.7	357.5	–2.2
Netherlands	691.1	793.3	768.3	809.9	954.5	17.9
United Kingdom	178.7	177.8	242.7	255.6	291.1	13.9
Others	1,477.0	1,473.6	1,586.7	1,650.5	1,768.7	7.2
<b>Middle East</b>	<b>332.3</b>	<b>345.5</b>	<b>353.1</b>	<b>348.0</b>	<b>338.2</b>	<b>–2.8</b>
Syrian Arab Republic	12.0	19.2	23.0	20.0	20.2	1.0
Others	320.3	326.3	330.1	328.0	318.0	–3.0
<b>Africa</b>	<b>445.7</b>	<b>444.3</b>	<b>469.3</b>	<b>480.6</b>	<b>540.5</b>	<b>12.5</b>
Egypt	25.4	35.6	47.7	49.3	50.7	2.8
Morocco	32.0	32.7	25.7	27.0	28.5	5.6
Nigeria	48.8	37.0	44.5	52.6	106.3	102.2
Senegal	9.0	8.6	9.4	9.5	9.6	1.1
Tunisia	47.9	53.8	52.6	53.1	54.0	1.7
Others	282.6	276.7	289.4	289.1	291.4	0.8
<b>Asia and Pacific</b>	<b>5,032.4</b>	<b>5,206.5</b>	<b>4,959.2</b>	<b>5,250.4</b>	<b>5,242.0</b>	<b>–0.2</b>
Australia	75.2	64.7	64.4	76.6	85.8	12.0
China	430.7	595.8	587.3	631.9	522.4	–17.3
Hong Kong	366.7	403.1	409.1	411.0	413.1	0.5
India	448.8	427.7	437.8	441.2	449.0	1.8
Japan	1,355.5	1,238.7	1,074.6	1,238.1	1,243.0	0.4
New Zealand	26.0	26.9	19.9	31.0	25.6	–17.3
Singapore	575.3	633.9	649.4	643.2	645.7	0.4
Others	1,754.1	1,815.7	1,716.6	1,777.5	1,857.4	4.5
<b>Total world</b>	<b>13,271.1</b>	<b>13,687.7</b>	<b>13,736.9</b>	<b>14,253.3</b>	<b>14,634.2</b>	<b>2.7</b>

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

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

## World imports of natural gas by country, 1996–2000 (million standard cu m)

	1996	1997	1998	1999	2000	% change 00/99
<b>North America</b>	<b>84,584</b>	<b>86,051</b>	<b>91,375</b>	<b>102,090</b>	<b>110,365</b>	<b>8.1</b>
Canada	1,290	1,270	1,270	1,200	2,120	76.7
United States	83,294	84,781	90,105	100,890	108,245	7.3
<b>Latin America</b>	<b>2,970</b>	<b>3,750</b>	<b>4,970</b>	<b>6,690</b>	<b>9,570</b>	<b>43.0</b>
Argentina	2,040	1,830	2,200	1,200	–	–
Brazil	–	–	–	370	2,150	481.1
Chile	–	670	1,240	3,390	4,070	20.1
Mexico	930	1,250	1,530	1,730	3,000	73.4
Puerto Rico	–	–	–	–	350	–
<b>Eastern Europe</b>	<b>45,000</b>	<b>41,300</b>	<b>39,760</b>	<b>39,350</b>	<b>40,600</b>	<b>3.2</b>
Bulgaria	6,040	5,100	3,600	3,350	3,200	–4.5
Former Czechoslovakia	16,640	16,000	16,260	16,600	17,300	4.2
Former USSR	100	–	–	–	–	–
Hungary	7,940	8,000	8,500	8,700	9,200	5.7
Poland	7,140	7,700	7,600	7,500	7,500	–
Romania	7,140	4,500	3,800	3,200	3,400	6.3
<b>Western Europe</b>	<b>210,070</b>	<b>213,390</b>	<b>219,910</b>	<b>242,380</b>	<b>265,260</b>	<b>9.4</b>
Austria	6,790	6,030	6,200	6,120	6,120	–
Belgium	15,600	14,300	15,500	16,120	16,300	1.1
Denmark	–	–	–	–	–	–
Finland	4,040	3,700	4,200	4,200	4,300	2.4
France	36,020	35,150	36,800	41,120	42,620	3.6
Germany	77,860	75,380	73,800	75,230	76,200	1.3
Greece	–	160	900	1,500	2,140	42.7
Ireland	130	830	1,500	2,100	2,600	23.8
Italy	37,290	39,150	42,600	49,410	58,500	18.4
Luxembourg	730	710	760	700	700	–
Netherlands	4,630	5,890	5,300	7,340	12,600	71.7
Portugal	–	500	800	2,150	2,000	–7.0
Spain	9,000	12,470	12,600	15,450	16,930	9.6
Sweden	860	860	860	840	840	–
Switzerland	2,770	2,620	2,700	3,040	3,050	0.3
Turkey	8,160	9,750	10,380	12,300	14,550	18.3
United Kingdom	1,710	1,320	900	1,370	2,200	60.6
Former Yugoslavia	4,480	4,570	4,110	3,390	3,610	6.5
<b>Middle East</b>	<b>–</b>	<b>100</b>	<b>1,750</b>	<b>2,000</b>	<b>2,650</b>	<b>32.5</b>
IR Iran	–	100	1,750	2,000	2,650	32.5
Kuwait	–	–	–	–	–	–
<b>Africa</b>	<b>1,100</b>	<b>910</b>	<b>450</b>	<b>800</b>	<b>518</b>	<b>–35.3</b>
Tunisia	1,100	910	450	800	518	–35.3
<b>Asia and Pacific</b>	<b>80,140</b>	<b>85,320</b>	<b>87,410</b>	<b>93,790</b>	<b>100,440</b>	<b>7.1</b>
Hong Kong	220	–	–	–	–	–
Japan	61,940	63,750	66,300	69,360	72,460	4.5
South Korea	12,950	15,710	14,310	17,520	19,680	12.3
Malaysia	–	–	–	–	–	–
Singapore	1,500	1,500	1,500	1,500	1,500	–
Taiwan	3,530	4,360	5,300	5,320	5,900	10.9
Thailand	–	–	–	90	900	900.0
<b>Total world</b>	<b>423,864</b>	<b>430,821</b>	<b>445,625</b>	<b>487,100</b>	<b>529,403</b>	<b>8.7</b>
<b>OPEC</b>	<b>–</b>	<b>100</b>	<b>1,750</b>	<b>2,000</b>	<b>2,650</b>	<b>32.5</b>
<b>OPEC percentage</b>	<b>–</b>	<b>–</b>	<b>0.4</b>	<b>0.4</b>	<b>0.5</b>	

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

Sources: Direct communications to the Secretariat; Cedigaz; national sources; OECD, World Energy Statistics and Balances.

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## Tanker fleet development in OPEC Members, 1996–2000 (1,000 dwt)

	1996		1997		1998		1999		2000	
	no	dwt	no	dwt	no	dwt	no	dwt	no	dwt
Algeria	1	22.3	1	22.6	1	22.6	1	22.6	1	22.6
Indonesia	25	726.7	25	739.1	25	739.1	31	904.2	32	988.9
IR Iran	12	3,301.0	25	3,996.1	17	2,998.9	20	3,523.6	29	4,029.5
Iraq	17	1,493.0	17	1,517.0	16	1,364.2	9	534.3	9	534.3
Kuwait	28	3,441.5	27	3,156.9	26	3,343.0	17	2,890.3	16	2,862.9
SP Libyan AJ	10	1,234.7	10	1,254.5	9	1,113.5	5	526.9	6	775.3
Nigeria	2	406.5	3	423.7	2	413.0	2	413.0	2	413.0
Qatar	2	190.7	5	479.0	5	479.0	5	465.8	4	368.6
Saudi Arabia	15	796.5	14	719.3	10	521.8	11	481.3	12	578.6
United Arab Emirates	15	785.5	10	509.4	13	659.4	13	659.4	10	291.6
Venezuela	11	559.9	10	521.8	10	521.8	7	373.8	6	320.3
<b>OPEC</b>	<b>138</b>	<b>12,958</b>	<b>147</b>	<b>13,339</b>	<b>134</b>	<b>12,176</b>	<b>121</b>	<b>10,795</b>	<b>127</b>	<b>11,186</b>
Total world	3,255	288,294	3,323	292,398	3,424	300,460	3,313	289,358	3,329	292,059
OPEC percentage		4.5		4.6		4.1		3.7		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 2001*; direct communications to the Secretariat.

## World tanker fleet by age, 2000 (1,000 dwt)

	1985 and earlier		1986-90		1991-95		1996-2000		Total	
	no	dwt	no	dwt	no	dwt	no	dwt	no	dwt
10,000-19,999	269	4,061.4	59	911.2	68	956.7	149	2,180.1	545	8,109.3
20,000-29,999	224	5,971.4	61	1,720.8	35	995.3	20	491.4	340	9,178.8
30,000-39,999	322	11,169.5	46	1,721.1	40	1,448.5	88	3,061.7	496	17,400.8
40,000-49,999	88	3,881.4	62	2,687.3	74	3,261.4	143	6,504.5	367	16,334.6
50,000-59,999	79	4,358.1	4	211.2	3	170.1	1	55.2	87	4,794.6
60,000-69,999	113	7,265.8	26	1,687.3	25	1,681.5	15	1,001.7	179	11,636.4
70,000-74,999	6	425.2	-	-	2	141.8	12	866.4	20	1,433.4
75,000-89,999	135	11,573.0	52	4,389.6	10	852.2	7	584.4	204	17,399.2
90,000-99,999	46	4,341.7	34	3,259.6	88	8,479.6	31	3,050.9	199	19,131.8
100,000-109,999	11	1,159.7	18	1,875.4	16	1,665.9	91	9,627.5	136	14,328.5
110,000-119,999	9	1,043.2	8	897.8	3	333.9	12	1,342.5	32	3,617.3
120,000-129,999	27	3,374.5	7	877.6	4	493.5	12	1,512.1	50	6,257.7
130,000-139,999	28	3,795.2	6	813.1	14	1,899.8	4	537.8	52	7,045.9
140,000-149,999	12	1,722.8	13	1,879.3	39	5,698.1	25	3,701.3	89	13,001.5
150,000-159,999	16	2,469.9	8	1,227.8	21	3,250.9	37	5,741.9	82	12,690.6
160,000-199,999	12	2,141.0	-	-	-	-	-	-	12	2,141.0
200,000-229,999	2	453.4	2	429.7	-	-	-	-	4	883.1
230,000-259,999	29	7,062.1	34	8,516.1	39	9,975.3	15	3,885.0	117	29,438.6
260,000-299,999	56	15,321.7	16	4,418.7	66	18,837.8	46	13,359.8	184	51,938.0
300,000-349,999	14	4,473.6	2	609	24	7282	56	17126	96	29,491.3
350,000 and over	38	15,807.0	-	-	-	-	-	-	38	15,807.0
<b>Total world</b>	<b>1,536</b>	<b>111,871.5</b>	<b>458</b>	<b>38,132.8</b>	<b>571</b>	<b>67,424.6</b>	<b>764</b>	<b>74,630.1</b>	<b>3,329</b>	<b>292,059.2</b>

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

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

World liquid gas carrier fleet by size and type, 2000 (1,000 cu m)

	LPG		LNG		Total	
	no	capacity	no	capacity	no	capacity
up to 999	75	50.7	–	–	75	50.7
1,000–1,999	259	370.5	1	1.5	260	372.0
2,000–4,999	252	828.6	–	–	252	828.6
5,000–9,999	133	872.0	–	–	133	872.0
10,000–19,999	63	862.2	4	76.1	67	938.3
20,000–39,999	57	1,604.6	6	178.6	63	1,783.2
40,000–59,999	24	1,297.2	6	252.9	30	1,550.1
60,000–99,999	97	7,474.8	15	1,158.6	112	8,633.4
100,000 and over	1	100.9	96	12,534.2	97	12,635.2
<b>Total world</b>	<b>961</b>	<b>13,461.6</b>	<b>128</b>	<b>14,202.0</b>	<b>1,089.0</b>	<b>27,663.6</b>

Notes: Figures as at year-end. Totals may not add up due to independent rounding.  
Source: Clarkson Research Studies, *The Liquid Gas Carrier Register 2001*.

Liquid gas carrier fleet in OPEC Members, 2000 (1,000 cu m)

	LPG		LNG		Total	
	no	capacity	no	capacity	no	capacity
Algeria	4	23.9	6	677.9	10	701.8
Indonesia	3	12.4	–	–	3	12.4
IR Iran	1	12.1	–	–	1	12.1
Iraq	–	–	–	–	–	–
Kuwait	7	522.1	–	–	7	522.1
SP Libyan AJ	3	12.9	–	–	3	12.9
Nigeria	–	–	–	–	–	–
Qatar	–	–	–	–	–	–
Saudi Arabia	1	76.7	–	–	1	76.7
United Arab Emirates	1	3.2	8	1,096.0	9	1,099.2
Venezuela	2	28.3	–	–	2	28.3
<b>OPEC</b>	<b>22</b>	<b>691.6</b>	<b>14</b>	<b>1,773.9</b>	<b>36</b>	<b>2,465.5</b>
Total world	961	13,461.6	128	14,202.0	1,089	27,663.6
<b>OPEC percentage</b>		<b>5.1</b>		<b>12.5</b>		<b>8.9</b>

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 2001*; direct communications to the Secretariat.

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## World combined carrier fleet by size, 1996–2000 (1,000 dwt)

	1996		1997		1998		1999		2000	
	no	dwt	no	dwt	no	dwt	no	dwt	no	dwt
10,000–19,999	2	29.3	2	29.7	2	29.7	1	15.2	1	15.2
20,000–29,999	3	85.2	1	26.4	1	26.4	1	26.4	1	26.4
30,000–39,999	2	63.3	4	124.4	4	124.4	–	–	–	–
40,000–49,999	13	604.6	13	614.4	13	614.4	11	513.8	10	463.8
50,000–59,999	15	801.8	15	814.7	15	814.7	13	707.9	14	762.4
60,000–69,999	10	652.4	8	525.9	8	525.9	7	456.5	7	456.5
70,000–79,999	40	3,024.3	40	3,058.1	38	2,900.9	34	2,575.3	33	2,497.1
80,000–99,999	29	2,611.1	28	2,553.4	26	2,384.0	30	2,724.1	27	2,434.5
100,000–124,999	37	4,097.6	38	4,273.4	30	3,383.4	26	2,936.2	24	2,706.7
125,000–159,999	34	4,742.5	29	4,040.1	25	3,466.0	24	3,294.2	18	2,460.6
160,000–199,999	19	3,173.8	18	3,025.6	14	2,364.4	6	1,016.3	7	1,185.4
200,000–249,999	4	934.1	3	700.5	3	700.5	1	247.9	1	247.9
250,000–319,999	11	3,123.0	9	2,618.8	8	2,343.2	5	1,523.9	5	1,523.9
<b>Total world</b>	<b>219</b>	<b>23,943.0</b>	<b>208</b>	<b>22,405.4</b>	<b>187</b>	<b>19,677.9</b>	<b>159</b>	<b>16,037.8</b>	<b>148</b>	<b>14,780.7</b>

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 2001*.

## World laid-up tanker and combined carrier tonnage by size, 1996–2000 (1,000 dwt)

	1996		1997		1998		1999		2000	
	no	dwt	no	dwt	no	dwt	no	dwt	no	dwt
up to 44,999	12	278.2	12	281.3	11	250.5	2	50.0	5	133.8
45,000–79,999	1	71.5	1	77.4	2	128.9	–	–	1	57.4
80,000–159,999	6	712.5	6	696.0	4	469.0	1	110.0	4	534.0
160,000–199,999	4	691.1	4	702.2	4	694.0	6	930.0	2	350.0
200,000–319,999	–	–	–	–	–	–	–	–	–	–
320,000 and over	3	1,184.5	3	1,203.5	–	–	–	–	1	402.9
<b>Total</b>	<b>26</b>	<b>2,937.8</b>	<b>26</b>	<b>2,960.4</b>	<b>21</b>	<b>1,542.4</b>	<b>9</b>	<b>1,090.0</b>	<b>13</b>	<b>1,478.2</b>

Note: Figures as at year-end.

Source: Simpson Spence & Young, *World Oil Tanker Trends 2001*.

Average spot freight rates for all routes, 1996–2000 (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
<b>1996</b>	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
<b>1997</b>	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
<b>1998</b>	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
<b>1999</b>	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
<b>2000</b>	Jan	201.9	160.0	133.0	117.9	57.2
	Feb	297.0	236.7	176.5	148.1	115.5
	Mar	231.6	197.8	187.8	134.5	61.6
	Apr	226.0	193.0	188.2	130.5	74.4
	May	273.5	206.7	165.1	133.5	89.2
	Jun	293.2	221.6	224.3	147.8	102.1
	Jul	316.9	239.7	233.7	180.9	102.3
	Aug	319.6	241.9	269.3	202.4	109.9
	Sep	330.6	250.3	204.4	163.5	134.6
	Oct	359.8	249.2	243.6	191.2	135.3
	Nov	382.5	267.2	255.6	210.0	138.1
	Dec	446.5	316.0	330.8	207.8	162.0

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

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



## Freight costs in the spot market, 1996–2000 (\$/b)

		Crude oil					Petroleum products				
		Carib/USAC	Med/NWE	WAF/USGC	Gulf/Japan	Gulf/NWE	Gulf/Japan	Med/Med	Carib/USAC	S'pore/Japan	
<b>1996</b>	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	
<b>1997</b>	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	
<b>1998</b>	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	
<b>1999</b>	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	
<b>2000</b>	Jan	0.85	0.96	1.38	0.73	1.16	2.40	0.49	0.93	1.21	
	Feb	0.96	1.07	1.26	0.77	1.24	2.60	0.62	1.04	1.33	
	Mar	1.27	1.25	1.54	0.87	1.38	2.60	0.70	1.03	1.77	
	Apr	1.60	1.13	1.58	1.09	1.69	2.69	0.75	1.20	1.82	
	May	1.06	1.14	1.58	1.32	2.02	2.52	0.76	1.18	1.65	
	Jun	1.49	1.33	1.74	1.53	2.16	2.60	0.80	1.26	1.70	
	Jul	1.61	1.62	2.29	1.54	2.30	3.09	0.87	1.33	1.88	
	Aug	1.89	2.05	2.49	1.60	2.42	3.39	0.85	1.51	1.87	
	Sep	1.52	1.41	2.11	2.08	2.83	3.38	0.88	1.63	1.86	
	Oct	1.74	1.48	2.58	2.02	3.16	3.35	0.93	1.70	1.99	
	Nov	1.93	1.88	2.78	1.98	3.25	3.79	1.14	1.52	2.53	
	Dec	1.94	1.89	2.76	2.49	3.61	3.99	1.34	1.88	2.52	

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 1980–2000 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, 1996–2000

		Gulf/West		Gulf/East		Caribbean/USAC		all routes	
		% of Worldscale	equivalent \$/t	% of Worldscale	equivalent \$/t	% of Worldscale	equivalent \$/t	% of Worldscale	equivalent \$/t
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
2000	Jan	45	7.89	57	6.12	125	5.66	99	10.50
	Feb	48	8.41	61	6.55	140	6.34	102	10.82
	Mar	54	9.47	71	7.63	193	8.48	118	12.52
	Apr	68	11.92	83	8.91	204	10.94	114	12.10
	May	76	13.32	102	10.95	163	10.65	123	13.05
	Jun	84	14.73	113	12.14	223	11.54	141	14.96
	Jul	87	15.25	114	12.24	249	13.41	157	16.66
	Aug	88	15.43	120	12.89	275	14.89	169	17.93
	Sep	104	18.23	150	16.11	201	14.40	159	16.87
	Oct	113	19.81	150	16.11	250	17.06	178	18.89
	Nov	127	22.26	147	15.79	262	18.93	184	19.52
	Dec	133	23.31	178	19.12	318	19.72	205	21.75

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, 2000

	Owner or operator	Length (miles)	Diameter (inches)
<b>Algeria</b>			
Haoud el Hamra/Arzew	Sonatrach	498	28
Hassi R'Mel/Arzew	Sonatrach	2x313	26, 24
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
Haoud el Hamra/Hassi R'Mel/Arzew	Sonatrach	498	12/16
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
<b>Indonesia</b>			
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
<b>IR Iran</b>			
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, 2000

	Owner or operator	Length (miles)	Diameter (inches)
<b>Iraq</b>			
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 Muqjez (Saudi Arabia)	INOC/Aramco	1,575	56
<b>Kuwait</b>			
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
<b>SP Libyan AJ</b>			
Sarir/Tobruk	Agoco	320	34
Sarir/Messla	Agoco	25	30
Messla/Amal	Agoco	128	42
Naffora/Amal	Agoco	32	32
Hamada/Zawia	Agoco	241	18
Amal/Ras Lanuf	VOO	2x170	30/36
Asida/Ras Lanuf	VOO	54	30
Tibisti/Asida jn	VOO	84	24
Zaggut/Es Sider	Waha Oil	166	24
Waha/Zaggut	Waha Oil	27	24
Waha/Samah (loop)	Waha Oil	40	24
South Defa/Waha	Waha Oil	25	30
Gialo/Waha	Waha Oil	94	30
Zaggut/Samah	Waha Oil	22	24
Samha/Dahra	Waha Oil	114	32
Dahra/Bahi jn	Waha Oil	43	30
Bahi/Bahi jn	Waha Oil	29	20
Bahi jn/Es Sider	Waha Oil	2x44	30
Nasser/Brega	Waha Oil	107	36
Raguba/km 110	Waha Oil	55	20
Km 91.5/Breg	Waha Oil	57	16
Bu-attifel/Intisar (condensate)	Agip/NOC	83	30
Bu-attifel/Intisar (condensate)	Agip/NOC	83	10
Remal/Bu-aati	Agip/NOC	47	12
103A/Zueitina Termial	ZOC	2x137	40,20
Zella/Hofra	ZOC	70	20

## Crude oil pipelines in OPEC Members, 2000

	Owner or operator	Length (miles)	Diameter (inches)
<b>Nigeria</b>			
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
Iyakb/Iyaka/Ekua	Mobil	9	13/18
Unamb/Ubit F	Mobil	2	13
<b>Qatar</b>			
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, 2000

	Owner or operator	Length (miles)	Diameter (inches)
<b>Saudi Arabia</b>			
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
<b>Saudi-Kuwaiti Neutral Zone</b>			
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
<b>United Arab Emirates</b>			
Murban/Jabel Dhanna	ADCO	3x50	24, 24, 36
Umm Shaif/Das Island	ADMA	22	30
Lower Zakum/Das Island	ADMA	56	30
Upper Zakum/Zirku Island	ZADCO	40	42
Bunduq/Das Island	Government	18	16
Mubarras/Mubarras Island	ADOC	21	24

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## Crude oil pipelines in OPEC Members, 2000

	Owner or operator	Length (miles)	Diameter (inches)
<b>Venezuela</b>			
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/Misosa	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, 2000

	Owner or operator	Length (miles)	Diameter (inches)
<b>Algeria</b>			
Alrar/Hassi R'Mel	Sonatrach	597	42/48
Hassi R'Mel/Arzew	Sonatrach	316	24
Hassi R'Mel/Arzew (GZ1 to GZ3)	Sonatrach	315, 315, 317	40, 40, 42
Hassi R'Mel/Skikda	Sonatrach	356	42
Hassi R'Mel/Tunisian border	Sonatrach	2x341	48, 48
Hassi R'Mel/Moroccan border	Sonatrach	329	48
Hassi R'Mel/Issers	Sonatrach	278	42
<b>Indonesia</b>			
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
<b>IR Iran</b>			
Bid Boland/Astara (lgat 1)	NIGC	686	42/40
Bid Boland/Shiraz	NIGC	171	16
Kangan/Ghazvin/Zanjan/Meyaneh/Tabriz	NIGC	823	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
Kangan/Noorabad/Saveh	NIGC	574	56
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
<b>Iraq</b>			
Rumaila/Kuwait	INOC	106	4
<b>Kuwait</b>			
Raudhatain/Ahmadi	KOC	57	30
Magwa/Ahmadi	KOC	10	20/40
Umm Gudair/Shuaiba	KOC	41	10/12
Burghan/Ahmadi	KOC	14	32/40
<b>SP Libyan AJ</b>			
Naser/Brega	Sirte Oil	108	36
Hateiba/Brega	Sirte Oil	69	30
Km 91.5/Brega	Sirte Oil	57	30
Intisar/Sahl/km 81	Sirte Oil	86	30



## Gas pipelines in OPEC Members, 2000

	Owner or operator	Length (miles)	Diameter (inches)
<b>SP Libyan AJ (continued)</b>			
Brega/Tripoli	Sirte Oil	489	34
Brega/Nenghazi	Sirte Oil	160	34
Bahi/Dahra	Waha Oil	30	12
South Defa/Naser	Waha Oil	73	24
Faregh/Intisar 103 A	Waha Oil	68	24
Masrab/Gialo	Waha Oil	25	6
Buttifel/Intisar A	Agip/NOC	85	34
Jakhira/103 A	Wintershall	53	20
Messla/Sarir/Gmmra	Agoco	83	20/16
<b>Nigeria</b>			
Sapele/Ajaokuta	NGC	27	10/18
Escravos/Lagos	NGC	319	30/36
Oben/Ajaokuta	NGC	122	24
Eriemu/Aladja	NGC	21	16
Imo River/Aba	NGC	7	12
Oben/Sapele	NGC	22	18
Obigbo North/Afam	NGC	11	16
Bomu/Afam	Shell	2x6	8, 10
Alakiri Onne	NGC	9	14
<b>Qatar</b>			
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
<b>United Arab Emirates</b>			
Habshan/Maqta	ADNOC	81	42
Bab/Maqta	ADNOC	83	30
Bab/Ruwais	ADNOC	68	30
Maqta/Taweelah	ADNOC	2x33	24, 36
Maqta/Al Ain	ADNOC	100	30
Murgam/Jabel Ali	Dubai	47	24
Sajaa/Sharjah	EMMARAT	27	18/6/4
UAN/Mussaffah	ADNOC-FOD	10	8
<b>Venezuela</b>			
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, 2000

	Owner or operator	Length (miles)	Diameter (inches)
<b>Algeria</b>			
Houd El Hamra/Hassi R'Mel <sup>1</sup>	Sonatrach	184	12
Hassi R'Mel/Arzew <sup>1</sup>	Sonatrach	316	16
<b>Indonesia</b>			
Cilacap/Padalarang	Pertamina	258	10/16
Cilacap/Ujung Berung	Pertamina	225	10/16
Cilacap/Tasilmalaya	Pertamina	128	10/16
Cilacap/Maos	Pertamina	21	10
Cilacap/Rewulu	Pertamina	258	8/12
TTB/Pumpang	Pertamina	210	16
<b>IR Iran</b>			
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
<b>Iraq</b>			
Baghdad/Basrah	INOC	2x364	8
<b>Kuwait</b>			
Shuaiba/Sabhen	KNPC	2x102	8, 10
Sabhen/Shuwaikh	KNPC	49	8
Ahmadi/Airport	KNPC	110	8
<b>SP Libyan AJ</b>			
Zawia/Al-Fatah	Brega Marketing	34	8, 10
Zawia/Zanzur	Brega Marketing	20	8

## Product pipelines in OPEC Members, 2000

	Owner or operator	Length (miles)	Diameter (inches)
<b>Nigeria</b>			
<b>System 2A:</b>			
Warri/Benin/Ore/Mosimi	NNPC/PPMC	219	16/14/12
Benin/Auchi	NNPC/PPMC	104	8
<b>System 2B:</b>			
Atlas Cove/Mosimi	NNPC/PPMC	46	16
Mosimi/Ibadan	NNPC/PPMC	49	12
Mosimi/Ilorin	NNPC/PPMC	105	6
Mosimi/Ikeja	NNPC/PPMC	31	8
<b>System 2D:</b>			
Kaduna/Kanol/Gusau	NNPC/PPMC	223	10/6
Kaduna/Jos/Gombe-Maiduguri	NNPC/PPMC	452	10/12/6/8
<b>System 2E:</b>			
Port Harcourt/Abai/Enugu/Makurdi/Yola	NNPC/PPMC	657	12/6/8
Enugu/Auchi	NNPC/PPMC	99	12
<b>United Arab Emirates</b>			
UAN Refinery/Al Ain	ADNOC-FOD	104	12
UAN Refinery/Abu Dhabi airport	ADNOC-FOD	11	10
UAN Refinery/Mussaffah	ADNOC-FOD	2x10	8, 12
<b>Venezuela</b>			
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.

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## Spot OPEC Reference Basket prices, 1991–2000 (\$/b)

		Algeria Saharan Blend	Indonesia Minas	Nigeria Bonny Light	S. Arabia Arab Light	UAE Dubai	Venezuela T J Light	Mexico Isthmus	OPEC Reference Basket
		44.1/0.1	33.9/0.1	36.7/0.1	34.2/1.7	32.5/1.43	32.4/1.2	32.8/1.51	
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
2000		28.77	28.74	28.49	26.81	26.25	26.31	27.80	27.60
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
2000	Jan	25.89	24.39	25.41	24.43	23.23	23.74	24.97	24.58
	Feb	28.74	26.48	28.36	25.85	24.77	26.08	27.62	26.84
	Mar	27.65	27.39	27.54	26.02	24.99	25.89	27.51	26.71
	Apr	22.91	24.15	22.91	22.95	22.14	22.16	23.31	22.93
	May	28.02	28.26	27.87	26.27	25.69	25.50	26.95	26.94
	Jun	29.94	31.30	29.86	28.09	27.24	27.99	29.45	29.12
	Jul	28.76	30.44	28.75	27.19	26.35	26.32	27.74	27.94
	Aug	29.25	30.33	29.06	27.12	26.79	26.84	28.75	28.30
	Sep	33.18	33.36	32.65	30.60	30.05	29.33	31.19	31.48
	Oct	31.19	32.30	30.67	30.17	30.57	28.34	29.73	30.42
	Nov	33.06	31.07	32.86	29.81	30.25	30.01	31.47	31.22
	Dec	26.11	24.87	25.47	22.65	22.27	23.11	24.40	24.13

Notes: The numbers below the crude names show the API gravities and percentage of sulphur by weight. Prices are averages of weekly fob quotations.  
Sources: Secretariat's assessments; Reuters; Platt's Oilgram.

## Spot crude oil prices, 1991–2000 (\$/b)

	Algeria Zarzaitine 41.9/0.07	Indonesia Attaka 42.3/0.09	IR Iran Iran Light 33.9/1.4    Iran Heavy 31.0/1.6		Iraq Basrah 34.0/2.0    Kirkuk 36.1/2.1		Kuwait Kuwait Exp. 31.4/2.6	SP Libyan AJ Brega 40.4/0.2	
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	
2000	28.82	29.54	26.75	26.02	24.82	25.17	25.78	28.65	
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
2000	Jan	25.99	24.80	24.35	23.88	25.73	24.61	23.70	25.32
	Feb	28.76	27.05	25.70	25.04	24.36	26.62	24.84	28.59
	Mar	27.63	28.41	25.87	25.20	22.15	25.05	25.07	27.71
	Apr	23.02	25.43	22.86	22.50	24.98	21.07	22.29	22.86
	May	27.99	28.39	26.10	25.80	25.88	25.48	25.60	27.84
	Jun	29.98	30.07	27.99	27.64	24.48	26.84	27.44	30.14
	Jul	28.84	30.67	27.09	26.67	26.42	23.50	26.39	29.36
	Aug	29.33	31.80	27.12	26.51	27.43	26.16	26.21	29.44
	Sep	33.28	34.38	30.45	29.35	27.37	27.86	29.05	32.64
	Oct	31.30	33.23	30.42	29.17	26.63	26.75	28.87	30.98
	Nov	33.48	31.79	29.75	28.50	19.32	27.89	28.20	32.99
	Dec	25.72	26.85	22.66	21.41	23.11	20.28	21.11	25.40

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

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

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## Spot crude oil prices, 1991–2000 (\$/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					
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	
2000	28.40	26.95	25.99	25.24	27.75	na	27.32	27.37	
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	10.61	9.53
	Feb	10.11	10.44	9.65	9.20	10.24	na	9.66	9.31
	Mar	12.30	12.59	11.76	11.31	12.62	na	11.88	12.17
	Apr	15.20	15.24	14.37	13.72	15.21	na	14.82	14.83
	May	15.39	15.82	15.15	14.60	15.94	na	14.89	15.11
	Jun	15.68	15.76	14.96	14.51	15.96	na	15.29	15.14
	Jul	19.18	18.34	17.30	16.80	18.35	na	18.64	17.66
	Aug	20.32	19.98	19.04	18.45	20.06	na	19.79	19.16
	Sep	22.84	22.51	21.85	21.30	22.85	na	22.12	22.34
	Oct	22.16	22.00	21.68	21.03	22.63	na	21.21	21.04
	Nov	24.76	23.70	23.26	22.81	24.36	na	23.57	22.97
	Dec	25.82	24.13	24.07	23.70	25.19	na	25.23	23.78
2000	Jan	25.40	24.55	23.83	23.08	24.97	na	24.54	25.69
	Feb	28.29	25.79	24.90	24.00	26.58	na	27.31	27.00
	Mar	27.44	25.93	25.27	24.52	26.71	na	26.52	27.21
	Apr	22.86	23.20	22.50	22.00	23.83	na	21.90	22.42
	May	27.74	26.06	25.77	25.27	27.23	na	27.05	26.82
	Jun	29.74	28.09	27.59	27.09	28.79	na	29.12	29.05
	Jul	28.53	27.08	26.59	25.99	27.79	na	27.91	27.34
	Aug	28.72	27.64	26.32	25.52	28.26	na	28.14	27.70
	Sep	32.69	31.05	29.20	28.00	31.70	na	30.71	30.85
	Oct	30.67	30.20	29.00	28.21	31.37	na	28.56	29.89
	Nov	32.78	29.94	29.14	27.94	30.53	na	30.95	31.40
	Dec	25.53	23.44	21.28	20.83	24.64	na	23.30	22.52

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

## Spot crude oil prices, 1991–2000 (\$/b)

	Gabon	Oman	Egypt	UK		Norway		Mexico	
	Mandji	Oman	Suez Blend	Brent	Forties	Ekofisk	Oseberg	Maya	
	28.8/1.3	36.3/0.79	33.0/1.4	38.0/0.26	36.6/0.3	43.0/0.14	33.7/0.31	22.0/3.32	
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	
2000	26.15	26.50	25.16	28.44	28.61	28.42	28.78	22.87	
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
2000	Jan	24.04	24.14	23.33	25.26	25.64	25.53	25.64	21.14
	Feb	26.69	25.42	26.16	27.99	28.53	28.47	28.59	23.52
	Mar	25.06	25.55	24.68	27.14	27.33	27.29	27.48	23.50
	Apr	20.13	22.75	19.90	22.66	22.88	22.74	22.79	20.11
	May	25.07	25.65	25.03	27.60	28.04	27.91	27.96	23.06
	Jun	27.27	27.74	26.64	29.74	29.89	29.85	29.86	24.88
	Jul	26.43	26.83	24.24	28.96	28.51	28.44	28.67	23.09
	Aug	27.18	27.24	26.24	29.74	28.79	28.57	29.02	23.50
	Sep	30.38	30.55	28.59	32.94	33.03	32.75	33.03	26.20
	Oct	28.30	29.88	26.18	30.86	31.29	30.77	31.35	24.31
	Nov	30.09	28.97	29.06	32.67	33.07	32.66	33.21	23.38
	Dec	22.49	22.76	21.11	25.07	25.76	25.50	25.88	17.09

**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, Secretariat's assessments.

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## Spot crude oil prices, 1991–2000 (\$/b)

	China		Malaysia	Australia	Colombia		USA	Russia
	Daqing	Tapis	Miri	Gippsland	Cano Limon	WTI	ANS	Urals
	33.0/0.78	44.3/0.2	36.3/0.1	46.0/0.13	30.8/0.47	40.0/0.4	27.0/1.06	36.1/2.52
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
2000	28.74	29.74	29.50	29.40	28.57	30.37	28.40	26.58
1998	Jan	14.81	15.91	15.30	15.08	16.63	14.78	14.31
	Feb	13.73	15.22	14.65	14.46	16.15	13.49	13.11
	Mar	12.38	13.46	13.11	13.16	15.17	12.33	12.17
	Apr	13.14	15.11	14.41	13.40	15.29	12.39	12.40
	May	12.53	14.53	14.10	13.13	14.91	12.30	13.00
	Jun	11.83	13.68	13.38	12.03	13.74	11.70	10.17
	Jul	12.68	13.82	13.39	12.59	14.05	12.89	11.26
	Aug	12.01	13.16	12.63	11.98	13.44	12.53	11.56
	Sep	11.82	13.63	12.98	13.34	14.85	14.00	12.78
	Oct	12.66	14.37	13.83	12.78	14.36	13.31	11.41
	Nov	11.60	13.23	12.55	11.38	13.10	11.61	10.46
	Dec	9.77	10.96	10.43	9.66	11.26	9.36	9.42
1999	Jan	10.89	12.43	11.89	10.91	12.41	10.63	10.85
	Feb	10.50	11.37	11.04	10.56	11.96	10.39	9.43
	Mar	12.29	13.57	13.13	13.12	14.64	13.05	11.76
	Apr	15.48	16.09	15.71	15.73	17.25	15.56	14.15
	May	16.55	16.60	16.38	15.73	17.83	15.96	14.23
	Jun	16.53	17.01	16.48	15.67	17.87	15.81	14.76
	Jul	18.44	19.60	19.05	18.33	20.08	18.15	18.60
	Aug	19.54	21.72	21.44	20.05	21.20	20.01	19.77
	Sep	22.03	23.88	23.61	23.09	24.04	23.13	21.96
	Oct	22.56	23.62	23.43	21.89	22.73	21.88	21.33
	Nov	23.92	24.06	24.57	24.34	24.99	23.65	24.17
	Dec	24.14	25.30	24.86	25.63	26.21	24.66	25.44
2000	Jan	24.35	25.44	25.18	26.54	27.15	25.61	24.83
	Feb	26.53	27.59	27.23	28.51	29.44	27.72	27.52
	Mar	27.44	28.53	28.00	28.88	29.85	27.96	25.60
	Apr	24.25	25.47	24.84	24.01	25.81	23.86	21.20
	May	28.40	28.67	28.29	26.97	28.78	27.08	26.35
	Jun	31.36	30.47	30.11	30.68	31.93	29.68	27.39
	Jul	30.48	30.88	30.40	28.91	30.19	28.09	24.75
	Aug	30.37	31.82	31.32	29.06	31.04	29.10	27.00
	Sep	33.34	34.51	34.10	31.95	34.05	32.44	30.30
	Oct	31.91	31.85	32.61	31.14	33.00	31.54	28.04
	Nov	30.97	na	32.75	32.70	34.65	33.05	31.23
	Dec	24.92	na	27.58	23.13	28.39	24.17	24.06

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

Source: Reuters; Platt's Oilgram.



**Graph 50:**  
OPEC Reference Basket and other spot crude oil prices, 1991–2000 (\$/b)



**Graph 51:**  
Spot price differences of WTI, Brent and Dubai to OPEC Basket, 1991–2000 (\$/b)



**Graph 52:**  
Spot prices of Bonny Light and Arab Heavy, 1991–2000 (\$/b)



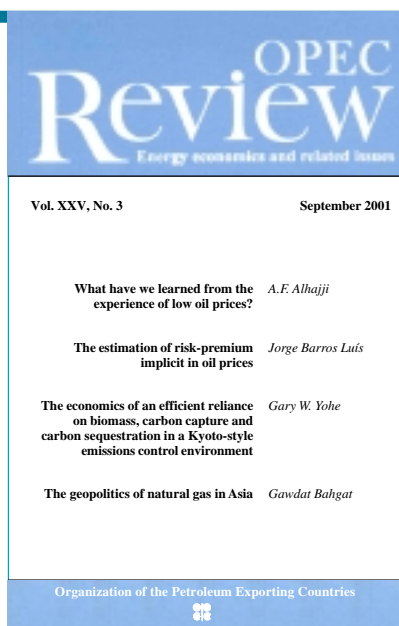
**Graph 53:**  
Spot price differences of Bonny Light and Arab Heavy to OPEC Basket, 1991–2000 (\$/b)



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

## Crude oil prices in nominal and real terms, 1970–2000 (\$/b)

	Nominal oil price <sup>1</sup>	Exchange rates <sup>2</sup>	Nominal price adjusted for:	
			Inflation <sup>3</sup>	Combined <sup>4</sup>
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
2000	27.60	35.09	6.76	8.60

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-à-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, 1991–2000 (\$/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
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
2000		35.10	34.04	20.77	32.55	32.46	23.04	35.16	33.76	20.47
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
2000	Jan	29.39	30.38	19.22	28.36	28.14	19.95	28.23	28.96	18.83
	Feb	34.41	31.72	20.95	31.16	29.90	21.15	32.32	29.85	19.81
	Mar	36.21	30.59	21.61	32.58	32.94	24.69	36.27	30.28	22.12
	Apr	30.96	29.00	18.78	28.01	26.73	22.39	33.42	28.23	18.12
	May	37.42	30.76	21.27	31.90	28.12	23.60	38.99	29.87	18.70
	Jun	40.83	32.06	22.74	33.08	30.69	25.31	44.28	31.40	21.23
	Jul	34.97	32.25	20.48	36.05	31.86	22.09	37.67	33.02	19.79
	Aug	35.69	36.55	20.28	38.31	37.46	21.64	36.20	36.45	19.69
	Sep	38.10	40.80	23.60	35.05	40.13	24.87	37.70	42.09	23.04
	Oct	36.98	39.55	23.10	33.09	39.02	26.53	35.31	40.06	23.82
	Nov	35.99	40.54	20.81	32.97	34.85	24.49	33.46	40.68	22.18
	Dec	30.25	34.32	16.44	29.97	29.61	19.74	28.05	34.25	18.31

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

Source: Platt's Oilgram, Reuters.

Retail prices of refined products in OPEC Members, 1996–2000 (*units of national currency/b*)

	1996	1997	1998	1999	2000
<b>Algeria</b>					
Gasoline	2,543.8	3,020.8	3,092.3	3,092.3	4,225.5
Diesel oil	1,478.6	1,788.6	1,828.4	1,828.4	2,458.0
Kerosene	607.3	667.8	683.6	683.6	919.1
Fuel oil	1,351.4	1,519.9	1,569.6	1,569.6	2,064.7
<b>Indonesia</b>					
Gasoline	111,291.7	111,291.7	143,089.4	158,988.2	164,941.8
Diesel oil	60,412.4	60,412.4	78,434.2	87,443.5	89,426.3
Kerosene	44,514.4	44,514.4	44,516.7	44,516.7	55,245.6
Fuel oil	38,157.2r	38,157.2r	49,813.7r	55,643.0	57,630.3
<b>IR Iran</b>					
Gasoline	23,431.5	28,816.6	36,169.8	59,620.6	78,695.1
Diesel oil	4,423.5	5,962.1	8,744.4	14,308.9	18,282.7
Kerosene	4,423.5	5,962.1	8,744.4	14,308.9	18,282.7
Fuel oil	2,186.0	2,980.9	4,372.0	7,154.1	9,642.1
<b>Iraq</b>					
Gasoline	238.5	na	na	na	na
Diesel oil	159.0	na	na	na	na
Kerosene	79.5	na	na	na	na
Fuel oil	15.9	na	na	na	na
<b>Kuwait</b>					
Gasoline	7.2	7.2	7.2	8.2	9.9
Diesel oil	6.4	6.4	6.4	7.3	8.7
Kerosene	6.4	6.4	6.4	7.3	8.7
Fuel oil	2.9	2.9	2.9	2.9	2.9
<b>SP Libyan AJ</b>					
Gasoline	19.5	19.5	19.5	19.5	19.5
Diesel oil	17.5	17.5	17.5	17.5	17.5
Kerosene	11.5	11.5	11.5	11.5	11.5
Fuel oil	1.9	1.9	1.9	1.9	1.9
<b>Nigeria</b>					
Gasoline	1,748.8	1,748.8	1,748.8	3,179.6	3,497.6
Diesel oil	1,430.8	1,430.8	1,430.8	3,020.6	3,338.6
Kerosene	953.9	953.9	953.9	2,702.7	2,702.7
Fuel oil	1,112.9	1,112.9	1,112.9	1,112.9	1,907.8
<b>Qatar</b>					
Gasoline	91.4	91.4	95.4	107.3	107.3
Diesel oil	87.4	87.4	89.4	95.4	95.4
Kerosene	63.6	63.6	63.6	63.6	63.6
Fuel oil	na	na	na	na	na
<b>Saudi Arabia</b>					
Gasoline	95.4	95.4	95.4	127.2	143.1
Diesel oil	58.8	58.8	58.8	58.8	58.8
Kerosene	69.2	69.2	69.2	69.2	69.2
Fuel oil	23.9	23.9	23.9	23.9	23.9
<b>United Arab Emirates</b>					
Gasoline	132.9	137.5	137.5	137.5	139.9
Diesel oil	115.4	115.4	94.4	94.4	146.9
Kerosene	122.4	122.4	104.9	104.9	125.9
Fuel oil	89.6	89.6	89.6	89.6	89.6
<b>Venezuela</b>					
Gasoline	6,860.3	8,744.4	11,129.5	11,129.5	11,129.5
Diesel oil	5,902.4	7,631.4	7,631.4	7,631.4	7,631.4
Kerosene	8,277.4	11,653.8	10,765.2	10,598.5	19,398.6
Fuel oil	557.8	1,063.1	3,590.9	5,272.3	6,801.7

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

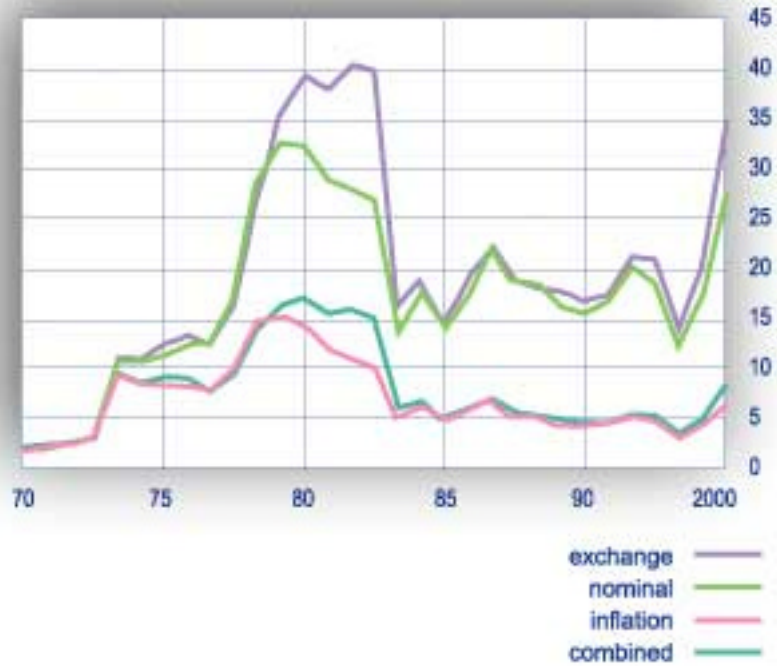
## Composite barrel and its components in major consuming countries, 1996–2000 (\$/b)

	1996	1997	1998	1999	2000
<b>USA</b>					
Composite barrel	46.1	46.0	39.9	43.9	57.9
Crude cif price	20.2	18.4	12.0	16.9	27.5
Tax	14.6	14.4	13.5	13.8	15.8
Industry margin	11.3	13.2	14.4	13.2	14.7
<b>Canada</b>					
Composite barrel	60.2	60.6	52.8	56.2	68.9
Crude cif price	21.3	20.6	13.1	17.9	29.2
Tax	22.8	22.8	21.1	21.4	22.3
Industry margin	16.1	17.1	18.5	16.9	17.4
<b>Japan</b>					
Composite barrel	98.6	91.4	80.8	91.9	100.1
Crude cif price	20.6	20.5	13.7	17.5	28.7
Tax	38.0	35.1	32.6	37.3	39.3
Industry margin	40.1	35.9	34.5	37.1	32.1
<b>France</b>					
Composite barrel	120.6	108.9	102.2	103.3	110.2
Crude cif price	20.8	19.0	12.4	17.6	28.2
Tax	83.4	74.6	74.1	72.5	64.5
Industry margin	16.4	15.4	15.7	13.2	17.5
<b>Germany</b>					
Composite barrel	105.2	93.0	83.0	86.8	92.7
Crude cif price	20.7	19.0	12.4	17.6	28.2
Tax	63.5	55.4	52.7	54.5	52.1
Industry margin	21.0	18.6	17.9	14.7	12.4
<b>Italy</b>					
Composite barrel	114.0	104.6	97.9	99.5	100.7
Crude cif price	20.5	18.8	12.2	17.2	27.8
Tax	77.2	70.4	69.2	68.8	59.3
Industry margin	16.3	15.3	16.5	13.5	13.6
<b>United Kingdom</b>					
Composite barrel	112.6	127.1	131.7	141.6	152.9
Crude cif price	21.1	19.3	12.6	18.0	28.7
Tax	69.0	80.1	89.6	95.6	94.1
Industry margin	22.5	27.7	29.4	27.9	30.1
<b>European Union</b>					
Composite barrel	108.2	101.3	94.5	96.9	103.2
Crude cif price	20.7	19.0	12.4	17.6	28.1
Tax	68.3	63.6	64.2	64.7	59.7
Industry margin	19.2	18.7	18.0	14.7	15.4

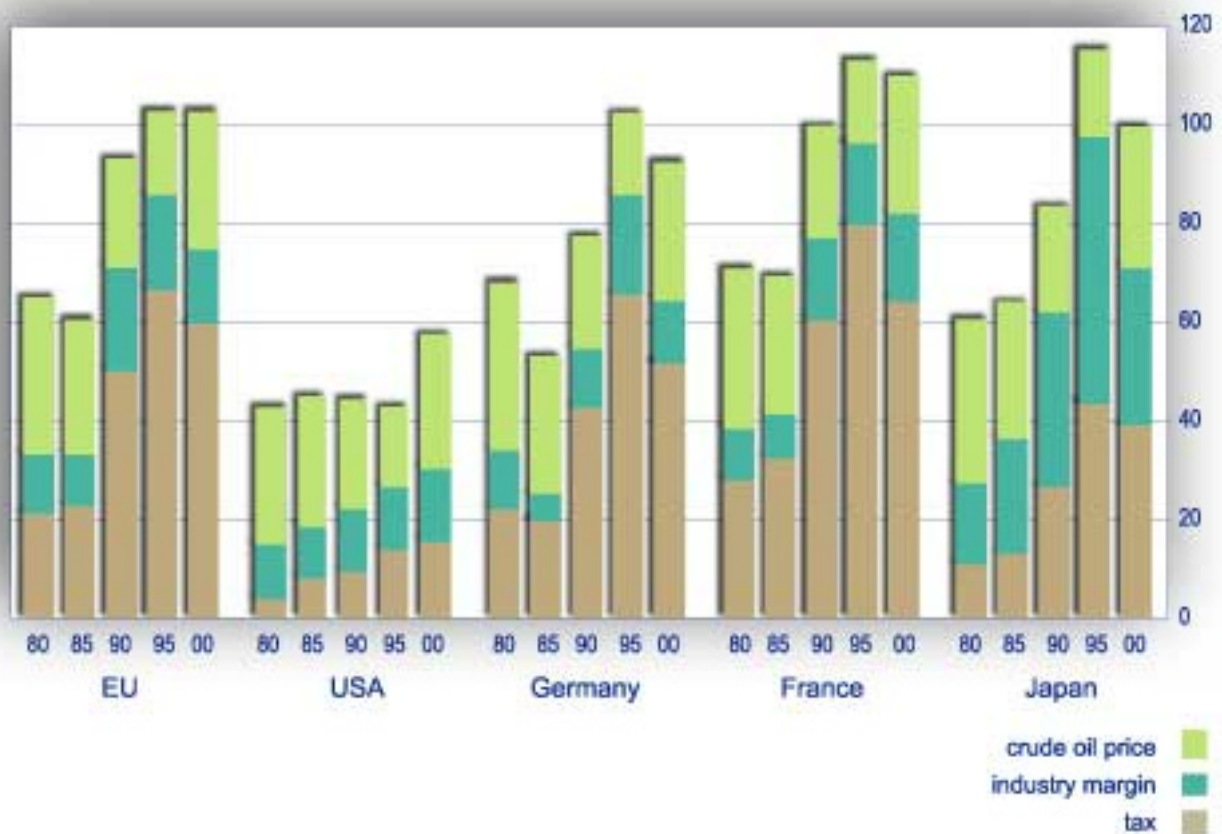
**Notes:** Composite barrel is a consumption weighted average of final consumer prices (including taxes) of main groups of refined products. Tax is a consumption weighted average of total taxes (including VAT if applicable) levied on refined products. Industry margin is a calculated value arrived at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

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

**Graph 54:**  
Crude oil prices in nominal and real terms, 1970–2000  
(\$/b)



**Graph 55:**  
Composite barrel and its components, 1980–2000  
(\$/b)



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## Principal operations of the major oil companies, 1996–2000 (1,000 b/d)

	1996	1997	1998	1999	2000
<b>BP Amoco</b>					
Crude oil and NGL reserves <sup>1</sup>	7,325	7,612	7,304	6,535	6,508
Natural gas reserves <sup>2</sup>	30,349	30,374	31,001	33,802	41,100
Crude oil produced	1,903	1,930	2,049	2,061	1,928
Crude oil processed	2,812	2,867	2,711	2,541	2,928
Refined products sold	4,454	4,674	4,802	5,002	5,859
Natural gas sold <sup>3</sup>	5,917	5,858	5,808	6,067	7,609
<b>ExxonMobil</b>					
Crude oil and NGL reserves <sup>1</sup>	10,121	10,895	11,550	11,837	12,171
Natural gas reserves <sup>2</sup>	58,605	59,085	58,006	56,796	55,866
Crude oil produced	2,469	2,526	2,502	2,517	2,553
Crude oil processed	5,925	6,234	6,093	5,977	5,642
Refined products sold	8,555	8,773	8,873	8,887	7,984
Natural gas sold <sup>3</sup>	11,164	10,894	10,617	10,308	10,343
<b>TotalFinaElf</b>					
Crude oil and NGL reserves <sup>1</sup>	2,818	5,905	6,267	6,868	6,960
Natural gas reserves <sup>2</sup>	10,192	19,017	19,082	20,253	20,705
Crude oil produced	510	1,537	1,502	1,468	1,433
Crude oil processed	940	2,314	2,570	2,411	2,411
Refined products sold	1,460	3,100	3,738	3,830	3,695
Natural gas sold <sup>3</sup>	1,387	3,304	3,107	3,758	3,322
<b>Royal Dutch/Shell</b>					
Crude oil and NGL reserves <sup>1</sup>	9,435	9,681	10,031	9,775	9,751
Natural gas reserves <sup>2</sup>	53,027	56,131	60,462	58,541	56,283
Crude oil produced	2,305	2,328	2,354	2,268	2,274
Crude oil processed	3,771	4,057	3,207	2,989	2,787
Refined products sold	6,316	6,560	5,716	5,366	5,574
Natural gas sold <sup>3</sup>	8,354	8,001	7,862	8,218	8,212
<b>Chevron</b>					
Crude oil and NGL reserves <sup>1</sup>	4,364	4,506	4,697	4,784	5,001
Natural gas reserves <sup>2</sup>	10,317	9,963	9,303	9,056	9,552
Crude oil produced	1,043	1,074	1,107	1,127	1,159
Crude oil processed	1,488	1,498	1,344	1,424	1,358
Refined products sold	2,289	2,281	2,224	2,324	2,314
Natural gas sold <sup>3</sup>	4,366	4,609	4,807	4,936	5,261
<b>Texaco</b>					
Crude oil and NGL reserves <sup>1</sup>	2,704	3,267	3,573	3,480	3,518
Natural gas reserves <sup>2</sup>	5,973	6,242	6,517	8,108	8,292
Crude oil produced	787	833	930	885	800
Crude oil processed	1,486	1,551	1,530	1,491	1,318
Refined products sold	2,553	2,585	2,888	3,221	3,125
Natural gas sold <sup>3</sup>	3,653	4,176	4,537	3,940	4,440
<b>Total majors</b>					
Crude oil and NGL reserves <sup>1</sup>	36,767	41,866	43,422	43,279	43,909
Natural gas reserves <sup>2</sup>	168,463	180,812	184,371	186,556	191,798
Crude oil produced	9,017	10,228	10,444	10,326	10,147
Crude oil processed	16,422	18,521	17,455	16,833	16,444
Refined products sold	25,627	27,973	28,241	28,630	28,551
Natural gas sold <sup>3</sup>	34,841	36,842	36,738	37,227	39,187

**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.

**Sources:** Oil companies' annual reports.



Revenue, operating costs, deductions, taxation and net income of the major oil companies, 1996–2000 (m \$)

	1996	1997	1998	1999	2000
<b>BP Amoco</b>					
Revenues <sup>1</sup>	102,064	108,564	83,732	101,180	161,826
Cost of sales <sup>2</sup>	93,036	98,939	77,601	96,020	145,712
Income tax (benefit)	2,783	3,013	1,520	1,880	4,972
Special deductions	–	–	–	–	–
Net income (loss)	6,245	6,612	4,611	3,280	11,142
<b>ExxonMobil</b>					
Revenues <sup>3</sup>	215,752	201,746	171,303	186,906	232,737
Cost of sales <sup>4</sup>	197,725	182,409	159,290	175,756	203,926
Income tax (benefit)	7,553	7,605	3,939	3,240	11,091
Special deductions	–	–	–	–	–
Net income (loss)	10,474	11,732	8,074	7,910	17,720
<b>TotalFinaElf<sup>5</sup></b>					
Revenues <sup>3</sup>	34,004	83,603	68,744	79,991	105,828
Cost of sales <sup>4</sup>	32,405	77,547	65,465	74,632	93,604
Income tax (benefit)	512	3,216	1,266	2,061	5,846
Special deductions	–	–	–	–	–
Net income (loss)	1,087	2,840	2,013	3,298	6,378
<b>Royal Dutch/Shell</b>					
Revenues <sup>3</sup>	171,964	171,657	138,272	149,680	191,511
Cost of sales <sup>4</sup>	157,259	156,482	136,009	135,400	167,519
Income tax (benefit)	5,819	7,422	1,913	5,696	11,273
Special deductions	–	–	–	–	–
Net income (loss)	8,886	7,753	350	8,584	12,719
<b>Chevron</b>					
Revenues	43,893	41,963	30,557	36,586	51,996
Cost of sales <sup>4</sup>	39,153	36,461	28,723	32,938	42,726
Income tax (benefit)	2,133	2,246	495	1,578	4,085
Special deductions	–	–	–	–	–
Net income (loss)	2,607	3,256	1,339	2,070	5,185
<b>Texaco</b>					
Revenues	45,500	46,667	31,707	35,691	51,130
Cost of sales <sup>4</sup>	42,517	43,340	31,056	33,912	46,908
Income tax (benefit)	965	663	98	602	1,676
Special deductions	–	–	–25	–	–
Net income (loss)	2,018	2,664	578	1,177	2,546
<b>Total majors</b>					
Revenues	613,177	654,200	524,315	590,034	795,028
Cost of sales	562,095	595,178	498,129	548,658	700,395
Income tax (benefit)	19,765	24,165	9,221	15,057	38,943
Special deductions	–	–	–	–	–
Net income (loss)	31,317	34,857	16,965	26,319	55,690

**Notes:** BP and Amoco, and Exxon and Mobil merged to create BP Amoco and ExxonMobil in December 1998 and November 1999, respectively. Both data series have been adjusted to include the new companies. TotalFina merged with Elf Aquitaine in February 2000. The data series has been adjusted to include Total from 1997, TotalFinaElf from 1999 and the new company from 2000. 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.

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Costs, deductions, taxation and net income as percentage of revenues of the major oil companies, 1996–2000

	1996	1997	1998	1999	2000
<b>BP Amoco</b>					
Revenues	100	100	100	100	100
Cost of sales	91.2	91.1	92.7	94.9	90.0
Income tax (benefit)	2.7	2.8	1.8	1.9	3.1
Special deductions	–	–	–	–	–
Net income (loss)	6.1	6.1	5.5	3.2	6.9
<b>ExxonMobil</b>					
Revenues	100	100	100	100	100
Cost of sales	91.6	90.4	93.0	94.0	87.6
Income tax (benefit)	3.5	3.8	2.3	1.7	4.8
Special deductions	–	–	–	–	–
Net income (loss)	4.9	5.8	4.7	4.2	7.6
<b>TotalFinaElf</b>					
Revenues	100	100	100	99	100
Cost of sales	95.3	92.8	95.2	92.4	88.4
Income tax (benefit)	1.5	3.8	1.8	2.6	5.5
Special deductions	–	–	–	–	–
Net income (loss)	3.2	3.4	2.9	4.1	6.0
<b>Royal Dutch/Shell</b>					
Revenues	100	100	100	100	100
Cost of sales	91.4	91.2	98.4	90.5	87.5
Income tax (benefit)	3.4	4.3	1.4	3.8	5.9
Special deductions	–	–	–	–	–
Net income (loss)	5.2	4.5	0.3	5.7	6.6
<b>Chevron</b>					
Revenues	100	100	100	100	100
Cost of sales	89.2	86.9	94.0	90.0	82.2
Income tax (benefit)	4.9	5.4	1.6	4.3	7.9
Special deductions	–	–	–	–	–
Net income (loss)	5.9	7.8	4.4	5.7	10.0
<b>Texaco</b>					
Revenues	100	100	100	100	100
Cost of sales	93.4	92.9	97.9	95.0	91.7
Income tax (benefit)	2.1	1.4	0.3	1.7	3.3
Special deductions	–	–	–	–	–
Net income (loss)	4.4	5.7	1.8	3.3	5.0
<b>Total majors</b>					
Revenues	100	100	100	100	100
Cost of sales	91.7	91.0	95.0	92.9	88.1
Income tax (benefit)	3.2	3.7	1.8	2.6	4.9
Special deductions	–	–	–	–	–
Net income (loss)	5.1	5.3	3.2	4.5	7.0

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, 1996–2000 (m \$)

	1996	1997	1998	1999	2000
<b>BP Amoco</b>	<b>10,288</b>	<b>11,420</b>	<b>10,362</b>	<b>7,345</b>	<b>8,937</b>
Exploration <sup>1</sup>	6,433	7,879	6,318	4,194	6,383
Production	na	na	na	na	na
Transportation	na	na	na	na	na
Refining and chemicals <sup>2</sup>	1,964	1,145	1,606	1,215	1,585
Marketing <sup>3</sup>	1,731	1,824	1,937	1,634	690
Others	160	572	501	302	279
<b>ExxonMobil<sup>4</sup></b>	<b>15,096</b>	<b>13,021</b>	<b>15,535</b>	<b>13,254</b>	<b>11,200</b>
Exploration <sup>1</sup>	8,863	8,188	9,990	8,325	6,900
Production	na	na	na	na	na
Transportation	na	na	na	na	na
Refining and chemicals <sup>2</sup>	1,939	1,323	3,008	2,398	2,600
Marketing <sup>5</sup>	3,559	2,928	2,537	2,531	1,500
Others	735	582	–	–	200
<b>TotalFinaElf<sup>6</sup></b>	<b>2,808</b>	<b>8,813</b>	<b>9,700</b>	<b>9,049</b>	<b>7,677</b>
Exploration <sup>1</sup>	1,473	5,079	6,108	5,467	5,191
Production	na	na	na	na	na
Transportation	na	na	na	na	na
Refining and chemicals <sup>2</sup>	599	1,303	1,799	1,775	1,246
Marketing <sup>3</sup>	668	2,431	1,414	1,364	1,071
Others	68		379	443	169
<b>Royal Dutch/Shell</b>	<b>11,023</b>	<b>12,274</b>	<b>12,859</b>	<b>7,409</b>	<b>6,209</b>
Exploration <sup>1</sup>	4,995	5,724	6,474	4,137	3,801
Production	na	na	na	na	na
Transportation	na	na	na	na	na
Refining and chemicals <sup>2</sup>	1,409	2,422	1,491	1,178	726
Marketing <sup>5</sup>	4,344	3,865	4,592	1,808	1,546
Others	275	263	302	286	136
<b>Chevron</b>	<b>4,840</b>	<b>5,541</b>	<b>5,314</b>	<b>6,133</b>	<b>5,153</b>
Exploration <sup>1</sup>	3,022	3,615	3,156	4,498	3,173
Production	na	na	na	na	na
Transportation	1,210	1,122	1,085	934	1,095
Refining and chemicals <sup>3</sup>	497	664	744	462	187
Marketing <sup>2</sup>	na	na	na	na	na
Others	111	140	329	239	698
<b>Texaco</b>	<b>3,431</b>	<b>5,930</b>	<b>4,019</b>	<b>3,893</b>	<b>4,234</b>
Exploration	2,378	4,452	2,655	2,723	3,055
Production	na	na	na	na	na
Transportation	na	na	na	na	na
Refining and chemicals <sup>2</sup>	na	na	na	na	na
Marketing	1,018	1,421	1,148	866	785
Others <sup>7</sup>	35	57	216	304	394
<b>Total majors</b>	<b>47,486</b>	<b>56,999</b>	<b>57,789</b>	<b>47,083</b>	<b>43,410</b>
Exploration	27,164	34,937	34,701	29,344	28,503
Production	na	na	na	na	na
Transportation	1,210	1,122	1,085	934	1,095
Refining and chemicals	6,408	6,857	8,648	7,028	6,344
Marketing	11,320	12,469	11,628	8,203	5,592
Others	1,384	1,614	1,727	1,574	1,876

**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-subsidiary companies.

**Sources:** Oil companies' annual reports.

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