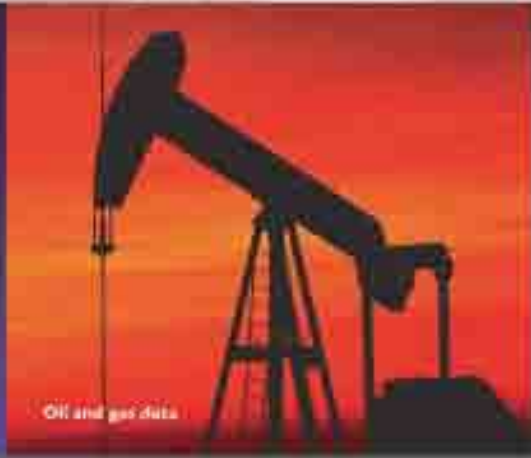


Summary tables and back indicators



Oil and gas data

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*Annual Statistical Bulletin*

**2003**

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## FOREWORD



Dr Maizar Rahman  
Indonesia's Governor for OPEC  
Acting for the Secretary General

Welcome to the 2003 edition of the OPEC Annual Statistical Bulletin, the most comprehensive package of statistical data available on the oil and gas industries of the Organization's 11 Member Countries. For almost four decades, the ASB has served as a valuable and reliable source of energy and economic data from OPEC Member Countries, as well as the industry as a whole.

A review of 2003 shows that OPEC continued to play a key role in ensuring greater stability in the oil market, especially given the momentous challenges that faced the industry that year. Indeed, as part of its ongoing efforts to closely monitor the market and ensure an adequate supply, OPEC Ministers met on seven separate occasions to discuss and co-ordinate OPEC's response to a string of events that threatened to undermine the supply balance in 2003.

In fact, the year began with the petroleum market disrupted by the oil workers' strike in Venezuela, which began early December 2002 and extended into late January. The strike effectively removed some two million barrels per day of crude from the market, raising the risk of a supply shortfall, especially at a time when US commercial stocks had declined dramatically, while the Northern Hemisphere was experiencing a colder-than-normal winter. In response, the OPEC Conference decided at its 123rd Meeting on January 12 to raise its production ceiling from 23m b/d to 24.5m b/d with effect from February 1, with the aim of ensuring adequate supplies of crude to consumers and helping to restore the market balance (see 'OPEC crude oil production ceiling allocations' on page xii).

Despite this move and the end of the oil workers' strike at the end of January, prices remained high into March, mostly driven by prevailing geopolitical tensions, particularly with regard to Iraq. In an attempt to relieve some of these uncertainties, the OPEC Conference, at its regular Meeting on March 11, expressed the Organization's determination to ensure that the market remained stable and well-supplied. This message appeared to ease market pressure, as prices began to decline with the OPEC Reference Basket falling into OPEC's preferred price range of \$22–28/b for the first time in the year.

These lingering tensions came to a head nine days later on March 20 when the hostilities in Iraq broke out. Immediately following the start of the conflict, the OPEC Conference President issued a statement reiterating the Organization's resolve to make up for any supply

shortfall resulting from the developing events. To achieve this end, OPEC Member Countries pledged to use their available excess production capacities to ensure continued supply. As a result, rather than seeing an expected price spike due to the disruption of roughly 2m b/d of Iraqi exports, prices actually continued to decline, eventually reaching a year-low of \$23.27/b on April 29. This downward move was all the more surprising, given the fact that at the same time social unrest in Nigeria removed an additional 800,000 b/d of crude from the market.

OPEC Members met again to review the oil market situation at a Consultative Meeting on April 24. In the light of this review, the Conference decided to increase the production ceiling by 900,000 b/d to 25.4m b/d, effective June 1. At the time, actual production had been running above the agreed quota levels, as OPEC Members maintained high production levels to make up for the loss of Iraqi exports. In this context, the decision was seen by some in the market as an attempt to reign in excess production, a move deemed necessary to prevent oversupply, given the projected downturn in demand expected for the remainder of the year. However, with Iraqi supplies remaining at low levels and demand rising due to fuel switching in the USA and Japan, OPEC decided at its Meeting on June 11 in Doha to maintain output quotas at 25.4m b/d.

Only at its Meeting in September did the OPEC Conference finally decide that the market warranted a return to its earlier production ceiling of 24.5m b/d, effective November 1. In making this decision, the Conference noted that the supply/demand balance for the fourth quarter 2003 and first quarter 2004 indicated a contra-seasonal stock-build, given the expected rise in non-OPEC supplies and the ongoing recovery of Iraqi production. Although the move took some by surprise, the OPEC decision was a reasoned response to market fundamentals and a proactive effort to accommodate the expected return of Iraqi production. In their seventh meeting of the year on December 4, OPEC Ministers decided to maintain the 24.5m b/d production ceiling as its review of the market revealed that supply levels were adequate. However, the Conference expressed concern that the declining value of the US dollar vis-à-vis other major currencies had substantially eroded the purchasing power of the barrel. This accounted, to some extent, for prices ending the year at \$29.87/b, or about \$2 above the OPEC price band. However, despite a year of many challenges, the total yearly average for the OPEC Reference Basket in 2003 was \$28.10/b, just slightly over the OPEC price band range (see Table 71).

Additionally, the 2003 Annual Statistical Bulletin reveals that world oil production (which does not include NGLs, non-conventional oils or processing gains) in 2003 rose 3.2m b/d over the previous year to 67.1m b/d. At the same time, average OPEC production increased 2.6m b/d in 2003 to 26.9m b/d (see Table 39), which boosted OPEC's share of world production to 40 per cent. This rise helped push total revenue from petroleum exports up to \$255 billion in 2003 from \$208bn the year before (see Table 5). Despite the rise in output, the proven crude reserves of OPEC Member Countries continued to increase in 2003, moving up more than 9bn barrels to stand at 891bn b (see Table 10). As in the previous year, OPEC held a 78 per cent share of total world proven reserves of 1,138bn b. A comparison of output with reserves indicates that OPEC Member Countries would be able to produce at current levels for 90 years, compared with only 17 years for non-OPEC producers. In the meantime, OPEC's share of exports of crude and petroleum products rose in 2003 to over 23m b/d, which represents a 41 per cent share of total world trade at 57m b/d (see Table 30). OPEC Member Countries also saw proven natural gas reserves rise in 2003, up by roughly 1,000bn cubic metres to around 88,700bn cu m (see Table 12). This places OPEC's share of total proven natural gas reserves at 49 per cent, a slight increase from the year before.

As we have seen, the year 2003 presented many challenges to the oil market. The data within the 2003 Annual Statistical Bulletin provides both a detailed record of the responses that OPEC Member Countries took to meet these challenges, as well as an indication of their success.



Dr Maizar Rahman

# GENERAL NOTES

## Definitions

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

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

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

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

**Rig:** a derrick complete with engine-house and other equipment necessary for drilling 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; includes 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. As of this edition, processing gains are not deducted from consumption volumes.

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

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

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

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

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

## Country groupings

(OPEC Member Countries are shown in bold)

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

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

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

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

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

**Africa:** Algeria, Angola, Benin, Botswana, British Indian Ocean Territory, Burkina Faso, Burundi, Cameroon (United Republic of), Cape Verde, Central African Republic, Chad, Comoros, Congo (Republic of the), Congo (Democratic Republic of the), Djibouti, Egypt, Equatorial Guinea, Eritrea, Ethiopia, Gabon, Gambia (The), Ghana, Guinea, Guinea-Bissau, Côte d'Ivoire, Kenya, Lesotho, Liberia, **Socialist People's 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, Togo, Tunisia, Uganda, Western Sahara, Zambia, Zimbabwe.

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

## Economic organizations

**Organization of the Petroleum Exporting Countries (OPEC).** Members: Algeria (1969), Indonesia (1962), the Islamic Republic of Iran (1960), Iraq (1960), Kuwait (1960), the Socialist People's 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:

na	Not available
–	Nil or negligible
*	Provisional or estimated figures, as of May 27, 2004.

### Currencies:

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

### Miscellaneous:

b	barrel(s)	ft	feet
b/d	barrels per day	GDP	gross domestic product
b/cd	barrels per calendar day	LNG	liquefied natural gas
b/sd	barrels per stream day	LPG	liquefied petroleum gas
bn b	billion barrels	m b	million barrels
cif	cost, insurance and freight	NGLs	natural gas liquids
cu m	cubic metres	NOC	national oil company
dwt	deadweight tonnage	t	tonne
fob	free on board		

## 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	Societe Nationale des Petroles d'Aquitaine
Aramco	Saudi Arabian Oil Company (Saudi Aramco)
Arco	Atlantic Richfield Company
Asamera	Asamera Oil
Ashland	Ashland Oil
BP	BP plc
Braspetro	Petrobras Internacional SA
Brega Marketing	Brega Petroleum Marketing Company
Buttes	Buttes Gas & Oil Company
Calasiatic	Calasiatic Petroleum Company
PT Caltex	PT Caltex Pacific Indonesia
ChevronTexaco	ChevronTexaco Corporation
Conoco	Continental Oil Company
Corpoven	Corpoven SA
DPC	Dubai Petroleum Company
EGPC	Egyptian General Petroleum Corporation
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
KRPC	Kaduna Refinery & Petrochemical 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)
NPHR	New Port Harcourt Refinery
Oasis	Oasis Oil Company of Libya, Inc
Occidental	Occidental Petroleum Corporation
OMV	OMV Aktiengesellschaft
OPHR	Old Port Harcourt Refinery
PDVSA	Petroleos de Venezuela SA
Pertamina	Perusahaan Pertambangan Minyak Dan Gas Bumi Negara
Petromer Trend	Petromer Trend Corporation
Petromin	The General Petroleum and Mineral Organization of Saudi Arabia
Phillips	Phillips Petroleum Company
PPMC	Pipeline and Products Marketing Company (Nigeria)

QGPC	Qatar General Petroleum Corporation (now Qatar Petroleum)
Royal Dutch/Shell	Royal Dutch Petroleum Company, The Netherlands, and Shell Transport and Trading Co, UK
Sonatrach	Entreprise Nationale Sonatrach
Stancal	Standard Oil Company of California
PT Stanvac	PT Stanvac Indonesia
Tenneco	Tenneco Incorporated
Tesoro	Tesoro Indonesia Petroleum Corporation
Topco	Texas Overseas Petroleum Company
Total	Total
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
WRPC	Warri Refinery & Petrochemical Company
Zadco	Zakum Development Company
ZOC	Zueitina Oil Company (SP Libyan AJ)

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# 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)	1999	2000	2001	2002	2003
Algeria	7.9448	7.9448	7.9448	7.9448	7.9448
Indonesia	7.2338	7.2338	7.2338	7.2338	7.2338
IR Iran	7.2840	7.2840	7.2840	7.2840	7.2840
Iraq	7.4127	7.4127	7.4127	7.4127	7.4136
Kuwait	7.2580	7.2580	7.2580	7.2580	7.2580
SP Libyan AJ	7.5584	7.6806	7.6806	7.6806	7.5745
Nigeria	7.4114	7.4114	7.4114	7.4114	7.3995
Qatar	7.6180	7.6180	7.6180	7.6180	7.6162
Saudi Arabia	7.2845	7.2845	7.2845	7.2845	7.4029
United Arab Emirates	7.5532	7.5532	7.5532	7.5532	7.5876
Venezuela	7.1210	7.1270	7.1270	7.1270	6.8272
OPEC	7.3464	7.3532	7.3543	7.3543	7.3604

## Petroleum products (b/tonne)

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

	Apr 83– Oct 84 <sup>1</sup>	Nov 84– Oct 86 <sup>2</sup>	Nov 86 <sup>3</sup>	Dec 86 <sup>3</sup>	1H87 <sup>4</sup>	2H87 <sup>5</sup>	1988 <sup>6</sup>	1H89 <sup>7</sup>	Jul 89– Sep 89 <sup>8</sup>
Algeria	725	663	669	669	635	667	667	695	733
Indonesia	1,300	1,189	1,193	1,193	1,133	1,190	1,190	1,240	1,307
IR Iran	2,400	2,300	2,317	2,317	2,255	2,369	2,369	2,640	2,783
Iraq	1,200	1,200	–	–	1,466	1,540	–	2,640	2,783
Kuwait	1,050	900	921	999	948	996	996	1,037	1,093
SP Libyan AJ	1,100	990	999	999	948	996	996	1,037	1,093
Nigeria	1,300	1,300	1,304	1,304	1,238	1,301	1,301	1,355	1,428
Qatar	300	280	300	300	285	299	299	312	329
Saudi Arabia	5,000	4,353	4,353	4,353	4,133	4,343	4,343	4,524	4,769
United Arab Emirates	1,100	950	950	950	902	948	948	988	1,041
Venezuela	1,675	1,555	1,574	1,574	1,495	1,571	1,571	1,636	1,724
<b>OPEC</b>	<b>17,150</b>	<b>15,680</b>	<b>14,580</b>	<b>14,658</b>	<b>15,438</b>	<b>16,220</b>	<b>14,680</b>	<b>18,104</b>	<b>19,083</b>

	Oct 89– Dec 89 <sup>9</sup>	Jan 90– Jul 90 <sup>10</sup>	Aug 90– Mar 91 <sup>11</sup>	Apr 91– Sep 91 <sup>12</sup>	Oct 91– Jan 92 <sup>13</sup>	Feb 92– Sep 92 <sup>14</sup>	Oct 92– Dec 92 <sup>15</sup>	Jan 93– Feb 93 <sup>16</sup>	Mar 93– Sep 93 <sup>17</sup>
Algeria	771	827	827	827	**	760	**	764	732
Indonesia	1,374	1,374	1,374	1,443	**	1,374	**	1,374	1,317
IR Iran	2,926	3,140	3,140	3,217	**	3,184	**	3,490	3,340
Iraq	2,926	3,140	3,140	–	**	505	**	500	400
Kuwait	1,149	1,500	1,500	–	**	812	**	1,500	1,600
SP Libyan AJ	1,149	1,233	1,233	1,425	**	1,395	**	1,409	1,350
Nigeria	1,501	1,611	1,611	1,840	**	1,751	**	1,857	1,780
Qatar	346	371	371	399	**	377	**	380	364
Saudi Arabia	5,014	5,380	5,380	8,034	**	7,887	**	8,395	8,000
United Arab Emirates	1,094	1,095	1,500	2,320	**	2,244	**	2,260	2,161
Venezuela	1,812	1,945	1,945	2,235	**	2,147	**	2,360	2,257
<b>OPEC</b>	<b>20,062</b>	<b>21,616</b>	<b>22,021</b>	<b>21,740</b>	<b>23,650<sup>#</sup></b>	<b>22,436</b>	<b>24,200<sup>#</sup></b>	<b>24,289</b>	<b>23,301</b>

	Oct 93– Jun 96 <sup>18</sup>	Jul 96– Dec 97 <sup>19</sup>	Jan 98– Mar 98 <sup>20</sup>	Apr 98– Jun 98 <sup>21</sup>	Jul 98– Mar 99 <sup>22</sup>	Apr 99– Mar 00 <sup>23</sup>	Apr 00– Jun 00 <sup>24</sup>	Jul 00– Sep 00 <sup>25</sup>	1 Oct 00– 30 Oct 00 <sup>26</sup>
Algeria	750	750	909	50	788	731	788	811	837
Indonesia	1,330	1,330	1,456	70	1,280	1,187	1,280	1,317	1,359
IR Iran	3,600	3,600	3,942	140	3,318	3,359	–	3,727	3,844
Iraq	400	–	1,314	–	–	–	–	–	–
Kuwait	2,000	2,000	2,190	125	1,980	1,836	1,980	2,037	2,101
SP Libyan AJ	1,390	1,390	1,522	80	1,323	1,227	1,323	1,361	1,404
Nigeria	1,865	1,865	2,042	125	2,033	1,885	2,033	2,091	2,157
Qatar	378	378	414	30	640	593	640	658	679
Saudi Arabia	8,000	8,000	8,761	300	8,023	7,438	8,023	8,253	8,512
United Arab Emirates	2,161	2,161	2,366	125	2,157	2,000	2,157	2,219	2,289
Venezuela	2,359	2,359	2,583	200	2,845	2,720	2,845	2,926	3,019
<b>OPEC</b>	<b>24,233</b>	<b>25,033</b>	<b>27,500</b>						
OPEC excl Iraq				1,245	24,387	22,976		25,400	26,200
OPEC excl Iraq and IR Iran							21,069		

	31 Oct 00– Jan 01 <sup>27</sup>	Feb 01– Mar 01 <sup>28</sup>	Apr 01– Aug 01 <sup>29</sup>	Sep 01– Dec 01 <sup>30</sup>	Jan 02– Dec 02 <sup>31</sup>	Feb 03– May 03 <sup>32</sup>	Jun 03– Oct 03 <sup>34</sup>	Nov 03– Dec 03 <sup>35</sup>	
Algeria	853	805	773	741	693	735	782	811	782
Indonesia	1,385	1,307	1,255	1,203	1,125	1,192	1,270	1,317	1,270
IR Iran	3,917	3,698	3,552	3,406	3,186	3,377	3,597	3,729	3,597
Iraq	–	–	–	–	–	–	–	–	–
Kuwait	2,141	2,021	1,941	1,861	1,741	1,845	1,966	2,038	1,966
SP Libyan AJ	1,431	1,350	1,296	1,242	1,162	1,232	1,312	1,360	1,312
Nigeria	2,198	2,075	1,993	1,911	1,787	1,894	2,018	2,092	2,018
Qatar	692	653	627	601	562	596	635	658	635
Saudi Arabia	8,674	8,189	7,865	7,541	7,053	7,476	7,963	8,256	7,963
United Arab Emirates	2,333	2,201	2,113	2,025	1,894	2,007	2,138	2,217	2,138
Venezuela	3,077	2,902	2,786	2,670	2,497	2,647	2,819	2,923	2,819
<b>OPEC excl Iraq</b>	<b>26,700</b>	<b>25,201</b>	<b>24,201</b>	<b>23,201</b>	<b>21,700</b>	<b>23,001</b>	<b>24,500</b>	<b>25,400</b>	<b>24,500</b>

#### Notes:

- \*\* No country distribution decided.
- No production level allocated for this specific Member Country.
- # Including Ecuador and Gabon.

#### Ceiling as agreed at the:

1. 67th (Extraordinary) Meeting of the OPEC Conference, March 14, 1983. No allocation for Saudi Arabia which will act as the swing producer. Venezuela: 1.7m b/d including condensates. Nigeria: At the 70th Meeting of the OPEC Conference, July 10–11, 1984, a temporary production rise to 1.4m b/d and 1.45m b/d was decided for August 1984, and September 1984, respectively.
2. November 1984–August 1986: 71st (Extraordinary) Meeting of the OPEC Conference, October 29–31, 1984. September 1986–October 1986: 78th Meeting of the OPEC Conference, July 28–August 5, 1986.
3. 79th (Extraordinary) Meeting of the OPEC Conference, October 6–22, 1986, with the exception of Iraq.
4. 80th Meeting of the OPEC Conference, December 11–20, 1986.
5. 81st Meeting of the OPEC Conference, June 25–27, 1987.
6. 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.
7. 84th Meeting of the OPEC Conference, November 21–28, 1988.
8. 85th Meeting of the OPEC Conference, June 5–7, 1989.
9. 3rd Meeting of the Eight-Minister Monitoring Committee, September 23–27, 1989.
10. 86th Meeting of the OPEC Conference, November 25–28, 1989.
11. 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.
12. 2Q91: 3rd Meeting of the Ministerial Monitoring Committee, March 11–12, 1991. Reservations were made by Algeria and IR Iran to the total OPEC production level. 3Q91: 89th Meeting of the OPEC Conference, June 4, 1991.
13. 4Q91: 4th Meeting of the Ministerial Monitoring Committee, September 24–25, 1991. January 1992: 90th Meeting of the OPEC Conference, November 26–27, 1991.
14. February 1992–June 1992: 6th Meeting of the Ministerial Monitoring Committee, February 12–15, 1992. Reservations were made by IR Iran to the total OPEC ceiling and by Saudi Arabia to their allocated production level. 3Q92: 91st Meeting of the OPEC Conference, May 21–22, 1992. Reservations were made by IR Iran to the total OPEC ceiling and by Saudi Arabia to their allocated production level. The Conference also decided to allow for any additional production from Kuwait.
15. 9th Meeting of the Ministerial Monitoring Committee, September 16–17, 1992.
16. 92nd Meeting of the OPEC Conference, November 25–27, 1992, with full support of Member Countries, except Iraq and the allowance of additional volumes to Kuwait as they become available during the 1Q93.
17. March 1993–June 1993: 10th Meeting of the Ministerial Monitoring Committee, February 13–16, 1993, with full support of Member Countries, except Iraq. 3Q93: 93rd Meeting of the OPEC Conference, June 8–10, 1993, with full support of Member Countries, except Iraq and Kuwait.
18. October 1993–March 1994: 94th (Extraordinary) Meeting of the OPEC Conference, September 25–29, 1993, with full support of Member Countries, except Iraq. April 1994–December 1994: 12th Meeting of the Ministerial Monitoring Committee, March 25–26, 1994, with full support of Member Countries, except Iraq. January 1995–December 1995: 97th Meeting of the OPEC Conference, November 21–22, 1994. 1H96: 99th Meeting of the OPEC Conference, November 21–22, 1995.
19. 2H96: 100th Meeting of the OPEC Conference, June 5–7, 1996. The remaining volume of 1.2m b/d is to be supplied by Iraq. 1H97: 101st Meeting of the OPEC Conference, November 27–28, 1996. The remaining volume of 1.2m b/d is to be supplied by Iraq. 2H97: 102nd Meeting of the OPEC Conference, June 25–26, 1997. The remaining volume of 1.2m b/d is to be supplied by Iraq.
20. 103rd Meeting of the OPEC Conference, November 26–December 1, 1997. The remaining volume of 1,314,080 b/d is to be supplied by Iraq.
21. 104th (Extraordinary) Meeting of the OPEC Conference, March 30, 1998. Data reflect temporary production cuts till end 1998. Base: February 1998, OPEC excl Iraq production (26.987m b/d) from selected secondary sources. Iraq is not called upon to participate in this agreement.
22. 105th Meeting of the OPEC Conference, June 24, 1998. Iraq is not called upon to participate in this agreement.
23. 107th Meeting of the OPEC Conference, March 23, 1999. Iraq is not called upon to participate in this agreement.
24. 109th Meeting of the OPEC Conference, March 27–29, 2000. Agreement of nine Member Countries.
25. 110th (Extraordinary) Meeting of the OPEC Conference, June 21, 2000. Iraq is not called upon to participate in this agreement.
26. 111th Meeting of the OPEC Conference, September 10–11, 2000. Iraq is not called upon to participate in this agreement.
27. 111th Meeting of the OPEC Conference, September 10–11, 2000; including additional 500,000 b/d (price band mechanism) as announced by the OPEC President on October 30, 2000 and effective from October 31, 2000. Iraq is not called upon to participate in this agreement.
28. 113th (Extraordinary) Meeting of the OPEC Conference, January 17, 2001. Iraq is not called upon to participate in this agreement.
29. 114th Meeting of the OPEC Conference, March 17, 2001. Iraq is not called upon to participate in this agreement.
30. OPEC Conference, July 25, 2001. Iraq is not called upon to participate in this agreement.
31. 1Q02: Announced during the 118th (Extraordinary) Meeting of the OPEC Conference, November 14, 2001 and confirmed its implementation during the Consultative Meeting of the OPEC Conference in Cairo, December 28, 2001. 2Q02, 3Q02 and 4Q02: Reconfirmed at the 119th, 120th and 121st Meetings of the OPEC Conference March 15, June 26, and September 19, 2002, respectively. Iraq is not called upon to participate in the agreements.
32. 122th (Extraordinary) Meeting of the OPEC Conference, December 12, 2002. Iraq is not called upon to participate in this agreement.
33. 123rd (Extraordinary) Meeting of the OPEC Conference, January 12, 2003. Retained at the 124th Meeting of the OPEC Conference, March 11, 2003. Iraq is not called upon to participate in this agreement.
34. Consultative Meeting of the OPEC Conference, April 24, 2003. Retained at the 125th (Extraordinary) and 126th (Extraordinary) Meetings of the OPEC Conference, June 11, and July 31, 2003, respectively. Iraq is not called upon to participate in this agreement.
35. 127th Meeting of the OPEC Conference, September 24, 2003. Retained at the 128th (Extraordinary) and 129th (Extraordinary) Meetings of the OPEC Conference, December 4, 2003, and February 10, 2004, respectively. Iraq is not called upon to participate in this agreement.





Table 1

**OPEC Members' mid-year population, 1983–2003** (1,000 inhabitants)

	1983	1984	1985	1986	1987	1988	1989
Algeria	20,480	21,510	22,190	22,810	23,450	24,100	24,700
Indonesia	157,160	160,080	163,040	166,020	168,990	171,990	175,060
IR Iran	44,440	46,200	47,810	49,450	50,660	51,910	53,190
Iraq	14,590	15,080	15,590	16,110	16,660	16,450	16,880
Kuwait	1,570	1,640	1,720	1,800	1,880	1,970	2,050
SP Libyan AJ	3,490	3,640	3,790	3,930	4,060	4,170	4,250
Nigeria	70,000	71,970	74,040	76,250	78,560	80,970	83,460
Qatar	300	330	360	390	420	440	470
Saudi Arabia	11,460	12,170	12,800	13,410	14,000	14,550	15,120
United Arab Emirates	1,290	1,340	1,380	1,430	1,500	1,590	1,710
Venezuela	16,310	16,720	17,140	17,580	18,050	18,530	19,020
<b>OPEC</b>	<b>341,090</b>	<b>350,680</b>	<b>359,860</b>	<b>369,180</b>	<b>378,230</b>	<b>386,670</b>	<b>395,910</b>

	1990	1991	1992	1993	1994	1995	1996
Algeria	25,320	25,940	26,580	27,300	27,800	28,060	28,570
Indonesia	178,230	181,320	184,320	187,230	190,040	192,750	195,460
IR Iran	54,500	55,840	56,660	57,490	58,330	59,190	60,060
Iraq	17,340	17,860	18,420	19,010	19,610	20,210	20,800
Kuwait	2,140	1,360	1,420	1,460	1,620	1,800	1,890
SP Libyan AJ	4,310	4,400	4,490	4,580	4,660	4,760	4,850
Nigeria	86,020	88,990	91,510	94,100	96,760	99,500	102,320
Qatar	490	490	490	500	500	510	520
Saudi Arabia	15,710	16,180	16,950	17,330	17,720	18,120	18,540
United Arab Emirates	1,840	2,010	2,080	2,230	2,290	2,340	2,460
Venezuela	19,500	19,980	20,460	20,940	21,410	21,890	22,370
<b>OPEC</b>	<b>405,400</b>	<b>414,370</b>	<b>423,380</b>	<b>432,170</b>	<b>440,740</b>	<b>449,130</b>	<b>457,840</b>

	1997	1998	1999	2000	2001	2002	2003
Algeria	29,050	29,510	30,170	30,610	31,040	31,360	31,840
Indonesia	198,160	200,870	203,570	206,260	208,440	211,060	216,950
IR Iran	60,990	61,840	62,820	63,860	64,910	65,970	67,050
Iraq	21,400	21,990	22,600	23,220	23,860	24,510	25,150
Kuwait	1,980	2,030	2,110	2,190	2,270	2,350	2,430
SP Libyan AJ	4,950	5,060	5,170	5,290	5,410	5,530	5,660
Nigeria	105,210	108,190	111,250	114,400	117,640	120,970	124,390
Qatar	530	550	570	590	600	610	620
Saudi Arabia	18,960	19,400	19,890	20,850	21,440	22,040	22,670
United Arab Emirates	2,580	2,720	2,820	2,910	2,980	3,050	3,120
Venezuela	22,850	23,320	23,800	24,280	24,750	25,230	25,710
<b>OPEC</b>	<b>466,660</b>	<b>475,480</b>	<b>484,770</b>	<b>494,460</b>	<b>503,340</b>	<b>512,680</b>	<b>525,590</b>

Note: Revisions have been made throughout the time series.

## 2 Table

## Area, density and GDP per capita in OPEC Members, 2003

	Area <sup>1</sup> (1,000 sq km)	Density (inhabitants/sq km)	GDP per capita (\$)
Algeria	2,382	13	1,766
Indonesia	1,904	114	960
IR Iran	1,648	41	2,010
Iraq	438	57	789
Kuwait	18	135	17,942
SP Libyan AJ	1,760	3	4,064
Nigeria	924	135	448
Qatar	11	56	32,945
Saudi Arabia	2,150	11	9,327
United Arab Emirates	84	37	24,244
Venezuela <sup>2</sup>	916	28	3,463
<b>OPEC</b>	<b>12,235</b>	<b>43<sup>3</sup></b>	<b>1,785<sup>3</sup></b>

## Notes:

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

**OPEC Members' GDP at current market prices, 1983–2003 (m \$)**

	1983	1984	1985	1986	1987	1988	1989
Algeria	48,902	52,983	58,087	63,231	64,609	56,736	54,930
Indonesia	87,093	87,638	88,565	88,668	78,207	88,591	101,479
IR Iran	149,726	124,874	166,584	198,248	133,076	122,232	119,597
Iraq	37,495	42,531	44,204	39,992	43,702	43,411	48,422
Kuwait	20,870	21,707	21,446	17,905	22,368	20,690	24,314
SP Libyan AJ	30,170	28,251	27,787	22,636	21,068	23,778	25,167
Nigeria	35,990	34,800	34,820	22,960	22,501	25,379	25,709
Qatar	6,485	6,870	6,153	5,053	5,446	6,038	6,488
Saudi Arabia	128,860	119,293	103,869	85,872	85,582	88,138	95,217
United Arab Emirates	28,030	27,704	27,023	21,574	23,699	23,672	27,268
Venezuela	67,598	60,170	59,869	60,910	46,860	60,380	38,810
<b>OPEC</b>	<b>641,219</b>	<b>606,820</b>	<b>638,408</b>	<b>627,049</b>	<b>547,118</b>	<b>559,044</b>	<b>567,400</b>

	1990	1991	1992	1993	1994	1995	1996
Algeria	62,031	45,723	47,853	49,713	41,978	40,723	45,534
Indonesia	114,289	128,234	139,221	157,963	176,968	202,259	226,874
IR Iran	117,481	119,124	107,335	73,766	105,878	104,763	107,455
Iraq	48,657	7,732	8,564	9,379	9,648	9,999	10,549
Kuwait	18,399	11,011	20,136	24,197	24,995	26,910	31,070
SP Libyan AJ	28,944	32,016	33,926	30,698	29,142	25,557	27,886
Nigeria	32,019	29,715	28,061	21,010	23,389	27,742	34,845
Qatar	7,360	6,884	7,646	7,157	7,374	8,138	9,059
Saudi Arabia	116,622	131,161	136,122	131,975	134,148	147,601	157,533
United Arab Emirates	33,653	33,920	35,413	35,519	36,220	37,080	44,606
Venezuela	48,450	53,320	60,260	59,690	58,170	77,580	70,700
<b>OPEC</b>	<b>627,906</b>	<b>598,839</b>	<b>624,536</b>	<b>601,067</b>	<b>647,910</b>	<b>708,351</b>	<b>766,111</b>

	1997	1998	1999	2000	2001	2002	2003
Algeria	47,792	47,387	48,258	53,435	54,643	55,907	56,221
Indonesia	215,749	95,445	140,765	151,790	142,041	173,881	208,288
IR Iran	100,877	117,861	111,011	99,642	118,704	114,189	134,738
Iraq	16,244	19,262	25,439	33,584	29,319	26,843	19,854
Kuwait	29,866	25,123	29,184	37,023	34,223	35,333	43,598
SP Libyan AJ	30,705	27,260	30,488	34,613	28,599	19,359	23,001
Nigeria	35,386	32,978	37,331	47,611	47,683	46,090	55,769
Qatar	11,298	10,255	12,393	17,760	17,741	19,707	20,426
Saudi Arabia	164,774	145,773	160,957	188,442	183,021	188,227	211,440
United Arab Emirates	49,352	46,481	55,193	70,370	69,390	71,060	75,640
Venezuela	88,890	95,800	102,650	121,250	126,150	95,460	89,030
<b>OPEC</b>	<b>790,934</b>	<b>663,625</b>	<b>753,670</b>	<b>855,520</b>	<b>851,515</b>	<b>846,056</b>	<b>938,005</b>

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

## 4 Table

## OPEC Members' values of exports, 1983–2003 (m \$)

	1983	1984	1985	1986	1987	1988	1989
Algeria	12,703	12,803	12,861	8,255	9,470	8,429	10,222
Indonesia	21,146	21,888	18,587	14,805	17,136	19,219	22,160
IR Iran	21,507	17,087	14,175	7,171	11,916	10,709	13,081
Iraq	8,161	9,317	10,409	7,465	9,705	9,609	12,284
Kuwait	11,574	12,280	10,597	7,251	8,264	7,758	11,476
SP Libyan AJ	12,341	11,148	12,314	7,711	7,986	6,673	8,034
Nigeria	10,363	11,849	13,111	5,083	7,560	6,875	7,871
Qatar	3,357	4,513	3,419	1,849	1,985	2,210	2,687
Saudi Arabia	45,861	37,545	27,476	20,183	23,198	24,376	28,369
United Arab Emirates	15,391	15,990	14,764	10,129	12,765	12,250	17,596
Venezuela	13,937	15,997	14,438	8,660	10,577	10,244	13,286
<b>OPEC</b>	<b>176,341</b>	<b>170,417</b>	<b>152,151</b>	<b>98,561</b>	<b>120,561</b>	<b>118,352</b>	<b>147,066</b>

	1990	1991	1992	1993	1994	1995	1996
Algeria	14,707	13,313	12,147	10,864	9,946	11,178	14,066
Indonesia	25,675	29,142	33,967	36,823	40,053	45,418	49,814
IR Iran	19,305	18,661	19,868	18,080	19,434	18,360	22,391
Iraq	10,314	377	518	457	453	496	731
Kuwait	7,042	1,088	6,572	10,246	11,260	12,785	14,889
SP Libyan AJ	13,225	11,234	10,793	8,544	7,865	8,510	10,155
Nigeria	13,671	12,264	11,886	11,590	11,319	12,248	16,142
Qatar	3,529	3,047	3,736	3,181	3,146	3,481	3,752
Saudi Arabia	44,416	47,697	50,287	42,395	42,614	50,041	60,728
United Arab Emirates	23,544	24,436	24,756	23,640	27,390	29,176	33,613
Venezuela	17,497	15,155	14,185	14,686	16,089	18,457	23,060
<b>OPEC</b>	<b>192,924</b>	<b>176,414</b>	<b>188,715</b>	<b>180,506</b>	<b>189,569</b>	<b>210,150</b>	<b>249,341</b>

	1997	1998	1999	2000	2001	2002	2003
Algeria	14,657	11,090	12,522	21,650	19,132	18,820	24,105
Indonesia	53,444	48,847	48,666	62,124	56,447	58,120	62,631
IR Iran	18,381	13,118	21,030	28,345	23,904	28,186	33,899
Iraq	4,602	5,500	12,750	20,603	15,905	13,157	7,587
Kuwait	14,224	9,554	12,164	19,436	16,203	15,369	20,287
SP Libyan AJ	9,576	6,032	7,961	12,689	11,376	11,604	14,344
Nigeria	16,525	11,346	13,227	21,174	17,688	18,573	24,047
Qatar	3,791	4,880	7,061	11,424	10,156	10,771	12,613
Saudi Arabia	60,732	38,822	50,690	77,481	67,973	72,464	92,029
United Arab Emirates	34,014	31,059	36,495	49,878	48,773	49,596	56,833
Venezuela	21,624	17,193	20,190	31,802	27,409	24,482	25,800
<b>OPEC</b>	<b>251,570</b>	<b>197,441</b>	<b>242,756</b>	<b>356,606</b>	<b>314,966</b>	<b>321,142</b>	<b>374,175</b>

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



## OPEC Members' values of petroleum exports, 1983–2003 (m \$)

	1983	1984	1985	1986	1987	1988	1989
Algeria	9,655	9,778	9,668	5,161	6,555	5,725	6,815
Indonesia	13,558	12,477	9,083	5,501	6,157	5,042	6,062
IR Iran	20,273	15,713	13,012	5,900	9,400	8,419	11,315
Iraq	7,816	8,863	10,097	6,905	9,416	9,312	11,876
Kuwait	10,069	10,996	9,451	6,378	7,523	6,840	10,432
SP Libyan AJ	12,341	10,970	12,132	7,568	6,293	6,070	6,573
Nigeria	9,941	11,534	12,568	4,770	7,024	6,267	7,470
Qatar	2,993	4,386	3,068	1,720	1,829	1,709	1,955
Saudi Arabia	44,829	36,282	25,930	18,060	20,427	20,205	24,095
United Arab Emirates	13,016	12,037	10,896	6,865	7,900	7,627	10,215
Venezuela	13,857	14,824	12,956	7,178	9,054	8,158	10,001
<b>OPEC</b>	<b>158,347</b>	<b>147,861</b>	<b>128,862</b>	<b>76,005</b>	<b>91,578</b>	<b>85,375</b>	<b>106,809</b>

	1990	1991	1992	1993	1994	1995	1996
Algeria	9,588	8,464	7,885	6,902	6,335	6,938	8,826
Indonesia	7,404	6,714	6,619	5,693	6,005	6,443	7,879
IR Iran	16,831	15,276	15,184	12,773	13,576	14,973	19,441
Iraq	9,594	351	482	425	421	461	680
Kuwait	6,385	874	6,221	9,711	10,459	12,054	14,132
SP Libyan AJ	10,715	10,211	9,326	7,689	7,170	7,763	9,543
Nigeria	13,265	11,792	11,642	10,859	11,040	11,512	14,888
Qatar	3,273	2,828	2,870	2,811	2,623	2,987	3,489
Saudi Arabia	40,129	43,607	46,527	38,621	38,138	43,547	54,272
United Arab Emirates	14,846	14,356	14,251	12,118	11,683	12,822	14,980
Venezuela	13,953	12,302	11,336	10,859	12,292	13,987	19,659
<b>OPEC</b>	<b>145,982</b>	<b>126,775</b>	<b>132,343</b>	<b>118,460</b>	<b>119,741</b>	<b>133,486</b>	<b>167,790</b>

	1997	1998	1999	2000	2001	2002*	2003*
Algeria	8,352	5,691	8,314	14,204	11,736	12,370	16,476
Indonesia	7,243	4,600	6,580	10,935	8,944	8,583	9,685
IR Iran	15,553	10,048	16,098	25,443	21,420	19,219	26,124
Iraq	4,280	5,111	12,104	19,771	15,685	12,593	7,519
Kuwait	13,468	8,472	11,026	18,185	14,980	14,060	18,780
SP Libyan AJ	8,905	5,612	7,734	12,230	10,875	10,482	13,567
Nigeria	14,391	8,754	12,453	20,040	17,188	17,083	22,184
Qatar	3,744	3,357	4,775	7,834	6,964	6,885	8,814
Saudi Arabia	53,343	32,569	44,880	70,866	59,788	63,814	84,908
United Arab Emirates	15,269	11,131	15,021	26,148	22,414	21,768	25,153
Venezuela	18,140	12,007	16,465	26,755	20,300	20,940	21,838
<b>OPEC</b>	<b>162,687</b>	<b>107,351</b>	<b>155,449</b>	<b>252,411</b>	<b>210,294</b>	<b>207,796</b>	<b>255,047</b>

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

## 6 Table

## OPEC Members' values of imports, 1983–2003 (m \$)

	1983	1984	1985	1986	1987	1988	1989
Algeria	10,415	10,293	9,859	10,832	8,241	13,421	15,909
Indonesia	16,352	13,882	10,259	10,718	12,370	13,248	16,360
IR Iran	18,027	14,729	12,006	10,585	12,005	10,608	13,448
Iraq	12,166	11,078	10,556	10,190	7,415	10,268	9,899
Kuwait	7,375	6,896	6,005	5,717	5,495	6,145	6,301
SP Libyan AJ	6,029	6,222	4,101	4,173	4,303	5,868	4,923
Nigeria	12,307	9,393	8,890	4,274	4,465	5,533	4,187
Qatar	1,456	1,162	1,139	1,099	1,134	1,267	1,326
Saudi Arabia	39,196	33,696	23,620	19,111	20,110	21,784	21,153
United Arab Emirates	7,843	6,571	6,537	6,806	7,080	8,522	10,010
Venezuela	6,419	7,774	8,106	8,504	9,659	12,726	7,803
<b>OPEC</b>	<b>137,586</b>	<b>121,696</b>	<b>101,078</b>	<b>92,007</b>	<b>92,276</b>	<b>109,390</b>	<b>111,318</b>

	1990	1991	1992	1993	1994	1995	1996
Algeria	15,469	10,790	11,461	11,549	11,916	12,688	11,135
Indonesia	21,837	25,869	27,280	28,328	31,983	40,629	42,929
IR Iran	18,330	25,190	23,274	19,287	12,617	12,774	14,989
Iraq	6,526	423	603	533	499	665	1,748
Kuwait	3,972	4,761	7,257	7,038	6,697	7,790	8,373
SP Libyan AJ	5,336	5,363	5,051	5,551	4,323	5,147	5,587
Nigeria	5,627	8,986	8,275	5,537	6,613	8,222	6,438
Qatar	1,695	1,720	2,015	1,891	1,927	3,398	2,868
Saudi Arabia	24,107	29,088	33,273	28,202	23,351	28,088	27,764
United Arab Emirates	11,199	13,746	17,410	19,520	21,024	20,984	22,638
Venezuela	7,335	11,147	14,066	12,511	9,187	12,650	9,880
<b>OPEC</b>	<b>121,431</b>	<b>137,082</b>	<b>149,965</b>	<b>139,947</b>	<b>130,137</b>	<b>153,034</b>	<b>154,350</b>

	1997	1998	1999	2000	2001	2002	2003
Algeria	10,517	10,517	9,164	9,201	9,940	11,422	12,916
Indonesia	41,680	27,337	24,003	33,515	31,010	31,285	42,078
IR Iran	14,123	14,286	13,433	15,207	18,194	21,180	27,392
Iraq	3,343	4,789	8,263	13,384	13,200	9,477	7,871
Kuwait	8,246	8,619	7,617	7,157	7,869	9,001	10,893
SP Libyan AJ	5,533	5,600	4,235	4,081	4,438	5,462	6,292
Nigeria	9,501	9,211	8,588	8,721	11,586	12,442	14,873
Qatar	3,322	3,409	2,499	3,252	3,758	4,052	5,973
Saudi Arabia	28,743	30,013	27,994	30,197	31,182	32,290	33,928
United Arab Emirates	29,952	24,728	33,231	35,009	37,293	39,137	41,110
Venezuela	14,607	15,818	14,064	16,213	18,022	11,840	9,298
<b>OPEC</b>	<b>169,566</b>	<b>154,326</b>	<b>153,090</b>	<b>175,937</b>	<b>186,492</b>	<b>187,589</b>	<b>212,624</b>

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

Estimated OPEC Members' current account balances, 1983–2003 (m \$)

	1983	1984	1985	1986	1987	1988	1989
Algeria	-85	74	1,015	-2,230	141	-2,040	-1,081
Indonesia	-6,338	-1,856	-1,923	-3,911	-2,098	-1,397	-1,108
IR Iran	358	-414	-476	-5,155	-2,090	-1,869	-191
Iraq	-2,051	-730	-488	-942	2,400	1,974	3,037
Kuwait	5,311	6,428	4,798	5,616	4,561	4,602	9,136
SP Libyan AJ	-1,643	-1,457	1,906	-155	-1,036	-1,826	-1,026
Nigeria	-4,332	123	2,604	-2,142	-74	-1,134	1,255
Qatar	410	830	549	-189	-132	-261	-4
Saudi Arabia	-16,850	-18,401	-12,935	-11,795	-9,775	-7,341	-9,552
United Arab Emirates	5,257	7,463	6,946	2,370	4,086	2,533	4,549
Venezuela	4,427	4,651	3,327	-2,245	-1,390	-5,809	2,161
<b>OPEC</b>	<b>-15,537</b>	<b>-3,289</b>	<b>5,323</b>	<b>-20,778</b>	<b>-5,406</b>	<b>-12,568</b>	<b>7,176</b>

	1990	1991	1992	1993	1994	1995	1996
Algeria	1,420	2,367	1,020	362	-1,820	-2,305	1,190
Indonesia	-2,988	-4,260	-2,780	-2,106	-2,792	-6,431	-7,663
IR Iran	327	-9,448	-6,504	-4,215	4,950	3,358	5,232
Iraq	2,654	-860	-500	-250	-229	-402	-523
Kuwait	3,886	-26,479	-450	2,499	3,226	5,016	7,107
SP Libyan AJ	2,201	-219	1,407	-1,366	26	1,650	1,220
Nigeria	2,474	1,449	-482	-884	-2,390	-2,645	3,439
Qatar	306	-100	-9	-659	-502	-2,160	-1,246
Saudi Arabia	-4,153	-27,637	-17,739	-17,269	-10,487	-5,326	680
United Arab Emirates	5,230	1,634	3,043	2,066	846	2,178	4,344
Venezuela	8,279	1,736	-3,749	-1,993	2,541	2,014	8,914
<b>OPEC</b>	<b>19,637</b>	<b>-61,817</b>	<b>-26,743</b>	<b>-23,815</b>	<b>-6,630</b>	<b>-5,052</b>	<b>22,694</b>

	1997	1998	1999	2000	2001	2002	2003
Algeria	3,210	-920	300	9,143	7,025	4,583	7,030
Indonesia	-4,889	4,096	5,785	7,985	6,899	7,823	7,336
IR Iran	2,213	-2,139	6,589	12,645	5,985	3,731	3,935
Iraq	819	1,168	2,018	3,269	1,031	2,282	1,136
Kuwait	7,935	2,215	5,010	14,672	8,324	4,192	8,652
SP Libyan AJ	1,550	-351	2,136	9,257	5,516	3,109	6,641
Nigeria	502	-4,315	502	7,015	2,171	1,933	1,439
Qatar	-1,679	-455	2,171	4,576	4,152	3,129	4,176
Saudi Arabia	306	-13,148	411	14,317	9,353	11,873	22,271
United Arab Emirates	5,174	894	898	12,158	6,543	3,534	6,856
Venezuela	3,732	-4,432	1,837	12,106	2,062	7,423	9,624
<b>OPEC</b>	<b>18,872</b>	<b>-17,387</b>	<b>27,656</b>	<b>107,143</b>	<b>59,061</b>	<b>53,612</b>	<b>79,096</b>

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

## 8 Table

Annual average exchange rates for OPEC Members, 1983–2003 (units of national currency/\$)

	1983	1984	1985	1986	1987	1988	1989
Algeria	4.789	4.983	5.028	4.702	4.850	5.915	7.609
Indonesia	909.265	1,025.940	1,110.580	1,282.560	1,643.850	1,685.700	1,770.060
IR Iran <sup>1</sup>	86.358	90.030	91.052	78.760	144.910	177.970	226.000
Iraq <sup>2</sup>	0.311	0.311	0.311	0.311	0.311	0.311	0.311
Kuwait	0.291	0.296	0.301	0.291	0.279	0.279	0.294
SP Libyan AJ	0.296	0.296	0.296	0.315	0.297	0.286	0.300
Nigeria <sup>3</sup>	0.724	0.767	0.894	1.755	4.016	4.537	7.365
Qatar	3.640	3.640	3.640	3.640	3.640	3.640	3.640
Saudi Arabia	3.455	3.524	3.622	3.703	3.745	3.745	3.745
United Arab Emirates	3.671	3.671	3.671	3.671	3.671	3.671	3.671
Venezuela	4.297	7.017	7.500	8.083	14.500	14.500	34.682

	1990	1991	1992	1993	1994	1995	1996
Algeria	8.958	18.473	21.836	23.345	35.059	47.663	54.749
Indonesia	1,842.810	1,950.320	2,029.920	2,087.100	2,160.750	2,248.610	2,342.300
IR Iran <sup>1</sup>	304.347	408.587	600.000	1,267.770	1,748.750	1,747.930	1,750.760
Iraq <sup>2</sup>	0.311	0.311	0.311	0.311	0.311	0.311	0.311
Kuwait	0.288	0.284	0.293	0.302	0.297	0.298	0.299
SP Libyan AJ	0.283	0.281	0.282	0.304	0.348	0.418	0.437
Nigeria <sup>3</sup>	8.038	9.909	17.298	22.065	21.996	21.895	21.884
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	46.901	56.816	68.376	90.826	148.503	176.842	417.332

	1997	1998	1999	2000	2001	2002	2003
Algeria	57.707	58.739	66.574	75.260	77.215	79.682	77.395
Indonesia	2,909.380	10,013.600	7,855.150	8,421.770	10,260.800	9,311.190	8,577.130
IR Iran <sup>1</sup>	1,752.920	1,751.860	1,752.930	1,764.430	1,753.560	6,906.960	8,193.890
Iraq <sup>2</sup>	0.311	0.311	0.311	0.311	0.311	0.311	na
Kuwait	0.303	0.305	0.304	0.307	0.307	0.304	0.298
SP Libyan AJ	0.461	0.468	0.464	0.512	0.605	1.271	1.293
Nigeria <sup>3</sup>	21.886	21.886	92.338	101.697	111.231	120.578	129.222
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	3.673	3.673	3.673	3.673	3.673	3.673
Venezuela	488.635	547.556	605.717	679.960	723.666	1,160.950	1,606.960

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

1. From 1987–92, the rates apply to a trade-weighted average of floating, competitive and basic official exchange rates, as given by the World Bank. In May 1995, a rate of IR 3,000/\$ was introduced applicable to exports. In March 2002, a unified exchange rate replaced the dual foreign exchange rate system.
2. The parallel market rate was ID 1,100/\$ in 1995; ID 2,500/\$ in 1996; ID 2,300/\$ in 1997; ID 2,200/\$ in 1998; ID 2,100/\$ in 1999; ID 2,000/\$ in 2000, ID 1,900/\$ in 2001, ID 2,000/\$ in 2002; and ID 2,100/\$ in 2003.
3. The autonomous market rate was N 82.3/\$ in 1995; N 81/\$ in 1996; N 83.5/\$ in 1997; and N 85.25/\$ in 1998. In January 1999, the dual exchange rate system was abolished.



**OPEC proven crude oil reserves, 1983–2003 (m b)**

	1983	1984	1985	1986	1987	1988	1989
Algeria	9,220	9,000	8,820	8,800	8,564	9,200	9,236
Indonesia	10,080	9,611	9,180	9,000	9,000	9,000	5,114
IR Iran	55,257	58,874	59,000	92,860	92,860	92,860	92,860
Iraq	65,000	65,000	65,000	72,000	100,000	100,000	100,000
Kuwait	67,000	92,710	92,464	94,522	94,525	94,525	97,125
SP Libyan AJ	21,784	21,425	21,300	22,800	22,800	22,800	22,800
Nigeria	16,550	16,650	16,600	16,066	15,980	16,000	16,000
Qatar	3,330	4,500	4,500	4,500	4,500	4,500	4,500
Saudi Arabia	168,848	171,710	171,490	169,744	169,585	254,989	260,050
United Arab Emirates	32,340	32,490	32,990	97,203	98,105	98,105	98,105
Venezuela	25,887	28,028	54,454	55,521	58,101	58,505	59,040
<b>OPEC</b>	<b>475,295</b>	<b>509,998</b>	<b>535,798</b>	<b>643,016</b>	<b>674,020</b>	<b>760,484</b>	<b>764,830</b>

	1990	1991	1992	1993	1994	1995	1996
Algeria	9,200	9,200	9,200	9,200	9,979	9,979	10,800
Indonesia	5,415	5,909	5,598	5,167	4,980	4,980	4,980
IR Iran	92,850	92,860	92,860	92,860	94,300	93,700	92,600
Iraq	100,000	100,000	100,000	100,000	100,000	100,000	112,000
Kuwait	97,025	96,500	96,500	96,500	96,500	96,500	96,500
SP Libyan AJ	22,800	22,800	22,800	22,800	22,800	29,500	29,500
Nigeria	17,100	20,000	20,991	20,991	20,991	20,828	20,828
Qatar	2,993	2,993	3,121	3,121	3,500	3,700	3,700
Saudi Arabia	260,342	260,936	261,203	261,355	261,374	261,450	261,444
United Arab Emirates	98,100	98,100	98,100	98,100	98,100	98,100	97,800
Venezuela	60,054	62,649	63,330	64,448	64,877	66,329	72,667
<b>OPEC</b>	<b>765,879</b>	<b>771,947</b>	<b>773,702</b>	<b>774,541</b>	<b>777,400</b>	<b>785,066</b>	<b>802,819</b>

	1997	1998	1999	2000	2001	2002	2003
Algeria	11,200	11,314	11,314	11,314	11,314	11,314	11,800
Indonesia	4,867	5,100	5,201	5,123	5,095	4,722	4,722
IR Iran	92,600	93,700	93,100	99,530	99,080	130,690	133,250
Iraq	112,500	112,500	112,500	112,500	115,000	115,000	115,000
Kuwait	96,500	96,500	96,500	96,500	96,500	96,500	99,000
SP Libyan AJ	29,500	29,500	29,500	36,000	36,000	36,000	39,126
Nigeria	20,828	22,500	29,000	29,000	31,506	34,349	35,255
Qatar	3,700	3,700	3,700	13,157	15,207	15,207	15,207
Saudi Arabia	261,541	261,542	262,784	262,766	262,697	262,790	262,730
United Arab Emirates	97,800	97,800	97,800	97,800	97,800	97,800	97,800
Venezuela	74,931	76,108	76,848	76,848	77,685	77,307	77,226
<b>OPEC</b>	<b>805,967</b>	<b>810,264</b>	<b>818,247</b>	<b>840,538</b>	<b>847,884</b>	<b>881,679</b>	<b>891,116</b>

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

## 10 Table

## World proven crude oil reserves by region, 1983–2003 (m b)

	1983	1984	1985	1986	1987	1988	1989
North America	34,167.7	34,415.2	34,176.4	32,829.2	33,169.4	32,958.5	32,400.8
Latin America	90,794.8	92,921.7	118,578.9	119,157.8	121,951.0	121,568.6	121,069.7
Eastern Europe	65,255.0	64,662.0	64,233.0	62,135.0	60,369.5	59,787.6	59,591.8
Western Europe	21,984.8	22,578.8	22,066.6	19,822.1	17,187.8	17,845.5	16,892.1
Middle East	397,053.3	431,005.8	431,427.7	537,183.6	566,768.3	655,829.6	663,348.2
Africa	57,309.4	56,255.2	56,199.6	57,264.6	57,063.2	57,838.6	58,022.9
Asia and Pacific	38,721.9	39,467.0	39,532.0	42,849.4	42,616.3	42,989.0	48,837.6
<b>Total world</b>	<b>705,286.9</b>	<b>741,305.7</b>	<b>766,214.2</b>	<b>871,241.7</b>	<b>899,125.5</b>	<b>988,817.4</b>	<b>1,000,163.1</b>
OPEC	475,295.0	509,998.0	535,797.8	643,015.9	674,020.0	760,484.0	764,829.9
OPEC percentage	67.4	68.8	69.9	73.8	75.0	76.9	76.5

	1990	1991	1992	1993	1994	1995	1996
North America	31,839.1	29,973.6	28,838.1	27,992.5	27,355.5	27,244.6	26,856.2
Latin America	122,328.7	125,066.4	129,760.4	130,936.0	131,308.8	132,473.1	138,175.5
Eastern Europe	58,568.0	58,534.0	58,952.8	58,931.6	58,968.4	58,960.8	67,365.6
Western Europe	16,890.4	16,950.4	17,385.1	17,877.3	19,785.6	20,990.4	18,540.4
Middle East	662,018.9	662,460.8	663,307.0	663,485.0	665,765.6	665,273.4	675,996.4
Africa	58,648.7	59,987.5	60,842.1	60,841.1	63,511.1	70,877.1	73,451.6
Asia and Pacific	49,030.4	49,780.3	49,872.6	49,453.8	49,815.1	50,368.1	53,670.2
<b>Total world</b>	<b>999,324.2</b>	<b>1,002,753.0</b>	<b>1,008,958.1</b>	<b>1,009,517.3</b>	<b>1,016,510.1</b>	<b>1,026,187.5</b>	<b>1,054,055.9</b>
OPEC	765,879.0	771,947.0	773,702.3	774,541.4	777,400.2	785,065.7	802,818.7
OPEC percentage	76.6	77.0	76.7	76.7	76.5	76.5	76.2

	1997	1998	1999	2000	2001	2002	2003
North America	27,476.8	25,910.8	26,468.8	26,900.9	27,101.1	27,167.0	27,200.0
Latin America	140,091.3	122,163.6	123,790.6	119,669.6	123,999.4	116,627.4	116,437.5
Eastern Europe	67,373.9	74,708.4	77,686.7	80,586.7	80,217.4	86,190.5	88,290.5
Western Europe	18,751.4	18,348.3	18,843.1	18,032.6	18,128.3	18,267.5	18,385.9
Middle East	676,755.3	677,806.2	678,736.9	694,705.9	698,813.3	730,966.3	735,866.3
Africa	73,811.5	76,178.5	84,258.4	92,415.2	95,876.5	101,004.3	105,507.2
Asia and Pacific	53,951.7	55,128.3	53,558.8	52,132.5	47,043.9	45,885.0	45,862.3
<b>Total world</b>	<b>1,058,211.9</b>	<b>1,050,244.1</b>	<b>1,063,343.3</b>	<b>1,084,443.4</b>	<b>1,091,180.0</b>	<b>1,126,108.0</b>	<b>1,137,549.8</b>
OPEC	805,967.0	810,264.3	818,247.0	840,537.7	847,883.6	881,678.8	891,115.9
OPEC percentage	76.2	77.2	77.0	77.5	77.7	78.3	78.3

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

Table I

**OPEC proven natural gas reserves, 1983–2003** (billion standard cu m)

	1983	1984	1985	1986	1987	1988	1989
Algeria	3,531	3,442	3,349	3,259	3,163	3,234	3,250
Indonesia	1,189	1,699	1,982	2,265	2,367	2,561	2,553
IR Iran	14,045	14,016	13,986	13,955	13,922	14,200	17,000
Iraq	821	818	821	821	1,000	2,690	3,115
Kuwait	1,036	1,038	1,037	1,167	1,205	1,378	1,400
SP Libyan AJ	640	628	626	728	727	827	1,218
Nigeria	1,370	1,355	1,340	2,400	2,407	2,476	2,832
Qatar	3,400	4,280	4,440	4,440	4,440	4,621	4,620
Saudi Arabia	3,544	3,608	3,687	4,021	4,190	5,020	5,218
United Arab Emirates	3,049	3,108	3,148	5,414	5,684	5,663	5,650
Venezuela	1,562	1,666	1,735	2,622	2,838	2,856	2,993
<b>OPEC</b>	<b>34,188</b>	<b>35,658</b>	<b>36,151</b>	<b>41,092</b>	<b>41,943</b>	<b>45,526</b>	<b>49,849</b>

	1990	1991	1992	1993	1994	1995	1996
Algeria	3,300	3,626	3,650	3,700	2,963	3,690	3,700
Indonesia	2,864	1,840	1,820	1,820	1,820	1,950	2,050
IR Iran	17,003	19,800	20,700	20,700	20,764	19,350	23,000
Iraq	3,107	3,100	3,100	3,100	3,115	3,360	3,360
Kuwait	1,518	1,511	1,495	1,492	1,499	1,494	1,489
SP Libyan AJ	1,208	1,309	1,299	1,289	1,310	1,313	1,313
Nigeria	2,840	3,400	3,716	3,683	3,450	3,474	3,475
Qatar	4,615	6,428	6,713	7,070	7,070	8,500	8,500
Saudi Arabia	5,223	5,221	5,249	5,249	5,260	5,545	5,693
United Arab Emirates	5,623	5,793	5,795	5,795	6,777	5,859	5,784
Venezuela	3,429	3,582	3,693	3,693	3,965	4,065	4,052
<b>OPEC</b>	<b>50,729</b>	<b>55,609</b>	<b>57,230</b>	<b>57,591</b>	<b>57,993</b>	<b>58,599</b>	<b>62,416</b>

	1997	1998	1999	2000	2001	2002	2003
Algeria	4,077	4,077	4,520	4,523	4,523	4,523	4,545
Indonesia	2,152	2,181	2,620	2,682	2,603	2,557	2,557
IR Iran	23,000	24,100	22,370	26,600	26,600	26,690	27,570
Iraq	3,188	3,188	3,285	3,109	3,109	3,190	3,170
Kuwait	1,490	1,482	1,482	1,557	1,557	1,557	1,572
SP Libyan AJ	1,315	1,315	1,314	1,314	1,314	1,503	1,491
Nigeria	3,483	3,512	3,512	4,106	4,633	4,997	4,997
Qatar	8,500	10,900	11,157	14,443	25,783	25,783	25,783
Saudi Arabia	5,882	6,068	6,146	6,301	6,456	6,646	6,754
United Arab Emirates	6,063	5,996	5,936	6,060	6,060	6,060	6,060
Venezuela	4,121	4,147	4,152	4,152	4,180	4,181	4,219
<b>OPEC</b>	<b>63,271</b>	<b>66,966</b>	<b>66,494</b>	<b>74,847</b>	<b>86,817</b>	<b>87,687</b>	<b>88,718</b>

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

## 12 Table

World proven natural gas reserves by region, 1983–2003 (billion standard cu m)

	1982	1983	1984	1985	1986	1987	1988
North America	8,262	8,205	8,285	8,210	8,047	7,451	7,465
Latin America	5,280	5,408	5,652	6,546	7,030	7,099	7,109
Eastern Europe	36,495	37,975	40,527	41,548	42,204	42,974	52,436
Western Europe	5,278	5,377	5,358	5,406	5,353	5,260	5,232
Middle East	26,405	27,385	27,704	30,428	31,193	34,359	37,864
Africa	6,383	6,235	6,143	7,379	7,370	7,684	8,466
Asia and Pacific	6,719	7,710	8,314	9,401	9,717	10,060	10,536
<b>Total world</b>	<b>94,821</b>	<b>98,295</b>	<b>101,984</b>	<b>108,917</b>	<b>110,914</b>	<b>114,886</b>	<b>129,108</b>
OPEC	34,188	35,658	36,151	41,092	41,943	45,526	49,849
OPEC percentage	36.1	36.3	35.4	37.7	37.8	39.6	38.6

	1990	1991	1992	1993	1994	1995	1996
North America	7,521	7,442	7,345	6,832	6,538	6,606	6,556
Latin America	7,538	7,656	7,839	7,935	7,868	7,932	8,001
Eastern Europe	54,926	55,755	56,743	56,728	58,806	58,005	57,268
Western Europe	5,439	5,585	5,640	5,620	5,781	5,843	6,520
Middle East	38,014	43,138	44,432	44,940	46,008	45,635	49,467
Africa	8,524	9,603	9,947	10,188	9,223	9,923	10,173
Asia and Pacific	11,020	10,933	11,678	13,115	12,732	11,740	12,305
<b>Total world</b>	<b>132,983</b>	<b>140,113</b>	<b>143,623</b>	<b>145,357</b>	<b>146,956</b>	<b>145,683</b>	<b>150,290</b>
OPEC	50,729	55,609	57,230	57,591	57,993	58,599	62,416
OPEC percentage	38.1	39.7	39.8	39.6	39.5	40.2	41.5

	1997	1998	1999	2000	2001	2002	2003
North America	6,545	6,393	6,460	6,708	6,889	6,959	7,105
Latin America	8,087	7,264	7,746	7,814	7,916	7,641	7,842
Eastern Europe	57,709	57,250	56,624	56,562	56,714	56,900	56,775
Western Europe	7,161	7,152	7,128	7,050	6,953	6,666	6,263
Middle East	49,795	53,406	52,053	59,811	71,375	71,788	72,766
Africa	10,635	10,793	11,440	12,463	13,232	13,881	13,966
Asia and Pacific	12,582	12,729	13,630	13,686	14,217	14,826	15,073
<b>Total world</b>	<b>152,513</b>	<b>154,987</b>	<b>155,081</b>	<b>164,094</b>	<b>177,296</b>	<b>178,660</b>	<b>179,789</b>
OPEC	63,271	66,966	66,494	74,847	86,817	87,687	88,718
OPEC percentage	41.5	43.2	42.9	45.6	49.0	49.1	49.3

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



**Crude oil production in OPEC Members, 1983–2003** (1,000 b/d)

	1983	1984	1985	1986	1987	1988	1989
Algeria	660.9	695.4	672.4	673.9	648.2	672.9*	727.3
Indonesia	1,245.3	1,280.1	1,181.5	1,256.8	1,158.1	1,161.5*	1,231.0
IR Iran	2,441.7	2,032.4	2,192.3	2,037.1	2,297.6	2,478.5*	2,814.1
Iraq	1,098.8	1,221.3	1,404.4	1,876.5	2,358.7	2,744.5*	2,785.8
Kuwait <sup>1</sup>	1,054.1	1,163.0	936.3	1,174.3*	971.6	1,190.1*	1,277.5*
SP Libyan AJ	1,121.1*	984.6	997.7*	1,308.0	972.5	1,022.7*	1,129.2
Nigeria	1,235.5	1,388.0	1,498.9	1,466.6	1,323.0	1,341.3*	1,716.3
Qatar	269.0	325.3	289.3*	305.7*	218.9*	228.0*	320.2
Saudi Arabia <sup>1</sup>	4,539.4	4,079.1	3,175.0	4,784.2	3,975.2	5,100.1*	5,064.5
United Arab Emirates	1,149.0	1,069.0	1,009.1*	1,128.6*	1,242.3*	1,323.5*	1,593.0*
Venezuela	1,800.8	1,695.5	1,564.0	1,648.5	1,575.5	1,578.1	1,747.4
<b>OPEC</b>	<b>16,615.6</b>	<b>15,933.7</b>	<b>14,921.0</b>	<b>17,660.2</b>	<b>16,741.5</b>	<b>18,841.4</b>	<b>20,406.3</b>

	1990	1991	1992	1993	1994	1995	1996
Algeria	783.5	803.0	756.5	747.3	752.5	752.5	805.7
Indonesia	1,299.3	1,450.0	1,347.7	1,327.3	1,332.8	1,328.4	1,326.7
IR Iran	3,135.3*	3,406.8*	3,431.6	3,425.2	3,596.0	3,595.0	3,596.0
Iraq	2,112.6*	282.5*	526.2	659.5	748.7	736.9	740.4
Kuwait <sup>1</sup>	858.6*	189.7*	1,057.2	1,881.8	2,006.6	2,006.6	2,005.6
SP Libyan AJ	1,389.1*	1,405.9*	1,432.7	1,361.0	1,389.8	1,399.0	1,394.0
Nigeria	1,726.7	1,893.1	1,957.0	1,905.2	1,820.9	1,842.6	1,863.1
Qatar	405.6	391.2	423.2	390.3	378.7	389.8	393.1
Saudi Arabia <sup>1</sup>	6,412.5	8,117.8	8,331.7	8,047.7	8,049.0	8,023.4	8,102.3
United Arab Emirates	1,762.6*	2,027.4*	2,235.7*	2,159.3	2,166.5	2,148.0	2,161.3
Venezuela	2,135.2	2,286.2	2,345.6	2,326.0	2,367.9	2,378.5	2,381.0
<b>OPEC</b>	<b>22,021.1</b>	<b>22,253.6</b>	<b>23,845.1</b>	<b>24,230.5</b>	<b>24,609.4</b>	<b>24,600.8</b>	<b>24,769.2</b>

	1997	1998	1999	2000	2001	2002	2003
Algeria	846.1	827.3	749.6	796.0	776.6	729.9	942.4
Indonesia	1,330.4	1,315.4	1,355.5	1,272.5	1,214.2	1,125.4	1,139.7
IR Iran	3,603.4	3,714.0	3,439.0	3,661.3	3,572.0	3,248.0	3,741.6
Iraq	1,383.9	2,181.1	2,719.8*	2,810.0*	2,593.7	2,126.5	1,378.6*
Kuwait <sup>1</sup>	2,007.1	2,051.5	1,872.7	1,996.1	1,947.0	1,745.9	2,107.6
SP Libyan AJ	1,395.8	1,449.0*	1,287.2*	1,347.2	1,323.5	1,200.9	1,431.9
Nigeria	1,876.7	1,939.0*	1,781.5	2,053.6	2,017.6	1,801.7	2,166.3
Qatar	405.0	618.1	608.5	648.2	632.9	568.9	676.0
Saudi Arabia <sup>1</sup>	8,011.7	8,280.2	7,564.7	8,094.5	7,888.9	7,093.1	8,410.3
United Arab Emirates	2,160.7	2,244.1	2,048.8	2,174.7	2,115.2	1,900.3	2,248.0
Venezuela	2,411.0	3,120.0	2,800.4	2,891.0	2,791.9	2,782.0	2,643.0
<b>OPEC</b>	<b>25,431.8</b>	<b>27,739.7</b>	<b>26,227.8</b>	<b>27,745.0</b>	<b>26,873.5</b>	<b>24,322.5</b>	<b>26,885.4</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.

## 14 Table

World crude oil production by region, 1983–2003 (1,000 b/d)

	1983	1984	1985	1986	1987	1988	1989
North America	9,857.6	10,148.8	10,221.8	9,809.8	9,586.8	9,419.7	8,836.3
Latin America	6,101.2	6,161.1	6,082.7	6,041.9	6,053.4	6,103.6	6,334.3
Eastern Europe	12,699.5	12,605.9	11,986.3	12,309.1	12,448.4	12,367.7	12,037.7
Western Europe	3,357.3	3,696.8	3,853.1	3,930.9	4,064.4	4,046.3	3,896.2
Middle East	11,149.8	10,518.3	9,724.8	12,102.9	11,920.0	14,149.9	15,133.7
Africa	4,442.5	4,609.0	4,871.1	5,149.5	4,789.0	4,949.4	5,541.6
Asia and Pacific	4,797.4	5,252.7	5,532.8	5,747.1	5,743.7	5,851.3	6,004.3
<b>Total world</b>	<b>52,405.2</b>	<b>52,992.6</b>	<b>52,272.5</b>	<b>55,091.3</b>	<b>54,605.6</b>	<b>56,887.9</b>	<b>57,784.1</b>
OPEC	16,615.6	15,933.7	14,921.0	17,660.2	16,741.5	18,841.4	20,406.3
OPEC percentage	31.7	30.1	28.5	32.1	30.7	33.1	35.3

	1990	1991	1992	1993	1994	1995	1996
North America	8,562.4	8,611.7	8,406.8	8,143.0	8,012.3	7,939.8	7,865.8
Latin America	6,861.0	7,140.7	7,271.4	7,347.9	7,562.3	7,689.3	8,138.6
Eastern Europe	11,275.9	10,140.6	8,844.5	7,922.2	7,168.6	7,050.3	6,930.8
Western Europe	4,098.4	4,317.1	4,559.3	4,823.0	5,585.9	5,812.0	6,181.1
Middle East	16,076.9	15,896.5	17,563.1	18,264.5	18,808.5	18,856.3	19,028.3
Africa	5,961.6	6,212.2	6,324.7	6,166.9	6,121.2	6,199.6	6,419.4
Asia and Pacific	6,269.5	6,417.6	6,362.2	6,462.5	6,630.7	6,774.9	6,929.4
<b>Total world</b>	<b>59,105.8</b>	<b>58,736.4</b>	<b>59,332.1</b>	<b>59,130.0</b>	<b>59,889.5</b>	<b>60,322.1</b>	<b>61,493.5</b>
OPEC	22,021.1	22,253.6	23,845.1	24,230.5	24,609.4	24,600.8	24,769.2
OPEC percentage	37.3	37.9	40.2	41.0	41.1	40.8	40.3

	1997	1998	1999	2000	2001	2002	2003
North America	7,865.7	7,679.4	7,227.1	7,213.1	7,178.9	7,191.3	7,190.8
Latin America	8,481.5	9,477.1	9,124.7	9,167.2	9,319.4	9,464.5	9,539.6
Eastern Europe	7,093.0	7,083.3	7,212.0	7,629.3	8,245.3	9,050.1	9,937.7
Western Europe	6,202.2	6,109.1	6,176.9	6,287.5	6,033.6	5,949.6	5,624.5
Middle East	19,608.0	21,117.5	20,288.9	21,430.5	20,779.5	18,648.1	20,451.6
Africa	6,589.8	6,705.0	6,348.5	6,769.8	6,620.9	6,452.4	7,270.8
Asia and Pacific	7,040.1	6,965.7	7,024.6	7,165.9	7,124.6	7,177.7	7,075.1
<b>Total world</b>	<b>62,880.3</b>	<b>65,137.0</b>	<b>63,402.7</b>	<b>65,663.2</b>	<b>65,302.3</b>	<b>63,933.8</b>	<b>67,090.0</b>
OPEC	25,431.8	27,739.7	26,227.8	27,745.0	26,873.5	24,322.5	26,885.4
OPEC percentage	40.4	42.6	41.4	42.3	41.2	38.0	40.1

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



**Marketed production of natural gas in OPEC Members, 1983–2003** (million standard cu m)

	1983	1984	1985	1986	1987	1988	1989
Algeria	36,267	35,039	36,470	37,560	43,170	46,290	48,400
Indonesia	21,992	32,969	33,905	35,374	36,550	38,510	43,234
IR Iran	11,000	13,500	14,600	15,200	16,000	20,000	22,200
Iraq	470	590	850	1,550	3,750	5,600	6,450
Kuwait	4,035	4,376	4,200	5,730	4,780	6,840	8,160
SP Libyan AJ	3,710	4,600	5,200	5,600	5,000	5,500	6,800
Nigeria	2,298	2,051	2,800	3,299	3,493	3,770	4,322
Qatar	5,235	5,930	5,460	5,800	5,610	5,860	6,200
Saudi Arabia	4,380	18,200	18,800	25,200	26,800	29,100	29,800
United Arab Emirates	8,400	11,060	13,210	15,220	18,890	19,360	22,380
Venezuela	15,640	17,300	17,326	19,074	18,587	19,028	19,538
<b>OPEC</b>	<b>113,427</b>	<b>145,615</b>	<b>152,821</b>	<b>169,607</b>	<b>182,630</b>	<b>199,858</b>	<b>217,484</b>

	1990	1991	1992	1993	1994	1995	1996
Algeria	51,600	53,910	53,246	53,872	51,157	55,622	59,024
Indonesia	47,580	51,370	54,190	55,860	63,473	63,360	66,660
IR Iran	24,200	32,200	35,100	36,900	40,400	38,600	40,410
Iraq	3,980	1,740	2,270	2,550	3,170	3,170	3,240
Kuwait	4,190	500	2,620	5,420	5,970	9,278	9,302
SP Libyan AJ	6,200	6,540	6,770	6,360	6,390	6,340	6,420
Nigeria	4,010	4,400	4,421	5,050	4,550	4,844	5,460
Qatar	6,300	7,630	12,620	13,500	13,500	13,500	13,700
Saudi Arabia	33,520	35,170	38,250	40,040	42,770	42,930	44,510
United Arab Emirates	22,110	25,810	22,170	22,990	25,820	31,320	33,800
Venezuela	21,966	21,902	21,617	25,613	24,675	25,200	29,730
<b>OPEC</b>	<b>225,656</b>	<b>241,172</b>	<b>253,274</b>	<b>268,155</b>	<b>281,875</b>	<b>294,164</b>	<b>312,256</b>

	1997	1998	1999	2000	2001	2002	2003*
Algeria	67,714	72,511	81,507	83,119	78,240	80,367	82,829
Indonesia	67,150	64,250	70,960	68,365	66,300	70,350	72,600
IR Iran	47,000	50,000	56,755	60,147	69,145	75,000	79,000
Iraq	3,050	2,950	3,180	3,150	2,760	2,360	1,560
Kuwait	9,270	9,491	8,688	9,600	9,500	8,000	8,900
SP Libyan AJ	6,570	6,360	5,200	5,880	6,180	6,210	6,400
Nigeria	5,850	5,900	6,950	12,460	14,900	14,200	19,200
Qatar	17,400	19,580	22,050	24,900	27,000	29,500	30,800
Saudi Arabia	45,840	46,720	46,200	49,810	53,690	57,320	60,060
United Arab Emirates	36,310	37,070	38,990	38,380	39,360	43,390	44,400
Venezuela	30,211	31,440	26,771	27,801	31,710	28,415	26,060
<b>OPEC</b>	<b>336,365</b>	<b>346,272</b>	<b>367,251</b>	<b>383,612</b>	<b>398,785</b>	<b>415,112</b>	<b>431,809</b>

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

## 16 Table

**World marketed production of natural gas by region, 1983–2003 (million standard cu m)**

	1983	1984	1985	1986	1987	1988	1989
North America	527,184	572,803	550,086	533,375	555,588	582,498	595,216
Latin America	75,865	76,961	74,024	76,554	76,067	79,578	81,798
Eastern Europe	586,270	634,810	696,610	738,070	777,380	816,670	841,010
Western Europe	194,171	198,920	206,116	201,735	212,750	200,560	205,110
Middle East	37,770	58,656	63,860	76,070	83,830	94,530	106,180
Africa	46,344	46,632	50,361	53,140	58,949	63,510	68,202
Asia and Pacific	91,392	108,419	118,095	127,414	127,240	133,450	143,964
<b>Total world</b>	<b>1,558,996</b>	<b>1,697,201</b>	<b>1,759,152</b>	<b>1,806,358</b>	<b>1,891,804</b>	<b>1,970,796</b>	<b>2,041,480</b>
OPEC	113,427	145,615	152,821	169,607	182,630	199,858	217,484
OPEC percentage	7.3	8.6	8.7	9.4	9.7	10.1	10.7

	1990	1991	1992	1993	1994	1995	1996
North America	611,194	616,016	633,128	651,464	682,075	685,328	697,549
Latin America	85,696	85,642	82,317	93,043	94,765	99,630	109,950
Eastern Europe	852,500	844,990	803,100	791,430	748,930	734,800	740,350
Western Europe	203,850	216,240	219,600	231,280	233,820	241,800	278,990
Middle East	105,740	115,040	126,510	135,910	146,480	152,708	159,962
Africa	70,890	74,890	75,387	79,452	77,077	82,296	88,084
Asia and Pacific	151,170	164,300	175,970	183,810	201,133	210,470	227,740
<b>Total world</b>	<b>2,081,040</b>	<b>2,117,118</b>	<b>2,116,012</b>	<b>2,166,389</b>	<b>2,184,280</b>	<b>2,207,032</b>	<b>2,302,625</b>
OPEC	225,656	241,172	253,274	268,155	281,875	294,164	312,256
OPEC percentage	10.8	11.4	12.0	12.4	12.9	13.3	13.6

	1997	1998	1999	2,000	2,001	2002	2003
North America	700,829	709,042	710,710	726,434	742,345	724,876	720,527
Latin America	114,471	122,670	125,251	131,461	138,770	139,215	152,550
Eastern Europe	694,510	714,320	726,720	744,280	746,530	761,100	793,110
Western Europe	271,960	271,640	277,020	282,630	284,750	293,940	298,620
Middle East	178,680	187,161	196,193	208,907	230,215	247,150	257,440
Africa	98,394	103,511	113,797	125,589	130,270	133,707	141,359
Asia and Pacific	239,190	241,880	258,390	273,115	280,950	299,610	321,100
<b>Total world</b>	<b>2,298,034</b>	<b>2,350,224</b>	<b>2,408,081</b>	<b>2,492,416</b>	<b>2,553,830</b>	<b>2,599,598</b>	<b>2,684,706</b>
OPEC	336,365	346,272	367,251	383,612	398,785	415,112	431,809
OPEC percentage	14.6	14.7	15.3	15.4	15.6	16.0	16.1

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



## Refinery capacity in OPEC Members, 1983–2003 (1,000 b/d)

	1983	1984	1985	1986	1987	1988	1989
Algeria	471.2	471.2	471.2	471.2	471.2	471.2	474.5
Indonesia	837.0	837.0	837.0	738.7	738.7	738.7	751.3
IR Iran	670.0	615.0	615.0	615.0	615.0	615.0	777.0
Iraq	365.5	365.5	365.5	365.5	365.5	365.5	550.0
Kuwait	564.0	564.0	564.0	614.0	670.0	670.0	670.0
SP Libyan AJ	117.0	315.0	333.0	342.0	342.0	342.0	342.0
Nigeria	234.0	234.0	234.0	243.0	265.5	265.5	400.5
Qatar	63.0	63.0	63.0	63.0	63.0	63.0	63.0
Saudi Arabia	935.0	1,190.0	1,440.0	1,440.0	1,425.0	1,425.0	1,750.0
United Arab Emirates	180.0	180.0	180.0	180.0	180.0	180.0	180.0
Venezuela	1,323.1	1,224.2	1,229.2	1,224.2	1,258.1	1,201.1	1,167.0
<b>OPEC</b>	<b>5,759.8</b>	<b>6,058.9</b>	<b>6,331.9</b>	<b>6,296.6</b>	<b>6,394.0</b>	<b>6,337.0</b>	<b>7,125.3</b>

	1990	1991	1992	1993	1994	1995	1996
Algeria	474.5	474.5	474.5	474.5	468.6	462.2	462.2
Indonesia	751.3	782.8	782.8	782.8	895.3	891.2	891.2
IR Iran	777.0	957.0	957.0	1,092.0	1,092.0	1,092.0	1,092.0
Iraq	550.0	550.0 <sup>1</sup>	550.0 <sup>1</sup>	595.0	603.0	603.0	603.0
Kuwait	670.0	670.0 <sup>1</sup>	670.0 <sup>1</sup>	670.0 <sup>1</sup>	820.0	820.0	797.0
SP Libyan AJ	342.0	342.0	342.0	342.0	342.0	342.0	342.0
Nigeria	400.5	400.5	400.5	400.5	400.5	424.0	424.0
Qatar	63.0	63.0	63.0	63.0	63.0	63.0	63.0
Saudi Arabia	1,750.0	1,750.0	1,550.0	1,550.0	1,670.0	1,670.0	1,670.0
United Arab Emirates	192.5	192.5	192.5	205.0	205.0	211.0	246.0
Venezuela	1,224.0	1,224.0	1,224.0	1,181.0	1,181.0	1,181.0	1,183.2
<b>OPEC</b>	<b>7,194.8</b>	<b>7,406.3</b>	<b>7,206.3</b>	<b>7,355.8</b>	<b>7,740.4</b>	<b>7,759.4</b>	<b>7,773.6</b>

	1997	1998	1999	2000	2001	2002	2003
Algeria	462.2	462.2	462.2	462.2	462.2	462.2	462.2
Indonesia	891.2	929.7	929.7	1,057.0	1,057.0	1,057.0	1,057.0
IR Iran	1,208.0	1,524.0	1,524.0	1,474.0	1,474.0	1,474.0	1,474.0
Iraq	603.0	603.0	603.0	603.0	603.0	603.0	603.0
Kuwait	874.5	829.6	899.0	899.0	899.0	899.0	831.0
SP Libyan AJ	342.0	342.0	342.0	380.0	380.0	380.0	380.0
Nigeria	424.0	424.0	424.0	445.0	445.0	445.0	445.0
Qatar	63.0	63.0	63.0	63.0	63.0	80.0	80.0
Saudi Arabia	1,693.0	1,780.0	1,810.0	1,825.0	1,825.0	1,825.0	1,864.0
United Arab Emirates	291.0	291.0	411.0	420.0	491.3	491.3	466.3
Venezuela	1,183.2	1,200.3	1,188.4	1,183.2	1,183.2	1,199.0	1,003.8
<b>OPEC</b>	<b>8,035.1</b>	<b>8,448.8</b>	<b>8,656.3</b>	<b>8,811.4</b>	<b>8,882.7</b>	<b>8,915.5</b>	<b>8,666.3</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.

## 18 Table

## World refinery capacity by region, 1983–2003 (1,000 b/cd)

	1983	1984	1985	1986	1987	1988	1989
North America	18,031.3	17,589.3	17,382.6	17,325.2	17,784.3	17,510.7	17,423.8
Latin America	8,014.9	7,433.1	7,426.2	7,088.3	7,427.3	7,357.5	7,564.0
Eastern Europe <sup>1</sup>	14,108.5	14,038.5	14,038.5	14,298.5	14,277.0	14,317.0	14,317.0
Western Europe	17,332.1	16,755.9	15,303.6	14,881.8	15,205.2	14,937.8	14,734.6
Middle East	3,748.4	3,979.4	4,227.9	4,301.4	4,371.2	4,377.7	5,049.2
Africa	2,324.6	2,539.7	2,603.4	2,612.4	2,658.3	2,651.5	2,790.8
Asia and Pacific	12,547.2	12,445.5	12,372.6	12,540.7	12,392.9	12,254.6	12,399.0
<b>Total world</b>	<b>76,106.9</b>	<b>74,781.4</b>	<b>73,354.8</b>	<b>73,048.3</b>	<b>74,116.2</b>	<b>73,406.7</b>	<b>74,278.4</b>
OPEC	5,759.8	6,058.9	6,331.9	6,296.6	6,394.0	6,337.0	7,125.3
OPEC percentage	7.6	8.1	8.6	8.6	8.6	8.6	9.6

	1990	1991	1992	1993	1994	1995	1996
North America	17,557.7	17,705.1	17,037.5	16,988.9	17,418.5	17,359.2	17,324.4
Latin America	7,765.7	7,538.9	7,604.8	7,443.6	7,387.6	7,447.2	7,457.9
Eastern Europe <sup>1</sup>	12,255.1	12,202.7	12,204.5	12,183.9	12,305.2	12,193.9	12,125.4
Western Europe	14,833.0	14,973.5	15,055.7	14,887.0	14,757.8	14,698.9	14,672.2
Middle East	5,055.8	5,266.9	5,079.9	5,260.1	5,559.1	5,565.1	5,528.3
Africa	2,826.4	2,820.2	2,818.8	2,746.1	2,780.9	2,795.9	2,833.3
Asia and Pacific	12,849.1	13,207.4	14,129.8	14,426.2	14,992.1	15,905.8	16,604.3
<b>Total world</b>	<b>73,142.8</b>	<b>73,714.6</b>	<b>73,930.9</b>	<b>73,935.8</b>	<b>75,201.2</b>	<b>75,966.0</b>	<b>76,545.7</b>
OPEC	7,194.8	7,406.3	7,206.3	7,355.8	7,740.4	7,759.4	7,773.6
OPEC percentage	9.8	10.0	9.7	9.9	10.3	10.2	10.2

	1997	1998	1999	2000	2001	2002	2003
North America	17,627.6	17,802.7	18,452.6	18,444.8	18,508.4	18,606.8	18,686.1
Latin America	7,922.6	7,606.3	7,664.6	8,106.7	7,993.4	8,255.3	8,128.8
Eastern Europe <sup>1</sup>	11,976.2	11,294.4	11,317.3	9,972.2	10,164.6	10,128.3	10,085.5
Western Europe	14,864.4	15,065.0	14,929.2	14,982.5	15,045.9	15,098.6	15,156.8
Middle East	5,781.0	6,134.5	6,353.9	6,337.9	6,409.2	6,423.9	6,370.0
Africa	2,888.3	2,944.5	2,982.5	3,257.7	3,247.3	3,278.3	3,303.8
Asia and Pacific	16,866.6	18,681.8	19,491.0	20,130.0	20,248.2	20,269.1	20,101.9
<b>Total world</b>	<b>77,926.8</b>	<b>79,529.2</b>	<b>81,191.1</b>	<b>81,231.8</b>	<b>81,617.0</b>	<b>82,060.2</b>	<b>81,832.9</b>
OPEC	8,035.1	8,448.8	8,656.3	8,811.4	8,882.7	8,915.5	8,666.3
OPEC percentage	10.3	10.6	10.7	10.8	10.9	10.9	10.6

Notes: Totals may not add up due to independent rounding. Figures as at year-end. Some figures were converted from barrels per stream day.  
1. Downward changes as of 1990 reflect more accurate statistics from the countries of the former Soviet Union.



**Output of refined products in OPEC Members, 1983–2003 (1,000 b/d)**

	1983	1984	1985	1986	1987	1988	1989
Algeria	386.8	407.9	390.0	433.0	431.0	433.3	433.6
Indonesia	526.1	499.3	501.4	550.0	568.7	606.5	640.4
IR Iran	624.0	618.0	647.0	558.4	541.2	614.1	669.9
Iraq	292.0	340.0	344.0	346.4	351.1	351.5	389.2
Kuwait	468.4	478.9	566.5	599.0	593.1	652.2	689.0
SP Libyan AJ	126.4	128.5	143.9	182.1	204.9	222.8	261.5
Nigeria	151.2	160.2	135.2	136.0	135.2	154.8	214.2
Qatar	8.4	14.2	23.2	29.0	33.0	37.6	49.3
Saudi Arabia	877.2	917.6	1,115.6	1,333.5	1,386.8	1,442.3	1,335.2
United Arab Emirates	108.6	142.2	148.5	166.0	168.3	174.1	177.8
Venezuela	833.7	839.7	892.4	895.8	831.4	975.8	1,010.1
<b>OPEC</b>	<b>4,402.8</b>	<b>4,546.5</b>	<b>4,907.7</b>	<b>5,229.2</b>	<b>5,244.7</b>	<b>5,665.0</b>	<b>5,870.2</b>

	1990	1991	1992	1993	1994	1995	1996
Algeria	435.3	428.6	434.5	426.1	429.8	440.7	429.4
Indonesia	711.2	677.8	649.9	770.5	767.4	854.3	892.9
IR Iran	751.0	806.1	851.4	911.7	916.9	942.0	957.0
Iraq	344.8	274.3	358.0	417.7	457.7	447.8	438.3
Kuwait	554.7	105.7	313.3	449.4	782.4	821.7	787.7
SP Libyan AJ	278.0	282.0	282.4	286.8	295.4	300.4	304.7
Nigeria	257.2	242.8	218.9	220.3	108.4	161.3	193.0
Qatar	57.2	53.2	58.4	49.4	57.1	57.8	60.9
Saudi Arabia	1,537.6	1,417.1	1,447.5	1,482.0	1,511.3	1,449.9	1,641.0
United Arab Emirates	187.7	183.8	185.4	193.4	208.4	230.1	234.9
Venezuela	1,038.6	1,087.8	1,050.6	1,069.3	1,126.8	1,201.1	1,335.2
<b>OPEC</b>	<b>6,153.3</b>	<b>5,559.2</b>	<b>5,850.3</b>	<b>6,276.6</b>	<b>6,661.7</b>	<b>6,907.0</b>	<b>7,275.0</b>

	1997	1998	1999	2000	2001	2002	2003
Algeria	435.6	410.2	430.6	441.4	456.0	469.6	447.9
Indonesia	887.6	928.4	933.7	968.2	1,006.1	1,002.4	1,008.1
IR Iran	974.4	1,337.8	1,361.2	1,316.4	1,436.7	1,440.5	1,344.7
Iraq	444.5	459.1	442.8	493.2	531.9	518.2	463.8
Kuwait	879.6	876.1	903.3	729.5	659.7	721.2	839.2
SP Libyan AJ	307.6	317.5	324.9	337.8	341.5	369.8	322.7
Nigeria	192.5	113.6	131.1	88.6	227.8	307.0	307.4
Qatar	54.8	59.5	59.2	57.8	42.1	43.1	115.3
Saudi Arabia	1,584.4	1,600.3	1,593.2	1,649.7	1,636.9	1,596.9	1,760.6
United Arab Emirates	298.4	222.4	232.9	315.3	309.5	424.7	358.8
Venezuela	1,327.3	1,332.7	1,209.3	1,240.8	1,264.5	1,228.7	1,016.2
<b>OPEC</b>	<b>7,386.7</b>	<b>7,657.5</b>	<b>7,622.2</b>	<b>7,638.7</b>	<b>7,912.8</b>	<b>8,121.9</b>	<b>7,984.8</b>

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



## 20 Table

## World output of refined products by region, 1983–2003 (1,000 b/d)

	1983	1984	1985	1986	1987	1988	1989
North America	14,604.5	15,162.9	15,221.4	15,912.0	16,162.6	16,639.3	16,860.7
Latin America	5,274.7	5,352.4	5,078.7	5,100.8	5,226.3	5,356.4	5,554.8
Eastern Europe	10,459.8	10,018.1	9,848.9	10,702.5	10,803.8	10,698.9	10,546.6
Western Europe	11,890.3	11,888.9	11,626.2	12,409.3	12,298.4	12,844.9	12,868.7
Middle East	3,045.7	3,218.4	3,558.6	3,790.3	3,847.6	4,057.9	4,102.4
Africa	1,736.2	1,724.7	1,735.6	1,826.5	1,864.1	1,944.4	2,090.4
Asia and Pacific	8,884.6	8,984.9	8,818.0	9,085.3	9,276.3	9,683.1	10,387.6
<b>Total world</b>	<b>55,896.0</b>	<b>56,350.2</b>	<b>55,887.4</b>	<b>58,826.7</b>	<b>59,479.1</b>	<b>61,224.8</b>	<b>62,411.2</b>
OPEC	4,402.8	4,546.5	4,907.7	5,229.2	5,244.7	5,665.0	5,870.2
OPEC percentage	7.9	8.1	8.8	8.9	8.8	9.3	9.4

	1990	1991	1992	1993	1994	1995	1996
North America	16,986.4	16,911.2	17,013.5	17,522.4	17,628.6	17,833.2	18,355.2
Latin America	5,706.2	5,777.4	5,910.4	6,045.3	6,258.2	6,223.7	6,469.6
Eastern Europe	9,850.4	9,202.5	7,762.4	6,849.0	5,996.7	6,014.0	5,814.7
Western Europe	13,234.6	13,436.9	13,829.2	13,930.0	14,266.8	14,241.7	14,590.2
Middle East	4,278.5	3,696.4	4,117.2	4,409.1	4,864.9	4,881.3	5,060.4
Africa	2,190.2	2,183.8	2,168.8	2,231.2	2,201.7	2,325.4	2,360.1
Asia and Pacific	11,056.2	11,758.2	12,505.6	13,344.7	13,819.5	14,604.8	15,540.9
<b>Total world</b>	<b>63,302.6</b>	<b>62,966.5</b>	<b>63,307.1</b>	<b>64,331.9</b>	<b>65,036.3</b>	<b>66,124.1</b>	<b>68,191.0</b>
OPEC	6,153.3	5,559.2	5,850.3	6,276.6	6,661.7	6,907.0	7,275.0
OPEC percentage	9.7	8.8	9.2	9.8	10.2	10.4	10.7

	1997	1998	1999	2000	2001	2002	2003
North America	18,675.2	18,918.4	18,934.9	19,305.1	19,200.2	19,282.6	19,697.8
Latin America	6,554.7	6,750.3	6,592.6	6,653.1	6,801.6	6,843.4	7,076.2
Eastern Europe	5,839.8	5,768.0	5,697.9	5,828.0	6,165.4	6,543.4	6,652.3
Western Europe	14,885.9	15,262.7	14,572.8	14,833.1	14,774.8	14,925.0	15,012.0
Middle East	5,190.6	5,534.4	5,554.4	5,534.2	5,593.2	5,726.7	5,873.0
Africa	2,365.1	2,298.6	2,376.3	2,404.8	2,583.5	2,738.7	2,678.5
Asia and Pacific	16,351.5	16,306.8	17,256.7	17,843.9	17,941.8	18,194.5	18,237.7
<b>Total world</b>	<b>69,862.9</b>	<b>70,839.1</b>	<b>70,985.5</b>	<b>72,402.2</b>	<b>73,060.3</b>	<b>74,254.3</b>	<b>75,227.5</b>
OPEC	7,386.7	7,657.5	7,622.2	7,638.7	7,912.8	8,121.9	7,984.8
OPEC percentage	10.6	10.8	10.7	10.6	10.8	10.9	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.

**Consumption of refined products in OPEC Members, 1983–2003 (1,000 b/d)**

	1983	1984	1985	1986	1987	1988	1989
Algeria	122.2	140.5	143.5	147.2	152.6	158.0	168.1
Indonesia	467.6	468.6	462.8	470.0	491.6	514.0	547.9
IR Iran	871.4	723.0	735.0	711.5	751.0	766.0	778.5
Iraq	249.7	234.2	256.0	261.3	281.3	294.7	303.3
Kuwait	74.4	89.5	101.7	96.1	85.0	75.0	72.4
SP Libyan AJ	117.3	108.5	103.0	94.0	99.5	104.3	107.7
Nigeria	225.9	203.3	214.0	196.3	218.7	231.7	247.8
Qatar	8.5	8.9	10.5	11.6	11.6	12.5	13.0
Saudi Arabia	603.6	651.8	632.1	621.3	632.0	685.9	701.4
United Arab Emirates	85.0	98.3	100.9	102.6	109.4	112.7	114.3
Venezuela	384.2	352.1	355.8	375.9	377.7	386.8	367.5
<b>OPEC</b>	<b>3,209.8</b>	<b>3,078.7</b>	<b>3,115.3</b>	<b>3,087.8</b>	<b>3,210.4</b>	<b>3,341.6</b>	<b>3,421.9</b>

	1990	1991	1992	1993	1994	1995	1996
Algeria	177.5	162.3	190.7	186.8	177.3	172.7	168.7
Indonesia	629.7	661.4	701.4	711.4	751.7	774.7	846.4
IR Iran	853.8	892.6	940.7	960.2	920.0	945.0	984.1
Iraq	324.7	308.8	415.0	445.0	462.2	448.0	435.5
Kuwait	65.2	66.2	101.1	95.2	106.2	117.6	114.1
SP Libyan AJ	100.5	105.9	107.5	125.5	153.5	174.1	175.3
Nigeria	254.8	234.6	244.9	211.1	160.4	186.1	199.7
Qatar	13.2	12.8	13.9	13.7	16.3	17.2	19.3
Saudi Arabia	680.0	676.3	729.4	767.5	792.4	751.2	807.4
United Arab Emirates	115.9	118.8	124.9	133.1	132.1	125.5	123.0
Venezuela	375.0	379.8	402.3	419.8	412.1	416.6	403.5
<b>OPEC</b>	<b>3,590.3</b>	<b>3,619.5</b>	<b>3,971.9</b>	<b>4,069.4</b>	<b>4,084.3</b>	<b>4,128.8</b>	<b>4,276.9</b>

	1997	1998	1999	2000	2001	2002	2003
Algeria	163.6	171.2	175.8	185.6	187.7	201.7	218.3
Indonesia	928.6	880.3	925.7	988.5	1,017.2	1,068.9	1,156.6
IR Iran	981.6	1,318.0	1,192.2	1,189.0	1,222.0	1,234.8	1,284.8
Iraq	440.6	452.3	454.7	497.0	540.4	529.0	429.0
Kuwait	131.8	158.8	163.8	152.9	140.8	146.0	206.7
SP Libyan AJ	174.1	178.0	182.6	174.4	175.4	172.3	184.0
Nigeria	206.0	198.6	184.3	206.7	242.4	200.0	239.6
Qatar	21.6	23.2	22.2	23.6	25.4	32.9	30.8
Saudi Arabia	814.5	865.8	908.4	937.0	982.0	1,053.7	1,140.5
United Arab Emirates	115.0	130.0	127.9	135.1	137.8	146.0	156.3
Venezuela	411.1	441.7	383.2	410.0	418.3	407.0	390.7
<b>OPEC</b>	<b>4,388.6</b>	<b>4,817.9</b>	<b>4,720.8</b>	<b>4,899.7</b>	<b>5,089.4</b>	<b>5,192.2</b>	<b>5,437.1</b>

Note: Revisions have been made throughout the time series.



## 22 Table

World consumption of refined products by region, 1983–2003 (1,000 b/d)

	1983	1984	1985	1986	1987	1988	1989
North America	16,737.9	17,219.7	17,153.7	17,670.7	18,126.1	18,747.8	18,843.6
Latin America	4,174.9	4,183.2	4,263.8	4,484.6	4,659.1	4,736.3	4,873.8
Eastern Europe	10,335.2	10,226.6	10,134.5	10,162.3	10,235.8	10,161.3	9,988.1
Western Europe	11,758.4	11,810.4	11,691.1	12,080.4	12,215.1	12,463.9	12,487.6
Middle East	2,361.4	2,287.0	2,326.2	2,277.9	2,379.3	2,449.5	2,476.7
Africa	1,559.6	1,594.6	1,589.8	1,569.7	1,672.0	1,744.1	1,754.2
Asia and Pacific	9,756.2	10,032.9	10,032.9	10,382.7	10,831.9	11,585.7	12,334.6
<b>Total world</b>	<b>56,683.7</b>	<b>57,354.4</b>	<b>57,192.0</b>	<b>58,628.3</b>	<b>60,119.3</b>	<b>61,888.6</b>	<b>62,758.5</b>
OPEC	3,209.8	3,078.7	3,115.3	3,087.8	3,210.4	3,341.6	3,421.9
OPEC percentage	5.7	5.4	5.4	5.3	5.3	5.4	5.5

	1990	1991	1992	1993	1994	1995	1996
North America	18,369.0	18,029.4	18,343.6	18,628.1	19,181.0	19,195.5	19,829.8
Latin America	4,910.2	5,016.4	5,166.0	5,254.2	5,509.8	5,613.4	5,745.5
Eastern Europe	9,752.6	9,234.6	7,901.3	6,781.0	5,880.2	5,779.6	5,420.3
Western Europe	12,641.7	13,016.4	13,105.8	13,113.5	13,201.9	13,473.7	13,760.9
Middle East	2,582.4	2,646.5	2,950.8	3,121.5	3,158.4	3,191.5	3,279.6
Africa	1,778.3	1,748.0	1,796.8	1,799.1	1,790.7	1,897.9	1,958.1
Asia and Pacific	13,001.0	13,556.9	14,373.5	15,106.6	15,950.6	16,824.5	17,724.2
<b>Total world</b>	<b>63,035.1</b>	<b>63,248.1</b>	<b>63,637.8</b>	<b>63,804.1</b>	<b>64,672.6</b>	<b>65,976.1</b>	<b>67,718.3</b>
OPEC	3,590.3	3,619.5	3,971.9	4,069.4	4,084.3	4,128.8	4,276.9
OPEC percentage	5.7	5.7	6.2	6.4	6.3	6.3	6.3

	1997	1998	1999	2000	2001	2002	2003
North America	20,288.4	20,571.2	21,206.8	21,419.3	21,522.3	21,940.7	22,332.1
Latin America	6,038.3	6,299.6	6,259.3	6,347.4	6,276.9	6,192.6	6,189.7
Eastern Europe	5,558.0	5,404.1	5,147.0	4,858.3	5,161.5	4,979.8	5,059.6
Western Europe	13,830.2	14,064.4	13,991.0	13,899.0	13,993.9	13,835.2	13,899.6
Middle East	3,314.2	3,787.8	3,735.6	3,838.5	3,956.3	4,074.3	4,199.9
Africa	2,027.1	2,100.1	2,152.0	2,201.4	2,278.6	2,258.9	2,363.0
Asia and Pacific	18,558.1	17,955.9	18,947.8	19,541.3	19,529.7	19,990.5	20,857.1
<b>Total world</b>	<b>69,614.5</b>	<b>70,183.1</b>	<b>71,439.6</b>	<b>72,105.3</b>	<b>72,719.1</b>	<b>73,272.0</b>	<b>74,900.9</b>
OPEC	4,388.6	4,817.9	4,720.8	4,899.7	5,089.4	5,192.2	5,437.1
OPEC percentage	6.3	6.9	6.6	6.8	7.0	7.1	7.3

Note: Revisions have been made throughout the time series.

**Crude oil exports by OPEC Members, 1983–2003 (1,000 b/d)**

	1983	1984	1985	1986	1987	1988	1989
Algeria	260.4	181.6	272.0	255.0	240.0	244.0	280.5
Indonesia	858.3	876.3	705.7	793.8	701.0	646.6	675.7
IR Iran	1,718.7	1,521.8	1,568.3	1,454.0	1,710.0	1,696.0	2,120.0
Iraq	702.0	867.0	1,085.4	1,393.5	1,717.0	2,095.0	2,260.0
Kuwait	544.4	658.0	475.9	756.0	607.0	698.0	850.0
SP Libyan AJ	937.4	929.6	894.6	1,067.0	810.0	890.0	872.0
Nigeria	935.2	1,094.1	1,333.3	1,221.2	1,065.2	1,110.5	1,525.9
Qatar	279.5	386.2	280.0	307.0	254.0	305.0	320.0
Saudi Arabia	3,920.8	3,186.9	2,150.7	3,265.8	2,416.5	3,030.1	3,335.5
United Arab Emirates	1,077.3	1,036.7	977.7	1,132.0	1,250.0	1,345.0	1,650.0
Venezuela	976.7	998.9	825.9	948.7	1,026.9	972.7	986.3
<b>OPEC</b>	<b>12,210.7</b>	<b>11,737.1</b>	<b>10,569.5</b>	<b>12,594.0</b>	<b>11,797.6</b>	<b>13,032.9</b>	<b>14,875.9</b>

	1990	1991	1992	1993	1994	1995	1996
Algeria	280.6	344.7	279.4	308.0	329.2	332.8	390.8
Indonesia	684.7	798.8	652.0	681.6	792.6	743.9	706.7
IR Iran	2,220.0	2,420.0	2,528.0	2,600.0	2,650.0	2,621.0	2,630.0
Iraq	1,596.0	39.0	60.7	59.2	60.0	63.5	88.1
Kuwait	645.0	85.0	695.6	1,440.0	1,263.5	1,186.4	1,224.2
SP Libyan AJ	1,090.0	1,220.0	1,180.0	1,110.0	1,125.0	1,120.3	1,123.4
Nigeria	1,550.0	1,610.0	1,585.0	1,557.0	1,590.0	1,665.0	1,812.9
Qatar	347.8	336.6	362.3	340.6	322.6	333.0	367.0
Saudi Arabia	4,499.8	6,526.3	6,581.9	6,292.9	6,233.6	6,290.8	6,109.3
United Arab Emirates	1,895.0	2,195.0	2,060.0	1,970.0	1,955.0	1,925.0	1,943.2
Venezuela	1,242.0	1,381.3	1,429.0	1,540.3	1,696.4	1,819.9	1,976.4
<b>OPEC</b>	<b>16,050.9</b>	<b>16,956.7</b>	<b>17,413.9</b>	<b>17,899.6</b>	<b>18,017.9</b>	<b>18,101.6</b>	<b>18,372.0</b>

	1997	1998	1999	2000	2001	2002	2003
Algeria	373.1	549.4	414.6	461.1	441.5	566.2	741.0
Indonesia	709.7	678.0	781.9	622.5	599.2	609.9	650.2
IR Iran	2,587.0	2,512.0	2,291.0	2,492.2	2,184.6	2,093.6	2,396.3
Iraq	746.6	1,417.6	2,130.9	2,039.8	1,710.2	1,494.6	388.6
Kuwait	1,134.2	1,190.2	948.2	1,230.7	1,214.1	1,138.0	1,242.9
SP Libyan AJ	1,115.7	1,161.0	991.7	1,005.0	987.6	983.6	1,126.5
Nigeria	1,855.5	1,832.8	1,705.1	1,986.4	2,089.4	1,798.2	2,303.5
Qatar	465.0	572.4	580.5	617.6	605.5	580.8	540.7
Saudi Arabia	6,184.5	6,390.4	5,719.7	6,253.1	6,035.9	5,284.6	6,522.9
United Arab Emirates	1,949.0	2,039.0	1,919.0	1,814.9	1,786.7	1,614.0	2,048.0
Venezuela	2,210.8	2,243.9	1,923.0	2,003.5	1,964.7	1,572.0	1,535.0
<b>OPEC</b>	<b>19,331.1</b>	<b>20,586.9</b>	<b>19,405.5</b>	<b>20,526.7</b>	<b>19,619.4</b>	<b>17,735.6</b>	<b>19,495.7</b>

Notes: Data includes re-exports. Totals may not add up due to independent rounding.

1. Corresponds to a fiscal year ending March 20.

## 24 Table

## OPEC crude oil exports by region, 1983–2003 (1,000 b/d)

	1983	1984	1985	1986	1987	1988	1989
<b>North America</b>	<b>1,289.6</b>	<b>1,258.9</b>	<b>1,169.7</b>	<b>2,131.6</b>	<b>2,450.3</b>	<b>2,714.7</b>	<b>3,372.7</b>
United States	1,179.6	1,164.2	1,077.4	1,984.8	2,333.9	2,603.6	3,206.1
<b>Latin America</b>	<b>1,210.4</b>	<b>1,120.5</b>	<b>908.6</b>	<b>811.9</b>	<b>657.4</b>	<b>716.8</b>	<b>667.3</b>
<b>Eastern Europe</b>	<b>122.0</b>	<b>197.2</b>	<b>221.2</b>	<b>431.7</b>	<b>408.0</b>	<b>473.0</b>	<b>518.2</b>
<b>Western Europe</b>	<b>4,637.8</b>	<b>4,623.5</b>	<b>4,425.3</b>	<b>5,181.1</b>	<b>4,321.5</b>	<b>4,649.5</b>	<b>5,147.1</b>
France	875.1	840.3	709.7	795.4	484.4	542.3	639.9
Germany	653.8	498.7	414.4	522.2	467.7	561.0	651.3
Italy	1,052.5	1,027.8	986.8	1,142.2	997.6	888.1	982.0
United Kingdom	240.9	182.8	208.6	255.3	182.3	240.0	206.0
<b>Middle East</b>	<b>387.0</b>	<b>371.1</b>	<b>384.3</b>	<b>425.2</b>	<b>305.7</b>	<b>280.4</b>	<b>284.4</b>
<b>Africa</b>	<b>147.2</b>	<b>160.9</b>	<b>158.8</b>	<b>195.4</b>	<b>220.1</b>	<b>196.4</b>	<b>231.0</b>
<b>Asia and Pacific</b>	<b>4,372.2</b>	<b>3,952.0</b>	<b>3,293.1</b>	<b>3,417.1</b>	<b>3,434.3</b>	<b>3,959.4</b>	<b>4,655.2</b>
Japan	2,699.2	2,709.5	2,301.2	2,166.6	2,291.2	2,321.6	2,682.5
<b>Unspecified</b>	<b>44.5</b>	<b>53.0</b>	<b>8.5</b>	<b>–</b>	<b>0.3</b>	<b>42.7</b>	<b>–</b>
<b>Total world</b>	<b>12,210.7</b>	<b>11,737.1</b>	<b>10,569.5</b>	<b>12,594.0</b>	<b>11,797.6</b>	<b>13,032.9</b>	<b>14,875.9</b>

	1990	1991	1992	1993	1994	1995	1996
<b>North America</b>	<b>3,770.0</b>	<b>3,714.4</b>	<b>3,391.2</b>	<b>3,690.1</b>	<b>3,768.1</b>	<b>3,676.8</b>	<b>3,689.2</b>
United States	3,570.6	3,511.5	3,306.5	3,542.2	3,555.3	3,439.9	3,463.4
<b>Latin America</b>	<b>708.9</b>	<b>661.4</b>	<b>844.0</b>	<b>766.8</b>	<b>810.6</b>	<b>675.0</b>	<b>800.4</b>
<b>Eastern Europe</b>	<b>332.0</b>	<b>230.0</b>	<b>241.6</b>	<b>142.9</b>	<b>174.5</b>	<b>197.9</b>	<b>183.9</b>
<b>Western Europe</b>	<b>5,362.9</b>	<b>5,552.6</b>	<b>5,515.9</b>	<b>5,578.4</b>	<b>5,267.5</b>	<b>5,110.1</b>	<b>5,053.6</b>
France	730.6	858.3	837.0	1,025.6	892.5	882.9	839.8
Germany	700.3	738.9	741.1	626.5	744.8	597.9	576.2
Italy	1,134.6	1,235.4	1,142.4	1,120.0	938.9	1,028.9	1,113.6
United Kingdom	296.8	285.4	270.3	347.5	231.0	203.5	183.8
<b>Middle East</b>	<b>300.9</b>	<b>286.9</b>	<b>309.3</b>	<b>298.8</b>	<b>313.3</b>	<b>304.2</b>	<b>312.4</b>
<b>Africa</b>	<b>294.3</b>	<b>356.7</b>	<b>281.3</b>	<b>277.0</b>	<b>296.2</b>	<b>506.0</b>	<b>517.3</b>
<b>Asia and Pacific</b>	<b>5,281.9</b>	<b>6,154.7</b>	<b>6,805.1</b>	<b>7,124.6</b>	<b>7,387.7</b>	<b>7,620.7</b>	<b>7,759.3</b>
Japan	2,964.5	3,128.2	3,253.5	3,371.2	3,598.7	3,598.0	3,558.2
<b>Unspecified</b>	<b>–</b>	<b>–</b>	<b>25.5</b>	<b>21.0</b>	<b>–</b>	<b>10.9</b>	<b>55.9</b>
<b>Total world</b>	<b>16,050.9</b>	<b>16,956.7</b>	<b>17,413.9</b>	<b>17,899.6</b>	<b>18,017.9</b>	<b>18,101.6</b>	<b>18,372.0</b>

	1997	1998	1999	2000	2001	2002	2003
<b>North America</b>	<b>4,214.0</b>	<b>4,731.0</b>	<b>4,455.1</b>	<b>4,798.0</b>	<b>4,945.7</b>	<b>4,286.8</b>	<b>4,144.4</b>
United States	3,960.2	4,448.1	4,175.6	4,515.9	4,640.8	3,937.0	3,761.5
<b>Latin America</b>	<b>713.1</b>	<b>771.4</b>	<b>826.2</b>	<b>913.5</b>	<b>920.1</b>	<b>759.9</b>	<b>803.4</b>
<b>Eastern Europe</b>	<b>234.0</b>	<b>247.6</b>	<b>181.3</b>	<b>205.1</b>	<b>152.7</b>	<b>126.5</b>	<b>153.9</b>
<b>Western Europe</b>	<b>5,307.1</b>	<b>5,827.3</b>	<b>4,981.0</b>	<b>5,112.4</b>	<b>4,349.1</b>	<b>3,933.9</b>	<b>4,087.8</b>
France	850.1	992.9	824.5	804.7	718.5	635.4	692.8
Germany	532.4	550.1	478.5	499.7	419.0	376.1	367.6
Italy	1,258.9	1,357.6	1,188.7	1,212.2	1,027.4	1,033.5	1,033.8
United Kingdom	134.5	148.5	86.8	76.2	83.5	127.6	112.4
<b>Middle East</b>	<b>307.8</b>	<b>310.1</b>	<b>293.6</b>	<b>272.1</b>	<b>271.2</b>	<b>238.9</b>	<b>236.0</b>
<b>Africa</b>	<b>563.7</b>	<b>578.4</b>	<b>557.7</b>	<b>621.8</b>	<b>559.0</b>	<b>491.0</b>	<b>688.9</b>
<b>Asia and Pacific</b>	<b>7,985.9</b>	<b>8,104.1</b>	<b>7,900.1</b>	<b>8,271.8</b>	<b>8,078.5</b>	<b>7,844.2</b>	<b>8,990.7</b>
Japan	3,743.3	3,563.2	3,492.8	3,542.5	2,991.6	3,830.9	3,837.3
<b>Unspecified</b>	<b>5.4</b>	<b>16.8</b>	<b>210.5</b>	<b>332.1</b>	<b>343.0</b>	<b>84.2</b>	<b>390.5</b>
<b>Total world</b>	<b>19,331.1</b>	<b>20,586.9</b>	<b>19,405.5</b>	<b>20,526.7</b>	<b>19,619.4</b>	<b>17,765.5</b>	<b>19,495.7</b>

Note: Data includes re-exports.



Share of total OPEC crude oil exports by region, 1983–2003 (per cent)

	1983	1984	1985	1986	1987	1988	1989
<b>North America</b>	10.6	10.7	11.1	16.9	20.8	20.8	22.7
United States	9.7	9.9	10.2	15.8	19.8	20.0	21.6
<b>Latin America</b>	9.9	9.5	8.6	6.4	5.6	5.5	4.5
<b>Eastern Europe</b>	1.0	1.7	2.1	3.4	3.5	3.6	3.5
<b>Western Europe</b>	38.0	39.4	41.9	41.1	36.6	35.7	34.6
France	7.2	7.2	6.7	6.3	4.1	4.2	4.3
Germany	5.4	4.2	3.9	4.1	4.0	4.3	4.4
Italy	8.6	8.8	9.3	9.1	8.5	6.8	6.6
United Kingdom	2.0	1.6	2.0	2.0	1.5	1.8	1.4
<b>Middle East</b>	3.2	3.2	3.6	3.4	2.6	2.2	1.9
<b>Africa</b>	1.2	1.4	1.5	1.6	1.9	1.5	1.6
<b>Asia and Pacific</b>	35.8	33.7	31.2	27.1	29.1	30.4	31.3
Japan	22.1	23.1	21.8	17.2	19.4	17.8	18.0
<b>Unspecified</b>	0.4	0.5	0.1	–	–	0.3	–
<b>Total world</b>	100	100	100	100	100	100	100

	1990	1991	1992	1993	1994	1995	1996
<b>North America</b>	23.5	21.9	19.5	20.6	20.9	20.3	20.1
United States	22.2	20.7	19.0	19.8	19.7	19.0	18.9
<b>Latin America</b>	4.4	3.9	4.8	4.3	4.5	3.7	4.4
<b>Eastern Europe</b>	2.1	1.4	1.4	0.8	1.0	1.1	1.0
<b>Western Europe</b>	33.4	32.7	31.7	31.2	29.2	28.2	27.5
France	4.6	5.1	4.8	5.7	5.0	4.9	4.6
Germany	4.4	4.4	4.3	3.5	4.1	3.3	3.1
Italy	7.1	7.3	6.6	6.3	5.2	5.7	6.1
United Kingdom	1.8	1.7	1.6	1.9	1.3	1.1	1.0
<b>Middle East</b>	1.9	1.7	1.8	1.7	1.7	1.7	1.7
<b>Africa</b>	1.8	2.1	1.6	1.5	1.6	2.8	2.8
<b>Asia and Pacific</b>	32.9	36.3	39.1	39.8	41.0	42.1	42.2
Japan	18.5	18.4	18.7	18.8	20.0	19.9	19.4
<b>Unspecified</b>	–	–	0.1	0.1	–	0.1	0.3
<b>Total world</b>	100	100	100	100	100	100	100

	1997	1998	1999	2000	2001	2002	2003
<b>North America</b>	21.8	23.0	23.0	23.4	25.2	24.1	21.3
United States	20.5	21.6	21.5	22.0	23.7	22.2	19.3
<b>Latin America</b>	3.7	3.7	4.3	4.5	4.7	4.3	4.1
<b>Eastern Europe</b>	1.2	1.2	0.9	1.0	0.8	0.7	0.8
<b>Western Europe</b>	27.5	28.3	25.7	24.9	22.2	22.1	21.0
France	4.4	4.8	4.2	3.9	3.7	3.6	3.6
Germany	2.8	2.7	2.5	2.4	2.1	2.1	1.9
Italy	6.5	6.6	6.1	5.9	5.2	5.8	5.3
United Kingdom	0.7	0.7	0.4	0.4	0.4	0.7	0.6
<b>Middle East</b>	1.6	1.5	1.5	1.3	1.4	1.3	1.2
<b>Africa</b>	2.9	2.8	2.9	3.0	2.8	2.8	3.5
<b>Asia and Pacific</b>	41.3	39.4	40.7	40.3	41.2	44.2	46.1
Japan	19.4	17.3	18.0	17.3	15.2	21.6	19.7
<b>Unspecified</b>	–	0.1	1.1	1.6	1.7	0.5	2.0
<b>Total world</b>	100	100	100	100	100	100	100

Note: Data includes re-exports.

## 26 Table

## World crude oil exports by region, 1983–2003 (1,000 b/d)

	1983	1984	1985	1986	1987	1988	1989
North America	446.0	533.5	687.0	736.3	771.0	864.4	788.3
Latin America	2,825.0	2,842.8	2,613.3	2,649.0	2,764.3	2,735.1	2,716.0
Eastern Europe	2,515.1	2,563.1	2,299.3	2,535.1	2,684.6	2,822.9	2,502.1
Western Europe	1,951.5	2,226.6	2,346.2	2,523.7	2,597.5	2,512.6	2,461.3
Middle East	8,705.1	8,122.2	7,072.9	8,880.2	8,585.1	9,960.7	11,430.2
Africa	3,000.4	3,243.1	3,662.7	3,679.4	3,366.1	3,539.5	4,053.1
Asia and Pacific	1,726.5	1,977.8	1,959.2	2,007.6	1,880.2	1,893.1	1,878.5
<b>Total world</b>	<b>21,169.6</b>	<b>21,509.1</b>	<b>20,640.6</b>	<b>23,011.3</b>	<b>22,648.8</b>	<b>24,328.3</b>	<b>25,829.5</b>
OPEC	12,210.7	11,737.1	10,569.5	12,594.0	11,797.6	13,032.9	14,875.9
OPEC percentage	57.7	54.6	51.2	54.7	52.1	53.6	57.6

	1990	1991	1992	1993	1994	1995	1996
North America	763.0	878.7	926.4	1,015.5	1,081.3	1,152.5	1,182.3
Latin America	3,001.0	3,219.6	3,340.0	3,496.2	3,743.3	4,075.4	4,585.6
Eastern Europe	2,132.9	1,215.0	1,479.7	1,802.0	1,878.1	1,888.9	2,069.0
Western Europe	2,650.6	2,935.5	3,178.8	3,475.8	4,172.3	4,281.3	4,408.7
Middle East	12,212.3	12,607.9	13,332.9	13,888.5	13,764.0	13,795.6	13,820.0
Africa	4,364.3	4,697.9	4,599.7	4,534.6	4,401.3	4,571.9	4,876.0
Asia and Pacific	2,099.1	2,303.5	2,228.9	2,245.2	2,301.5	2,284.8	2,214.9
<b>Total world</b>	<b>27,223.2</b>	<b>27,858.1</b>	<b>29,086.5</b>	<b>30,457.8</b>	<b>31,341.8</b>	<b>32,050.4</b>	<b>33,156.5</b>
OPEC	16,050.9	16,956.7	17,413.9	17,899.6	18,017.9	18,101.6	18,372.0
OPEC percentage	59.0	60.9	59.9	58.8	57.5	56.5	55.4

	1997	1998	1999	2000*	2001*	2002*	2003*
North America	1,139.6	1,258.7	1,168.0	1,226.7	1,150.4	1,447.4	1,575.7
Latin America	5,061.7	5,188.5	4,715.5	5,039.5	5,060.9	4,610.8	4,768.4
Eastern Europe	2,177.9	3,045.3	3,440.9	4,144.9	4,593.9	5,583.7	6,482.2
Western Europe	4,553.9	4,510.9	4,646.6	4,960.0	4,853.4	4,763.5	4,371.5
Middle East	14,553.7	15,597.9	15,147.0	16,016.5	15,129.2	13,781.9	14,707.7
Africa	5,035.2	5,226.1	4,863.0	5,172.4	5,261.5	5,153.4	5,968.1
Asia and Pacific	2,275.6	2,210.7	2,222.1	2,266.2	2,212.8	2,214.1	2,191.8
<b>Total world</b>	<b>34,797.6</b>	<b>37,038.2</b>	<b>36,203.0</b>	<b>38,826.3</b>	<b>38,262.1</b>	<b>37,554.8</b>	<b>40,065.8</b>
OPEC	19,331.1	20,586.9	19,405.5	20,526.7	19,619.4	17,735.6	19,495.7
OPEC percentage	55.6	55.6	53.6	52.9	51.3	47.2	48.7

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

**Exports of refined products by OPEC Members, 1983–2003 (1,000 b/d)**

	1983	1984	1985	1986	1987	1988	1989
Algeria	291.6	399.9	320.0	376.0	365.0	375.0	393.3
Indonesia	130.2	191.9	149.8	159.3	187.9	204.9	230.8
IR Iran	57.0	56.7	39.4	10.0	3.0	8.0	38.0
Iraq	38.3	49.6	12.3	7.8	110.0	110.0	145.0
Kuwait	414.3	394.9	492.9	525.0	553.0	635.0	690.0
SP Libyan AJ	78.7	76.8	90.9	101.9	110.5	90.0	127.5
Nigeria	16.3	20.0	20.0	8.8	15.7	21.0	30.0
Qatar	16.8	26.0	28.3	36.0	41.1	44.0	75.0
Saudi Arabia	389.2	442.1	574.3	712.3	1,021.4	1,141.0	1,072.6
United Arab Emirates	60.7	97.7	92.1	111.6	114.0	117.0	155.0
Venezuela	507.6	502.3	530.7	572.1	477.3	622.5	617.7
<b>OPEC</b>	<b>2,000.7</b>	<b>2,257.9</b>	<b>2,350.7</b>	<b>2,620.8</b>	<b>2,998.9</b>	<b>3,368.4</b>	<b>3,574.9</b>

	1990	1991	1992	1993	1994	1995	1996
Algeria	452.8	400.0	419.1	374.6	384.0	395.8	406.1
Indonesia	239.7	230.0	254.4	239.1	250.1	294.1	297.1
IR Iran	60.0	88.0	70.0	70.0	119.5	165.6	172.5
Iraq	126.2	11.5	16.1	17.6	17.8	18.3	23.6
Kuwait	380.0	40.0	256.0	419.0	622.3	794.2	751.5
SP Libyan AJ	150.0	140.0	170.0	142.0	130.0	132.7	125.3
Nigeria	30.0	31.0	30.0	32.5	25.0	38.8	22.6
Qatar	74.0	81.6	103.8	116.2	103.0	98.0	107.0
Saudi Arabia	1,305.8	1,226.1	1,287.6	1,385.7	1,360.1	1,321.6	1,492.0
United Arab Emirates	165.0	170.0	173.0	160.0	155.0	269.1	271.9
Venezuela	616.8	712.0	615.2	634.5	633.5	688.3	742.1
<b>OPEC</b>	<b>3,600.3</b>	<b>3,130.2</b>	<b>3,395.2</b>	<b>3,591.2</b>	<b>3,800.3</b>	<b>4,216.5</b>	<b>4,411.7</b>

	1997	1998	1999	2000	2001	2002	2003
Algeria	462.3	461.9	599.7	544.3	555.8	527.2	528.3
Indonesia	257.3	220.8	191.9	188.8	196.3	152.4	155.3
IR Iran	225.9	277.8	362.9	347.3	307.7	328.0	333.2
Iraq	18.9	23.0	23.0	23.0	25.0	22.5	10.5
Kuwait	848.0	795.0	838.6	674.5	642.3	572.2	623.1
SP Libyan AJ	147.9	168.6	201.2	237.0	225.0	221.1	145.4
Nigeria	25.3	3.8	14.1	47.3	65.7	78.2	67.7
Qatar	125.0	95.1	75.3	75.3	78.1	67.3	61.5
Saudi Arabia	1,392.9	1,368.9	1,279.7	1,228.1	1,082.6	993.5	1,128.6
United Arab Emirates	323.1	319.1	331.0	391.7	398.2	485.5	513.6
Venezuela	841.5	846.2	828.0	779.6	761.1	569.7	485.0
<b>OPEC</b>	<b>4,668.0</b>	<b>4,580.2</b>	<b>4,745.3</b>	<b>4,536.8</b>	<b>4,337.8</b>	<b>4,017.6</b>	<b>4,052.2</b>

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

## 28 Table

## World exports of refined products by region, 1983–2003 (1,000 b/d)

	1983	1984	1985	1986	1987	1988	1989
North America	802.8	777.8	818.4	813.1	829.4	955.9	1,005.8
Latin America	1,749.5	1,736.0	1,473.2	1,454.5	1,429.2	1,599.9	1,651.6
Eastern Europe	1,500.4	1,463.4	1,372.1	1,552.9	1,584.4	1,561.4	1,519.1
Western Europe	3,064.4	3,012.8	2,990.2	3,336.8	3,245.4	3,331.6	3,443.0
Middle East	1,249.0	1,361.6	1,533.4	1,756.6	2,212.6	2,418.2	2,550.7
Africa	488.9	607.4	539.3	599.0	637.1	642.0	726.9
Asia and Pacific	1,061.4	1,196.2	1,151.7	1,247.3	1,333.9	1,354.6	1,539.8
<b>Total world</b>	<b>9,916.4</b>	<b>10,155.2</b>	<b>9,878.3</b>	<b>10,760.2</b>	<b>11,272.0</b>	<b>11,863.6</b>	<b>12,436.9</b>
OPEC	2,000.7	2,257.9	2,350.7	2,620.8	2,998.9	3,368.4	3,574.9
OPEC percentage	20.2	22.2	23.8	24.4	26.6	28.4	28.7

	1990	1991	1992	1993	1994	1995	1996
North America	1,071.8	1,230.8	1,187.9	1,123.7	1,123.7	1,109.1	1,178.7
Latin America	1,651.4	1,755.2	1,669.7	1,827.8	1,787.1	1,760.1	1,832.4
Eastern Europe	1,169.6	996.2	759.8	913.0	1,018.1	1,007.4	1,150.7
Western Europe	3,637.9	3,673.4	3,855.3	4,047.1	4,090.2	3,693.6	3,913.2
Middle East	2,509.9	2,005.8	2,308.9	2,551.4	2,765.7	3,023.7	3,197.3
Africa	828.4	779.3	845.7	826.3	852.7	867.1	871.0
Asia and Pacific	1,608.3	1,665.6	1,821.0	1,968.4	2,088.6	2,344.1	2,668.2
<b>Total world</b>	<b>12,477.3</b>	<b>12,106.2</b>	<b>12,448.3</b>	<b>13,257.8</b>	<b>13,726.0</b>	<b>13,805.2</b>	<b>14,811.6</b>
OPEC	3,600.3	3,130.2	3,395.2	3,591.2	3,800.3	4,216.5	4,411.7
OPEC percentage	28.9	25.9	27.3	27.1	27.7	30.5	29.8

	1997	1998	1999*	2000*	2001*	2002*	2003*
North America	1,230.3	1,114.3	1,114.3	1,274.7	1,377.5	1,414.6	1,482.1
Latin America	1,988.2	2,122.2	2,106.8	2,094.3	2,201.1	2,002.4	2,068.6
Eastern Europe	1,177.6	1,064.8	1,089.5	1,272.3	1,456.2	1,800.7	1,879.1
Western Europe	4,000.7	4,022.5	4,025.5	4,171.0	4,171.0	4,222.0	4,566.0
Middle East	3,335.9	3,284.2	3,302.1	3,140.3	2,962.6	2,876.0	3,096.7
Africa	1,049.4	957.6	1,162.2	1,172.7	1,213.6	1,193.8	1,113.9
Asia and Pacific	2,930.8	2,881.0	2,826.2	2,788.5	2,803.6	2,569.8	2,739.1
<b>Total world</b>	<b>15,713.0</b>	<b>15,446.5</b>	<b>15,626.7</b>	<b>15,913.6</b>	<b>16,185.4</b>	<b>16,079.3</b>	<b>16,945.4</b>
OPEC	4,668.0	4,580.2	4,745.3	4,536.8	4,337.8	4,017.6	4,052.2
OPEC percentage	29.7	29.7	30.4	28.5	26.8	25.0	23.9

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



**Exports of crude oil and refined products by OPEC Members, 1983–2003 (1,000 b/d)**

	1983	1984	1985	1986	1987	1988	1989
Algeria	552.0	581.5	592.0	631.0	605.0	619.0	673.8
Indonesia	988.5	1,068.2	855.5	953.1	888.9	851.5	906.5
IR Iran	1,775.7	1,578.5	1,607.7	1,464.0	1,713.0	1,704.0	2,158.0
Iraq	740.3	916.6	1,097.7	1,401.3	1,827.0	2,205.0	2,405.0
Kuwait	958.7	1,052.9	968.8	1,281.0	1,160.0	1,333.0	1,540.0
SP Libyan AJ	1,016.1	1,006.4	985.5	1,168.9	920.5	980.0	999.5
Nigeria	951.5	1,114.1	1,353.3	1,230.0	1,080.9	1,131.5	1,555.9
Qatar	296.3	412.2	308.3	343.0	295.1	349.0	395.0
Saudi Arabia	4,310.0	3,629.0	2,725.0	3,978.1	3,437.9	4,171.1	4,408.1
United Arab Emirates	1,138.0	1,134.4	1,069.8	1,243.6	1,364.0	1,462.0	1,805.0
Venezuela	1,484.3	1,501.2	1,356.6	1,520.8	1,504.2	1,595.2	1,604.0
<b>OPEC</b>	<b>14,211.4</b>	<b>13,995.0</b>	<b>12,920.2</b>	<b>15,214.8</b>	<b>14,796.5</b>	<b>16,401.3</b>	<b>18,450.8</b>

	1990	1991	1992	1993	1994	1995	1996
Algeria	733.4	744.7	698.5	682.6	713.2	728.6	796.9
Indonesia	924.4	1,028.8	906.4	920.7	1,042.7	1,038.0	1,003.8
IR Iran	2,280.0	2,508.0	2,598.0	2,670.0	2,769.5	2,786.6	2,802.5
Iraq	1,722.2	50.5	76.8	76.9	77.8	81.8	111.7
Kuwait	1,025.0	125.0	951.6	1,859.0	1,885.8	1,980.6	1,975.7
SP Libyan AJ	1,240.0	1,360.0	1,350.0	1,252.0	1,255.0	1,253.0	1,248.7
Nigeria	1,580.0	1,641.0	1,615.0	1,589.5	1,615.0	1,703.8	1,835.5
Qatar	421.8	418.2	466.1	456.8	425.6	431.0	474.0
Saudi Arabia	5,805.6	7,752.4	7,869.5	7,678.6	7,593.7	7,612.4	7,601.3
United Arab Emirates	2,060.0	2,365.0	2,233.0	2,130.0	2,110.0	2,194.1	2,215.1
Venezuela	1,858.8	2,093.3	2,044.2	2,174.8	2,329.9	2,508.2	2,718.5
<b>OPEC</b>	<b>19,651.2</b>	<b>20,086.9</b>	<b>20,809.2</b>	<b>21,490.9</b>	<b>21,818.3</b>	<b>22,318.1</b>	<b>22,783.7</b>

	1997	1998	1999	2000	2001 <sup>1</sup>	2002	2003
Algeria	835.4	1,011.3	1,014.2	1,005.3	997.3	1,093.5	1,269.3
Indonesia	967.0	898.8	973.8	811.3	795.5	762.3	805.5
IR Iran	2,812.9	2,789.8	2,653.9	2,839.5	2,492.3	2,421.6	2,729.5
Iraq	765.5	1,440.6	2,153.9	2,062.8	1,735.2	1,517.1	399.1
Kuwait	1,982.2	1,985.2	1,786.7	1,905.2	1,856.4	1,710.2	1,866.0
SP Libyan AJ	1,263.6	1,329.6	1,192.9	1,242.0	1,212.6	1,204.6	1,271.9
Nigeria	1,880.8	1,836.7	1,719.2	2,033.7	2,155.2	1,876.4	2,371.2
Qatar	590.0	667.5	655.8	692.9	683.6	648.1	602.2
Saudi Arabia	7,577.4	7,759.3	6,999.3	7,481.2	7,118.4	6,278.1	7,651.5
United Arab Emirates	2,272.1	2,358.1	2,250.0	2,206.6	2,184.9	2,099.5	2,561.6
Venezuela	3,052.3	3,090.1	2,751.0	2,783.1	2,725.8	2,141.7	2,020.0
<b>OPEC</b>	<b>23,999.2</b>	<b>25,167.1</b>	<b>24,150.8</b>	<b>25,063.6</b>	<b>23,957.2</b>	<b>21,753.2</b>	<b>23,547.8</b>

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

1. Corresponds to a fiscal year ending March 20.

## 30 Table

World exports of crude oil and refined products by region, 1983–2003 (1,000 b/d)

	1983	1984	1985	1986	1987	1988	1989
North America	1,248.8	1,311.3	1,505.4	1,549.4	1,600.4	1,820.3	1,794.1
Latin America	4,574.5	4,578.8	4,086.5	4,103.5	4,193.5	4,335.0	4,367.6
Eastern Europe	4,015.5	4,026.5	3,671.4	4,088.0	4,269.0	4,384.3	4,021.2
Western Europe	5,015.9	5,239.4	5,336.4	5,860.5	5,842.9	5,844.2	5,904.3
Middle East	9,954.1	9,483.8	8,606.3	10,636.8	10,797.7	12,378.9	13,980.9
Africa	3,489.3	3,850.5	4,202.0	4,278.4	4,003.2	4,181.5	4,780.0
Asia and Pacific	2,787.9	3,174.0	3,110.9	3,254.9	3,214.1	3,247.7	3,418.3
<b>Total world</b>	<b>31,085.9</b>	<b>31,664.3</b>	<b>30,518.9</b>	<b>33,771.5</b>	<b>33,920.9</b>	<b>36,191.9</b>	<b>38,266.4</b>
OPEC	14,211.4	13,995.0	12,920.2	15,214.8	14,796.5	16,401.3	18,450.8
OPEC percentage	45.7	44.2	42.3	45.1	43.6	45.3	48.2

	1990	1991	1992	1993	1994	1995	1996
North America	1,834.8	2,109.5	2,114.3	2,139.2	2,205.0	2,261.6	2,361.0
Latin America	4,652.4	4,974.8	5,009.7	5,324.0	5,530.3	5,835.5	6,418.0
Eastern Europe	3,302.5	2,211.2	2,239.5	2,715.0	2,896.2	2,896.3	3,219.7
Western Europe	6,288.5	6,608.9	7,034.1	7,522.9	8,262.5	7,974.9	8,321.9
Middle East	14,722.2	14,613.7	15,641.9	16,439.9	16,529.7	16,819.3	17,017.3
Africa	5,192.7	5,477.2	5,445.4	5,360.8	5,254.0	5,439.0	5,747.0
Asia and Pacific	3,707.4	3,969.1	4,049.9	4,213.6	4,390.1	4,629.0	4,883.0
<b>Total world</b>	<b>39,700.5</b>	<b>39,964.3</b>	<b>41,534.8</b>	<b>43,715.5</b>	<b>45,067.8</b>	<b>45,855.5</b>	<b>47,968.1</b>
OPEC	19,651.2	20,086.9	20,809.2	21,490.9	21,818.3	22,318.1	22,783.7
OPEC percentage	49.5	50.3	50.1	49.2	48.4	48.7	47.5

	1997	1998	1999	2000*	2001*	2002*	2003*
North America	2,369.9	2,373.0	2,282.3	2,501.4	2,527.9	2,862.0	3,057.8
Latin America	7,049.9	7,310.7	6,822.3	7,133.8	7,262.0	6,613.3	6,837.3
Eastern Europe	3,355.5	4,110.1	4,530.4	5,417.2	6,050.0	7,384.4	8,361.3
Western Europe	8,554.6	8,533.4	8,672.1	9,131.0	9,024.4	8,985.5	8,937.5
Middle East	17,889.6	18,882.0	18,449.1	19,156.8	18,091.8	16,657.9	17,804.4
Africa	6,084.7	6,183.7	6,025.1	6,345.1	6,475.0	6,347.1	7,082.0
Asia and Pacific	5,206.4	5,091.7	5,048.3	5,054.6	5,016.4	4,784.0	4,931.8
<b>Total world</b>	<b>50,510.5</b>	<b>52,484.7</b>	<b>51,829.7</b>	<b>54,739.9</b>	<b>54,447.5</b>	<b>53,634.1</b>	<b>57,012.0</b>
OPEC	23,999.2	25,167.1	24,150.8	25,063.6	23,957.2	21,753.2	23,547.8
OPEC percentage	47.5	48.0	46.6	45.8	44.0	40.6	41.3

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



**Natural gas exports by OPEC Members, 1983–2003** (million standard cu m)

	1983	1984	1985	1986	1987	1988	1989
Algeria	18,361	18,924	21,640	20,440	25,750	26,120	29,420
Indonesia	12,962	18,978	20,250	20,342	22,121	24,580	24,870
IR Iran	–	–	–	–	–	–	–
Iraq	–	–	–	650	2,750	3,100	3,600
Kuwait	–	–	–	–	–	–	–
SP Libyan AJ	770	970	1,230	860	800	1,060	1,430
Nigeria	–	–	–	–	–	–	–
Qatar	–	–	–	–	–	–	–
Saudi Arabia	–	–	–	–	–	–	–
United Arab Emirates	2,476	2,874	3,036	3,004	2,869	3,180	3,110
Venezuela	–	–	–	–	–	–	–
<b>OPEC</b>	<b>34,569</b>	<b>41,746</b>	<b>46,156</b>	<b>45,296</b>	<b>54,290</b>	<b>58,040</b>	<b>62,430</b>

	1990	1991	1992	1993	1994	1995	1996
Algeria	31,330	33,890	35,488	35,054	31,693	37,356	40,970
Indonesia	27,530	29,710	31,630	31,800	35,150	33,310	35,280
IR Iran	1,500	3,010	–	500	–	100	100
Iraq	2,000	–	–	–	–	–	–
Kuwait	–	–	–	–	–	–	–
SP Libyan AJ	1,240	1,580	1,840	1,600	1,480	1,490	1,200
Nigeria	–	–	–	–	–	–	–
Qatar	–	–	–	–	–	–	–
Saudi Arabia	–	–	–	–	–	–	–
United Arab Emirates	3,200	3,450	3,420	3,350	4,150	6,530	6,740
Venezuela	–	–	–	–	–	–	–
<b>OPEC</b>	<b>66,800</b>	<b>71,640</b>	<b>72,378</b>	<b>72,304</b>	<b>72,473</b>	<b>78,786</b>	<b>84,290</b>

	1997	1998	1999	2000	2001	2002	2003
Algeria	48,740	52,690	59,320	61,693	56,975	57,864	59,850
Indonesia	35,280	36,400	39,120	36,220	32,910	37,685	39,400
IR Iran	–	–	–	–	358	670	3,413
Iraq	–	–	–	–	–	–	–
Kuwait	–	–	–	–	–	–	–
SP Libyan AJ	1,120	910	960	800	790	630	750
Nigeria	–	–	740	5,730	8,690	8,633	11,790
Qatar	2,860	4,790	8,100	14,040	16,540	18,390	20,245
Saudi Arabia	–	–	–	–	–	–	–
United Arab Emirates	7,310	6,720	7,070	6,950	7,460	7,113	7,187
Venezuela	–	–	–	–	–	–	–
<b>OPEC</b>	<b>95,310</b>	<b>101,510</b>	<b>115,310</b>	<b>125,433</b>	<b>123,723</b>	<b>130,985</b>	<b>142,635</b>

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

## 32 Table

World natural gas exports by region, 1983–2003 (million standard cu m)

	1983	1984	1985	1986	1987	1988	1989
North America	21,707	22,941	27,662	22,712	29,423	37,660	40,410
Latin America	4,352	3,708	2,210	2,210	2,270	2,230	2,210
Eastern Europe	59,354	66,888	69,250	77,400	83,480	88,830	103,480
Western Europe	65,061	70,514	68,135	61,670	63,390	59,210	64,810
Middle East	2,476	2,874	3,036	3,654	5,619	6,280	6,710
Africa	19,131	19,894	22,870	21,300	26,550	27,180	30,850
Asia and Pacific	24,144	32,904	35,509	36,453	38,698	41,110	41,600
<b>Total world</b>	<b>196,225</b>	<b>219,723</b>	<b>228,672</b>	<b>225,399</b>	<b>249,430</b>	<b>262,500</b>	<b>290,070</b>
OPEC	34,569	41,746	46,156	45,296	54,290	58,040	62,430
OPEC percentage	17.6	19.0	20.2	20.1	21.8	22.1	21.5

	1990	1991	1992	1993	1994	1995	1996
North America	43,130	51,030	63,680	67,545	75,340	83,791	85,638
Latin America	2,200	2,220	2,200	2,127	2,180	2,178	2,436
Eastern Europe	110,200	105,200	99,100	100,900	106,730	117,270	123,460
Western Europe	62,240	67,710	71,910	74,440	73,870	71,370	90,120
Middle East	6,700	6,460	3,420	3,850	4,160	7,130	7,340
Africa	32,570	35,470	37,328	36,654	33,173	38,846	42,170
Asia and Pacific	47,290	51,470	55,810	57,930	64,040	66,660	72,700
<b>Total world</b>	<b>304,330</b>	<b>319,560</b>	<b>333,448</b>	<b>343,446</b>	<b>359,493</b>	<b>387,245</b>	<b>423,864</b>
OPEC	66,800	71,640	72,378	72,304	72,473	78,786	84,290
OPEC percentage	21.9	22.4	21.7	21.1	20.2	20.3	19.9

	1997	1998	1999	2000	2001	2002	2003
North America	86,370	90,630	99,240	108,445	117,781	122,220	116,483
Latin America	2,981	3,825	8,750	10,540	13,870	16,000	23,260
Eastern Europe	116,450	121,100	127,490	131,670	130,590	130,410	137,080
Western Europe	89,660	88,480	95,500	109,490	114,380	131,340	143,940
Middle East	10,670	12,010	15,670	23,700	31,788	34,633	40,255
Africa	49,860	53,600	61,020	68,223	66,455	67,127	72,390
Asia and Pacific	74,830	76,000	79,490	78,480	78,600	83,755	91,430
<b>Total world</b>	<b>430,821</b>	<b>445,645</b>	<b>487,160</b>	<b>530,548</b>	<b>553,464</b>	<b>585,485</b>	<b>624,838</b>
OPEC	95,310	101,510	115,310	125,433	123,723	130,985	142,635
OPEC percentage	22.1	22.8	23.7	23.6	22.4	22.4	22.8

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

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## World proven crude oil reserves by country, 1999–2003 (m b)

	1999	2000	2001	2002	2003	% change 03/02
<b>North America</b>	<b>26,468.8</b>	<b>26,900.9</b>	<b>27,101.1</b>	<b>27,167.0</b>	<b>27,200.0</b>	<b>0.1</b>
Canada <sup>1</sup>	4,703.8	4,855.9	4,655.1	4,490.0	4,500.0	0.2
United States	21,765.0	22,045.0	22,446.0	22,677.0	22,700.0	0.1
<b>Latin America</b>	<b>123,790.6</b>	<b>119,669.6</b>	<b>123,999.4</b>	<b>116,627.4</b>	<b>116,437.5</b>	<b>-0.2</b>
Argentina	3,071.0	2,974.0	2,878.0	2,820.0	3,193.0	13.2
Brazil	8,153.0	8,465.0	8,496.0	9,805.0	10,602.0	8.1
Colombia	2,290.0	1,970.0	1,840.0	1,800.0	1,500.0	-16.7
Ecuador	3,040.0	2,600.0	4,693.0	4,621.0	4,621.0	-
Mexico	28,260.0	24,384.0	25,425.0	17,196.0	16,040.0	-6.7
Venezuela	76,848.1	76,848.1	77,685.0	77,307.0	77,226.2	-0.1
Others	2,128.6	2,428.5	2,982.4	3,078.4	3,255.3	5.7
<b>Eastern Europe</b>	<b>77,686.7</b>	<b>80,586.7</b>	<b>80,217.4</b>	<b>86,190.5</b>	<b>88,290.5</b>	<b>2.4</b>
Former USSR	75,832.0	78,732.0	78,832.0	84,832.0	86,932.0	2.5
Others	1,854.7	1,854.7	1,385.4	1,358.5	1,358.5	-
<b>Western Europe</b>	<b>18,843.1</b>	<b>18,032.6</b>	<b>18,128.3</b>	<b>18,267.5</b>	<b>18,385.9</b>	<b>0.6</b>
Denmark	1,069.3	1,069.3	1,113.3	1,347.0	1,277.0	-5.2
Italy	621.8	621.8	621.8	621.7	621.7	-
Norway	10,850.0	10,125.0	10,271.0	10,265.0	10,447.4	1.8
United Kingdom	5,153.3	5,002.8	4,930.0	4,715.0	4,665.0	-1.1
Others	1,148.8	1,213.7	1,192.2	1,318.8	1,374.9	4.3
<b>Middle East</b>	<b>678,736.9</b>	<b>694,705.9</b>	<b>698,813.3</b>	<b>730,966.3</b>	<b>735,866.3</b>	<b>0.7</b>
IR Iran	93,100.0	99,530.0	99,080.0	130,690.0	133,250.0	2.0
Iraq	112,500.0	112,500.0	115,000.0	115,000.0	115,000.0	-
Kuwait	96,500.0	96,500.0	96,500.0	96,500.0	99,000.0	2.6
Oman	5,700.0	5,800.0	5,900.0	5,700.0	5,600.0	-1.8
Qatar	3,700.0	13,157.0	15,207.0	15,207.0	15,207.0	-
Saudi Arabia	262,784.0	262,766.0	262,697.0	262,790.0	262,730.0	-
Syrian Arab Republic	2,500.0	2,500.0	2,500.0	3,150.0	3,150.0	-
United Arab Emirates	97,800.0	97,800.0	97,800.0	97,800.0	97,800.0	-
Others	4,152.9	4,152.9	4,129.3	4,129.3	4,129.3	-
<b>Africa</b>	<b>84,258.4</b>	<b>92,415.2</b>	<b>95,876.5</b>	<b>101,004.3</b>	<b>105,507.2</b>	<b>4.5</b>
Algeria	11,314.0	11,314.0	11,314.0	11,314.0	11,800.0	4.3
Angola	5,050.0	5,972.0	6,500.0	8,900.0	8,900.0	-
Egypt	3,500.0	3,700.0	3,700.0	3,700.0	3,700.0	-
Gabon	2,565.0	2,420.0	2,400.0	2,370.0	2,370.0	-
SP Libyan AJ	29,500.0	36,000.0	36,000.0	36,000.0	39,126.0	8.7
Nigeria	29,000.0	29,000.0	31,506.0	34,349.0	35,254.9	2.6
Others	3,329.4	4,009.2	4,456.5	4,371.3	4,356.3	-0.3
<b>Asia and Pacific</b>	<b>53,558.8</b>	<b>52,132.5</b>	<b>47,043.9</b>	<b>45,885.0</b>	<b>45,862.3</b>	<b>-</b>
Australia	2,895.0	2,895.0	3,500.0	3,500.0	3,500.0	-
Brunei	1,350.0	1,350.0	1,350.0	1,350.0	1,350.0	-
China	32,500.0	30,600.0	24,900.0	23,700.0	23,700.0	-
India	4,970.0	5,290.0	5,510.0	5,580.0	5,580.0	-
Indonesia	5,201.0	5,122.6	5,094.6	4,721.8	4,721.8	-
Malaysia	3,420.0	3,420.0	3,000.0	3,000.0	3,000.0	-
Others	3,222.8	3,454.9	3,689.3	4,033.2	4,010.5	-0.6
<b>Total world</b>	<b>1,063,343.3</b>	<b>1,084,443.4</b>	<b>1,091,180.0</b>	<b>1,126,108.0</b>	<b>1,137,549.8</b>	<b>1.0</b>
<b>OPEC</b>	<b>818,247.0</b>	<b>840,537.7</b>	<b>847,883.6</b>	<b>881,678.8</b>	<b>891,115.9</b>	<b>1.1</b>
<b>OPEC percentage</b>	<b>77.0</b>	<b>77.5</b>	<b>77.7</b>	<b>78.3</b>	<b>78.3</b>	

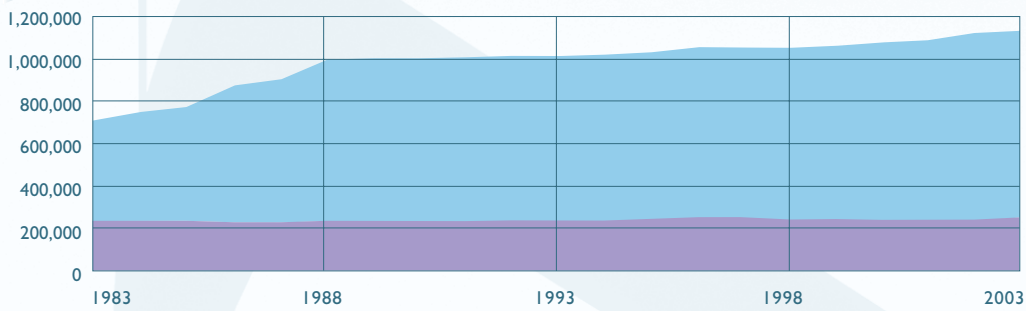
Notes: Figures as at year-end. Totals may not add up due to independent rounding. Revisions have been made throughout the time series.

1. Data refers to conventional crude oil.

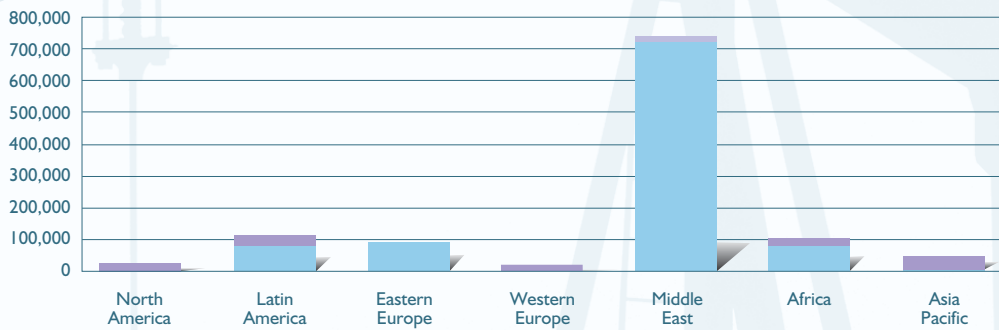




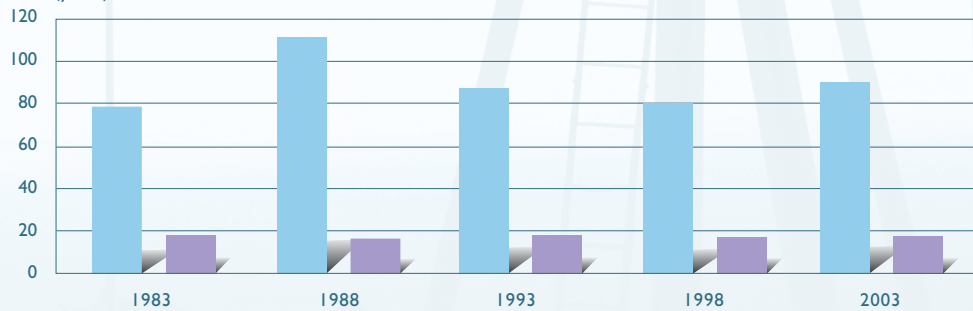
**Graph 1** World proven crude oil reserves, 1983–2003  
(m b)



**Graph 2** Crude oil reserves by region, 2003  
(m b)



**Graph 3** Crude oil reserves to production ratios, 1983–2003  
(years)



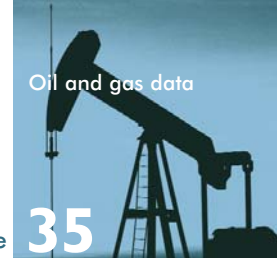
■ OPEC ■ non-OPEC

## 34 Table

## World proven natural gas reserves by country, 1999–2003 (billion standard cu m)

	1999	2000	2001	2002	2003	% change 03/02
<b>North America</b>	<b>6,459.9</b>	<b>6,707.7</b>	<b>6,889.5</b>	<b>6,958.6</b>	<b>7,105.0</b>	<b>2.1</b>
Canada	1,718.9	1,682.9	1,693.8	1,664.2	1,675.0	0.6
United States	4,741.0	5,024.8	5,195.7	5,294.4	5,430.0	2.6
<b>Latin America</b>	<b>7,746.4</b>	<b>7,813.7</b>	<b>7,916.2</b>	<b>7,641.0</b>	<b>7,842.1</b>	<b>2.6</b>
Argentina	729.0	778.0	764.0	664.0	616.0	-7.2
Bolivia	518.0	675.0	775.0	813.0	820.0	0.9
Mexico	860.6	835.0	797.0	424.0	421.0	-0.7
Trinidad & Tobago	603.0	557.0	576.0	733.0	736.0	0.4
Venezuela	4,152.4	4,152.4	4,180.0	4,180.8	4,218.8	0.9
Others	883.3	816.2	824.2	826.2	1,030.2	24.7
<b>Eastern Europe</b>	<b>56,623.8</b>	<b>56,561.8</b>	<b>56,713.8</b>	<b>56,899.8</b>	<b>56,774.8</b>	<b>-0.2</b>
Hungary	30.0	32.0	34.0	30.0	27.0	-10.0
Poland	146.0	152.0	115.0	116.0	116.0	-
Romania	348.0	335.0	322.0	311.0	305.0	-1.9
Former USSR	56,072.0	56,015.0	56,215.0	56,415.0	56,300.0	-0.2
Others	27.8	27.8	27.8	27.8	26.8	-3.6
<b>Western Europe</b>	<b>7,127.7</b>	<b>7,050.1</b>	<b>6,952.8</b>	<b>6,665.6</b>	<b>6,262.6</b>	<b>-6.0</b>
Denmark	142.0	144.0	141.0	129.0	136.0	5.4
Germany	340.0	325.6	364.3	319.9	305.9	-4.4
Italy	208.0	199.0	191.0	210.0	190.0	-9.5
Netherlands	1,714.0	1,655.0	1,616.0	1,567.0	1,672.0	6.7
Norway	3,808.0	3,841.0	3,833.0	3,667.0	3,188.0	-13.1
United Kingdom	760.0	740.0	660.0	630.0	630.0	-
Others	155.7	145.5	147.5	142.7	140.7	-1.4
<b>Middle East</b>	<b>52,053.0</b>	<b>59,811.0</b>	<b>71,374.6</b>	<b>71,788.0</b>	<b>72,766.2</b>	<b>1.4</b>
IR Iran	22,370.0	26,600.0	26,600.0	26,690.0	27,570.0	3.3
Iraq	3,285.0	3,109.0	3,109.0	3,190.0	3,170.0	-0.6
Kuwait	1,482.0	1,557.0	1,557.0	1,557.0	1,572.0	1.0
Qatar	11,157.0	14,443.0	25,783.0	25,783.0	25,783.0	-
Saudi Arabia	6,146.0	6,301.0	6,455.6	6,646.0	6,754.2	1.6
United Arab Emirates	5,936.0	6,060.0	6,060.0	6,060.0	6,060.0	-
Others	1,677.0	1,741.0	1,810.0	1,862.0	1,857.0	-0.3
<b>Africa</b>	<b>11,440.0</b>	<b>12,463.3</b>	<b>13,232.0</b>	<b>13,880.6</b>	<b>13,965.6</b>	<b>0.6</b>
Algeria	4,520.0	4,523.0	4,523.0	4,523.0	4,545.0	0.5
Egypt	1,223.0	1,433.0	1,557.0	1,657.0	1,756.0	6.0
SP Libyan AJ	1,314.0	1,314.0	1,314.0	1,503.0	1,491.0	-0.8
Nigeria	3,512.0	4,106.0	4,632.7	4,997.3	4,997.3	-
Others	871.0	1,087.3	1,205.3	1,200.3	1,176.3	-2.0
<b>Asia and Pacific</b>	<b>13,630.0</b>	<b>13,686.0</b>	<b>14,217.0</b>	<b>14,826.0</b>	<b>15,073.0</b>	<b>1.7</b>
Australia	3,500.0	3,530.0	3,550.0	3,930.0	3,930.0	-
China	1,375.0	1,515.0	1,679.0	1,753.0	1,823.0	4.0
India	650.0	650.0	735.0	751.0	854.0	13.7
Indonesia	2,620.0	2,682.0	2,603.0	2,557.0	2,557.0	-
Malaysia	2,476.0	2,337.0	2,480.0	2,520.0	2,520.0	-
Pakistan	702.0	677.0	745.0	760.0	790.0	3.9
Others	2,307.0	2,295.0	2,425.0	2,555.0	2,599.0	1.7
<b>Total world</b>	<b>155,080.8</b>	<b>164,093.6</b>	<b>177,295.9</b>	<b>178,659.6</b>	<b>179,789.3</b>	<b>0.6</b>
<b>OPEC</b>	<b>66,494.4</b>	<b>74,847.4</b>	<b>86,817.3</b>	<b>87,687.1</b>	<b>88,718.3</b>	<b>1.2</b>
<b>OPEC percentage</b>	<b>42.9</b>	<b>45.6</b>	<b>49.0</b>	<b>49.1</b>	<b>49.3</b>	

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



## Active rigs in OPEC Members and in world, 1999–2003

	1999	2000	2001	2002	2003	% change 03/02
Algeria	12	17	19	21	20	-4.8
Indonesia	28	34	49	53	42	-20.8
IR Iran	27	27	33	34	39	14.7
Iraq	9	9	9	-	-	-
Kuwait	13	13	13	13	8	-38.5
SP Libyan AJ	14	14	19	10	11	10.0
Nigeria	4	10	9	12	9	-25.0
Qatar	5	5	10	11	8	-27.3
Saudi Arabia	20	27	32	33	31	-6.1
United Arab Emirates	27	24	28	26	16	-38.5
Venezuela	59	73	60	30	45	50.0
<b>OPEC</b>	<b>218</b>	<b>253</b>	<b>281</b>	<b>243</b>	<b>229</b>	<b>-5.8</b>
<b>North America</b>	<b>1,185</b>	<b>1,510</b>	<b>1,085</b>	<b>1,144</b>	<b>1,457</b>	<b>27.4</b>
Canada	385	410	198	281	332	18.1
United States	800	1,100	887	863	1,125	30.4
<b>Latin America</b>	<b>196</b>	<b>257</b>	<b>255</b>	<b>215</b>	<b>264</b>	<b>22.8</b>
Argentina	40	68	62	56	60	7.1
Bolivia	11	10	6	5	5	-
Brazil	19	25	27	26	24	-7.7
Chile	-	1	1	1	-	-100.0
Colombia	14	14	16	10	11	10.0
Ecuador	4	9	12	8	7	-12.5
Mexico	44	46	63	80	107	33.8
Trinidad & Tobago	3	6	5	2	3	50.0
<b>Western Europe</b>	<b>59</b>	<b>73</b>	<b>83</b>	<b>60</b>	<b>78</b>	<b>30.0</b>
France	1	1	-	-	1	-
Germany	4	2	5	4	2	-50.0
Italy	8	7	7	5	7	40.0
Netherlands	4	5	8	5	5	-
Norway	16	24	24	15	17	13.3
United Kingdom	17	19	23	23	21	-8.7
<b>Middle East</b>	<b>149</b>	<b>165</b>	<b>180</b>	<b>169</b>	<b>171</b>	<b>1.2</b>
Bahrain	3	3	1	-	-	-
Oman	19	26	27	32	37	15.6
Syrian Arab Republic	23	23	19	24	24	-
Yemen	3	6	7	11	7	-36.4
<b>Africa</b>	<b>59</b>	<b>77</b>	<b>83</b>	<b>85</b>	<b>96</b>	<b>12.9</b>
Angola	5	7	4	2	7	250.0
Egypt	15	20	24	24	27	12.5
Gabon	2	2	1	2	3	50.0
South Africa	1	-	1	-	1	-
<b>Asia and Pacific</b>	<b>136</b>	<b>156</b>	<b>170</b>	<b>197</b>	<b>189</b>	<b>-4.1</b>
Australia	5	12	10	10	13	30.0
Brunei	2	2	2	3	2	-33.3
India	46	51	50	58	62	6.9
Malaysia	7	10	10	15	14	-6.7
New Zealand	2	2	2	1	2	100.0
Pakistan	9	10	5	13	12	-7.7
<b>World<sup>1</sup></b>	<b>1,784</b>	<b>2,238</b>	<b>1,856</b>	<b>1,870</b>	<b>2,255</b>	<b>20.6</b>
<b>OPEC percentage</b>	<b>12.2</b>	<b>11.3</b>	<b>15.1</b>	<b>13.0</b>	<b>10.2</b>	

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

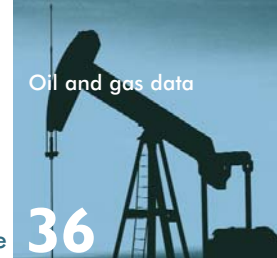
1. Excluding Eastern Europe.

## 36 Table

## Wells completed in OPEC Members, 1999–2003

	1999	2000	2001	2002	2003*	% change 03/02
<b>Algeria</b>	<b>91</b>	<b>137</b>	<b>148</b>	<b>172</b>	<b>175</b>	<b>1.6</b>
Oil	49	74	86	100	102	2.0
Gas	23	35	35	40	40	1.2
Dry	19	28	27	22	22	1.2
Others	–	–	–	10	10	–
Average depth (ft)	9,130	10,161	11,155	9,598	10,305	7.4
<b>Indonesia</b>	<b>1,051</b>	<b>1,031</b>	<b>1,200</b>	<b>848</b>	<b>905</b>	<b>6.7</b>
Oil	715	771	855	547	644	17.7
Gas	139	46	85	60	47	–21.7
Dry	55	40	62	24	4	–83.3
Others	142	174	198	217	210	–3.2
Average depth (ft)	3,285	3,300	3,324	3,290	3,305	0.4
<b>IR Iran</b>	<b>134</b>	<b>150</b>	<b>99</b>	<b>135</b>	<b>121</b>	<b>–10.4</b>
Oil	84	95	73	73	65	–11.0
Gas	5	–	18	13	12	–8
Dry	–	–	1	–	–	–
Others	45	55	7	49	44	–10.2
Average depth (ft)	7,073	6,301	9,229	7,184	7,571	5.4
<b>Iraq</b>	<b>12</b>	<b>14</b>	<b>16</b>	<b>na</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)	7,667	na	na	na	na	na
<b>Kuwait</b>	<b>99</b>	<b>138</b>	<b>100</b>	<b>91</b>	<b>55</b>	<b>–39.6</b>
Oil	99	128	93	66	51	–22.7
Gas	–	–	–	–	–	–
Dry	–	–	–	–	–	–
Others	–	10	7	25	4	–84.0
Average depth (ft)	8,000	7,643	7,580	8,165	7,796	–4.5
<b>SP Libyan AJ</b>	<b>90</b>	<b>109</b>	<b>97</b>	<b>100</b>	<b>130</b>	<b>30.0</b>
Oil	70	71	78	60	83	38.3
Gas	2	2	2	18	31	72.2
Dry	11	25	9	11	11	–
Others	7	11	8	11	5	–54.5
Average depth (ft)	7,724	7,796	7,600	8,480	7,959	–6.1
<b>Nigeria</b>	<b>82</b>	<b>85</b>	<b>110</b>	<b>119</b>	<b>105</b>	<b>–11.8</b>
Oil	54	62	80	83	74	–10.8
Gas	6	3	4	5	4	–20.0
Dry	7	10	13	15	13	–13.3
Others	15	10	13	16	14	–12.5
Average depth (ft)	9,615	9,311	9,000	9,000	9,104	1.2
<b>Qatar</b>	<b>66</b>	<b>66</b>	<b>87</b>	<b>96</b>	<b>75</b>	<b>–21.9</b>
Oil	40	40	61	57	45	–21.1
Gas	4	12	1	7	5	–28.6
Dry	–	2	4	1	1	–
Others	22	12	21	31	24	–22.6
Average depth (ft)	7,300	7,410	9,165	12,363	9,646	–22.0





## Wells completed in OPEC Members, 1999–2003

	1999	2000	2001	2002	2003*	% change 03/02
<b>Saudi Arabia</b>	<b>224</b>	<b>257</b>	<b>265</b>	<b>250</b>	<b>290</b>	<b>16.0</b>
Oil	na	na	na	162	188	na
Gas	na	na	na	45	52	na
Dry	na	na	na	9	10	na
Others	na	na	na	34	40	na
Average depth (ft)	8,175	8,049	8,100	8150	8,100	-0.6
<b>Saudi-Kuwaiti Neutral Zone</b>	<b>35</b>	<b>40</b>	<b>50</b>	<b>35</b>	<b>45</b>	<b>28.6</b>
Oil	29	37	43	31	40	29.0
Gas	–	–	–	–	–	–
Dry	3	1	2	1	1	0.0
Others	3	2	5	3	4	33.3
Average depth (ft)	7,050	7,020	6,500	6500	6,673	2.7
<b>United Arab Emirates</b>	<b>108</b>	<b>87</b>	<b>92</b>	<b>101</b>	<b>115</b>	<b>13.9</b>
Oil	50	43	46	53	60	13.2
Gas	28	30	30	32	37	15.6
Dry	6	2	4	2	2	0.0
Others	24	12	12	14	16	14.3
Average depth (ft)	11,908	9,110	9,150	8931	9,064	1.5
<b>Venezuela</b>	<b>827</b>	<b>691</b>	<b>1,278</b>	<b>958</b>	<b>699</b>	<b>-27.0</b>
Oil	386	564	989	742	541	-27.1
Gas	2	–	1	3	2	-33.3
Dry	19	2	6	5	4	-20.0
Others	420	125	282	208	152	-26.9
Average depth (ft)	6,186	5,866	6,531	6534	6,310	-3.4
<b>OPEC</b>	<b>2,819</b>	<b>2,805</b>	<b>3,542</b>	<b>2,905</b>	<b>2,715</b>	<b>-6.5</b>
Oil	1,576	1,885	2,404	1,974	1,893	-4.1
Gas	209	128	176	223	230	3.3
Dry	120	110	128	90	68	-24.2
Others	678	411	553	618	523	-15.4
Average depth (ft)	5,853	5,773	7,939	8,018	7,243	-9.7
<b>Total world<sup>1,2</sup></b>	<b>45,095</b>	<b>60,095</b>	<b>74,178</b>	<b>70,053</b>	<b>72,540</b>	<b>3.6</b>
Oil	11,058	17,338	18,267	16,997	17,782	4.6
Gas	15,301	22,861	30,678	27,641	28,713	3.9
Dry	5,765	6,280	6,259	5,104	5,342	4.7
Others	2,681	3,227	2,155	4,868	5,065	4.1
Average depth (ft)	5,343	5,054	5,212	5,202	5,156	-0.9

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.

## 37 Table

## Producing wells in OPEC Members, 1999–2003

	1999	2000	2001	2002	2003*	% change 03/02
<b>Algeria</b>	<b>1,136</b>	<b>1,235</b>	<b>1,284</b>	<b>1,295</b>	<b>1,416</b>	<b>9.3</b>
Flowing	836	930	967	973	1,049	7.8
Artificial lift	300	305	317	322	367	13.9
<b>Indonesia</b>	<b>8,226</b>	<b>9,341</b>	<b>9,150</b>	<b>9,075</b>	<b>9,073</b>	<b>0.0</b>
Flowing	720	1,511	1,465	1,395	1,390	-0.4
Artificial lift	7,506	7,830	7,685	7,680	7,683	0.0
<b>IR Iran</b>	<b>1,211</b>	<b>1,287</b>	<b>1,416</b>	<b>1,331</b>	<b>1,469</b>	<b>10.4</b>
Flowing	1,211	1,287	1,416	1,331	1,469	10.4
Artificial lift	–	–	–	–	–	–
<b>Iraq</b>	<b>na</b>	<b>na</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>730</b>	<b>785</b>	<b>805</b>	<b>800</b>	<b>821</b>	<b>2.6</b>
Flowing	730	785	805	800	821	2.6
Artificial lift	–	–	–	–	–	–
<b>SP Libyan AJ</b>	<b>1,430</b>	<b>1,436</b>	<b>1,545</b>	<b>1,498</b>	<b>1,573</b>	<b>5.0</b>
Flowing	902	904	1,004	938	1,010	7.7
Artificial lift	528	532	541	560	563	0.5
<b>Nigeria</b>	<b>2,145</b>	<b>2,109</b>	<b>2,430</b>	<b>2,463</b>	<b>2,814</b>	<b>14.3</b>
Flowing	1,770	1,779	2,030	1,883	2,139	13.6
Artificial lift	375	330	400	580	675	16.4
<b>Qatar</b>	<b>411</b>	<b>415</b>	<b>442</b>	<b>468</b>	<b>556</b>	<b>18.8</b>
Flowing	322	325	307	309	361	16.8
Artificial lift	89	90	135	159	195	22.6
<b>Saudi Arabia</b>	<b>1,475</b>	<b>1,550</b>	<b>1,575</b>	<b>1,525</b>	<b>1,789</b>	<b>17.3</b>
Flowing	1,400	1,457	1,480	1,430	1,664	16.4
Artificial lift	75	93	95	95	125	31.6
<b>Saudi-Kuwaiti Neutral Zone</b>	<b>465</b>	<b>550</b>	<b>615</b>	<b>600</b>	<b>605</b>	<b>0.8</b>
Flowing	190	210	218	213	215	0.9
Artificial lift	275	340	397	387	390	0.8
<b>United Arab Emirates</b>	<b>1,424</b>	<b>1,505</b>	<b>1,410</b>	<b>1,417</b>	<b>1,676</b>	<b>18.3</b>
Flowing	1,075	1,143	1,063	1,068	1,240	16.1
Artificial lift	349	362	347	349	436	24.9
<b>Venezuela</b>	<b>12,820</b>	<b>15,506</b>	<b>14,987</b>	<b>12,982</b>	<b>12,333</b>	<b>-5.0</b>
Flowing	1,056	1,223	665	570	490	-14.0
Artificial lift	11,764	14,283	14,322	12,412	11,843	-4.6
<b>OPEC<sup>2</sup></b>	<b>31,473</b>	<b>35,719</b>	<b>35,659</b>	<b>33,454</b>	<b>34,125</b>	<b>2.0</b>
Flowing	10,212	11,554	11,420	10,910	11,848	8.6
Artificial lift	21,261	24,165	24,239	22,544	22,277	-1.2
<b>Total world<sup>1,2</sup></b>	<b>772,050</b>	<b>883,938</b>	<b>893,238</b>	<b>897,166</b>	<b>943,520</b>	<b>5.2</b>
Flowing	48,245	51,849	49,816	51,175	56,610	10.6
Artificial lift	722,975	832,089	843,422	845,991	886,910	4.8

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

1. Excluding Eastern Europe.

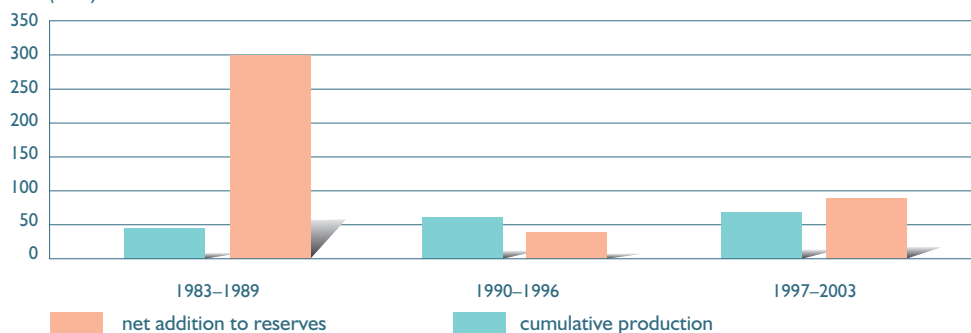
2. Summation of wells by category may not equal the total for OPEC due to lack of data for some countries.



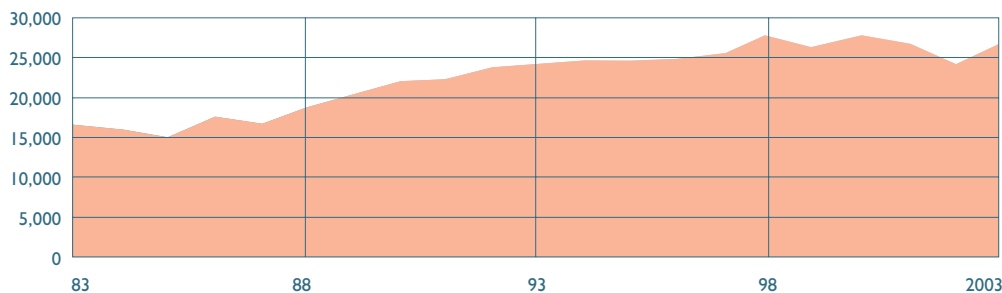
**OPEC cumulative production and net addition to reserves (bn b)**

	Production	Net addition to reserves		Production	Net addition to reserves
before 1983	208.61		1993	286.58	0.84
1983	214.67	7.92	1994	295.57	2.86
1984	220.51	34.70	1995	304.55	7.67
1985	225.95	25.80	1996	313.61	17.75
1986	232.40	107.22	1997	322.89	3.15
1987	238.51	31.00	1998	333.02	4.30
1988	245.40	86.46	1999	342.59	7.98
1989	252.85	4.35	2000	352.75	22.29
1990	260.89	1.05	2001	362.56	7.35
1991	269.01	6.07	2002	371.43	33.80
1992	277.74	1.76	2003	381.30	9.44

Graph 4 **OPEC cumulative production and net addition to reserves, 1983–2003**  
(bn b)



Graph 5 **OPEC crude oil production, 1983–2003**  
(1,000 b/d)



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

## Algeria

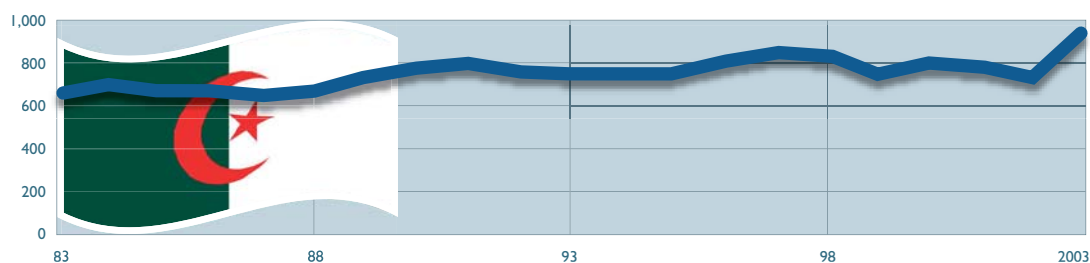
Year	Daily average	Cumulative	% change in daily av	Year	Daily average	Cumulative	% change in daily av
1918–1957		2,533		1981	797.8	6,695,745	-21.8
1958	8.8	5,745		1982	704.5	6,952,888	-11.7
1959	25.6	15,089	190.9	1983	660.9	7,194,116	-6.2
1960	181.1	81,372	607.4	1984	695.4	7,448,633	5.2
1961	330.9	202,150	82.7	1985	672.4	7,694,050	-3.3
1962	436.9	361,619	32.0	1986	673.9	7,940,017	0.2
1963	504.3	545,688	15.4	1987	648.2	8,176,620	-3.8
1964	557.8	749,843	10.6	1988	672.9*	8,422,905	3.8
1965	558.7	953,769	0.2	1989	727.3	8,688,369	8.1
1966	718.7	1,216,094	28.6	1990	783.5	8,974,340	7.7
1967	825.7	1,517,475	14.9	1991	803.0	9,267,435	2.5
1968	904.2	1,848,412	9.5	1992	756.5	9,544,314	-5.8
1969	946.4	2,193,848	4.7	1993	747.3	9,817,079	-1.2
1970	1,029.1	2,569,469	8.7	1994	752.5	10,091,741	0.7
1971	785.4	2,856,140	-23.7	1995	752.5	10,366,404	-
1972	1,062.3	3,244,942	35.3	1996	805.7	10,661,290	7.1
1973	1,097.3	3,645,457	3.3	1997	846.1	10,970,116	5.0
1974	1,008.6	4,013,596	-8.1	1998	827.3	11,272,081	-2.2
1975	982.6	4,372,245	-2.6	1999	749.6	11,545,697	-9.4
1976	1,075.1	4,765,728	9.4	2000	796.0	11,837,030	6.2
1977	1,152.3	5,186,312	7.2	2001	776.6	12,120,489	-2.4
1978	1,161.2	5,610,136	0.8 <sup>1</sup>	2002	729.9	12,386,902	-6.0
1979	1,153.8	6,031,277	-0.6	2003	942.4	12,730,878	29.1
1980	1,019.9	6,404,548	-11.6				

## Note:

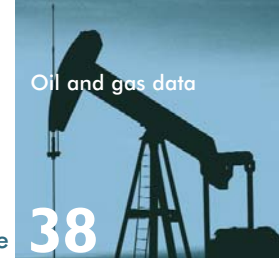
1. Data not comparable due to inclusion of condensates prior to 1978.

OPEC Members' crude oil production, 1983–2003  
(1,000 b/d)

Graph 6 Algeria







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

## Indonesia

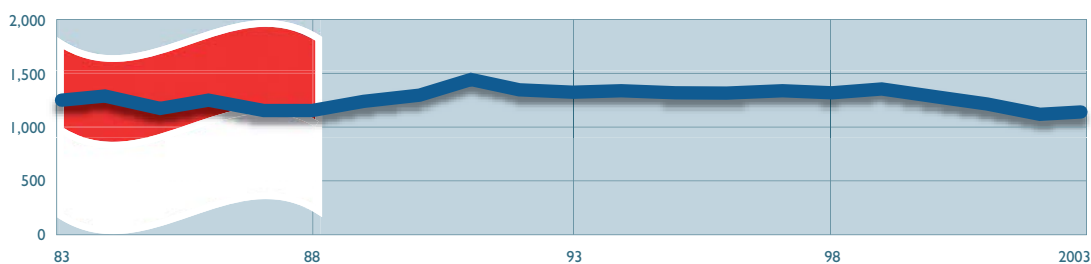
Year	Daily average	Cumulative	% change in daily av	Year	Daily average	Cumulative	% change in daily av
1893	2.0	730		1940	169.4	976,114	-0.4
1894	2.0	1,460		1941	147.1	1,029,805	-13.2
1895	3.0	2,555	50.0	1942	65.8	1,053,822	-55.3
1896	4.0	4,019	33.3	1943	132.3	1,102,112	101.1
1897	7.0	6,574	75.0	1944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

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

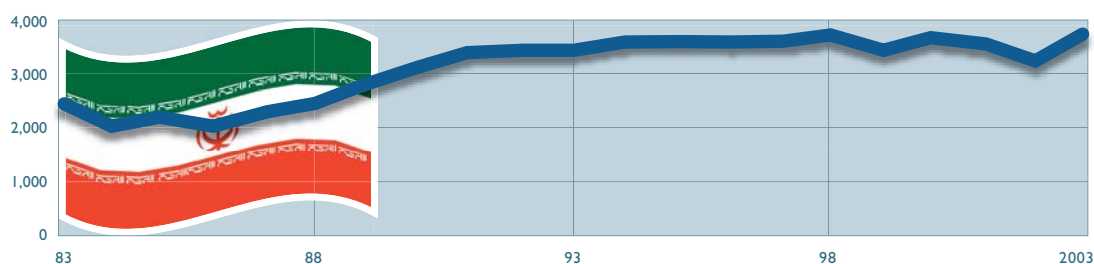
## Indonesia

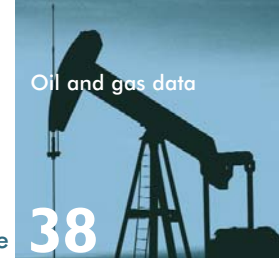
Year	Daily average	Cumulative	% change in daily av	Year	Daily average	Cumulative	% change in daily av
1987	1,158.1	12,630,257	-7.9	1996	1,326.7	16,942,822	-0.1
1988	1,161.5*	13,055,378	0.3	1997	1,330.4	17,428,404	0.3
1989	1,231.0	13,504,693	6.0	1998	1,315.4	17,908,514	-1.1
1990	1,299.3	13,978,938	5.5	1999	1,355.5	18,403,271	3.1
1991	1,450.0	14,508,188	11.6	2000	1,272.5	18,869,006	-6.1
1992	1,347.7	15,001,446	-7.1	2001	1,214.2	19,312,182	-4.6
1993	1,327.3	15,485,910	-1.5	2002	1,125.4	19,722,953	-7.3
1994	1,332.8	15,972,382	0.4	2003	1,139.7	20,138,929	1.3
1995	1,328.4	16,457,248	-0.3				

Graph 7 Indonesia



Graph 8 IR Iran





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

## IR Iran

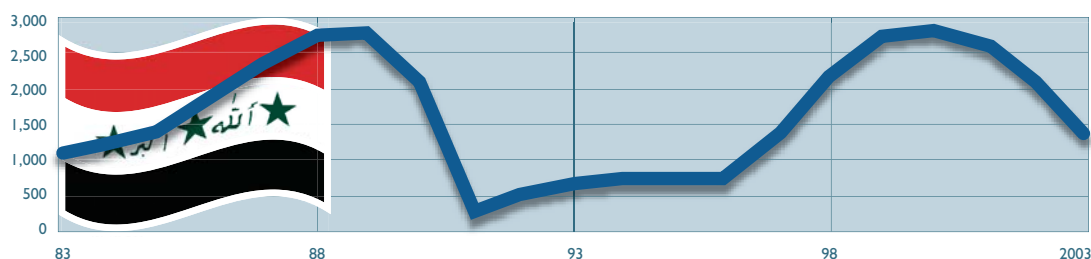
Year	Daily average	Cumulative	% change in daily av	Year	Daily average	Cumulative	% change in daily av
1913	5.0	1,825		1959	928.2	3,776,939	12.4
1914	8.0	4,745	60.0	1960	1,067.7	4,167,717	15.0
1915	10.0	8,395	25.0	1961	1,202.2	4,606,520	12.6
1916	12.0	12,787	20.0	1962	1,334.5	5,093,613	11.0
1917	19.0	19,722	58.3	1963	1,491.3	5,637,937	11.7
1918	23.6	28,336	24.2	1964	1,710.7	6,264,053	14.7
1919	27.8	38,483	17.8	1965	1,908.3	6,960,583	11.6
1920	33.4	50,707	20.1	1966	2,131.8	7,738,690	11.7
1921	45.7	67,388	36.8	1967	2,603.2	8,688,858	22.1
1922	61.0	89,653	33.5	1968	2,839.8	9,728,225	9.1
1923	69.1	114,874	13.3	1969	3,375.8	10,960,392	18.9
1924	88.5	147,265	28.1	1970	3,829.0	12,357,977	13.4
1925	96.0	182,305	8.5	1971	4,539.5	14,014,894	18.6
1926	98.2	218,148	2.3	1972	5,023.1	15,853,349	10.7
1927	108.7	257,824	10.7	1973	5,860.9	17,992,577	16.7
1928	118.7	301,268	9.2	1974	6,021.6	20,190,461	2.7
1929	115.5	343,426	-2.7	1975	5,350.1	22,143,248	-11.2
1930	125.6	389,270	8.7	1976	5,882.9	24,296,396	10.0
1931	121.6	433,654	-3.2	1977	5,662.8	26,363,325	-3.7
1932	135.2	483,137	11.2	1978	5,241.7	28,276,547	-7.4
1933	149.0	537,522	10.2	1979	3,167.9	29,432,830	-39.6
1934	158.5	595,374	6.4	1980	1,816.6*	30,097,718	-42.7
1935	156.9	652,643	-1.0	1981	1,565.0*	30,668,945	-13.9
1936	171.4	715,375	9.2	1982	2,420.6*	31,552,479	54.7
1937	213.2	793,193	24.4	1983	2,441.7	32,443,694	0.9
1938	214.7	871,559	0.7	1984	2,032.4	33,187,553	-16.8
1939	214.1	949,705	-0.3	1985	2,192.3	33,987,752	7.9
1940	181.2	1,016,024	-15.4	1986	2,037.1	34,731,298	-7.1
1941	139.1	1,066,796	-23.2	1987	2,297.6	35,569,930	12.8
1942	198.0	1,139,066	42.3	1988	2,478.5*	36,477,070	7.9
1943	204.4	1,213,672	3.2	1989	2,814.1	37,504,208	13.5
1944	278.8	1,315,713	36.4	1990	3,135.3*	38,648,595	11.4
1945	357.6	1,446,237	28.3	1991	3,406.8*	39,892,071	8.7
1946	402.2	1,593,040	12.5	1992	3,431.6	41,148,034	0.7
1947	424.7	1,748,055	5.6	1993	3,425.2	42,398,234	-0.2
1948	520.2	1,938,448	22.5	1994	3,596.0	43,710,774	5.0
1949	560.9	2,143,177	7.8	1995	3,595.0	45,022,949	-
1950	664.3	2,385,646	18.4	1996	3,596.0	46,339,085	-
1951	349.6	2,513,250	-47.4	1997	3,603.4	47,654,319	0.2
1952	27.6	2,523,352	-92.1	1998	3,714.0	49,009,929	3.1
1953	26.8	2,533,134	-2.9	1999	3,439.0	50,265,164	-7.4
1954	61.4	2,555,545	129.1	2000	3,661.3	51,605,182	6.5
1955	328.9	2,675,594	435.7	2001	3,572.0	52,908,962	-2.4
1956	541.8	2,873,892	64.7	2002	3,248.0	54,094,482	-9.1
1957	719.8	3,136,619	32.9	2003	3,741.6	55,460,166	15.2
1958	826.1	3,438,146	14.8				

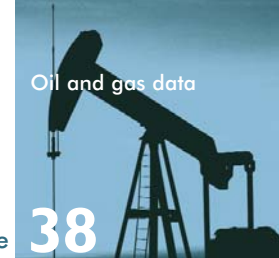
## Cumulative crude oil production in OPEC Members (1,000 b)

## Iraq

Year	Daily average	Cumulative	% change in daily av	Year	Daily average	Cumulative	% change in daily av
1928	2.7	988		1966	1,392.2	5,357,137	6.1
1929	3.0	2,083	11.1	1967	1,228.1	5,805,393	-11.8
1930	2.0	2,813	-33.3	1968	1,503.3	6,355,601	22.4
1931	2.0	3,543	-	1969	1,521.2	6,910,839	1.2
1932	1.4	4,056	-30.0	1970	1,548.6	7,476,078	1.8
1933	1.6	4,640	14.3	1971	1,694.1	8,094,425	9.4
1934	16.5	10,662	931.3	1972	1,465.5	8,630,798	-13.5
1935	78.1	39,169	373.3	1973	2,018.1	9,367,404	37.7
1936	85.7	70,535	9.7	1974	1,970.6	10,086,673	-2.4
1937	92.4	104,261	7.8	1975	2,261.7	10,912,194	14.8
1938	91.5	137,658	-1.0	1976	2,415.4	11,796,236	6.8
1939	85.5	168,866	-6.6	1977	2,348.2	12,653,333	-2.8
1940	55.9	189,325	-34.6	1978	2,562.0	13,588,476	9.1
1941	36.3	202,575	-35.1	1979	3,476.9	14,857,556	35.7
1942	55.7	222,905	53.4	1980	2,646.4	15,826,156	-23.9
1943	79.3	251,850	42.4	1981	897.4	16,153,707	-66.1
1944	92.5	285,705	16.6	1982	1,078.4*	16,547,318	20.2
1945	100.1	322,241	8.2	1983	1,098.8	16,948,376	1.9
1946	101.8	359,398	1.7	1984	1,221.3	17,395,379	11.2
1947	103.0	396,993	1.2	1985	1,404.4	17,907,969	15.0
1948	76.6	425,029	-25.6	1986	1,876.5	18,592,904	33.6
1949	90.6	458,098	18.3	1987	2,358.7	19,453,818	25.7
1950	139.6	509,052	54.1	1988	2,744.5*	20,458,289	16.4
1951	180.8	575,044	29.5	1989	2,785.8	21,475,101	1.5
1952	389.0	717,418	115.2	1990	2,112.6*	22,246,208	-24.2
1953	581.4	929,629	49.5	1991	282.5*	22,349,308	-86.6
1954	636.2	1,161,842	9.4	1992	526.2	22,541,898	86.3
1955	697.0	1,416,247	9.6	1993	659.5	22,782,603	25.3
1956	641.0	1,650,853	-8.0	1994	748.7	23,055,870	13.5
1957	449.5	1,814,920	-29.9	1995	736.9	23,324,835	-1.6
1958	731.3	2,081,845	62.7	1996	740.4	23,595,829	0.5
1959	856.9	2,394,613	17.2	1997	1,383.9	24,100,958	86.9
1960	972.2	2,750,439	13.5	1998	2,181.1	24,897,053	57.6
1961	1,007.1	3,118,030	3.6	1999	2,719.8*	25,889,795	24.7
1962	1,009.2	3,486,388	0.2	2000	2,810.0*	26,918,241	3.3
1963	1,161.9	3,910,482	15.1	2001	2,593.7	27,864,935	-7.7
1964	1,255.2	4,369,885	8.0	2002	2,126.5	28,641,106	-18.0
1965	1,312.6	4,848,984	4.6	2003	1,378.6*	29,144,286	-35.2

Graph 9 Iraq





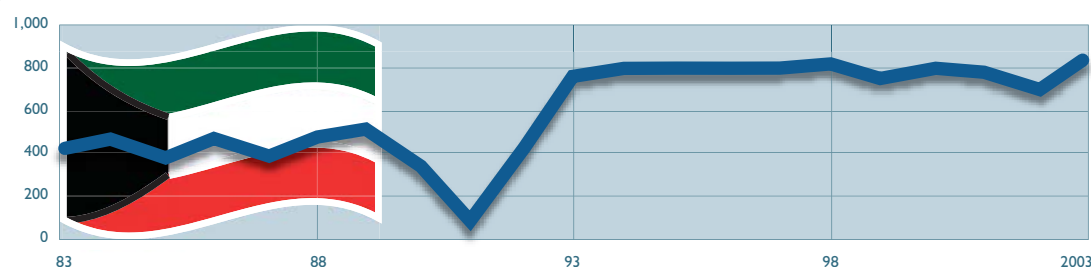
## Cumulative crude oil production in OPEC Members (1,000 b)

## Kuwait

Year	Daily average	Cumulative	% change in daily av	Year	Daily average	Cumulative	% change in daily av
1946	16.2	5,913		1975	2,084.2	18,189,785	-18.1
1947	44.5	22,156	174.7	1976	2,145.4	18,975,000	2.9
1948	127.2	68,711	185.8	1977	1,969.0	19,693,684	-8.2
1949	246.5	158,683	93.8	1978	2,131.4	20,471,641	8.2
1950	344.4	284,389	39.7	1979	2,500.3	21,384,250	17.3
1951	561.4	489,300	63.0	1980	1,663.7	21,993,164	-33.5
1952	747.1	762,739	33.1	1981	1,129.7	22,405,504	-32.1
1953	861.9	1,077,332	15.4	1982	824.3	22,706,374	-27.0
1954	959.7	1,427,623	11.3	1983	1,054.1	23,091,120	27.9
1955	1,103.6	1,830,437	15.0	1984	1,163.0	23,516,778	10.3
1956	1,108.5	2,236,148	0.4	1985	936.3	23,858,536	-19.5
1957	1,171.6	2,663,782	5.7	1986	1,174.3*	24,287,170	25.4
1958	1,435.8	3,187,849	22.6	1987	971.6	24,641,808	-17.3
1959	1,441.1	3,713,850	0.4	1988	1,190.1*	25,077,395	22.5
1960	1,691.8	4,333,049	17.4	1989	1,277.5*	25,543,698	7.3
1961	1,735.0	4,966,324	2.6	1990	858.6*	25,857,094	-32.8
1962	1,957.8	5,680,921	12.8	1991	189.7*	25,926,341	-77.9
1963	2,096.3	6,446,071	7.1	1992	1,057.2	26,313,277	457.2
1964	2,301.0	7,288,237	9.8	1993	1,881.8	27,000,134	78.0
1965	2,360.3	8,149,746	2.6	1994	2,006.6	27,732,543	6.6
1966	2,484.1	9,056,443	5.2	1995	2,006.6	28,464,952	-
1967	2,499.8	9,968,870	0.6	1996	2,005.6	29,199,001	-
1968	2,613.5	10,925,411	4.5	1997	2,007.1	29,931,593	0.1
1969	2,773.4	11,937,702	6.1	1998	2,051.5	30,680,390	2.2
1970	2,989.6	13,028,906	7.8	1999	1,872.7	31,363,926	-8.7
1971	3,196.7	14,195,701	6.9	2000	1,996.1	32,094,497	6.6
1972	3,283.0	15,397,279	2.7	2001	1,947.0	32,805,166	-2.5
1973	3,020.4	16,499,725	-8.0	2002	1,745.9	33,442,420	-10.3
1974	2,546.1	17,429,052	-15.7	2003	2,107.6	34,211,694	20.7

Note: Figures include share of production from Neutral Zone.

Graph 10 Kuwait



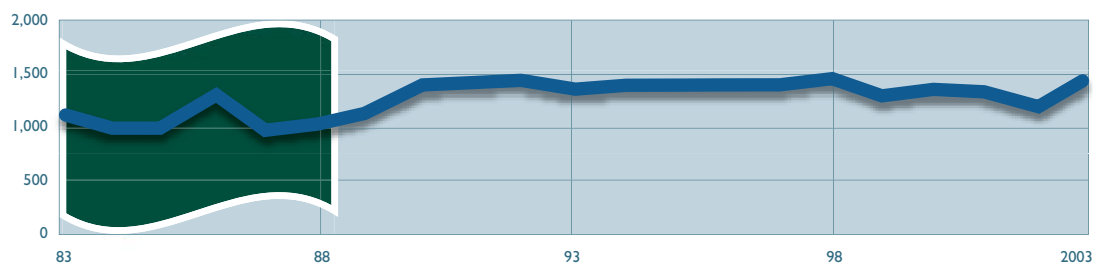


## Cumulative crude oil production in OPEC Members (1,000 b)

## SP Libyan AJ

Year	Daily average	Cumulative	% change in daily av	Year	Daily average	Cumulative	% change in daily av
1961	18.2	6,643		1983	1,121.1*	14,079,167	-1.3
1962	182.3	73,183	901.6	1984	984.6	14,439,530	-12.2
1963	441.8	234,440	142.3	1985	997.7*	14,803,707	1.3
1964	862.4	550,078	95.2	1986	1,308.0	15,281,127	31.1
1965	1,218.8	994,940	41.3	1987	972.5	15,636,091	-25.6
1966	1,501.1	1,542,841	23.2	1988	1,022.7*	16,010,407	5.2
1967	1,740.5	2,178,124	15.9	1989	1,129.2	16,422,557	10.4
1968	2,602.1	3,130,493	49.5	1990	1,389.1*	16,929,582	23.0
1969	3,109.1	4,265,314	19.5	1991	1,405.9*	17,442,752	1.2
1970	3,318.0	5,476,384	6.7	1992	1,432.7	17,967,121	1.9
1971	2,760.8	6,484,076	-16.8	1993	1,361.0	18,463,883	-5.0
1972	2,239.4	7,303,696	-18.9	1994	1,389.8	18,971,170	2.1
1973	2,174.9	8,097,535	-2.9	1995	1,399.0	19,481,819	0.7
1974	1,521.3	8,652,809	-30.1	1996	1,394.0	19,992,025	-0.4
1975	1,479.8	9,192,936	-2.7	1997	1,395.8	20,501,479	0.1
1976	1,932.6	9,900,269	30.6	1998	1,449.0*	21,030,374	3.8
1977	2,063.4	10,653,397	6.8	1999	1,287.2*	21,500,196	-11.2
1978	1,982.5	11,377,013	-3.9	2000	1,347.2	21,993,272	4.7
1979	2,091.7	12,140,485	5.5	2001	1,323.5	22,476,335	-1.8
1980	1,831.6	12,810,843	-12.4	2002	1,200.9	22,914,663	-9.3
1981	1,217.8	13,255,340	-33.5	2003	1,431.9	23,437,307	19.2
1982	1,136.0	13,669,980	-6.7				

Graph 11 SP Libyan AJ

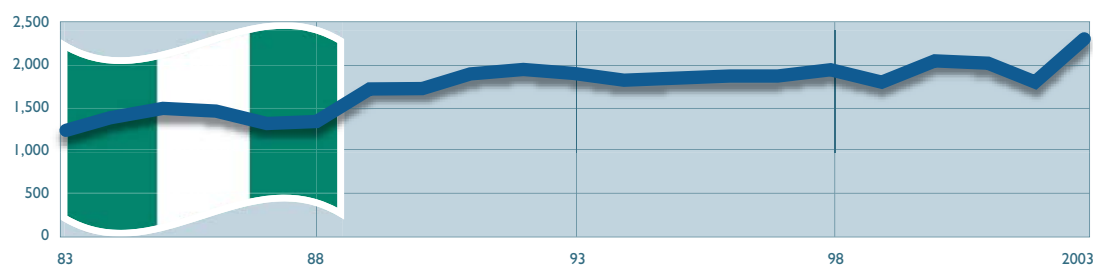


## Cumulative crude oil production in OPEC Members (1,000 b)

## Nigeria

Year	Daily average	Cumulative	% change in daily av	Year	Daily average	Cumulative	% change in daily av
1958	5.1	1,862		1981	1,439.6	8,914,910	-30.0
1959	11.2	5,950	119.6	1982	1,287.0	9,384,665	-10.6
1960	17.4	12,318	55.4	1983	1,235.5	9,835,623	-4.0
1961	46.0	29,108	164.4	1984	1,388.0	10,343,631	12.3
1962	67.5	53,745	46.7	1985	1,498.9	10,890,729	8.0
1963	76.5	81,668	13.3	1986	1,466.6	11,426,038	-2.2
1964	120.2	125,661	57.1	1987	1,323.0	11,908,933	-9.8
1965	274.2	225,744	128.1	1988	1,341.3*	12,399,867	1.4
1966	417.6	378,168	52.3	1989	1,716.3	13,026,316	28.0
1967	319.1	494,640	-23.6	1990	1,726.7	13,656,562	0.6
1968	141.3	546,355	-55.7	1991	1,893.1	14,347,544	9.6
1969	540.3	743,565	282.4	1992	1,957.0	15,063,806	3.4
1970	1,083.1	1,138,896	100.5	1993	1,905.2	15,759,204	-2.6
1971	1,531.2	1,697,784	41.4	1994	1,820.9	16,423,824	-4.4
1972	1,815.7	2,362,331	18.6	1995	1,842.6	17,096,371	1.2
1973	2,054.3	3,112,150	13.1	1996	1,863.1	17,778,253	1.1
1974	2,255.0	3,935,225	9.8	1997	1,876.7	18,463,264	0.7
1975	1,783.2	4,586,093	-20.9	1998	1,939.0*	19,171,015	3.3
1976	2,066.8	5,342,537	15.9	1999	1,781.5	19,821,263	-8.1
1977	2,085.1	6,103,598	0.9	2000	2,053.6	20,572,881	15.3
1978	1,897.0	6,796,000	-9.0	2001	2,017.6	21,309,305	-1.8
1979	2,302.0	7,636,228	21.3	2002	1,801.7	21,966,925	-10.7
1980	2,058.0	8,389,456	-10.6	2003	2,166.3	22,757,640	20.2

Graph 12 Nigeria

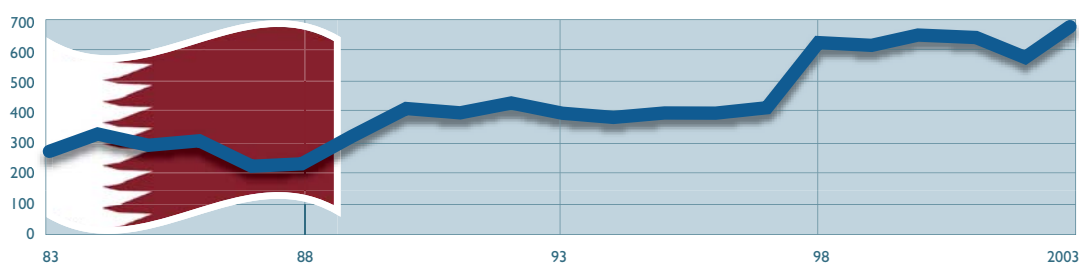


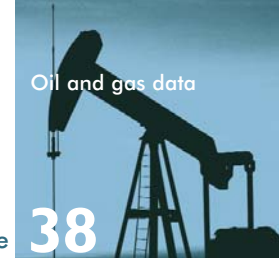
## Cumulative crude oil production in OPEC Members (1,000 b)

## Qatar

Year	Daily average	Cumulative	% change in daily av	Year	Daily average	Cumulative	% change in daily av
1949	2	730		1977	444.6	2,663,744	-10.6
1950	33.6	12,994	1,580.0	1978	486.7	2,841,383	9.5
1951	49.3	30,989	46.7	1979	508.1	3,026,842	4.4
1952	69.0	56,243	40.0	1980	471.4	3,199,374	-7.2
1953	85.0	87,268	23.2	1981	415.2	3,350,924	-11.9
1954	99.9	123,731	17.5	1982	332.0	3,472,104	-20.0
1955	115.0	165,706	15.1	1983	269.0	3,570,289	-19.0
1956	123.9	211,053	7.7	1984	325.3	3,689,348	20.9
1957	138.5	261,606	11.8	1985	289.3*	3,794,957	-11.1
1958	175.1	325,517	26.4	1986	305.7*	3,906,528	5.6
1959	170.4	387,713	-2.7	1987	218.9*	3,986,431	-28.4
1960	174.6	451,617	2.5	1988	228.0*	4,069,875	4.1
1961	177.2	516,295	1.5	1989	320.2	4,186,764	40.5
1962	186.2	584,258	5.1	1990	405.6	4,334,808	26.7
1963	191.5	654,156	2.8	1991	391.2	4,477,596	-3.6
1964	215.3	732,955	12.4	1992	423.2	4,632,487	8.2
1965	232.6	817,854	8.0	1993	390.3	4,774,946	-7.8
1966	291.3	924,179	25.2	1994	378.7	4,913,172	-3.0
1967	323.6	1,042,293	11.1	1995	389.8	5,055,460	2.9
1968	339.5	1,166,550	4.9	1996	393.1	5,199,318	0.8
1969	355.5	1,296,307	4.7	1997	405.0	5,347,148	3.0
1970	362.4	1,428,583	1.9	1998	618.1	5,572,755	52.6
1971	430.7	1,585,789	18.8	1999	608.5	5,794,857	-1.6
1972	482.4	1,762,347	12.0	2000	648.2	6,032,088	6.5
1973	570.3	1,970,507	18.2	2001	632.9	6,263,096	-2.4
1974	518.4	2,159,723	-9.1	2002	568.9	6,470,726	-10.1
1975	437.6	2,319,447	-15.6	2003	676.0	6,717,466	18.8
1976	497.3	2,501,464	13.6				

Graph 13 Qatar





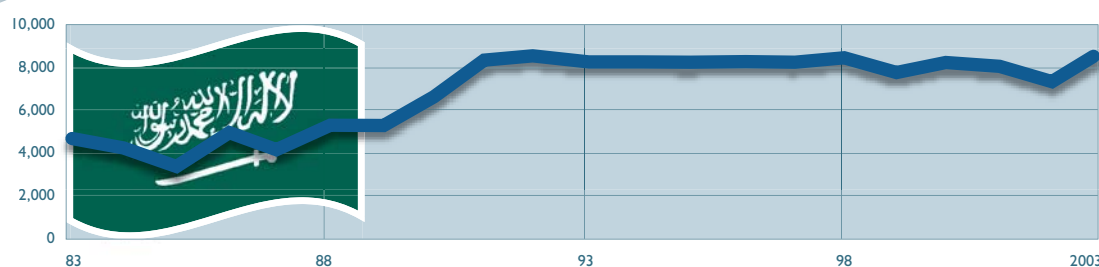
## Cumulative crude oil production in OPEC Members (1,000 b)

## Saudi Arabia

Year	Daily average	Cumulative	% change in daily av	Year	Daily average	Cumulative	% change in daily av
1938	1.4	511		1971	4,768.9	15,024,497	25.5
1939	10.8	4,453	671.4	1972	6,016.3	17,226,462	26.2
1940	13.9	9,540	28.7	1973	7,596.2	19,999,075	26.3
1941	11.8	13,847	-15.1	1974	8,479.7	23,094,166	11.6
1942	12.4	18,373	5.1	1975	7,075.4	25,676,687	-16.6
1943	13.3	23,228	7.3	1976	8,577.2	28,815,932	21.2
1944	21.3	31,024	60.2	1977	9,199.9	32,173,898	7.3
1945	58.4	52,340	174.2	1978	8,301.1	35,203,793	-9.8
1946	164.2	112,273	181.2	1979	9,532.6	38,683,202	14.8
1947	246.2	202,136	49.9	1980	9,900.5	42,306,785	3.9
1948	390.3	344,986	58.5	1981	9,808.0	45,886,705	-0.9
1949	476.7	518,981	22.1	1982	6,483.0	48,253,000	-33.9
1950	546.7	718,527	14.7	1983	4,539.4	49,909,884	-30.0
1951	761.5	996,474	39.3	1984	4,079.1	51,402,828	-10.1
1952	824.8	1,298,351	8.3	1985	3,175.0	52,561,686	-22.2
1953	844.6	1,606,630	2.4	1986	4,784.2	54,307,919	50.7
1954	961.8	1,957,687	13.9	1987	3,975.2	55,758,849	-16.9
1955	976.6	2,314,146	1.5	1988	5,100.1*	57,625,503	28.3
1956	1,002.8	2,681,171	2.7	1989	5,064.5	59,474,046	-0.7
1957	1,030.8	3,057,413	2.8	1990	6,412.5	61,814,608	26.6
1958	1,058.5	3,443,765	2.7	1991	8,117.8	64,777,605	26.6
1959	1,152.7	3,864,501	8.9	1992	8,331.7	67,827,007	2.6
1960	1,313.5	4,345,242	13.9	1993	8,047.7	70,764,418	-3.4
1961	1,480.1	4,885,478	12.7	1994	8,049.0	73,702,303	-
1962	1,642.9	5,485,137	11.0	1995	8,023.4	76,630,844	-0.3
1963	1,786.0	6,137,027	8.7	1996	8,102.3	79,596,286	1.0
1964	1,896.5	6,831,146	6.2	1997	8,011.7	82,520,556	-1.1
1965	2,205.3	7,636,080	16.3	1998	8,280.2	85,542,829	3.4
1966	2,601.8	8,585,737	18.0	1999	7,564.7	88,303,945	-8.6
1967	2,805.0	9,609,562	7.8	2000	8,094.5	91,266,532	7.0
1968	3,042.9	10,723,264	8.5	2001	7,888.9	94,145,980	-2.5
1969	3,216.2	11,897,177	5.7	2002	7,093.1	96,734,962	-10.1
1970	3,799.1	13,283,848	18.1	2003	8,410.3	99,804,721	18.6

Note: Figures include share of production from Neutral Zone.

Graph 14 Saudi Arabia

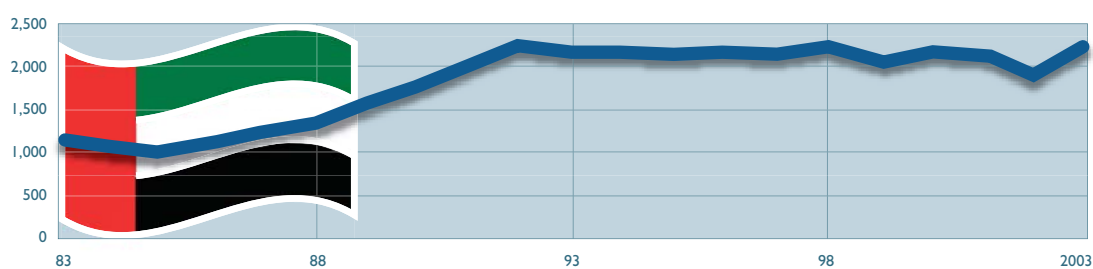


## Cumulative crude oil production in OPEC Members (1,000 b)

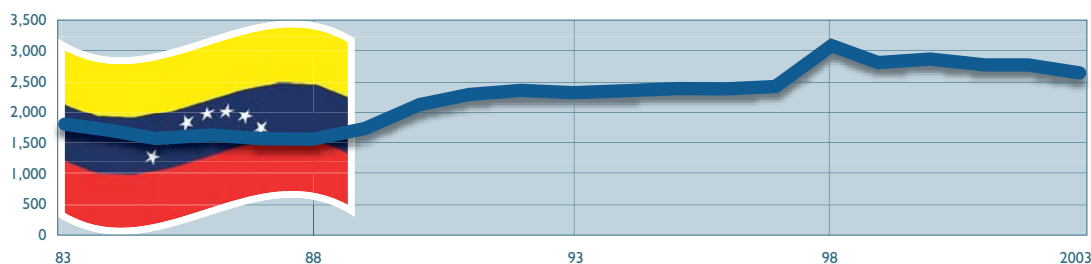
## United Arab Emirates

Year	Daily average	Cumulative	% change in daily av	Year	Daily average	Cumulative	% change in daily av
1962	14.2	5,183		1983	1,149.0	8,587,775	-8.0
1963	48.2	22,776	239.4	1984	1,069.0	8,979,037	-7.0
1964	186.8	91,145	287.6	1985	1,009.1*	9,347,375	-5.6
1965	282.2	194,148	51.1	1986	1,128.6*	9,759,296	11.8
1966	360.0	325,548	27.6	1987	1,242.3*	10,212,731	10.1
1967	382.1	465,014	6.1	1988	1,323.5*	10,697,122	6.5
1968	496.6	646,770	30.0	1989	1,593.0*	11,278,568	20.4
1969	627.8	875,917	26.4	1990	1,762.6*	11,921,927	10.6
1970	779.6	1,160,471	24.2	1991	2,027.4*	12,661,931	15.0
1971	1,059.5	1,547,188	35.9	1992	2,235.7*	13,480,186	10.3
1972	1,202.7	1,987,377	13.5	1993	2,159.3	14,268,325	-3.4
1973	1,532.6	2,546,776	27.4	1994	2,166.5	15,059,110	0.3
1974	1,678.6	3,159,465	9.5	1995	2,148.0	15,843,130	-0.9
1975	1,663.8	3,766,752	-0.9	1996	2,161.3	16,634,166	0.6
1976	1,936.4	4,475,475	16.4	1997	2,160.7	17,422,821	-
1977	1,998.7	5,205,004	3.2	1998	2,244.1	18,241,918	3.9
1978	1,830.5	5,873,137	-8.4	1999	2,048.8	18,989,730	-8.7
1979	1,830.7	6,541,339	-	2000	2,174.7	19,785,670	6.1
1980	1,701.9	7,164,231	-7.0	2001	2,115.2	20,557,718	-2.7
1981	1,502.3	7,712,570	-11.7	2002	1,900.3	21,251,327	-10.2
1982	1,248.8	8,168,382	-16.9	2003	2,248.0	22,071,847	18.3

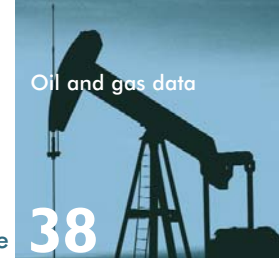
Graph 15 United Arab Emirates



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		1961	2,919.9	14,931,250	2.6
1918	0.9	438	200.0	1962	3,199.8	16,099,177	9.6
1919	0.8	730	-11.1	1963	3,247.9	17,284,661	1.5
1920	1.3	1,206	62.5	1964	3,392.8	18,526,426	4.5
1921	4.0	2,666	207.7	1965	3,472.9	19,794,034	2.4
1922	6.1	4,892	52.5	1966	3,371.1	21,024,486	-2.9
1923	11.9	9,236	95.1	1967	3,542.1	22,317,352	5.1
1924	24.9	18,349	109.2	1968	3,604.8	23,636,709	1.8
1925	54.6	38,278	119.3	1969	3,594.1	24,948,556	-0.3
1926	97.7	73,939	78.9	1970	3,708.0	26,301,976	3.2
1927	165.5	134,346	69.4	1971	3,549.1	27,597,397	-4.3
1928	289.5	240,303	74.9	1972	3,219.9	28,775,880	-9.3
1929	372.8	376,375	28.8	1973	3,366.0	30,004,470	4.5
1930	370.5	511,608	-0.6	1974	2,976.3	31,090,820	-11.6
1931	320.2	628,481	-13.6	1975	2,346.2	31,947,183	-21.2
1932	319.0	745,235	-0.4	1976	2,294.4	32,786,934	-2.2
1933	323.8	863,422	1.5	1977	2,237.9	33,603,767	-2.5
1934	373.4	999,713	15.3	1978	2,165.5	34,394,184	-3.2
1935	406.9	1,148,231	9.0	1979	2,356.4	35,254,273	8.8
1936	422.5	1,302,866	3.8	1980	2,165.0	36,046,663	-8.1
1937	508.9	1,488,615	20.4	1981	2,108.3	36,816,192	-2.6
1938	515.2	1,676,663	1.2	1982	1,895.0	37,507,867	-10.1
1939	560.4	1,881,209	8.8	1983	1,800.8	38,165,159	-5.0
1940	502.3	2,065,051	-10.4	1984	1,695.5	38,785,712	-5.8
1941	621.3	2,291,825	23.7	1985	1,564.0	39,356,572	-7.8
1942	405.9	2,439,979	-34.7	1986	1,648.5	39,958,275	5.4
1943	491.5	2,619,376	21.1	1987	1,575.5	40,533,332	-4.4
1944	702.3	2,876,418	42.9	1988	1,578.1	41,110,930	0.2
1945	886.0	3,199,808	26.2	1989	1,747.4	41,748,731	10.7
1946	1,064.3	3,588,277	20.1	1990	2,135.2	42,528,079	22.2
1947	1,191.5	4,023,175	12.0	1991	2,286.2	43,362,542	7.1
1948	1,338.8	4,513,176	12.4	1992	2,345.6	44,221,032	2.6
1949	1,321.4	4,995,487	-1.3	1993	2,326.0	45,070,022	-0.8
1950	1,498.0	5,542,257	13.4	1994	2,367.9	45,934,305	1.8
1951	1,704.6	6,164,436	13.8	1995	2,378.5	46,802,458	0.4
1952	1,803.9	6,824,663	5.8	1996	2,381.0	47,673,904	0.1
1953	1,765.0	7,468,888	-2.2	1997	2,411.0	48,553,919	1.3
1954	1,895.3	8,160,673	7.4	1998	3,120.0	49,692,719	29.4
1955	2,157.2	8,948,051	13.8	1999	2,800.4	50,714,865	-10.2
1956	2,456.8	9,847,239	13.9	2000	2,891.0	51,772,971	3.2
1957	2,779.2	10,861,647	13.1	2001	2,791.9	52,792,016	-3.4
1958	2,604.8	11,812,399	-6.3	2002	2,782.0	53,807,446	-0.4
1959	2,771.0	12,823,814	6.4	2003	2,643.0	54,772,141	-5.0
1960	2,846.1	13,865,487	2.7				

## World crude oil production by country, 1999–2003 (1,000 b/d)

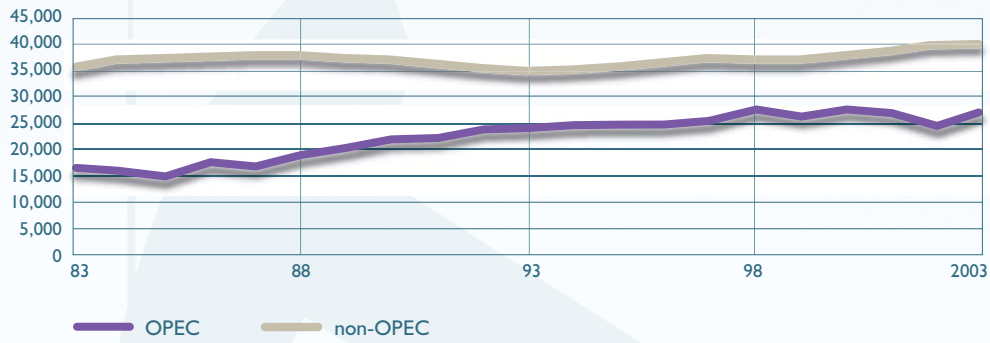
	1999	2000	2001	2002	2003	% change 03/02
<b>North America</b>	<b>7,227.1</b>	<b>7,213.1</b>	<b>7,178.9</b>	<b>7,191.3</b>	<b>7,190.8</b>	–
Canada	1,345.7	1,391.5	1,377.5	1,445.8	1,453.8	0.6
USA	5,881.5	5,821.6	5,801.4	5,745.5	5,737.0	–0.1
<b>Latin America</b>	<b>9,124.7</b>	<b>9,167.2</b>	<b>9,319.4</b>	<b>9,464.5</b>	<b>9,539.6</b>	<b>0.8</b>
Argentina	801.4	769.2	781.8	755.9	740.7	–2.0
Brazil	1,098.0	1,095.0	1,292.8	1,454.4	1,496.1	2.9
Chile	7.7	7.2	6.6	5.8	3.9	–32.9
Colombia	815.5	687.2	603.7	575.0	541.0	–5.9
Ecuador	372.1*	392.0*	401.3*	391.8*	415.5*	6.1
Mexico	2,906.1	3,012.1	3,127.1	3,177.2	3,370.8	6.1
Peru	105.9	99.2	95.1	92.8	87.6	–5.6
Trinidad & Tobago	125.0	119.5	113.4	130.6	135.5	3.7
Venezuela	2,800.4	2,891.0	2,791.9	2,782.0	2,643.0	–5.0
Others	92.6	94.6	105.9	99.1	105.5	6.5
<b>Eastern Europe</b>	<b>7,212.0</b>	<b>7,629.3</b>	<b>8,245.3</b>	<b>9,050.1</b>	<b>9,937.7</b>	<b>9.8</b>
Albania	6.2	6.3	6.0	6.0	6.0	–
Hungary	29.0	26.9	28.9	24.3	27.2	11.8
Romania	118.0	118.0	118.4	118.2	115.6	–2.1
Former USSR	7,044.9	7,459.1	8,070.4	8,880.9	9,766.0	10.0
Others	13.9	19.0	21.6	20.7	22.9	10.5
<b>Western Europe</b>	<b>6,176.9</b>	<b>6,287.5</b>	<b>6,033.6</b>	<b>5,949.6</b>	<b>5,624.5</b>	<b>–5.5</b>
Denmark	297.3	362.5	346.7	368.6	369.4	0.2
France	30.5	28.4	27.8	26.4	24.6	–6.8
Germany	53.9	62.3	64.7	69.2	72.8	5.2
Italy	83.4	74.1	64.0	84.5	90.4	6.9
Netherlands	51.2	28.0	26.6	43.4	44.8	3.2
Norway	2,880.7	3,182.8	3,118.0	2,992.4	2,852.5	–4.7
Turkey	60.2	52.7	48.5	46.6	45.3	–2.9
United Kingdom	2,649.4	2,427.1	2,269.3	2,254.3	2,062.6	–8.5
Former Yugoslavia	42.7	41.5	39.2	36.1	35.5	–1.6
Others	27.5	28.2	28.8	28.0	26.6	–4.9
<b>Middle East</b>	<b>20,288.9</b>	<b>21,430.5</b>	<b>20,779.5</b>	<b>18,648.1</b>	<b>20,451.6</b>	<b>9.7</b>
Bahrain	176.4	180.5	182.2	184.8	180.0	–2.6
IR Iran	3,439.0	3,661.3	3,572.0	3,248.0	3,741.6	15.2
Iraq	2,719.8*	2,810.0*	2,593.7	2,126.5	1,378.6*	–35.2
Kuwait <sup>1</sup>	1,872.7	1,996.1	1,947.0	1,745.9	2,107.6	20.7
Oman	903.3	898.7	872.4	823.4	751.0	–8.8
Qatar	608.5	648.2	632.9	568.9	676.0	18.8
Saudi Arabia <sup>1</sup>	7,564.7	8,094.5	7,888.9	7,093.1	8,410.3	18.6
Syrian Arab Republic	546.5	522.5	518.3	508.4	528.0	3.9
United Arab Emirates	2,048.8	2,174.7	2,115.2	1,900.3	2,248.0	18.3
Yemen	409.2	444.2	456.9	448.9	430.4	–4.1
<b>Africa</b>	<b>6,348.5</b>	<b>6,769.8</b>	<b>6,620.9</b>	<b>6,452.4</b>	<b>7,270.8</b>	<b>12.7</b>
Algeria	749.6	796.0	776.6	729.9	942.4	29.1
Angola	765.0	752.0	740.4	894.2	874.5	–2.2
Cameroon	100.0	100.7	80.0	73.9	66.6	–9.9
Congo	265.0	265.0	265.0	254.6	240.0	–5.7
Egypt	755.7	695.0	639.3	628.1	618.5	–1.5
Gabon	340.0*	327.4*	300.8*	295.0*	242.5*	–17.8
SP Libyan AJ	1,287.2*	1,347.2	1,323.5	1,200.9	1,431.9	19.2
Nigeria	1,781.5	2,053.6	2,017.6	1,801.7	2,166.3	28.4
Tunisia	79.9	76.1	68.8	72.1	65.7	–8.9
Others	224.6	356.8	409.0	502.1	622.4	24.0
<b>Asia and Pacific</b>	<b>7,024.6</b>	<b>7,165.9</b>	<b>7,124.6</b>	<b>7,177.7</b>	<b>7,075.1</b>	<b>–1.4</b>
Australia	518.5	699.8	633.7	622.3	518.2	–16.7
Brunei	166.9	177.9	180.5	188.4	194.3	3.1
China	3,211.9	3,228.3	3,297.2	3,393.1	3,407.2	0.4
India	655.8	645.5	641.5	661.1	666.1	0.8
Indonesia	1,355.5	1,272.5	1,214.2	1,125.4	1,139.7	1.3
Malaysia	617.5	598.4	579.3	596.2	640.6	7.4
New Zealand	41.4	36.7	34.5	31.0	23.6	–23.9
Others	457.2	506.8	543.9	565.6	598.1	5.7
<b>Total world</b>	<b>63,402.7</b>	<b>65,663.2</b>	<b>65,302.3</b>	<b>63,933.8</b>	<b>67,090.0</b>	<b>4.9</b>
<b>OPEC</b>	<b>26,227.8</b>	<b>27,745.0</b>	<b>26,873.5</b>	<b>24,322.5</b>	<b>26,885.4</b>	<b>10.5</b>
<b>OPEC percentage</b>	<b>41.4</b>	<b>42.3</b>	<b>41.2</b>	<b>38.0</b>	<b>40.1</b>	

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

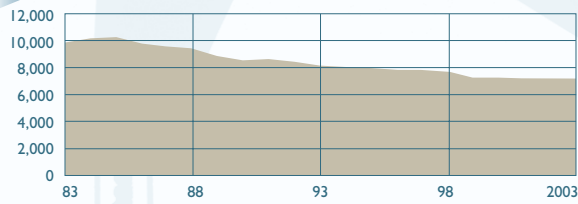
1. Including share of production from Neutral Zone.



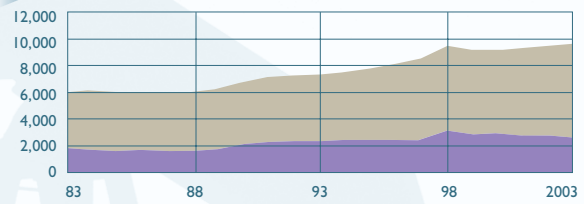
**Graph 17** World crude oil production, 1983–2003  
(1,000 b/d)



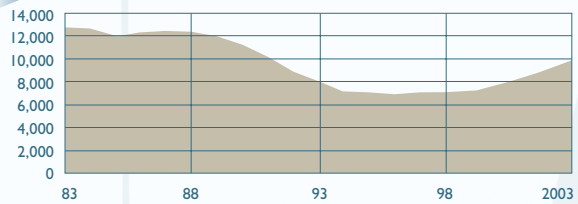
**Graph 18** North America



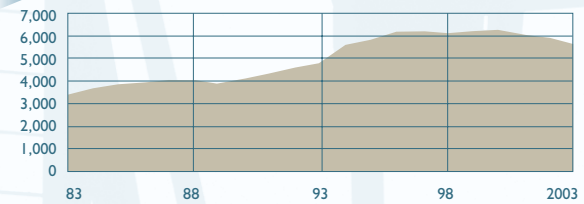
**Graph 19** Latin America



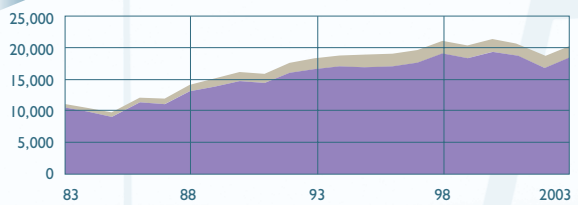
**Graph 20** Eastern Europe



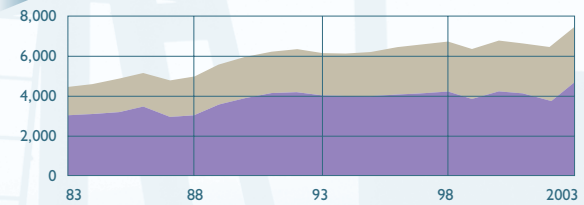
**Graph 21** Western Europe



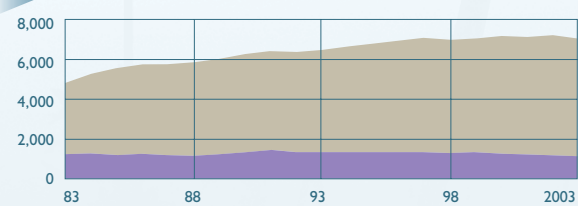
**Graph 22** Middle East



**Graph 23** Africa



**Graph 24** Asia and Pacific

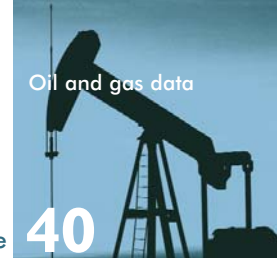


regional output regional OPEC share

## 40 Table

## Natural gas production in OPEC Members, 1999–2003 (million standard cu m)

	1999	2000	2001	2002	2003*	% change 03/02
<b>Algeria</b>						
<b>Gross production</b>	<b>155,835</b>	<b>170,179</b>	<b>173,106</b>	<b>175,197</b>	<b>176,026</b>	<b>0.5</b>
Marketed production	81,507	83,119	78,240	80,367	82,829	3.1
Flaring	6,730	6,800	4,080	4,180	4,272	2.2
Reinjection	58,204	69,162	78,152	77,571	74,645	-3.8
Shrinkage	9,394	11,098	12,634	13,079	14,280	9.2
<b>Indonesia</b>						
<b>Gross production</b>	<b>86,880</b>	<b>82,167</b>	<b>82,800</b>	<b>86,860</b>	<b>89,450</b>	<b>3.0</b>
Marketed production	70,960	68,365	66,300	70,350	72,600	3.2
Flaring	4,810	4,807	4,800	4,600	4,500	-2.2
Reinjection	6,480	4,453	7,000	6,810	7,050	3.5
Shrinkage	4,630	4,542	4,700	5,100	5,300	3.9
<b>IR Iran</b>						
<b>Gross production</b>	<b>104,605</b>	<b>122,379</b>	<b>114,325</b>	<b>121,000</b>	<b>121,880</b>	<b>0.7</b>
Marketed production	56,755	60,147	69,145	75,000	79,000	5.3
Flaring	12,500	12,550	7,439	8,200	7,374	-10.1
Reinjection	29,850	44,132	32,441	30,000	28,426	-5.2
Shrinkage	5,500	5,550	5,300	7,800	7,080	-9.2
<b>Iraq</b>						
<b>Gross production</b>	<b>4,380</b>	<b>4,350</b>	<b>3,950</b>	<b>3,550</b>	<b>2,430</b>	<b>-31.5</b>
Marketed production	3,180	3,150	2,760	2,360	1,560	-33.9
Flaring	950	950	950	950	700	-26.3
Reinjection	-	-	-	-	-	-
Shrinkage	250	250	240	240	170	-29.2
<b>Kuwait</b>						
<b>Gross production</b>	<b>10,144</b>	<b>11,200</b>	<b>10,546</b>	<b>9,457</b>	<b>11,020</b>	<b>16.5</b>
Marketed production	8,688	9,600	9,500	8,000	8,900	11.3
Flaring	458	500	324	457	600	31.3
Reinjection	-	-	-	-	-	-
Shrinkage	998	1,100	722	1,000	1,520	52.0
<b>SP Libyan AJ</b>						
<b>Gross production</b>	<b>9,200</b>	<b>10,150</b>	<b>10,330</b>	<b>10,360</b>	<b>10,600</b>	<b>2.3</b>
Marketed production	5,200	5,880	6,180	6,210	6,400	3.1
Flaring	1,300	1,380	1,360	1,350	1,340	-0.7
Reinjection	2,100	2,540	2,450	2,450	2,500	2.0
Shrinkage	600	350	340	350	360	2.9
<b>Nigeria</b>						
<b>Gross production</b>	<b>30,700</b>	<b>34,860</b>	<b>39,300</b>	<b>38,100</b>	<b>43,300</b>	<b>13.6</b>
Marketed production	6,950	12,460	14,900	14,200	19,200	35.2
Flaring	18,850	17,200	19,200	18,900	18,700	-1.1
Reinjection	4,000	4,000	3,500	3,300	3,600	9.1
Shrinkage	900	1,200	1,700	1,700	1,800	5.9
<b>Qatar</b>						
<b>Gross production</b>	<b>29,300</b>	<b>33,100</b>	<b>35,400</b>	<b>38,100</b>	<b>39,550</b>	<b>3.8</b>
Marketed production	22,050	24,900	27,000	29,500	30,800	4.4
Flaring	-	-	300	300	300	-
Reinjection	4,000	4,500	3,850	3,800	3,850	1.3
Shrinkage	3,250	3,700	4,250	4,500	4,600	2.2

**Natural gas production in OPEC Members, 1999–2003** (million standard cu m)

	1999	2000	2001	2002	2003*	% change 03/02
<b>Saudi Arabia</b>						
<b>Gross production</b>	<b>51,960</b>	<b>57,330</b>	<b>60,490</b>	<b>64,410</b>	<b>67,920</b>	<b>5.4</b>
Marketed production	46,200	49,810	53,690	57,320	60,060	4.8
Flaring	310	580	230	70	120	71.4
Reinjection	50	100	90	160	440	175.0
Shrinkage	5,400	6,840	6,480	6,860	7,300	6.4
<b>United Arab Emirates</b>						
<b>Gross production</b>	<b>51,000</b>	<b>50,530</b>	<b>59,020</b>	<b>63,830</b>	<b>64,960</b>	<b>1.8</b>
Marketed production	38,990	38,380	39,360	43,390	44,400	2.3
Flaring	1,300	1,290	690	470	460	-2.1
Reinjection	7,450	7,500	14,600	15,200	15,300	0.7
Shrinkage	3,260	3,360	4,370	4,770	4,800	0.6
<b>Venezuela</b>						
<b>Gross production</b>	<b>57,066</b>	<b>61,878</b>	<b>62,370</b>	<b>61,982</b>	<b>61,657</b>	<b>-0.5</b>
Marketed production	26,771	27,801	31,710	28,415	26,060	-8.3
Flaring	3,702	4,874	3,320	4,336	4,391	1.3
Reinjection	19,712	20,407	21,200	24,522	26,278	7.2
Shrinkage	6,881	8,796	6,140	4,709	4,928	4.7
<b>OPEC</b>						
<b>Gross production</b>	<b>591,070</b>	<b>638,123</b>	<b>651,637</b>	<b>672,846</b>	<b>688,793</b>	<b>2.4</b>
Marketed production	367,251	383,612	398,785	415,112	431,809	4.0
Flaring	50,910	50,931	42,693	43,813	42,757	-2.4
Reinjection	131,846	156,794	163,283	163,813	162,089	-1.1
Shrinkage	41,063	46,786	46,876	50,108	52,138	4.1

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



## 41 Table

## World marketed production of natural gas by country, 1999–2003 (million standard cu m)

	1999	2000	2001	2002	2003	% change 03/02
<b>North America</b>	<b>710,710</b>	<b>726,434</b>	<b>742,345</b>	<b>724,876</b>	<b>720,527</b>	<b>-0.6</b>
Canada	177,370	183,190	186,800	187,810	180,500	-3.9
United States	533,340	543,244	555,545	537,066	540,027	0.6
<b>Latin America</b>	<b>125,251</b>	<b>131,461</b>	<b>138,770</b>	<b>139,215</b>	<b>152,550</b>	<b>9.6</b>
Argentina	34,570	37,410	37,140	36,110	41,000	13.5
Bolivia	2,470	3,150	4,680	5,800	6,100	5.2
Brazil	6,170	5,310	6,620	8,130	10,100	24.2
Chile	1,200	1,140	1,200	1,100	1,100	-
Colombia	5,180	5,700	6,090	6,160	6,100	-1.0
Mexico	36,150	35,820	35,310	35,310	36,400	3.1
Trinidad & Tobago	11,730	14,050	15,190	17,300	24,800	43.4
Venezuela	26,771	27,801	31,710	28,415	26,060	-8.3
Others	1,010	1,080	830	890	890	-
<b>Eastern Europe</b>	<b>726,720</b>	<b>744,280</b>	<b>746,530</b>	<b>761,100</b>	<b>793,110</b>	<b>4.2</b>
Hungary	3,400	3,190	3,150	3,060	3,060	-
Poland	3,650	3,900	4,000	4,000	4,000	-
Romania	14,600	13,600	13,000	11,000	12,300	11.8
Former USSR	704,710	723,240	726,030	742,690	773,400	4.1
Others	726,720	744,280	746,530	761,100	793,110	4.2
<b>Western Europe</b>	<b>277,020</b>	<b>282,630</b>	<b>284,750</b>	<b>293,940</b>	<b>298,620</b>	<b>1.6</b>
Denmark	7,770	8,190	8,380	8,400	7,900	-6.0
Germany	22,430	21,240	21,440	20,200	22,300	10.4
Italy	17,480	15,700	15,520	14,580	13,700	-6.0
Netherlands	72,030	67,750	72,260	71,240	71,000	-0.3
Norway	49,880	52,880	55,100	68,310	73,400	7.5
United Kingdom	98,710	108,330	104,470	103,590	102,700	-0.9
Others	8,720	8,540	7,580	7,620	7,620	-
<b>Middle East</b>	<b>196,193</b>	<b>208,907</b>	<b>230,215</b>	<b>247,150</b>	<b>257,440</b>	<b>4.2</b>
Bahrain	8,410	8,530	8,900	9,460	9,600	1.5
IR Iran	56,755	60,147	69,145	75,000	79,000	5.3
Iraq	3,180	3,150	2,760	2,360	1,560	-33.9
Kuwait	8,688	9,600	9,500	8,000	8,900	11.3
Oman	5,590	8,390	13,970	15,000	16,500	10.0
Qatar	22,050	24,900	27,000	29,500	30,800	4.4
Saudi Arabia	46,200	49,810	53,690	57,320	60,060	4.8
Syrian Arab Republic	6,040	5,700	5,590	6,800	6,300	-7.4
United Arab Emirates	38,990	38,380	39,360	43,390	44,400	2.3
Others	290	300	300	320	320	-
<b>Africa</b>	<b>113,797</b>	<b>125,589</b>	<b>130,270</b>	<b>133,707</b>	<b>141,359</b>	<b>5.7</b>
Algeria	81,507	83,119	78,240	80,367	82,829	3.1
Egypt	14,670	18,300	24,450	25,000	25,000	-
SP Libyan AJ	5,200	5,880	6,180	6,210	6,400	3.1
Nigeria	6,950	12,460	14,900	14,200	19,200	35.2
Others	5,470	5,830	6,500	7,930	7,930	-
<b>Asia and Pacific</b>	<b>258,390</b>	<b>273,115</b>	<b>280,950</b>	<b>299,610</b>	<b>321,100</b>	<b>7.2</b>
Australia	31,700	32,300	33,600	34,600	36,200	4.6
Bangladesh	9,050	9,500	10,300	11,100	12,200	9.9
Brunei	9,450	9,940	10,350	10,850	12,400	14.3
China	24,190	27,100	30,300	32,630	34,100	4.5
India	21,300	22,500	24,100	26,200	30,100	14.9
Indonesia	70,960	68,365	66,300	70,350	72,600	3.2
Malaysia	40,270	48,350	46,940	48,500	53,400	10.1
Myanmar	1,720	3,400	7,000	8,400	8,900	6.0



World marketed production of natural gas by country, 1999–2003 (million standard cu m)

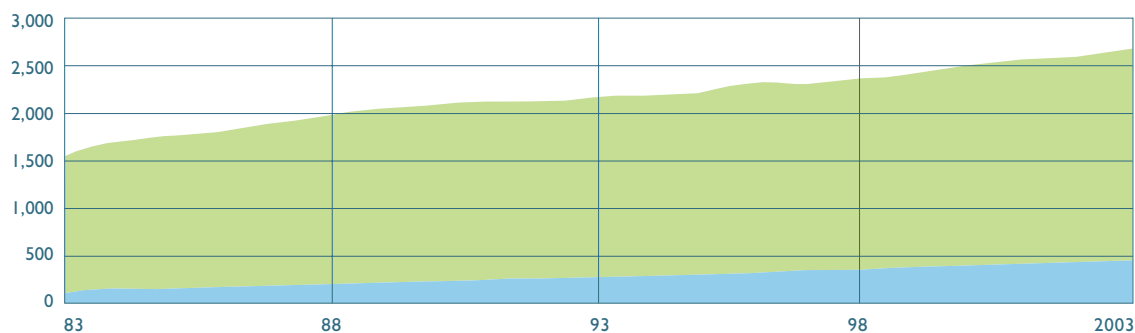
	1999	2000	2001	2002	2003	% change 03/02
<b>Asia and Pacific (continued)</b>						
New Zealand	5,300	5,400	6,450	6,150	6,150	–
Pakistan	22,200	22,800	21,930	22,900	24,800	8.3
Thailand	17,710	18,620	18,670	19,980	22,300	11.6
Others	4,540	4,840	5,010	7,950	7,950	–
<b>Total world</b>	<b>2,408,081</b>	<b>2,492,416</b>	<b>2,553,830</b>	<b>2,599,598</b>	<b>2,684,706</b>	<b>3.3</b>
<b>OPEC</b>	<b>367,251</b>	<b>383,612</b>	<b>398,785</b>	<b>415,112</b>	<b>431,809</b>	<b>4.0</b>
<b>OPEC percentage</b>	<b>15.3</b>	<b>15.4</b>	<b>15.6</b>	<b>16.0</b>	<b>16.1</b>	

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

Graph 25

## World marketed gas production, 1983–2003

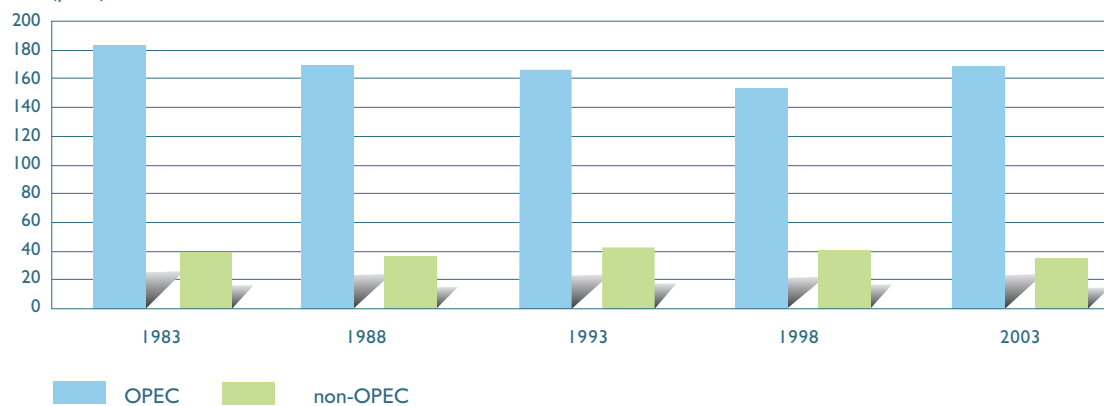
(bn cu m)



Graph 26

## World natural gas reserves to production ratios (gross production minus re-injection)

(years)



## 42 Table

## Crude oil production by companies in OPEC Members, 1999–2003 (1,000 b/d)

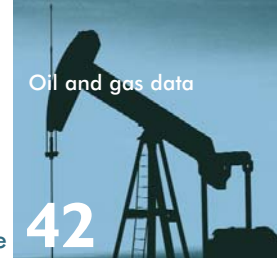
	1999*	2000*	2001*	2002*	2003*	% change 03/02
<b>Algeria</b>						
Sonatrach	698.1	741.3	723.3	679.8	877.7	–
Total Algérie	7.1	7.5	7.3	6.9	8.9	–
Medaloil	na	na	na	na	na	na
Hispanoil	na	na	na	na	na	na
Braspetro	na	na	na	na	na	na
<b>Total</b>	<b>749.6</b>	<b>796.0</b>	<b>776.6</b>	<b>729.9</b>	<b>942.4</b>	<b>29.1</b>

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

	1999*	2000	2001	2002*	2003*	% change 03/02
<b>Indonesia</b>						
Pertamina	57.6	45.9	43.8	40.0	40.5	na
PT Stanvac	na	na	na	na	na	na
Calasiatic/Topco	na	na	na	na	na	na
<b>Production sharing</b>	<b>1,021.2</b>	<b>1,150.0</b>	<b>1,097.3</b>	<b>1,017.2</b>	<b>1,030.0</b>	<b>na</b>
PT Caltex	545.9	693.5	661.7	574.4	581.6	na
Inpex	na	na	na	na	na	na
Arri	54.7	54.7	52.2	39.5	40.0	na
Arco	na	na	na	na	na	na
Hudbay Oil	na	na	na	na	na	na
Total Indonésie	68.9	21.5	20.5	17.5	17.7	na
Calasiatic/Topco	–	–	–	–	–	na
Unocal	48.2	55.4	52.9	51.2	51.8	na
Petromer Trend	na	na	na	na	na	na
Conoco	26.3	47.8	45.6	62.1	62.9	na
Maxus SES	81.6	126.7	120.9	na	na	na
Asamera North, South	2.6	na	na	na	na	na
Tesoro	na	na	na	na	na	na
Marathon	16.3	na	na	na	na	na
CSR	na	na	na	na	na	na
Hufco	na	na	na	na	na	na
Kodeco Energy	2.6	3.8	3.6	13.4	13.6	na
Vico	45.0	na	na	19.8	20.0	na
PTSI	6.6	na	na	na	na	na
Lasmo	4.5	na	11.1	na	na	na
PT Stanvac (Rimau)	na	na	na	na	na	na
Others	118.0	146.6	na	na	na	na
<b>Total</b>	<b>1,355.5</b>	<b>1,272.5</b>	<b>1,214.2</b>	<b>1,125.5</b>	<b>1,139.7</b>	<b>1.3</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.

	1999	2000	2001	2002*	2003*	% change 03/02
<b>IR Iran</b>						
NIOC	3,439.0	3,661.3	3,572.0	3,248.4	3,741.6	–
<b>Total</b>	<b>3,439.0</b>	<b>3,661.3</b>	<b>3,572.0</b>	<b>3,248.4</b>	<b>3,741.6</b>	<b>15.2</b>


**Crude oil production by companies in OPEC Members, 1999–2003** (1,000 b/d)

<b>Iraq</b>	1999	2000	2001	2002*	2003*	% change 03/02
INOC	2,719.8	2,810.0	2,593.7	2,126.5	1,378.6	–
<b>Total</b>	<b>2,719.8</b>	<b>2,810.0</b>	<b>2,593.7</b>	<b>2,126.5</b>	<b>1,378.6</b>	<b>–35.2</b>

<b>Kuwait</b>	1999*	2000*	2001*	2002*	2003*	% change 03/02
KOC	1,692.0	1,803.4	1,759.1	1,577.4	1,904.2	20.7
AOC	180.7	na	na	na	na	na
<b>Total</b>	<b>1,872.7</b>	<b>1,996.1</b>	<b>1,947.0</b>	<b>1,745.9</b>	<b>2,107.6</b>	<b>20.7</b>

<b>SP Libyan AJ</b>	1999	2000	2001	2002*	2003*	% change 03/02
Ageco/NOC	na	na	350.0	350.2	417.8	–
Oasis/NOC	na	na	375.0	375.1	447.5	–
Occidental/OMV/NOC	na	na	10.0	20.0	23.9	–
Agip	na	na	220.0	180.0	214.7	–
Esso Standard/NOC	na	na	na	na	na	na
Mobil/NOC	na	na	na	na	na	na
Umm Jawaby/ Sirte/NOC	na	na	40.0	60.0	71.6	–
Aquitaine/NOC	na	na	na	na	na	na
Wintershall	na	na	70.0	80.0	95.4	–
NOC, other	na	na	258.5	135.0	161.0	–
<b>Total</b>	<b>1,287.2</b>	<b>1,347.2</b>	<b>1,323.5</b>	<b>1,200.3</b>	<b>1,431.9</b>	<b>19.3</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.

<b>Nigeria</b>	1999*	2000*	2001*	2002*	2003*	% change 03/02
Shell/NNPC	821.5	947.0	930.4	830.8	999.0	–
Gulf/NNPC	354.1	408.0	400.8	358.0	430.4	–
Mobil/NNPC	263.9	304.2	298.9	266.9	320.9	–
Agip/NNPC	137.2	158.1	155.4	138.7	166.8	–
ELF/NNPC	116.9	134.8	132.4	118.3	142.2	–
Texaco/NNPC	49.9	57.6	56.6	50.5	60.7	–
Pan Ocean	3.1	3.6	3.6	3.2	3.8	–
Tenneco	na	na	na	na	na	na
Phillips	na	na	na	na	na	na
Others	17.8	20.5	20.2	18.0	21.6	–
<b>Production sharing</b>						
Ashland	17.1	19.7	19.4	17.3	20.8	–
<b>Total</b>	<b>1,781.5</b>	<b>2,053.6</b>	<b>2,017.6</b>	<b>1,801.7</b>	<b>2,166.3</b>	<b>20.2</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.

## 42 Table

## Crude oil production by companies in OPEC Members, 1999–2003 (1,000 b/d)

<b>Qatar</b>	1999*	2000*	2001*	2002*	2003*	% change 03/02
QGPC						
Offshore	408.5	435.2	424.9	381.9	453.8	–
Onshore	200.0	213.0	208.0	187.0	222.2	–
<b>Total</b>	<b>608.5</b>	<b>648.2</b>	<b>632.9</b>	<b>568.9</b>	<b>676.0</b>	<b>18.8</b>

<b>Saudi Arabia</b>	1999*	2000*	2001*	2002*	2003*	% change 03/02
Aramco	7,274.1	7,852.5	7,570.6	6,792.3	8,103.5	19.3
AOC	na	na	na	na	na	na
Getty Oil Company	na	na	na	na	na	na
<b>Total</b>	<b>7,564.7</b>	<b>8,094.5</b>	<b>7,888.9</b>	<b>7,093.1</b>	<b>8,410.3</b>	<b>18.6</b>

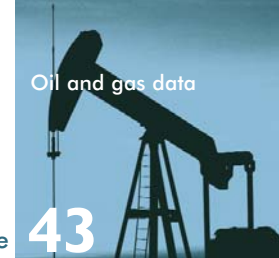
Notes: Sum of figures may not equal totals due to unavailability of data for some companies. Revisions have been made throughout the time series.

<b>United Arab Emirates</b>	1999*	2000*	2001*	2002*	2003*	% change 03/02
<b>Abu Dhabi</b>						
ADCO	995.5	1,082.5	1,059.7	961.7	1,151.6	–
ADMA	453.6	493.2	482.8	438.2	524.7	–
Total	28.7	31.2	30.5	27.7	33.2	–
ADOC	22.5	24.5	24.0	21.8	26.1	–
Amerada Hess	9.9	10.8	10.6	9.6	11.5	–
Zadco	315.0	342.5	335.3	304.3	364.4	–
<b>Dubai</b>						
DPC	215.2	181.9	166.2	137.0	136.5	–
<b>Sharjah</b>						
Buttes	8.4	8.2	6.1	na	na	–
<b>Total</b>	<b>2,048.8</b>	<b>2,174.7</b>	<b>2,115.2</b>	<b>1,900.3</b>	<b>2,248.0</b>	<b>18.3</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.

<b>Venezuela</b>	1999*	2000*	2001*	2002*	2003*	% change 03/02
Lagoven	–	–	–	–	–	–
Maraven	–	–	–	–	–	–
Meneven	–	–	–	–	–	–
Corpoven	–	–	–	–	–	–
PDVSA	2,800.4	2,891.0	2,791.9	2,782.0	2,643.0	–
<b>Total</b>	<b>2,800.4</b>	<b>2,891.0</b>	<b>2,791.9</b>	<b>2,782.0</b>	<b>2,643.0</b>	<b>–5.0</b>




**Parent companies' percentage equity in companies holding producing rights in OPEC Members, 2003**

	BP <sup>1</sup>	Total <sup>2</sup>	Exxon <sup>3</sup>	Mobil <sup>3</sup>	Shell	Chevron <sup>4</sup>	Texaco <sup>4</sup>	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

Notes: Figures as at year-end.

1. BP and Amoco merged on December 31, 1998. The firm changed its name to BP in 2002.
2. TotalFina merged with Elf in 2000. The merged firm changed its name to Total in 2003.
3. Exxon and Mobil merged on November 30, 1999.
4. Chevron and Texaco merged in October 2001.

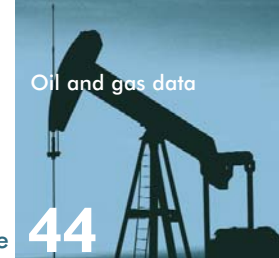
## 43 Table

## Parent companies' percentage equity in companies holding producing rights in OPEC Members, 2003

	BP <sup>1</sup>	Total <sup>2</sup>	Exxon <sup>3</sup>	Mobil <sup>3</sup>	Shell	Chevron <sup>4</sup>	Texaco <sup>4</sup>	Government or NOC	Others
<b>Nigeria</b>									
Shell/NNPC	–	–	–	–	30.00	–	–	60.00	10.00
Chevron/NNPC	–	–	–	–	–	40.00	–	60.00	–
Mobil/NNPC	–	–	–	40.00	–	–	–	60.00	–
Agip/Phillips/NNPC	–	–	–	–	–	–	–	60.00	40.00
Elf/NNPC	–	–	–	–	–	–	–	60.00	40.00
Texaco/NNPC	–	–	–	–	–	20.00	20.00	60.00	–
Pan Ocean	–	–	–	–	–	–	–	60.00	40.00
Tenneco	–	–	–	–	–	–	–	80.00	20.00
Phillips	–	–	–	–	–	–	–	60.00	40.00
<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. The firm changed its name to BP in 2002.
2. TotalFina merged with Elf in 2000. The merged firm changed its name to Total in 2003.
3. Exxon and Mobil merged on November 30, 1999.
4. Chevron and Texaco merged in October 2001.



**Parent companies' estimated gross share of crude oil production in OPEC Members, 1999–2003** (1,000 b/d)

	1999	2000	2001	2002*	2003*
<b>Algeria</b>	<b>750</b>	<b>796</b>	<b>777</b>	<b>730</b>	<b>942</b>
Total Algérie <sup>2</sup>	7	8	7	7	8
Government or NOC	699	741	723	679	877
Others	44	47	47	44	57
<b>Indonesia</b>	<b>1,356</b>	<b>1,273</b>	<b>1,214</b>	<b>1,126</b>	<b>1,140</b>
Total Indonésie <sup>2</sup>	80	75	71	18	18
Exxon <sup>3</sup>	20	19	18	na	na
Mobil <sup>3</sup>	64	60	58	na	na
Chevron <sup>4</sup>	315	295	282	287	291
Texaco <sup>4</sup>	315	295	282	287	291
Government or NOC	66	62	59	40	40
Others	496	465	444	494	500
<b>IR Iran</b>	<b>3,439</b>	<b>3,661</b>	<b>3,572</b>	<b>3,248</b>	<b>3,742</b>
Government or NOC	3,439	3,661	3,572	3,248	3,742
Others	–	–	–	–	–
<b>Iraq</b>	<b>2,720</b>	<b>2,810</b>	<b>2,594</b>	<b>2,127</b>	<b>1,379</b>
Government or NOC	2,720	2,810	2,594	2,127	1,379
Others	–	–	–	–	–
<b>Kuwait</b>	<b>1,873</b>	<b>1,996</b>	<b>1,947</b>	<b>1,746</b>	<b>2,108</b>
Government or NOC	1,692	1,803	1,759	1,577	1,904
Others	181	193	188	169	204
<b>SP Libyan AJ</b>	<b>1,287</b>	<b>1,347</b>	<b>1,324</b>	<b>1,200</b>	<b>1,432</b>
Government or NOC	958	1,003	974	883	1,054
Others	329	344	350	317	378
<b>Nigeria</b>	<b>1,782</b>	<b>2,054</b>	<b>2,018</b>	<b>1,802</b>	<b>2,166</b>
Total <sup>2</sup>	47	54	53	47	57
Mobil <sup>3</sup>	105	121	119	106	128
Shell	247	284	279	250	300
Chevron <sup>4</sup>	151	174	171	153	184
Texaco <sup>4</sup>	10	11	11	10	12
Government or NOC	1,069	1,233	1,211	1,081	1,300
Others	153	176	173	155	186
<b>Qatar</b>	<b>609</b>	<b>648</b>	<b>633</b>	<b>569</b>	<b>676</b>
Government or NOC	609	648	633	569	676
Others	–	–	–	–	–
<b>Saudi Arabia</b>	<b>7,565</b>	<b>8,095</b>	<b>7,889</b>	<b>7,093</b>	<b>8,410</b>
Government or NOC	7,384	7,901	7,700	6,923	8,104
Others	181	194	189	170	306
<b>United Arab Emirates</b>	<b>2,049</b>	<b>2,175</b>	<b>2,114</b>	<b>1,900</b>	<b>2,248</b>
BP <sup>1</sup>	155	164	159	143	170
Total <sup>2</sup>	167	177	172	155	183
Exxon <sup>3</sup>	71	75	73	66	78
Mobil <sup>3</sup>	71	75	73	66	78
Shell	91	97	94	84	100
Government or NOC	1,103	1,171	1,138	1,023	1,210
Others	392	416	404	363	430
<b>Venezuela</b>	<b>2,800</b>	<b>2,891</b>	<b>2,792</b>	<b>2,782</b>	<b>2,643</b>
Government or NOC	2,800	2,891	2,792	2,432	2,643
Others	–	–	–	–	–

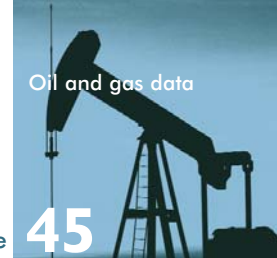
## 44 Table

**Parent companies' estimated gross share of crude oil production in OPEC Members, 1999–2003 (1,000 b/d)**

	1999	2000	2001	2002*	2003*
<b>OPEC</b>	<b>26,230</b>	<b>27,746</b>	<b>26,874</b>	<b>24,323</b>	<b>27,033</b>
BP <sup>1</sup>	155	164	159	143	170
Total <sup>2</sup>	301	314	304	227	267
Exxon <sup>3</sup>	92	95	92	66	78
Mobil <sup>3</sup>	241	257	250	172	206
Shell	338	381	373	334	400
Chevron <sup>4</sup>	466	470	453	440	474
Texaco <sup>4</sup>	324	306	293	297	302
Government or NOC	22,539	23,924	23,155	20,583	22,929
Others	1,775	1,835	1,795	1,711	2,061

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

1. BP and Amoco merged on December 31, 1998. The firm changed its name to BP in 2002.
2. TotalFina merged with Elf on February 9, 2000. The merged company changed its name to Total in 2003.
3. Exxon and Mobil merged on November 30, 1999.
4. Chevron and Texaco merged to in October 2001.



Refinery capacity in OPEC Members by location, 1999–2003 (1,000 b/d)

	Location	1999	2000	2001	2002	2003
<b>Algeria</b>		<b>462.2</b>	<b>462.2</b>	<b>462.2</b>	<b>462.2</b>	<b>462.2</b>
Sonatrach	Skikda	323.4	323.4	323.4	323.4	323.4
	Arzew	53.9	53.9	53.9	53.9	53.9
	El Harrach	58.2	58.2	58.2	58.2	58.2
	Hassi Messaoud	26.7	26.7	26.7	26.7	26.7
	In Amenas	–	–	–	–	–
<b>Indonesia</b>		<b>929.7</b>	<b>1,057.0</b>	<b>1,057.0</b>	<b>1,057.0</b>	<b>1,057.0</b>
Pertamina	Musi <sup>1</sup>	109.1	135.2	135.2	135.2	135.2
	Balongan	125.0	125.0	125.0	125.0	125.0
	Dumai	114.0	120.0	120.0	120.0	120.0
	Cilacap	285.0	348.0	348.0	348.0	348.0
	Balikpapan	240.9	260.0	260.0	260.0	260.0
	Sungai Pakning	47.5	50.0	50.0	50.0	50.0
	Pangkalan Brandan	4.8	5.0	5.0	5.0	5.0
	Wonokromo	na	na	na	na	na
	Cepu	3.4	3.8	3.8	3.8	3.8
	Kasim	–	10.0	10.0	10.0	10.0
<b>IR Iran</b>		<b>1,524.0</b>	<b>1,474.0</b>	<b>1,474.0</b>	<b>1,474.0</b>	<b>1,474.0</b>
NIOC	Abadan	450.0	400.0	400.0	400.0	400.0
	Arak	150.0	150.0	150.0	150.0	150.0
	Tehran	225.0	225.0	225.0	225.0	225.0
	Isfahan	265.0	265.0	265.0	265.0	265.0
	Tabriz	112.0	112.0	112.0	112.0	112.0
	Shiraz	40.0	40.0	40.0	40.0	40.0
	Kermanshah	30.0	30.0	30.0	30.0	30.0
	Lavan	20.0	20.0	20.0	20.0	20.0
	Masjid-I-Sulaiman	–	–	–	–	–
	Bandar Abbas	232.0	232.0	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>899.0</b>	<b>899.0</b>	<b>899.0</b>	<b>899.0</b>	<b>831.0</b>
KNPC	Mina Al-Ahmadi	450.0	450.0	450.0	450.0	412.0
	Shuaiba	194.0	194.0	194.0	194.0	179.0
	Mina Abdullah	255.0	255.0	255.0	255.0	240.0

1. Plaju and Sungai Gerong.

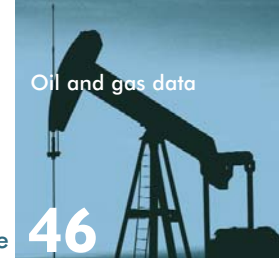


## 45 Table

## Refinery capacity in OPEC Members by location, 1999–2003 (1,000 b/d)

	Location	1999	2000	2001	2002	2003
<b>SP Libyan AJ</b>		<b>342.0</b>	<b>380.0</b>	<b>380.0</b>	<b>380.0</b>	<b>380.0</b>
NOC	Zawia	108.0	120.0	120.0	120.0	120.0
	Marsa El-Brega	9.0	10.0	10.0	10.0	10.0
	Ras Lanuf	198.0	220.0	220.0	220.0	220.0
	Tobruk	18.0	20.0	20.0	20.0	20.0
	Sarir	9.0	10.0	10.0	10.0	10.0
<b>Nigeria</b>		<b>424.0</b>	<b>445.0</b>	<b>445.0</b>	<b>445.0</b>	<b>445.0</b>
WRPC	Warri	125.0	125.0	125.0	125.0	125.0
KRPC	Kaduna	110.0	110.0	110.0	110.0	110.0
PHRC	Port Harcourt	54.0	60.0	60.0	60.0	60.0
	Port Harcourt New	135.0	150.0	150.0	150.0	150.0
<b>Qatar</b>		<b>63.0</b>	<b>63.0</b>	<b>63.0</b>	<b>80.0</b>	<b>80.0</b>
NODCO	Umm Said I	13.0	13.0	13.0	–	–
	Umm Said II	50.0	50.0	50.0	80.0	80.0
<b>Saudi Arabia</b>		<b>1,810.0</b>	<b>1,825.0</b>	<b>1,825.0</b>	<b>1,825.0</b>	<b>1,864.0</b>
Saudi Aramco	Ras Tanura	325.0	325.0	325.0	325.0	325.0
	Jeddah	60.0	60.0	60.0	60.0	77.0
	Riyadh	110.0	115.0	115.0	115.0	122.0
Getty	Mina Saud	–	–	–	–	–
AOC	Khafji	30.0	30.0	30.0	30.0	30.0
Saudi Aramco	Yanbu (domestic)	210.0	225.0	225.0	225.0	235.0
Saudi Aramco/Mobil	Yanbu (export)	365.0	365.0	365.0	365.0	400.0
Saudi Aramco/Shell	Jubail	310.0	305.0	305.0	305.0	305.0
Saudi Aramco/Petrola	Rabigh	400.0	400.0	400.0	400.0	370.0
<b>United Arab Emirates</b>		<b>411.0</b>	<b>420.0</b>	<b>491.3</b>	<b>491.3</b>	<b>466.3</b>
ADNOC	Al-Ruwais	126.0	140.0	140.0	140.0	120.0
	Umm Al-Narr	85.0	90.0	90.0	90.0	85.0
Metro Oil	Fujairah	80.0	70.0	70.0	70.0	70.0
Emirate Oil	Jebel Ali	120.0	120.0	120.0	120.0	120.0
Sharjah Oil Refinery	Hamriyah	–	–	71.3	71.3	71.3
<b>Venezuela</b>		<b>1,188.4</b>	<b>1,183.2</b>	<b>1,183.2</b>	<b>1,199.0</b>	<b>1,003.8</b>
PDVSA	Amuay	571.0	564.0	564.0	564.0	437.3
	Caripito	–	–	–	–	–
	Cardon	297.0	293.0	293.0	293.0	227.1
	San Lorenzo	–	–	–	–	–
	Bajo Grande	–	11.0	11.0	14.9	3.3
	Moron	–	–	–	–	–
	Tucupita	–	–	–	–	–
	Puerto La Cruz/El Chaure	200.2	200.2	200.2	200.2	160.0
	San Roque	5.2	–	–	–	–
	El Palito	115.0	115.0	115.0	126.9	176.1
	Barinas	–	–	–	–	–
<b>OPEC</b>		<b>8,656.3</b>	<b>8,811.4</b>	<b>8,882.7</b>	<b>8,915.5</b>	<b>8,666.2</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.



World refinery capacity by country, 1999–2003 (1,000 b/d)

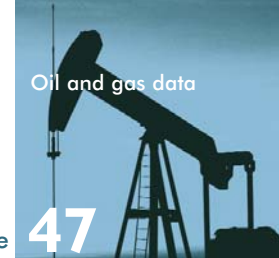
	1999	2000	2001	2002	2003	% change 03/02
<b>North America</b>	<b>18,452.6</b>	<b>18,444.8</b>	<b>18,508.4</b>	<b>18,606.8</b>	<b>18,686.1</b>	<b>0.4</b>
Canada	1,911.7	1,906.3	1,943.9	1,983.5	1,987.8	0.2
USA	16,541.0	16,538.5	16,565.5	16,623.3	16,698.2	0.5
<b>Latin America</b>	<b>7,664.6</b>	<b>8,106.7</b>	<b>7,993.4</b>	<b>8,255.3</b>	<b>8,128.8</b>	<b>-1.5</b>
Argentina	661.8	639.1	639.1	639.1	639.1	-
Brazil	1,783.3	1,918.1	1,785.8	1,865.1	1,914.1	2.6
Colombia	248.9	285.9	285.9	285.9	285.9	-
Mexico	1,525.0	1,525.0	1,525.0	1,684.0	1,684.0	-
Netherland Antilles	320.0	320.0	320.0	320.0	320.0	-
Trinidad & Tobago	160.0	160.0	160.0	160.0	165.0	3.1
Venezuela	1,188.4	1,183.2	1,183.2	1,183.2	1,003.8	-15.2
Virgin Islands	525.0	525.0	525.0	525.0	525.0	-
Others	1,252.2	1,550.4	1,569.4	1,593.0	1,591.9	-0.1
<b>Eastern Europe</b>	<b>11,317.3</b>	<b>9,972.2</b>	<b>10,164.6</b>	<b>10,128.3</b>	<b>10,085.5</b>	<b>-0.4</b>
Former USSR	9,761.7	8,399.6	7,906.3	8,661.6	8,618.7	-0.5
Others	1,555.6	1,572.6	2,258.3	1,466.7	1,466.8	-
<b>Western Europe</b>	<b>14,929.2</b>	<b>14,982.5</b>	<b>15,045.9</b>	<b>15,098.6</b>	<b>15,156.8</b>	<b>0.4</b>
Belgium	719.0	768.0	791.0	791.0	793.0	0.3
France	1,901.9	1,895.5	1,896.5	1,903.5	1,951.3	2.5
Germany	2,275.3	2,259.0	2,258.8	2,267.1	2,289.4	1.0
Italy	2,340.6	2,359.1	2,282.8	2,300.8	2,313.4	0.5
Netherlands	1,187.8	1,203.8	1,205.8	1,206.8	1,221.5	1.2
Spain	1,315.5	1,293.5	1,293.5	1,321.5	1,271.5	-3.8
United Kingdom	1,784.7	1,771.0	1,784.0	1,788.5	1,817.4	1.6
Others	3,404.4	3,432.6	3,533.5	3,519.4	3,499.3	-0.6
<b>Middle East</b>	<b>6,353.9</b>	<b>6,337.9</b>	<b>6,409.2</b>	<b>6,423.9</b>	<b>6,370.0</b>	<b>-0.8</b>
IR Iran	1,524.0	1,474.0	1,474.0	1,474.0	1,474.0	-
Iraq	603.0	603.0	603.0	603.0	603.0	-
Kuwait	899.0	899.0	899.0	899.0	831.0	-7.6
Qatar	63.0	63.0	63.0	80.0	80.0	-
Saudi Arabia	1,810.0	1,825.0	1,825.0	1,825.0	1,864.0	2.1
United Arab Emirates	411.0	420.0	491.3	491.3	466.3	-5.1
Others	1,043.9	1,053.9	1,053.9	1,051.6	1,051.7	-
<b>Africa</b>	<b>2,982.5</b>	<b>3,282.5</b>	<b>3,247.3</b>	<b>3,278.3</b>	<b>3,303.8</b>	<b>0.8</b>
Algeria	462.2	487.0	462.2	462.2	462.2	-
Egypt	577.8	726.3	726.3	726.3	726.3	-
Gabon	17.1	17.1	17.3	17.3	17.3	-
SP Libyan AJ	342.0	380.0	380.0	380.0	380.0	-
Nigeria	424.0	445.0	445.0	445.0	445.0	-
Others	1,159.4	1,227.1	1,216.5	1,247.5	1,273.0	2.0
<b>Asia and Pacific</b>	<b>19,491.0</b>	<b>20,130.0</b>	<b>20,248.2</b>	<b>20,269.1</b>	<b>20,101.9</b>	<b>-0.8</b>
China	4,346.8	4,346.8	4,528.1	4,528.1	4,528.1	-
India	1,857.7	2,113.2	2,134.6	2,134.6	2,134.6	-
Indonesia	929.7	1,057.0	1,057.0	1,057.0	1,057.0	-
Japan	4,997.7	4,962.1	4,786.3	4,766.9	4,702.9	-1.3
South Korea	2,450.1	2,460.1	2,560.1	2,560.1	2,544.0	-0.6
Singapore	1,255.0	1,270.0	1,258.5	1,258.5	1,318.6	4.8
Taiwan	770.0	920.0	920.0	920.0	920.0	-
Australia	812.4	846.5	848.3	848.3	755.0	-11.0
Others	2,071.6	2,154.3	2,155.3	2,195.6	2,141.7	-2.5
<b>Total world</b>	<b>81,191.1</b>	<b>81,256.6</b>	<b>81,617.0</b>	<b>82,060.3</b>	<b>81,832.9</b>	<b>-0.3</b>
<b>OPEC</b>	<b>8,656.3</b>	<b>8,836.2</b>	<b>8,882.7</b>	<b>8,915.5</b>	<b>8,666.3</b>	<b>-2.8</b>
<b>OPEC percentage</b>	<b>10.7</b>	<b>10.9</b>	<b>10.9</b>	<b>10.9</b>	<b>10.6</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.

## 47 Table

## Output of refined products by type in OPEC Members, 1999–2003 (1,000 b/d)

	1999	2000	2001	2002	2003	% change 03/02
<b>Algeria</b>	<b>410.2</b>	<b>441.4</b>	<b>456.0</b>	<b>469.6</b>	<b>447.9</b>	<b>-4.6</b>
Gasoline	48.2	45.6	44.9	na	41.0	na
Kerosene	21.1	34.0	31.6	na	28.5	na
Distillates	128.5	130.0	139.0	na	133.9	na
Residuals	98.9	104.5	107.6	na	116.5	na
Others	113.4	127.3	133.0	na	128.1	na
<b>Indonesia</b>	<b>928.4</b>	<b>968.2</b>	<b>1,006.1</b>	<b>1,002.4</b>	<b>1,008.1</b>	<b>0.6</b>
Gasoline	191.0	193.5	204.1	200.8	210.3	4.7
Kerosene	148.2	158.6	163.8	154.3	182.3	18.2
Distillates	256.3	262.7	272.0	280.6	288.9	3.0
Residuals	77.8	87.4	91.8	102.2	103.7	1.5
Others	255.1	265.9	274.3	264.5	222.9	-15.7
<b>IR Iran</b>	<b>1,337.8</b>	<b>1,316.4</b>	<b>1,436.7</b>	<b>1,440.5</b>	<b>1,344.7</b>	<b>-6.7</b>
Gasoline	179.7	182.6	na	na	186.3	na
Kerosene	157.4	156.9	na	na	163.7	na
Distillates	357.8	357.3	na	na	363.7	na
Residuals	402.6	397.6	na	na	410.6	na
Others	240.4	222.0	na	na	220.4	na
<b>Iraq</b>	<b>459.1</b>	<b>493.2</b>	<b>531.9</b>	<b>518.2</b>	<b>463.8</b>	<b>-10.5</b>
Gasoline	71.6	75.8	na	na	76.0	na
Kerosene	34.0	36.5	na	na	36.1	na
Distillates	141.5	151.9	na	na	135.1	na
Residuals	143.2	150.0	na	na	134.9	na
Others	68.7	78.9	na	na	81.8	na
<b>Kuwait</b>	<b>876.1</b>	<b>729.5</b>	<b>659.7</b>	<b>721.2</b>	<b>839.2</b>	<b>16.4</b>
Gasoline	48.3	43.6	na	31.3	31.6	0.6
Kerosene	141.3	126.1	na	110.8	143.8	29.7
Distillates	251.6	217.6	na	216.1	246.2	13.9
Residuals	196.1	152.0	na	152.9	179.3	17.3
Others	238.7	190.2	na	210.0	238.4	13.5
<b>SP Libyan AJ</b>	<b>317.5</b>	<b>337.8</b>	<b>341.5</b>	<b>369.8</b>	<b>322.7</b>	<b>-12.7</b>
Gasoline	47.4	49.0	na	na	na	na
Kerosene	36.9	34.8	na	na	na	na
Distillates	87.0	85.5	na	na	na	na
Residuals	93.2	101.7	na	na	na	na
Others	53.0	66.8	na	na	na	na
<b>Nigeria</b>	<b>113.6</b>	<b>88.6</b>	<b>227.8</b>	<b>307.0</b>	<b>307.4</b>	<b>0.1</b>
Gasoline	36.0	21.4	60.1	90.9	79.6	-12.5
Kerosene	14.2	14.4	34.0	47.5	51.7	8.9
Distillates	29.3	20.9	50.4	80.0	96.7	20.8
Residuals	24.9	28.5	59.5	74.8	75.3	0.7
Others	9.3	3.5	23.8	13.8	4.1	-70.4
<b>Qatar</b>	<b>59.5</b>	<b>57.8</b>	<b>42.1</b>	<b>43.1</b>	<b>115.3</b>	<b>167.6</b>
Gasoline	14.1	13.5	na	11.0	40.7	na
Kerosene	9.9	9.0	na	6.7	20.2	na
Distillates	13.7	13.3	na	11.9	20.2	na
Residuals	17.9	18.1	na	7.8	7.9	na
Others	3.8	3.9	na	5.7	26.2	na



Output of refined products by type in OPEC Members, 1999–2003 (1,000 b/d)

	1999	2000	2001	2002	2003	% change 03/02
<b>Saudi Arabia</b>	<b>1,600.3</b>	<b>1,649.7</b>	<b>1,636.9</b>	<b>1,596.9</b>	<b>1,760.6</b>	<b>10.2</b>
Gasoline	267.5	275.0	270.9	261.5	294.5	12.6
Kerosene	145.9	183.3	164.5	163.6	179.6	9.8
Distillates	529.7	543.0	530.9	528.0	590.7	11.9
Residuals	483.5	449.2	464.5	432.0	464.0	7.4
Others	173.8	199.3	206.1	211.8	231.8	9.5
<b>United Arab Emirates</b>	<b>222.4</b>	<b>315.3</b>	<b>309.5</b>	<b>424.7</b>	<b>358.8</b>	<b>-15.5</b>
Gasoline	35.2	29.6	na	31.2	30.1	-3.6
Kerosene	57.4	84.7	na	107.0	109.6	2.4
Distillates	66.8	79.7	na	95.6	92.5	-3.2
Residuals	33.7	36.9	na	31.1	21.5	-30.7
Others	29.3	84.4	na	159.7	105.1	-34.2
<b>Venezuela</b>	<b>1,332.7</b>	<b>1,240.8</b>	<b>1,264.5</b>	<b>1,228.7</b>	<b>1,016.2</b>	<b>-17.3</b>
Gasoline	342.8	201.3	na	314.1	350.2	11.5
Kerosene	92.6	93.8	na	87.9	70.4	-19.9
Distillates	402.0	339.9	na	597.5	531.8	-11.0
Residuals	240.0	260.3	na	121.6	30.9	-74.6
Others	255.3	345.6	na	107.6	32.9	-69.4
<b>OPEC</b>	<b>7,657.5</b>	<b>7,638.7</b>	<b>7,912.8</b>	<b>8,121.9</b>	<b>8,249.6</b>	<b>2.6</b>
Gasoline	1,281.8	1,130.8	na	na	na	na
Kerosene	858.9	932.3	na	na	na	na
Distillates	2,264.1	2,201.8	na	na	na	na
Residuals	1,811.9	1,786.0	na	na	na	na
Others	1,440.8	1,587.8	na	na	na	na

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

## 48 Table

## World output of refined products by country, 1999–2003 (1,000 b/d)

	1999	2000	2001	2002	2003	% change 03/02
<b>North America</b>	<b>18,934.9</b>	<b>19,305.1</b>	<b>19,200.2</b>	<b>19,282.6</b>	<b>19,697.8</b>	<b>2.2</b>
Canada	1,934.7	1,980.9	2,028.6	2,034.7	2,077.8	2.1
United States	17,000.1	17,324.2	17,171.6	17,247.9	17,620.0	2.2
<b>Latin America</b>	<b>6,592.6</b>	<b>6,653.1</b>	<b>6,801.6</b>	<b>6,843.4</b>	<b>7,076.2</b>	<b>3.4</b>
Argentina	552.8	535.1	537.3	538.9	662.9	23.0
Brazil	1,675.7	1,719.3	1,757.1	1,794.0	2,079.7	15.9
Mexico	1,312.7	1,294.7	1,325.9	1,326.9	1,358.3	2.4
Venezuela	1,209.3	1,240.8	1,264.5	1,228.7	1,016.2	-17.3
Virgin Islands	418.0	422.0	431.0	432.0	435.3	0.8
Others	1,424.0	1,441.1	1,485.8	1,522.9	1,523.7	0.1
<b>Eastern Europe</b>	<b>5,697.9</b>	<b>5,828.0</b>	<b>6,165.4</b>	<b>6,543.4</b>	<b>6,652.3</b>	<b>1.7</b>
Bulgaria	118.7	129.1	126.8	124.6	127.4	2.2
Romania	219.7	216.5	219.1	222.0	286.2	28.9
Former USSR	4,571.9	4,676.7	5,018.1	5,394.5	5,429.6	0.7
Others	787.5	805.6	801.3	802.3	809.1	0.8
<b>Western Europe</b>	<b>14,572.8</b>	<b>14,833.1</b>	<b>14,774.8</b>	<b>14,925.0</b>	<b>15,012.0</b>	<b>0.6</b>
Belgium	741.2	787.8	823.6	825.7	827.5	0.2
France	1,754.0	1,802.2	1,841.0	1,862.6	1,878.7	0.9
Germany	2,447.3	2,466.9	2,427.7	2,447.3	2,451.5	0.2
Italy	1,936.3	1,995.0	2,040.1	2,037.6	2,047.6	0.5
Netherlands	1,661.3	1,750.0	1,782.2	1,796.1	1,808.0	0.7
Norway	326.2	325.9	298.9	312.4	314.2	0.6
Portugal	284.1	259.0	277.8	278.4	279.6	0.4
Spain	1,250.3	1,234.9	1,195.3	1,215.1	1,219.2	0.3
United Kingdom	1,862.2	1,867.8	1,736.8	1,802.3	1,819.0	0.9
Others	2,309.9	2,343.6	2,351.4	2,347.5	2,366.7	0.8
<b>Middle East</b>	<b>5,554.4</b>	<b>5,534.2</b>	<b>5,593.2</b>	<b>5,726.7</b>	<b>5,873.0</b>	<b>2.6</b>
IR Iran	1,361.2	1,316.4	1,436.7	1,440.5	1,344.7	-6.7
Iraq	442.8	493.2	531.9	518.2	463.8	-10.5
Kuwait	903.3	729.5	659.7	721.2	839.2	16.4
Qatar	59.2	57.8	42.1	43.1	115.3	167.6
Saudi Arabia	1,593.2	1,649.7	1,636.9	1,596.9	1,760.6	10.2
United Arab Emirates	232.9	315.3	309.5	424.7	358.8	-15.5
Others	961.8	972.3	976.2	982.1	990.5	0.9
<b>Africa</b>	<b>2,376.3</b>	<b>2,404.8</b>	<b>2,583.5</b>	<b>2,738.7</b>	<b>2,678.5</b>	<b>-2.2</b>
Algeria	430.6	441.4	456.0	469.6	447.9	-4.6
Egypt	564.0	575.8	587.3	610.8	614.5	0.6
Gabon	16.7	16.2	16.5	16.7	16.9	1.0
SP Libyan AJ	324.9	337.8	341.5	369.8	322.7	-12.7
Nigeria	131.1	88.6	227.8	307.0	307.4	0.1
Others	909.1	944.9	954.4	964.9	969.2	0.4
<b>Asia and Pacific</b>	<b>17,256.7</b>	<b>17,843.9</b>	<b>17,941.8</b>	<b>18,176.5</b>	<b>18,237.7</b>	<b>0.2</b>
Australia	807.5	786.7	788.8	798.8	798.8	-
China	3,522.9	3,871.3	3,913.4	3,997.4	4,015.4	-
India	1,606.1	1,680.0	1,737.1	1,804.9	1,814.9	0.6
Indonesia	933.7	968.2	1,006.1	1,002.4	1,008.1	0.6
Japan	4,377.1	4,357.6	4,330.1	4,337.1	4,338.1	-
Philippines	331.7	346.0	355.3	368.5	370.0	0.4
Singapore	894.3	911.3	925.9	942.5	949.8	0.8
South Korea	2,481.1	2,526.7	2,465.1	2,476.1	2,476.1	-
New Zealand	104.1	108.3	106.9	107.9	107.9	-
Taiwan	867.2	886.3	903.1	921.2	924.9	0.4
Others	1,331.0	1,401.6	1,410.0	1,419.8	1,433.6	1.0
<b>Total world</b>	<b>70,985.5</b>	<b>72,402.2</b>	<b>73,060.3</b>	<b>74,236.3</b>	<b>75,227.5</b>	<b>1.3</b>
<b>OPEC</b>	<b>7,622.2</b>	<b>7,638.7</b>	<b>7,912.8</b>	<b>8,121.9</b>	<b>7,984.8</b>	<b>-1.7</b>
<b>OPEC percentage</b>	<b>10.7</b>	<b>10.6</b>	<b>10.8</b>	<b>10.9</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.

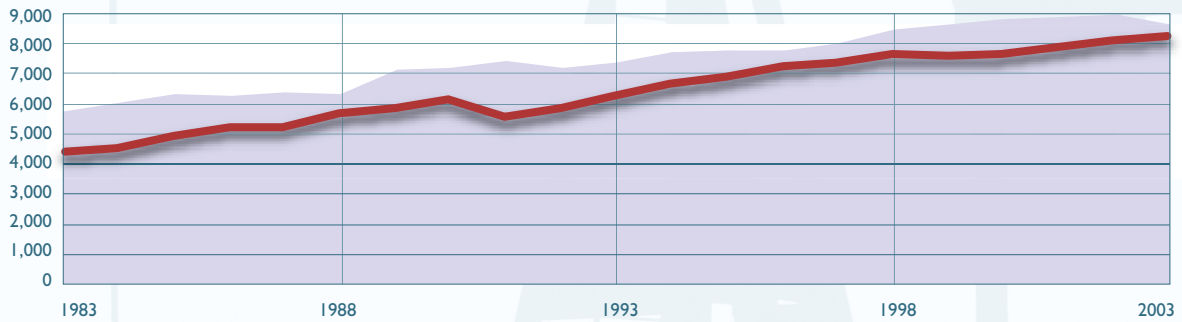




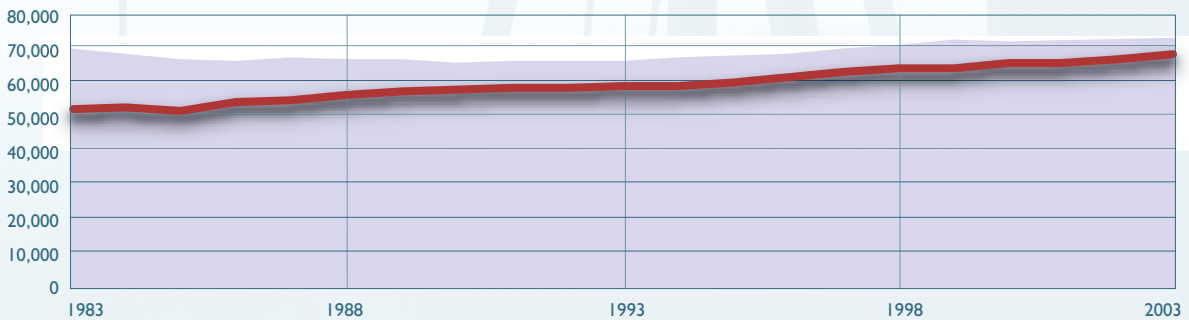
**Output of refined products vs refinery capacity, 1983–2003**

(1,000 b/d)

Graph 27 OPEC



Graph 28 Non-OPEC

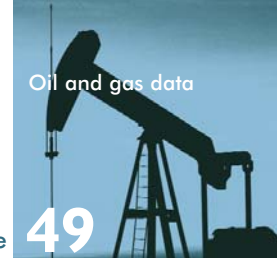


capacity production

## 49 Table

Consumption of refined products by type in OPEC Members, 1999–2003 (1,000 b/d)

	1999	2000	2001	2002	2003	% change 03/02
<b>Algeria</b>	<b>175.8</b>	<b>185.6</b>	<b>187.7</b>	<b>201.7</b>	<b>218.3</b>	<b>8.2</b>
Gasoline	43.1	41.2	40.3	40.0	40.0	–
Kerosene	7.0	8.2	9.6	9.8	8.5	–14.0
Distillates	70.2	79.2	84.3	95.9	102.5	6.8
Residuals	0.3	0.3	0.2	0.2	0.2	1.5
Others	55.1	56.8	53.3	55.8	67.2	20.4
<b>Indonesia</b>	<b>925.7</b>	<b>988.5</b>	<b>1,017.2</b>	<b>1,068.9</b>	<b>1,156.6</b>	<b>8.2</b>
Gasoline	198.8	213.6	220.8	235.5	256.8	9.1
Kerosene	217.1	226.8	223.2	228.2	239.2	4.8
Distillates	374.0	398.5	414.7	447.1	489.0	9.4
Residuals	93.7	103.3	109.4	106.2	114.3	7.6
Others	42.1	46.3	49.1	51.9	57.3	10.5
<b>IR Iran</b>	<b>1,192.2</b>	<b>1,189.0</b>	<b>1,222.0</b>	<b>1,234.8</b>	<b>1,284.8</b>	<b>4.0</b>
Gasoline	213.1	202.0	236.8	264.5	304.4	15.1
Kerosene	175.2	165.0	166.7	159.4	160.7	0.8
Distillates	360.7	348.0	376.1	369.8	394.1	6.6
Residuals	254.8	230.0	212.4	203.1	190.5	–6.2
Others	188.4	244.0	230.0	238.0	235.0	–1.3
<b>Iraq</b>	<b>454.7</b>	<b>497.0</b>	<b>540.4</b>	<b>529.0</b>	<b>429.0</b>	<b>–18.9</b>
Gasoline	72.1	79.2	86.4	84.8	68.9	–18.7
Kerosene	33.6	37.0	40.5	39.9	32.4	–18.7
Distillates	129.5	141.4	153.7	150.0	121.0	–19.3
Residuals	127.9	143.6	162.0	161.7	131.2	–18.9
Others	91.7	95.8	97.7	92.7	75.5	–18.5
<b>Kuwait</b>	<b>163.8</b>	<b>152.9</b>	<b>140.8</b>	<b>146.0</b>	<b>206.7</b>	<b>41.6</b>
Gasoline	39.4	36.3	40.3	42.3	44.0	3.9
Kerosene	8.8	8.0	9.0	10.4	16.1	54.3
Distillates	11.4	11.1	10.2	11.6	16.4	41.2
Residuals	100.5	94.2	76.8	77.0	125.6	63.0
Others	3.6	3.3	4.4	4.7	4.7	1.1
<b>SP Libyan AJ</b>	<b>182.6</b>	<b>174.4</b>	<b>175.4</b>	<b>172.3</b>	<b>184.0</b>	<b>6.8</b>
Gasoline	47.2	42.2	36.4	35.5	34.7	–2.3
Kerosene	7.4	6.5	6.9	5.5	8.3	49.2
Distillates	64.1	59.0	57.7	54.0	65.9	22.1
Residuals	39.9	39.6	41.7	50.1	47.7	–4.8
Others	24.0	27.0	32.7	27.2	27.4	0.8
<b>Nigeria</b>	<b>184.3</b>	<b>206.7</b>	<b>242.4</b>	<b>200.0</b>	<b>239.6</b>	<b>19.8</b>
Gasoline	84.2	111.7	137.8	112.9	145.6	29.0
Kerosene	37.2	25.6	34.3	30.5	30.9	1.4
Distillates	42.4	46.6	54.6	41.4	43.0	3.9
Residuals	18.7	20.8	14.4	11.0	15.0	36.5
Others	1.8	2.0	1.4	4.2	5.0	20.5
<b>Qatar</b>	<b>22.2</b>	<b>23.6</b>	<b>25.4</b>	<b>32.9</b>	<b>30.8</b>	<b>–6.2</b>
Gasoline	11.0	11.7	12.5	15.8	13.4	–15.2
Kerosene	3.7	3.9	4.2	6.7	5.9	–11.4
Distillates	6.5	6.9	7.5	8.8	10.0	14.5
Residuals	na	na	na	na	na	na
Others	1.0	1.1	1.2	1.6	1.4	–9.3



Consumption of refined products by type in OPEC Members, 1999–2003 (1,000 b/d)

	1999	2000	2001	2002	2003	% change 03/02
<b>Saudi Arabia</b>	<b>908.4</b>	<b>937.0</b>	<b>982.0</b>	<b>1,053.7</b>	<b>1,140.5</b>	<b>8.2</b>
Gasoline	269.8	273.3	282.3	301.2	311.2	3.3
Kerosene	52.9	55.3	53.8	53.8	58.8	9.3
Distillates	357.1	372.9	400.4	402.0	420.0	4.5
Residuals	166.2	170.4	177.7	213.6	258.9	21.2
Others	62.3	65.0	67.7	83.0	91.5	10.4
<b>United Arab Emirates</b>	<b>127.9</b>	<b>135.1</b>	<b>137.8</b>	<b>146.0</b>	<b>156.3</b>	<b>7.1</b>
Gasoline	34.3	32.6	32.5	40.3	50.0	24.1
Kerosene	2.6	2.7	2.7	2.8	3.0	5.4
Distillates	51.4	58.1	59.5	59.4	59.3	-0.1
Residuals	31.4	33.2	35.4	34.5	33.7	-2.4
Others	8.4	8.4	7.8	9.0	10.3	14.8
<b>Venezuela</b>	<b>383.2</b>	<b>410.0</b>	<b>418.3</b>	<b>407.0</b>	<b>390.7</b>	<b>-4.0</b>
Gasoline	199.5	208.2	207.4	199.2	177.3	-11.0
Kerosene	6.7	6.2	6.6	6.4	2.6	-60.0
Distillates	73.6	81.5	78.0	75.7	79.3	4.8
Residuals	21.9	25.7	26.8	26.3	35.1	33.5
Others	81.6	88.3	99.6	99.5	96.4	-3.1
<b>OPEC</b>	<b>4,720.8</b>	<b>4,899.7</b>	<b>5,089.4</b>	<b>5,192.2</b>	<b>5,437.1</b>	<b>4.7</b>
Gasoline	1,212.5	1,252.0	1,333.6	1,372.1	1,446.4	5.4
Kerosene	552.2	545.3	557.4	553.6	566.4	2.3
Distillates	1,540.8	1,603.1	1,696.7	1,715.7	1,800.6	5.0
Residuals	855.3	861.2	856.9	883.7	952.0	7.7
Others	560.0	638.0	644.9	667.2	671.7	0.7

## World consumption of refined products by country, 1999–2003 (1,000 b/d)

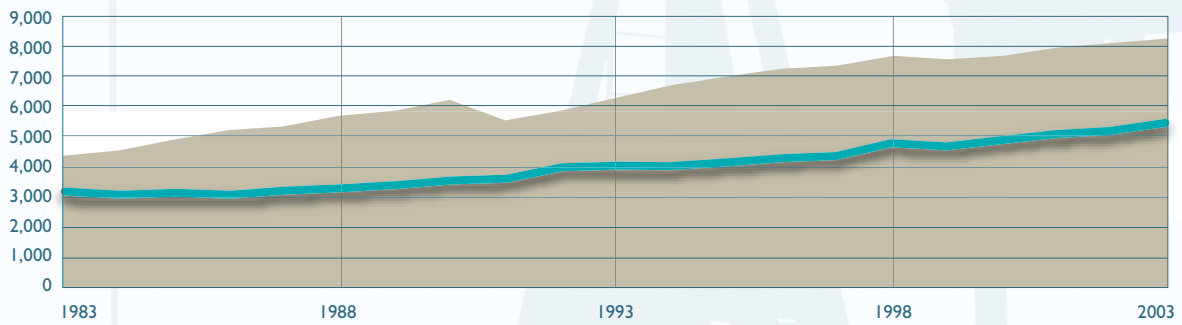
	1999	2000	2001	2002	2003	% change 03/02
<b>North America</b>	<b>21,206.8</b>	<b>21,419.3</b>	<b>21,522.3</b>	<b>21,940.7</b>	<b>22,332.1</b>	<b>1.8</b>
Canada	1,988.5	1,990.8	2,006.2	2,047.2	2,134.5	4.3
United States	19,215.9	19,426.0	19,513.6	19,891.0	20,195.0	1.5
Others	2.5	2.5	2.5	2.5	2.6	4.0
<b>Latin America</b>	<b>6,259.3</b>	<b>6,347.4</b>	<b>6,276.9</b>	<b>6,192.6</b>	<b>6,189.7</b>	<b>–</b>
Argentina	514.2	494.9	460.9	412.4	406.2	–1.5
Brazil	1,850.4	1,863.2	1,870.8	1,857.3	1,785.9	–3.8
Colombia	260.6	258.8	244.5	235.8	241.6	2.4
Ecuador	113.2	124.8	132.4	132.4	134.3	1.4
Mexico	1,934.3	2,015.2	1,968.5	1,964.6	2,041.3	3.9
Venezuela	383.2	410.0	418.3	407.0	390.7	–4.0
Others	1,203.4	1,180.6	1,181.4	1,183.1	1,189.7	0.6
<b>Eastern Europe</b>	<b>5,147.0</b>	<b>4,858.3</b>	<b>5,161.5</b>	<b>4,979.8</b>	<b>5,059.6</b>	<b>1.6</b>
Czech Republic	173.1	168.7	177.3	186.4	195.9	5.1
Slovakia	73.1	72.4	67.8	63.5	59.5	–6.3
Romania	192.2	199.6	226.2	229.2	233.2	1.7
Former USSR	4,027.6	3,760.6	3,929.6	3,774.3	3,795.5	0.6
Others	681.0	657.1	760.6	726.4	775.4	6.7
<b>Western Europe</b>	<b>13,991.0</b>	<b>13,899.0</b>	<b>13,993.9</b>	<b>13,835.2</b>	<b>13,899.6</b>	<b>0.5</b>
France	1,976.1	1,951.4	2,003.7	1,936.8	2,007.5	3.7
Germany	2,797.0	2,736.3	2,772.8	2,676.1	2,590.8	–3.2
Italy	1,845.6	1,806.1	1,787.4	1,791.6	1,791.2	–
Netherlands	591.8	608.2	620.3	628.3	666.6	6.1
Spain	1,286.4	1,325.3	1,368.1	1,379.6	1,414.7	2.5
United Kingdom	1,750.0	1,722.6	1,680.0	1,648.6	1,642.0	–0.4
Others	3,744.1	3,749.0	3,761.6	3,774.2	3,786.8	0.3
<b>Middle East</b>	<b>3,735.6</b>	<b>3,838.5</b>	<b>3,956.3</b>	<b>4,074.3</b>	<b>4,199.9</b>	<b>3.1</b>
IR Iran	1,192.2	1,189.0	1,222.0	1,234.8	1,284.8	4.0
Iraq	454.7	497.0	540.4	529.0	429.0	–18.9
Kuwait	163.8	152.9	140.8	146.0	206.7	41.6
Qatar	22.2	23.6	25.4	32.9	30.8	–6.2
Saudi Arabia	908.4	937.0	982.0	1,053.7	1,140.5	8.2
Syrian Arab Republic	264.6	262.8	268.8	276.8	285.8	3.3
United Arab Emirates	127.9	135.1	137.8	146.0	156.3	7.1
Others	601.8	641.2	639.2	655.1	666.0	1.7
<b>Africa</b>	<b>2,152.0</b>	<b>2,201.4</b>	<b>2,278.6</b>	<b>2,258.9</b>	<b>2,363.0</b>	<b>4.6</b>
Algeria	175.8	185.6	187.7	201.7	218.3	8.2
Egypt	458.4	498.6	502.3	510.5	524.1	2.7
SP Libyan AJ	182.6	174.4	175.4	172.3	184.0	6.8
Nigeria	184.3	206.7	242.4	200.0	239.6	19.8
Tunisia	82.2	84.4	86.4	87.4	89.4	2.3
Others	1,068.7	1,051.6	1,084.3	1,087.1	1,107.6	1.9
<b>Asia and Pacific</b>	<b>18,947.8</b>	<b>19,541.3</b>	<b>19,529.7</b>	<b>19,990.5</b>	<b>20,857.1</b>	<b>4.3</b>
Australia	844.3	868.1	867.9	867.4	867.2	–
China	4,103.3	4,606.3	4,614.1	4,958.1	5,483.6	10.6
India	2,020.3	2,072.0	2,064.6	2,060.2	2,094.9	1.7
Indonesia	925.7	988.5	1,017.2	1,068.9	1,156.6	8.2
Japan	5,339.8	5,250.6	5,127.6	5,043.9	5,135.2	1.8
New Zealand	124.8	127.8	127.3	124.5	135.1	8.6
South Korea	1,959.0	2,025.9	2,019.2	2,072.3	2,078.7	0.3
Thailand	705.4	697.8	707.5	744.4	779.4	4.7
Others	2,925.3	2,904.2	2,984.3	3,050.7	3,126.6	2.5
<b>Total world</b>	<b>71,439.6</b>	<b>72,105.3</b>	<b>72,719.1</b>	<b>73,272.0</b>	<b>74,900.9</b>	<b>2.2</b>
<b>OPEC</b>	<b>4,720.8</b>	<b>4,899.7</b>	<b>5,089.4</b>	<b>5,192.2</b>	<b>5,437.1</b>	<b>4.7</b>
<b>OPEC percentage</b>	<b>6.6</b>	<b>6.8</b>	<b>7.0</b>	<b>7.1</b>	<b>7.3</b>	

Note: Revisions have been made throughout the time series.

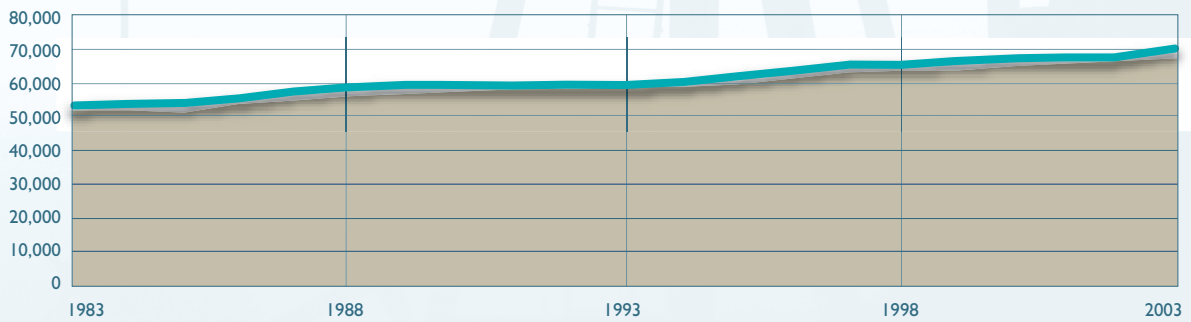


**Production and consumption of refined products, 1983–2003**  
(1,000 b/d)

Graph 29 OPEC



Graph 30 Non-OPEC



capacity production



## 51 Table

## OPEC Members' crude oil exports by destination, 1999–2003 (1,000 b/d)

<b>Algeria</b>	1999	2000	2001	2002	2003
<b>North America</b>	<b>79.0</b>	<b>59.9</b>	<b>85.2</b>	<b>147.1</b>	<b>263.9</b>
Canada	64.3	59.9	77.9	106.3	123.2
United States	14.7	–	7.3	40.8	140.6
<b>Latin America</b>	<b>14.6</b>	<b>15.0</b>	<b>11.3</b>	<b>63.4</b>	<b>65.2</b>
<b>Eastern Europe</b>	<b>3.8</b>	<b>8.9</b>	<b>–</b>	<b>1.8</b>	<b>0.7</b>
<b>Western Europe</b>	<b>315.4</b>	<b>353.7</b>	<b>318.1</b>	<b>335.3</b>	<b>383.4</b>
Belgium	–	3.6	–	12.7	4.7
France	82.8	71.2	121.8	101.7	133.6
Germany	31.5	74.1	38.0	38.8	31.3
Italy	117.1	130.7	98.7	100.3	110.8
Netherlands	8.5	2.0	1.3	11.7	5.0
Spain	36.6	30.1	26.0	16.6	32.0
United Kingdom	24.3	11.7	27.3	37.3	33.7
<b>Middle East</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>
<b>Africa</b>	<b>1.7</b>	<b>–</b>	<b>–</b>	<b>3.6</b>	<b>–</b>
<b>Asia and Pacific</b>	<b>–</b>	<b>–</b>	<b>26.8</b>	<b>15.1</b>	<b>28.0</b>
<b>Unspecified</b>	<b>–</b>	<b>23.5</b>	<b>–</b>	<b>–</b>	<b>–</b>
<b>Total world</b>	<b>414.6</b>	<b>461.1</b>	<b>441.5</b>	<b>566.2</b>	<b>741.0</b>

<b>Indonesia</b>	1999	2000	2001*	2002*	2003*
<b>North America</b>	<b>73.5</b>	<b>38.8</b>	<b>40.0</b>	<b>47.1</b>	<b>37.3</b>
United States	73.5	38.8	40.0	47.1	37.3
<b>Latin America</b>	<b>–</b>	<b>–</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>–</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>10.7</b>
Italy	–	–	–	–	10.7
<b>Middle East</b>	<b>0.7</b>	<b>1.5</b>	<b>1.3</b>	<b>–</b>	<b>–</b>
<b>Africa</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>
<b>Asia and Pacific</b>	<b>673.4</b>	<b>552.1</b>	<b>532.6</b>	<b>562.8</b>	<b>567.2</b>
Australia	118.9	56.3	88.4	96.1	64.2
China	86.5	92.6	89.1	87.6	88.4
Japan	259.5	205.2	179.6	148.3	252.3
Philippines	1.2	–	–	–	–
South Korea	125.7	102.5	128.0	146.4	123.3
Singapore	33.2	42.9	3.6	3.6	4.1
Taiwan	28.6	25.1	27.3	27.3	27.8
<b>Unspecified</b>	<b>34.3</b>	<b>30.1</b>	<b>25.4</b>	<b>29.9</b>	<b>34.9</b>
<b>Total world</b>	<b>781.9</b>	<b>622.5</b>	<b>599.2</b>	<b>609.9</b>	<b>650.2</b>

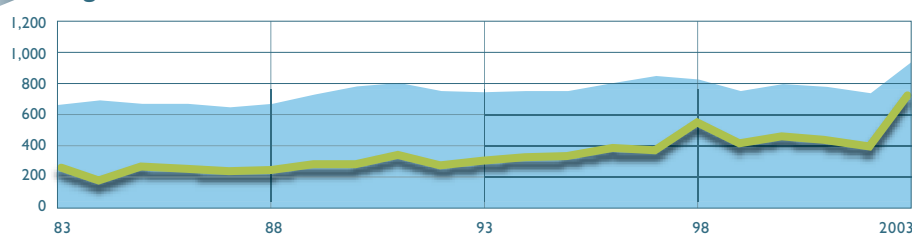
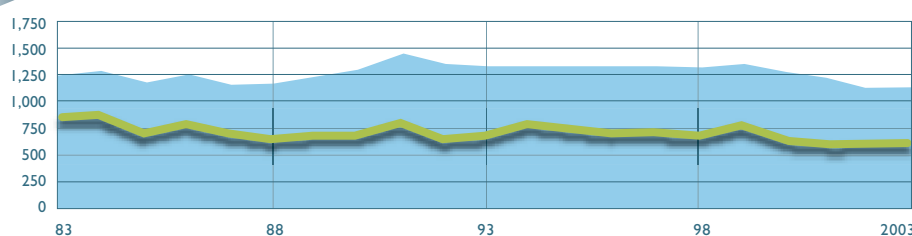
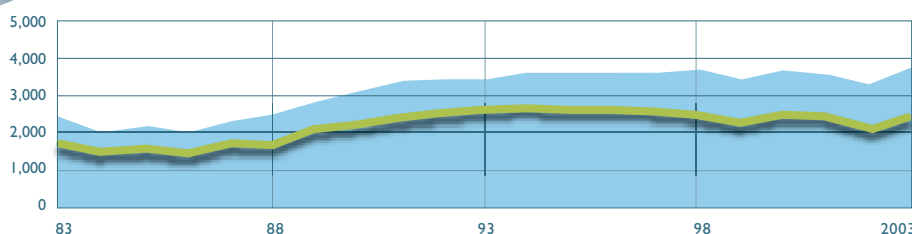
**OPEC Members' crude oil exports by destination, 1999–2003** (1,000 b/d)

IR Iran	1999	2000*	2001*	2002*	2003*
<b>North America</b>	–	–	–	–	–
Canada	–	–	–	–	–
United States	–	–	–	–	–
<b>Latin America</b>	50.0	60.0	45.0	35.0	52.5
<b>Eastern Europe</b>	100.0	110.0	104.0	90.0	124.9
<b>Western Europe</b>	949.2	920.8	744.3	620.6	708.8
France	137.1	102.8	72.9	76.3	111.4
Germany	16.2	18.3	5.1	1.3	0.5
Italy	286.4	209.7	206.5	189.0	202.2
Netherlands	71.6	64.9	23.4	30.3	46.4
United Kingdom	–	–	–	–	–
<b>Middle East</b>	25.0	30.0	27.6	25.0	26.5
<b>Africa</b>	150.0	200.0	160.9	120.0	166.4
<b>Asia and Pacific</b>	1,016.8	1,171.4	1,102.8	1,203.0	1,202.6
Australia	–	–	–	–	1.4
Japan	496.6	490.5	536.6	530.5	652.2
<b>Unspecified</b>	–	–	–	–	114.6
<b>Total world</b>	<b>2,291.0</b>	<b>2,492.2</b>	<b>2,184.6</b>	<b>2,093.6</b>	<b>2,396.3</b>

Note: Corresponds to a fiscal year ending March 20.

**OPEC Members' crude oil production vs exports, 1983–2003**

(1,000 b/d)

Graph 31 **Algeria**Graph 32 **Indonesia**Graph 33 **IR Iran**

production exports

## 51 Table

## OPEC Members' crude oil exports by destination, 1999–2003 (1,000 b/d)

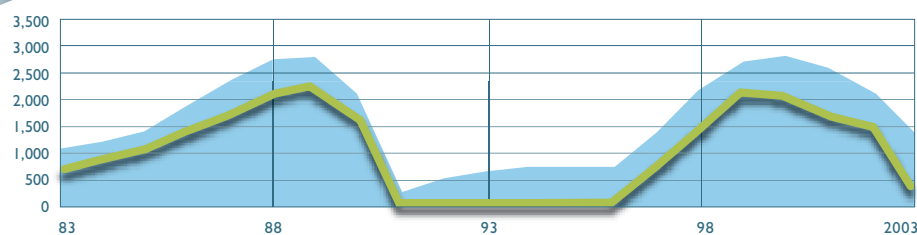
<b>Iraq</b>	1999*	2000*	2001*	2002*	2003*
<b>North America</b>	<b>780.9</b>	<b>700.4</b>	<b>922.5</b>	<b>932.8</b>	<b>277.3</b>
United States	754.4	658.9	846.1	876.6	239.2
<b>Latin America</b>	–	–	–	–	–
<b>Eastern Europe</b>	<b>70.0</b>	<b>80.0</b>	<b>35.0</b>	<b>24.6</b>	–
<b>Western Europe</b>	<b>831.7</b>	<b>781.1</b>	<b>398.6</b>	<b>414.3</b>	<b>87.6</b>
France	146.2	146.3	95.8	81.4	8.0
Germany	16.7	4.4	0.4	0.9	0.6
Italy	137.0	177.7	79.3	53.9	34.7
Netherlands	162.4	63.5	95.3	68.0	13.1
Spain	123.5	122.2	51.9	47.2	15.3
United Kingdom	–	–	–	–	0.0
<b>Middle East</b>	<b>75.0</b>	<b>75.0</b>	<b>85.0</b>	<b>78.4</b>	<b>10.4</b>
<b>Africa</b>	–	–	–	–	<b>0.0</b>
<b>Asia and Pacific</b>	<b>232.2</b>	<b>227.4</b>	<b>47.3</b>	<b>44.5</b>	<b>13.4</b>
Japan	98.3	72.0	5.4	12.6	10.7
<b>Unspecified</b>	<b>141.0</b>	<b>175.9</b>	<b>221.8</b>	–	–
<b>Total world</b>	<b>2,130.9</b>	<b>2,039.8</b>	<b>1,710.2</b>	<b>1,494.6</b>	<b>388.6</b>

<b>Kuwait</b>	1999	2000*	2001*	2002*	2003*
<b>North America</b>	<b>158.0</b>	<b>270.5</b>	<b>238.5</b>	<b>215.9</b>	<b>164.7</b>
United States	158.0	270.5	238.5	215.9	164.7
<b>Latin America</b>	–	–	–	–	–
<b>Eastern Europe</b>	–	–	–	–	–
<b>Western Europe</b>	<b>116.2</b>	<b>203.4</b>	<b>159.3</b>	<b>118.8</b>	<b>108.4</b>
France	15.0	27.1	20.3	11.6	34.4
Germany	14.8	13.0	2.2	2.4	–
Italy	2.7	31.8	13.2	0.6	–
Netherlands	82.4	131.6	121.8	29.9	80.3
Spain	–	–	–	–	–
United Kingdom	–	–	–	–	–
<b>Middle East</b>	–	–	–	–	–
<b>Africa</b>	<b>24.8</b>	<b>25.0</b>	<b>25.0</b>	–	–
<b>Asia and Pacific</b>	<b>647.2</b>	<b>699.2</b>	<b>739.4</b>	<b>803.3</b>	<b>961.2</b>
Australia	1.1	0.9	–	–	0.8
Japan	346.4	395.7	411.0	522.8	295.5
<b>Unspecified</b>	<b>1.9</b>	<b>32.6</b>	<b>52.0</b>	–	<b>8.6</b>
<b>Total world</b>	<b>948.2</b>	<b>1,230.7</b>	<b>1,214.1</b>	<b>1,138.0</b>	<b>1,242.9</b>

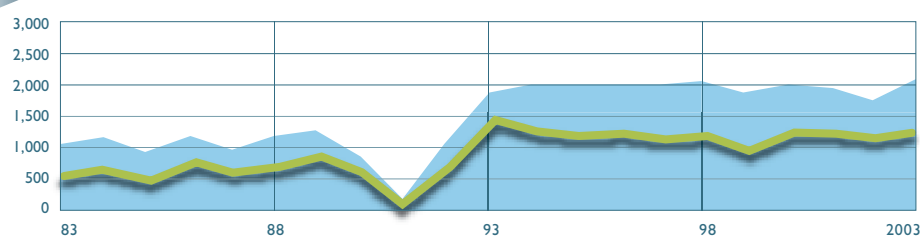
## OPEC Members' crude oil exports by destination, 1999–2003 (1,000 b/d)

SP Libyan AJ	1999	2000	2001*	2002*	2003*
North America	–	–	–	–	–
Latin America	–	–	–	–	–
Eastern Europe	7.5	3.5	13.7	7.5	4.4
Western Europe	974.2	986.5	963.9	961.1	1,048.2
Austria	22.9	12.9	25.5	13.6	11.5
Belgium	–	3.2	0.1	3.7	–
France	46.0	48.5	60.8	46.5	70.9
Germany	250.0	233.7	202.5	187.7	180.1
Italy	438.9	466.9	409.6	484.6	431.7
Netherlands	–	–	–	–	–
Spain	128.1	140.7	145.5	129.9	153.0
Switzerland	37.6	36.3	47.7	43.5	49.3
United Kingdom	18.5	7.1	–	27.1	–
Middle East	–	–	–	–	–
Africa	10.0	15.0	10.0	13.6	20.1
Asia and Pacific	–	–	–	1.4	53.9
Unspecified	–	–	–	–	–
<b>Total world</b>	<b>991.7</b>	<b>1,005.0</b>	<b>987.6</b>	<b>922.4</b>	<b>1,126.5</b>

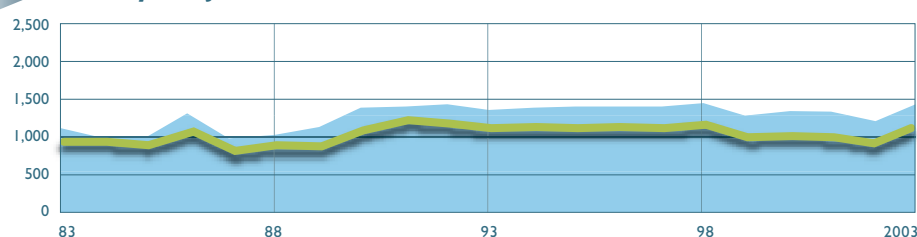
Graph 34 Iraq



Graph 35 Kuwait



Graph 36 SP Libyan AJ



production exports

## 51 Table

## OPEC Members' crude oil exports by destination, 1999–2003 (1,000 b/d)

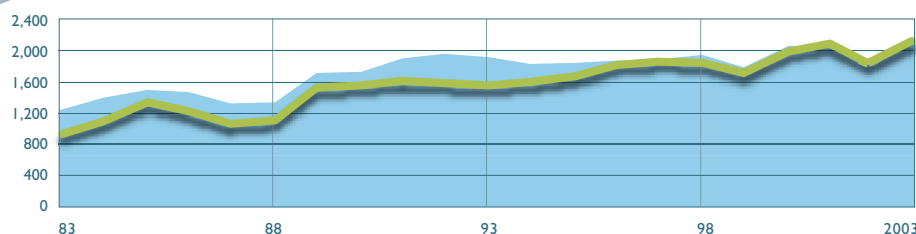
<b>Nigeria</b>	1999	2000	2001	2002	2003
<b>North America</b>	<b>676.0</b>	<b>931.2</b>	<b>868.7</b>	<b>644.3</b>	<b>951.3</b>
United States	654.4	904.3	855.8	580.8	848.9
<b>Latin America</b>	<b>110.1</b>	<b>105.7</b>	<b>151.9</b>	<b>136.4</b>	<b>204.5</b>
<b>Eastern Europe</b>	–	<b>2.6</b>	–	<b>2.6</b>	<b>23.9</b>
<b>Western Europe</b>	<b>426.3</b>	<b>437.9</b>	<b>534.2</b>	<b>412.3</b>	<b>464.3</b>
France	94.7	91.5	103.3	88.8	104.1
Germany	22.2	37.8	60.9	56.7	57.9
Italy	26.2	23.7	35.4	31.5	34.5
Netherlands	3.0	7.4	28.0	6.9	25.9
Sweden	–	5.2	5.1	2.6	0.0
United Kingdom	9.2	–	2.3	–	2.6
<b>Middle East</b>	–	–	–	–	–
<b>Africa</b>	<b>130.4</b>	<b>129.8</b>	<b>149.0</b>	<b>140.6</b>	<b>210.5</b>
<b>Asia and Pacific</b>	<b>362.4</b>	<b>379.2</b>	<b>385.7</b>	<b>462.0</b>	<b>449.0</b>
Japan	23.5	15.1	11.8	79.0	73.6
<b>Unspecified</b>	–	–	–	–	–
<b>Total world</b>	<b>1,705.1</b>	<b>1,986.4</b>	<b>2,089.4</b>	<b>1,798.2</b>	<b>2,303.5</b>

<b>Qatar</b>	1999	2000*	2001*	2002*	2003*
<b>North America</b>	<b>0.9</b>	–	<b>0.2</b>	<b>14.8</b>	<b>3.0</b>
United States	0.9	–	0.2	8.9	3.0
<b>Latin America</b>	–	–	–	–	–
<b>Eastern Europe</b>	–	–	–	–	–
<b>Western Europe</b>	–	<b>2.7</b>	–	<b>1.5</b>	<b>2.9</b>
France	–	2.0	–	0.5	1.0
Germany	–	–	–	–	–
Italy	–	–	–	–	1.0
Netherlands	–	–	–	–	–
<b>Middle East</b>	–	–	–	–	–
<b>Africa</b>	–	–	–	–	–
<b>Asia and Pacific</b>	<b>546.4</b>	<b>563.1</b>	<b>561.5</b>	<b>555.1</b>	<b>534.8</b>
Japan	391.0	390.3	427.2	444.8	371.7
Thailand	–	–	–	–	–
<b>Unspecified</b>	<b>33.3</b>	<b>51.8</b>	<b>43.8</b>	<b>9.4</b>	–
<b>Total world</b>	<b>580.5</b>	<b>617.6</b>	<b>605.5</b>	<b>580.8</b>	<b>540.7</b>

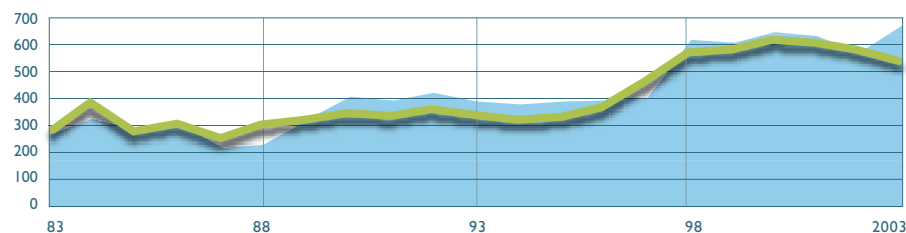
**OPEC Members' crude oil exports by destination, 1999–2003 (1,000 b/d)**

<b>Saudi Arabia</b>	1999	2000	2001	2002	2003
<b>North America</b>	1,463.6	1,581.3	1,534.4	1,339.2	1,635.4
United States	1,405.0	1,524.3	1,482.4	1,284.6	1,570.0
<b>Latin America</b>	73.8	61.6	100.7	60.5	65.3
<b>Eastern Europe</b>	–	–	–	–	–
<b>Western Europe</b>	1,244.7	1,325.5	1,112.0	940.0	1,191.4
France	302.6	315.2	238.5	225.2	226.4
Germany	88.8	92.3	81.1	72.6	77.9
Italy	179.0	169.7	182.0	167.4	214.6
Netherlands	224.5	244.8	212.7	152.0	212.7
Spain	127.9	133.8	127.0	135.6	140.5
United Kingdom	14.5	41.5	30.9	41.0	53.5
<b>Middle East</b>	189.0	165.6	157.4	135.5	199.1
<b>Africa</b>	201.8	217.7	177.0	187.3	263.9
<b>Asia and Pacific</b>	2,546.8	2,901.5	2,954.4	2,622.1	3,167.7
Japan	792.5	908.1	353.2	910.1	957.2
<b>Unspecified</b>	–	–	–	–	–
<b>Total world</b>	5,719.7	6,253.1	6,035.9	5,284.6	6,522.9

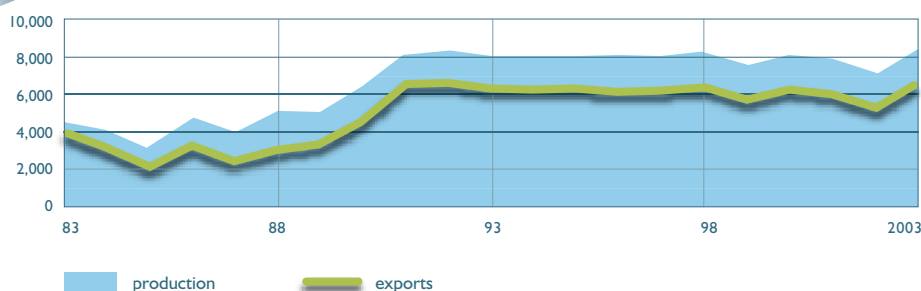
Graph 37 **Nigeria**



Graph 38 **Qatar**



Graph 39 **Saudi Arabia**

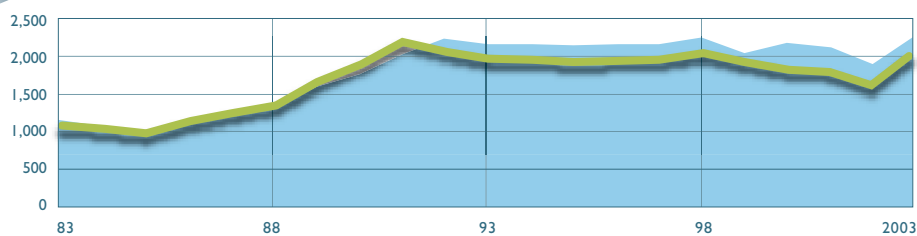




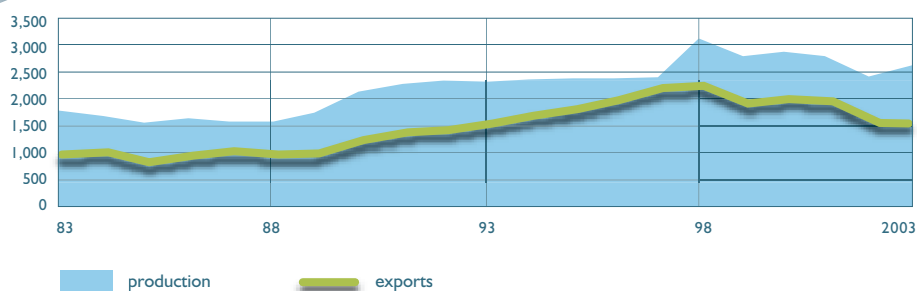
## OPEC Members' crude oil exports by destination, 1999–2003 (1,000 b/d)

United Arab Emirates	1999	2000	2001*	2002*	2003*
<b>North America</b>	–	1.3	19.6	10.0	7.0
United States	–	1.3	19.6	10.0	7.0
<b>Latin America</b>	–	–	–	–	–
<b>Eastern Europe</b>	–	–	–	–	–
<b>Western Europe</b>	1.0	1.3	6.1	3.0	–
France	–	0.1	5.1	–	–
Germany	–	–	–	–	–
Italy	–	–	–	–	–
Netherlands	–	1.2	–	–	–
United Kingdom	–	–	–	–	–
<b>Middle East</b>	4.0	–	–	–	–
<b>Africa</b>	39.0	34.3	37.0	26.0	28.0
<b>Asia and Pacific</b>	1,875.0	1,778.0	1,724.0	1,575.0	2,013.0
Japan	1,085.0	1,065.8	1,066.8	1,182.8	1,224.0
<b>Unspecified</b>	–	–	–	–	–
<b>Total world</b>	<b>1,919.0</b>	<b>1,814.9</b>	<b>1,786.7</b>	<b>1,614.0</b>	<b>2,048.0</b>

Graph 40 United Arab Emirates



Graph 41 Venezuela



**OPEC Members' crude oil exports by destination, 1999–2003** (1,000 b/d)

<b>Venezuela</b>	1999	2000	2001*	2002*	2003*
<b>North America</b>	<b>1,223.2</b>	<b>1,214.8</b>	<b>1,236.7</b>	<b>935.6</b>	<b>804.6</b>
Canada	108.6	96.9	85.7	63.3	28.0
United States	1,114.6	1,117.8	1,151.0	872.3	750.9
<b>Latin America</b>	<b>577.6</b>	<b>671.2</b>	<b>611.2</b>	<b>464.5</b>	<b>416.0</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>122.1</b>	<b>99.5</b>	<b>112.8</b>	<b>126.9</b>	<b>82.0</b>
France	–	–	–	3.3	2.9
Germany	38.4	26.2	28.7	15.7	19.3
Italy	1.3	2.0	2.8	6.2	4.3
Netherlands	12.6	7.4	9.3	4.7	–
Spain	24.4	22.5	32.7	39.5	16.4
United Kingdom	20.4	16.0	22.9	22.2	22.6
<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>–</b>	<b>–</b>	<b>4.0</b>	<b>–</b>	<b>–</b>
Japan	–	–	–	–	–
<b>Unspecified</b>	<b>–</b>	<b>18.1</b>	<b>–</b>	<b>44.9</b>	<b>232.4</b>
<b>Total world</b>	<b>1,923.0</b>	<b>2,003.5</b>	<b>1,964.7</b>	<b>1,572.0</b>	<b>1,535.0</b>

## 52 Table

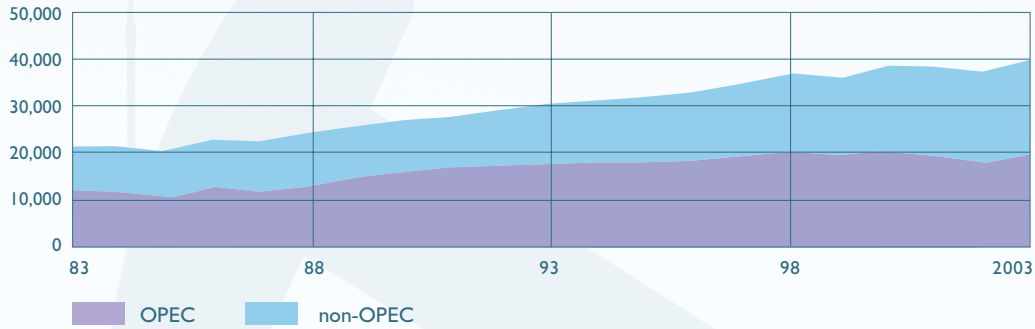
## World crude oil exports by country, 1999–2003 (1,000 b/d)

	1999	2000*	2001*	2002*	2003*	% change 03/02
<b>North America</b>	<b>1,168.0</b>	<b>1,226.7</b>	<b>1,150.4</b>	<b>1,447.4</b>	<b>1,575.7</b>	<b>8.9</b>
Canada	1,047.4	1,175.2	1,130.2	1,426.8	1,553.6	8.9
United States	120.6	51.5	20.2	20.6	22.1	7.4
<b>Latin America</b>	<b>4,715.5</b>	<b>5,039.5</b>	<b>5,060.9</b>	<b>4,610.8</b>	<b>4,768.6</b>	<b>3.5</b>
Colombia	515.4	608.0	576.0	566.5	564.1	-0.4
Ecuador	226.4	219.4	243.0	239.6	238.2	-0.6
Mexico	1,671.7	1,848.5	1,882.5	1,902.7	2,102.9	10.5
Trinidad & Tobago	58.0	60.2	62.7	60.3	60.2	-0.1
Venezuela	1,923.0	2,003.5	1,964.7	1,572.0	1,535.0	-2.4
Others	320.9	300.0	331.9	269.8	268.2	-0.6
<b>Eastern Europe</b>	<b>3,440.9</b>	<b>4,144.9</b>	<b>4,593.9</b>	<b>5,583.7</b>	<b>6,482.2</b>	<b>16.1</b>
Former USSR	3,438.7	4,142.9	4,592.2	5,581.7	6,479.5	16.1
Others	2.2	2.0	1.7	2.0	2.7	36.1
<b>Western Europe</b>	<b>4,646.6</b>	<b>4,960.0</b>	<b>4,853.4</b>	<b>4,763.5</b>	<b>4,371.5</b>	<b>-8.2</b>
Norway	2,681.4	2,887.0	2,962.6	2,833.0	2,694.2	-4.9
United Kingdom	1,697.7	1,726.0	1,610.6	1,624.2	1,345.4	-17.2
Others	267.4	347.1	280.2	306.3	331.9	8.4
<b>Middle East</b>	<b>15,147.0</b>	<b>16,016.5</b>	<b>15,129.2</b>	<b>13,781.9</b>	<b>14,707.7</b>	<b>6.7</b>
IR Iran	2,291.0	2,492.2	2,184.6	2,093.6	2,396.3	14.5
Iraq	2,130.9	2,039.8	1,710.2	1,494.6	388.6	-74.0
Kuwait	948.2	1,230.7	1,214.1	1,138.0	1,242.9	9.2
Oman	891.5	905.0	917.0	908.0	901.9	-0.7
Qatar	580.5	617.6	605.5	580.8	540.7	-6.9
Saudi Arabia	5,719.7	6,253.1	6,035.9	5,284.6	6,522.9	23.4
Syrian Arab Republic	347.1	338.0	346.0	337.0	335.9	-0.3
United Arab Emirates	1,919.0	1,814.9	1,786.7	1,614.0	2,048.0	26.9
Others	319.2	325.3	329.3	331.3	330.6	-0.2
<b>Africa</b>	<b>4,863.0</b>	<b>5,172.4</b>	<b>5,261.5</b>	<b>5,153.4</b>	<b>5,968.1</b>	<b>15.8</b>
Algeria	414.6	461.1	441.5	566.2	741.0	30.9
Angola	699.3	668.9	660.2	697.6	698.2	0.1
Cameroon	107.2	107.9	111.7	121.7	120.7	-0.9
Congo	256.2	249.8	250.0	256.0	253.5	-1.0
Egypt	56.1	51.6	53.6	56.6	56.4	-0.3
Gabon	314.4	308.2	315.0	314.9	312.7	-0.7
<b>SP Libyan AJ</b>	<b>991.7</b>	<b>1,005.0</b>	<b>987.6</b>	<b>983.6</b>	<b>1,126.5</b>	<b>14.5</b>
Nigeria	1,705.1	1,986.4	2,089.4	1,798.2	2,303.5	28.1
Others	318.3	333.5	352.4	358.5	355.7	-0.8
<b>Asia and Pacific</b>	<b>2,222.1</b>	<b>2,266.2</b>	<b>2,212.8</b>	<b>2,214.1</b>	<b>2,191.8</b>	<b>-1.0</b>
Australia	205.3	383.6	354.4	351.1	282.1	-19.6
Brunei	168.4	171.9	176.2	177.2	177.1	-0.1
China	143.7	209.3	164.7	144.6	163.1	12.8
Indonesia	781.9	622.5	599.2	609.9	650.2	6.6
Malaysia	395.5	380.2	397.6	401.6	397.9	-0.9
Vietnam	300.9	286.9	303.2	305.2	302.3	-1.0
Others	226.3	211.7	217.5	224.6	219.4	-2.4
<b>Total world</b>	<b>36,203.0</b>	<b>38,826.3</b>	<b>38,262.1</b>	<b>37,554.8</b>	<b>40,065.8</b>	<b>6.7</b>
<b>OPEC</b>	<b>19,405.5</b>	<b>20,526.7</b>	<b>19,619.4</b>	<b>17,735.6</b>	<b>19,495.7</b>	<b>9.9</b>
<b>OPEC percentage</b>	<b>53.6</b>	<b>52.9</b>	<b>51.3</b>	<b>47.2</b>	<b>48.7</b>	

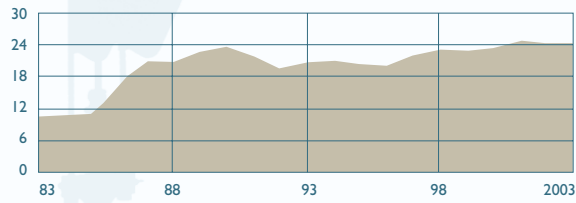
Notes: Data includes re-exports. Revisions have been made throughout the time series.



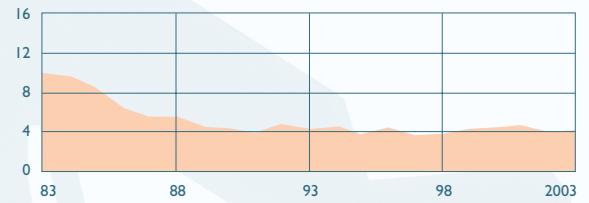
**Graph 42 Crude oil exports, 1983–2003**  
(1,000 b/d)



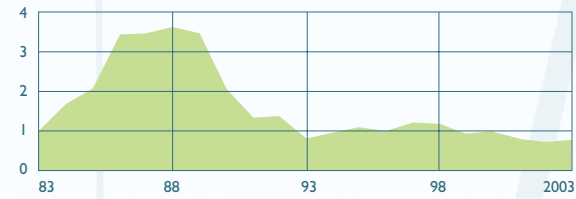
**Graph 43 North America**



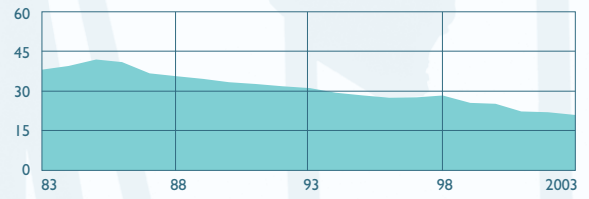
**Graph 44 Latin America**



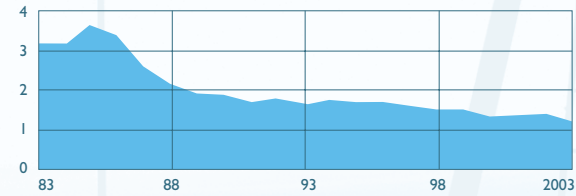
**Graph 45 Eastern Europe**



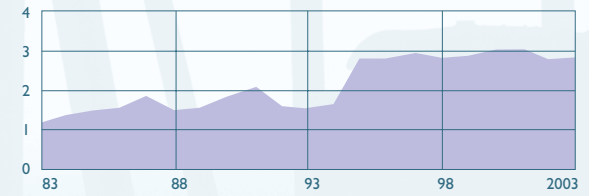
**Graph 46 Western Europe**



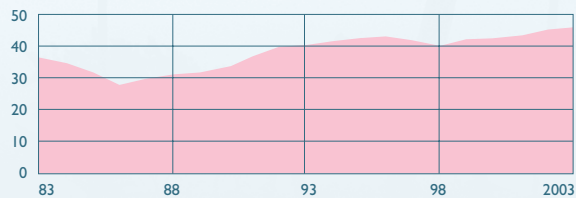
**Graph 47 Middle East**



**Graph 48 Africa**



**Graph 49 Asia and Pacific**

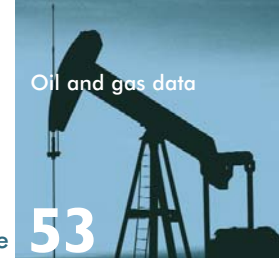


## 53 Table

## OPEC refined product exports by destination, 1999–2003 (1,000 b/d)

<b>Algeria</b>	1999	2000	2001	2002*	2003*
<b>North America</b>	<b>108.3</b>	<b>131.9</b>	<b>138.1</b>	<b>116.3</b>	<b>143.6</b>
United States	106.9	130.8	136.6	112.4	142.3
<b>Latin America</b>	<b>139.4</b>	<b>65.2</b>	<b>51.3</b>	<b>26.5</b>	<b>24.6</b>
<b>Eastern Europe</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>
<b>Western Europe</b>	<b>274.1</b>	<b>306.4</b>	<b>302.2</b>	<b>293.7</b>	<b>273.6</b>
France	52.2	48.2	55.9	46.7	40.9
Italy	70.3	61.1	55.6	58.2	65.1
Netherlands	46.9	49.3	39.5	51.7	49.0
Spain	37.3	47.8	69.6	63.1	62.4
United Kingdom	2.0	6.4	1.1	5.1	7.0
<b>Middle East</b>	<b>2.3</b>	<b>0.4</b>	<b>1.7</b>	<b>1.0</b>	<b>0.9</b>
<b>Africa</b>	<b>45.2</b>	<b>21.2</b>	<b>22.0</b>	<b>39.6</b>	<b>51.4</b>
<b>Asia and Pacific</b>	<b>30.4</b>	<b>19.2</b>	<b>40.4</b>	<b>50.2</b>	<b>28.4</b>
<b>Unspecified</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>5.8</b>
<b>Total world</b>	<b>599.7</b>	<b>544.3</b>	<b>555.8</b>	<b>527.2</b>	<b>528.3</b>

<b>Indonesia</b>	1999	2000*	2001*	2002*	2003*
<b>North America</b>	<b>5.2</b>	<b>6.7</b>	<b>7.8</b>	<b>2.8</b>	<b>6.8</b>
United States	5.2	6.7	7.8	2.1	6.8
<b>Latin America</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>
<b>Western Europe</b>	<b>11.7</b>	<b>3.7</b>	<b>7.9</b>	<b>12.6</b>	<b>12.7</b>
Italy	6.9	0.8	–	9.7	12.2
<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>175.0</b>	<b>178.4</b>	<b>180.7</b>	<b>137.0</b>	<b>135.9</b>
Japan	72.8	67.4	71.4	28.8	73.3
South Korea	38.3	54.5	46.0	40.0	34.9
Singapore	27.0	30.1	32.3	29.6	26.8
<b>Unspecified</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>
<b>Total world</b>	<b>191.9</b>	<b>188.8</b>	<b>196.3</b>	<b>152.4</b>	<b>155.3</b>

**OPEC refined product exports by destination, 1999–2003** (1,000 b/d)

<b>Kuwait</b>	1999	2000*	2001*	2002*	2003*
<b>North America</b>	1.9	8.3	9.5	12.7	12.8
United States	1.7	8.3	8.5	11.9	12.4
<b>Latin America</b>	na	na	na	na	na
<b>Western Europe</b>	57.9	59.7	55.2	25.4	39.8
Italy	–	–	5.1	–	–
Netherlands	31.5	21.9	5.2	3.2	1.1
United Kingdom	5.4	16.5	19.6	14.4	26.4
<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	0.5	–	0.1	0.1	–
Japan	141.6	128.4	126.1	107.5	127.3
<b>Unspecified</b>	–	–	–	–	–
<b>Total world</b>	<b>838.6</b>	<b>674.5</b>	<b>642.3</b>	<b>572.2</b>	<b>623.1</b>

<b>Saudi Arabia</b>	1999	2000	2001	2002	2003
<b>North America</b>	28.6	21.1	15.8	13.5	29.1
<b>Latin America</b>	45.0	56.3	37.1	29.8	31.3
<b>Western Europe</b>	62.5	78.0	80.9	50.1	81.5
<b>Middle East</b>	92.5	119.9	123.1	100.3	125.8
<b>Africa</b>	91.0	108.7	101.4	82.1	93.9
<b>Asia and Pacific</b>	960.1	844.0	724.3	717.7	767.0
<b>Unspecified</b>	–	–	–	–	–
<b>Total world</b>	<b>1,279.7</b>	<b>1,228.1</b>	<b>1,082.6</b>	<b>993.5</b>	<b>1,128.6</b>

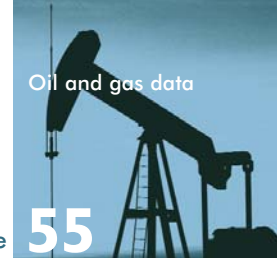
<b>Venezuela</b>	1999	2000*	2001*	2002*	2003*
<b>North America</b>	460.5	407.3	368.6	313.4	218.4
United States	357.4	315.5	284.4	282.7	194.1
<b>Latin America</b>	313.2	301.3	312.2	218.5	103.7
<b>Western Europe</b>	41.1	58.5	62.3	28.4	25.9
Italy	6.3	8.7	7.2	7.4	5.7
United Kingdom	2.7	3.4	1.3	7.4	1.4
<b>Africa</b>	–	–	–	–	–
<b>Asia and Pacific</b>	13.1	12.5	17.9	9.5	0.1
Japan	0.7	12.5	17.2	7.1	0.1
<b>Unspecified</b>	–	–	–	–	137.0
<b>Total world</b>	<b>828.0</b>	<b>779.6</b>	<b>761.1</b>	<b>569.7</b>	<b>485.0</b>



## World exports of refined products by country, 1999–2003 (1,000 b/d)

	1999*	2000*	2001*	2002*	2003*	% change 03/02
<b>North America</b>	<b>1,114.3</b>	<b>1,274.7</b>	<b>1,377.5</b>	<b>1,414.6</b>	<b>1,482.1</b>	<b>4.8</b>
Canada	283.7	292.9	380.3	407.8	415.7	1.9
United States	830.6	981.8	997.2	1,006.8	1,066.3	5.9
Others	–	–	–	–	0.1	–
<b>Latin America</b>	<b>2,106.8</b>	<b>2,094.3</b>	<b>2,201.1</b>	<b>2,002.4</b>	<b>2,068.6</b>	<b>3.3</b>
Argentina	118.9	154.7	203.0	206.0	213.0	3.4
Ecuador	33.9	35.0	40.0	36.3	37.4	2.9
Mexico	91.2	74.8	82.8	101.7	153.4	50.8
Netherlands Antilles	193.6	205.0	220.0	206.2	213.1	3.3
Trinidad & Tobago	133.3	142.6	145.0	140.3	142.3	1.4
Venezuela	828.0	779.6	761.1	569.7	485.0	–14.9
Virgin Islands	382.1	385.9	397.2	388.4	390.5	0.5
Others	325.9	316.7	352.0	353.8	433.9	22.7
<b>Eastern Europe</b>	<b>1,089.5</b>	<b>1,272.3</b>	<b>1,456.2</b>	<b>1,800.7</b>	<b>1,879.1</b>	<b>4.4</b>
Romania	44.6	50.4	54.3	57.9	66.0	14.0
Former USSR	913.1	1,086.3	1,246.5	1,582.0	1,657.7	4.8
Others	131.8	135.6	155.3	160.8	155.4	–3.4
<b>Western Europe</b>	<b>4,025.5</b>	<b>4,171.0</b>	<b>4,171.0</b>	<b>4,222.0</b>	<b>4,566.0</b>	<b>8.1</b>
Belgium	366.8	395.0	388.6	401.2	406.3	1.3
France	302.0	363.2	368.5	354.2	418.1	18.0
Germany	297.8	373.8	371.3	373.4	401.6	7.6
Italy	448.0	414.9	429.9	421.2	444.7	5.6
Netherlands	1,213.6	1,271.2	1,319.7	1,314.0	1,316.5	0.2
United Kingdom	487.6	422.2	394.0	455.1	471.9	3.7
Others	909.7	930.6	899.2	902.8	1,106.9	22.6
<b>Middle East</b>	<b>3,302.1</b>	<b>3,140.3</b>	<b>2,962.6</b>	<b>2,876.0</b>	<b>3,096.7</b>	<b>7.7</b>
Bahrain	260.2	260.0	274.0	264.7	269.4	1.7
IR Iran	362.9	347.3	307.7	328.0	333.2	1.6
Iraq	23.0	23.0	25.0	22.5	10.5	–53.5
Kuwait	838.6	674.5	642.3	572.2	623.1	8.9
Qatar	75.3	75.3	78.1	67.3	61.5	–8.6
Saudi Arabia	1,279.7	1,228.1	1,082.6	993.5	1,128.6	13.6
United Arab Emirates	331.0	391.7	398.2	485.5	513.6	5.8
Others	131.5	140.4	154.7	142.2	156.8	10.2
<b>Africa</b>	<b>1,162.2</b>	<b>1,172.7</b>	<b>1,213.6</b>	<b>1,193.8</b>	<b>1,113.9</b>	<b>–6.7</b>
Algeria	599.7	544.3	555.8	527.2	528.3	0.2
Egypt	93.6	87.3	96.3	92.4	90.8	–1.7
Gabon	6.9	7.0	7.7	7.2	7.3	1.3
Nigeria	14.1	47.3	65.7	78.2	67.7	–13.4
SP Libyan AJ	201.2	237.0	225.0	221.1	145.4	–34.2
Others	246.7	249.8	263.1	267.7	274.5	2.5
<b>Asia and Pacific</b>	<b>2,826.2</b>	<b>2,788.5</b>	<b>2,803.6</b>	<b>2,569.8</b>	<b>2,739.2</b>	<b>6.6</b>
Australia	101.3	100.7	99.6	86.3	79.3	–8.0
China	264.8	292.0	246.9	267.9	336.4	25.6
Indonesia	191.9	188.8	196.3	152.4	155.3	1.9
Japan	133.6	87.8	93.9	82.2	69.2	–15.8
Malaysia	146.1	143.7	153.0	147.6	214.6	45.4
Singapore	940.6	892.6	942.0	925.1	880.2	–4.9
Others	1,047.9	1,082.9	1,071.8	908.4	1,004.1	10.5
<b>Total world</b>	<b>15,626.7</b>	<b>15,913.6</b>	<b>16,185.4</b>	<b>16,079.3</b>	<b>16,945.5</b>	<b>5.4</b>
<b>OPEC</b>	<b>4,745.3</b>	<b>4,536.8</b>	<b>4,337.8</b>	<b>4,017.6</b>	<b>4,052.3</b>	<b>0.9</b>
<b>OPEC percentage</b>	<b>30.4</b>	<b>28.5</b>	<b>26.8</b>	<b>25.0</b>	<b>23.9</b>	

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



World natural gas exports by country, 1999–2003 (million standard cu m)

	1999	2000	2001	2002	2003	% change 03/02
<b>North America</b>	<b>99,240</b>	<b>108,445</b>	<b>117,781</b>	<b>122,220</b>	<b>116,483</b>	<b>-4.7</b>
Canada	94,700	101,445	107,372	107,600	96,889	-10.0
United States	4,540	7,000	10,409	14,620	19,594	34.0
<b>Latin America</b>	<b>8,750</b>	<b>10,540</b>	<b>13,870</b>	<b>16,000</b>	<b>23,260</b>	<b>45.4</b>
Argentina	3,430	4,240	5,960	5,840	6,460	10.6
Bolivia	1,570	2,030	3,680	4,780	4,890	2.3
Mexico	1,560	330	280	60	-	-100.0
Trinidad & Tobago	2,190	3,940	3,950	5,320	11,910	123.9
<b>Eastern Europe</b>	<b>127,490</b>	<b>131,670</b>	<b>130,590</b>	<b>130,410</b>	<b>137,080</b>	<b>5.1</b>
Former USSR	127,490	131,670	130,590	130,410	137,080	5.1
<b>Western Europe</b>	<b>95,500</b>	<b>109,490</b>	<b>114,380</b>	<b>131,340</b>	<b>143,940</b>	<b>9.6</b>
Austria	-	-	-	200	800	300.0
Belgium	-	-	-	1,100	1,600	45.5
Denmark	2,710	3,040	3,590	3,670	3,300	-10.1
France	700	800	800	770	770	-
Germany	3,800	5,110	4,140	8,280	10,840	30.9
Netherlands	35,000	36,620	42,400	41,390	42,170	1.9
Norway	45,490	48,910	50,500	62,930	69,260	10.1
United Kingdom	7,800	15,010	12,950	13,000	15,200	16.9
<b>Middle East</b>	<b>15,670</b>	<b>23,700</b>	<b>31,788</b>	<b>34,633</b>	<b>40,255</b>	<b>16.2</b>
IR Iran	-	-	358	670	3,413	409.4
Oman	500	2,710	7,430	8,460	9,410	11.2
Qatar	8,100	14,040	16,540	18,390	20,245	10.1
United Arab Emirates	7,070	6,950	7,460	7,113	7,187	1.0
<b>Africa</b>	<b>61,020</b>	<b>68,223</b>	<b>66,455</b>	<b>67,127</b>	<b>72,390</b>	<b>7.8</b>
Algeria	59,320	61,693	56,975	57,864	59,850	3.4
SP Libyan AJ	960	800	790	630	750	19.0
Nigeria	740	5,730	8,690	8,633	11,790	36.6
<b>Asia and Pacific</b>	<b>79,490</b>	<b>78,480</b>	<b>78,600</b>	<b>83,755</b>	<b>91,430</b>	<b>9.2</b>
Australia	10,100	10,050	10,200	10,030	10,520	4.9
Brunei	8,410	8,790	9,000	9,180	9,670	5.3
Indonesia	39,120	36,220	32,910	37,685	39,400	4.6
Japan	-	-	-	150	-	-
South Korea	-	-	-	50	-	-
Malaysia	21,770	22,090	21,170	20,460	24,970	22.0
Myanmar	90	1,330	4,910	6,200	6,870	10.8
Taiwan	-	-	410	-	-	-
<b>Total world</b>	<b>487,160</b>	<b>530,548</b>	<b>553,464</b>	<b>585,485</b>	<b>624,838</b>	<b>6.7</b>
<b>OPEC</b>	<b>115,310</b>	<b>125,433</b>	<b>123,723</b>	<b>130,985</b>	<b>142,635</b>	<b>8.9</b>
<b>OPEC percentage</b>	<b>23.7</b>	<b>23.6</b>	<b>22.4</b>	<b>22.4</b>	<b>22.8</b>	

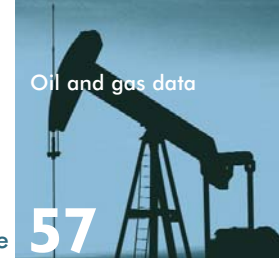
Note: Totals may not add up due to independent rounding.

## 56 Table

## World imports of crude oil by country, 1999–2003 (1,000 b/d)

	1999*	2000*	2001*	2002*	2003*	% change 03/02
<b>North America</b>	<b>10,096.7</b>	<b>10,636.8</b>	<b>10,842.6</b>	<b>10,590.0</b>	<b>11,237.7</b>	<b>6.1</b>
Canada	770.2	914.7	913.3	874.5	888.9	1.7
United States	9,326.5	9,722.2	9,929.3	9,715.5	10,348.8	6.5
<b>Latin America</b>	<b>1,840.4</b>	<b>1,863.0</b>	<b>1,831.1</b>	<b>1,848.0</b>	<b>1,881.5</b>	<b>1.8</b>
Brazil	476.7	452.3	416.9	448.6	419.7	-6.4
Chile	192.5	196.3	198.8	195.8	195.2	-0.3
Cuba	13.0	14.6	15.0	14.2	14.5	2.0
Netherlands Antilles	213.3	227.9	222.0	221.1	222.0	0.4
Puerto Rico	122.2	126.3	123.0	123.8	123.9	0.1
Virgin Islands	438.9	443.1	447.0	443.0	443.6	0.1
Others	383.7	402.4	408.5	401.4	462.6	15.2
<b>Eastern Europe</b>	<b>939.6</b>	<b>970.5</b>	<b>972.1</b>	<b>954.7</b>	<b>992.0</b>	<b>3.9</b>
Bulgaria	112.1	124.5	122.7	119.8	115.8	-3.3
Former Czechoslovakia	138.6	114.4	119.9	123.5	128.8	4.3
Romania	88.3	93.2	97.6	93.0	140.0	50.5
Former USSR	50.0	50.0	50.0	50.0	40.0	-20.0
Others	550.7	588.3	581.9	568.4	567.4	-0.2
<b>Western Europe</b>	<b>11,896.2</b>	<b>11,484.4</b>	<b>11,514.2</b>	<b>11,298.5</b>	<b>11,639.6</b>	<b>3.0</b>
Belgium	696.1	681.2	642.5	671.7	727.9	8.4
France	1,803.6	1,705.1	1,703.9	1,606.9	1,708.0	6.3
Germany	2,196.5	2,082.2	2,112.1	2,106.5	2,138.8	1.5
Greece	372.9	389.0	379.7	383.9	397.3	3.5
Italy	1,718.0	1,679.9	1,659.4	1,610.0	1,686.3	4.7
Netherlands	1,141.5	1,097.9	1,089.5	940.6	974.5	3.6
Spain	1,199.8	1,154.2	1,140.5	1,133.6	1,150.7	1.5
Sweden	399.8	420.3	400.6	364.6	406.1	11.4
Turkey	476.6	434.8	466.8	475.2	483.9	1.8
United Kingdom	792.3	848.9	919.8	1,013.6	967.6	-4.5
Others	1,099.1	990.7	999.6	991.9	998.6	0.7
<b>Middle East</b>	<b>483.0</b>	<b>498.2</b>	<b>487.3</b>	<b>491.5</b>	<b>501.2</b>	<b>2.0</b>
Bahrain	225.5	227.0	223.5	225.3	225.0	-0.2
Syrian Arab Republic	-	-	-	-	-	-
Yemen	-	-	-	-	-	-
Others	257.5	271.2	263.8	266.2	276.2	3.8
<b>Africa</b>	<b>772.5</b>	<b>784.4</b>	<b>777.0</b>	<b>778.0</b>	<b>731.5</b>	<b>-6.0</b>
Côte d'Ivoire	72.1	73.0	70.0	71.7	72.4	1.0
Kenya	35.8	37.0	35.0	35.9	36.3	1.0
Morocco	147.9	150.3	153.4	150.5	145.2	-3.5
Others	516.7	524.1	518.6	519.8	477.6	-8.1
<b>Asia and Pacific</b>	<b>11,788.6</b>	<b>12,669.7</b>	<b>12,424.6</b>	<b>12,145.1</b>	<b>13,510.9</b>	<b>11.2</b>
Australia	403.8	373.9	399.7	389.8	377.9	-3.1
India	925.9	964.3	974.0	954.7	1,574.1	64.9
Indonesia	232.0	219.1	326.0	327.7	306.7	-6.4
Japan	4,261.0	4,222.0	4,179.1	3,953.6	4,162.7	5.3
New Zealand	89.6	90.0	83.6	90.7	95.6	5.4
Philippines	322.2	325.0	320.0	322.4	306.3	-5.0
Singapore	894.8	942.6	927.1	921.5	823.0	-10.7
South Korea	2,302.2	2,446.8	2,356.9	2,143.0	2,166.1	1.1
Taiwan	698.2	757.8	733.2	729.7	768.7	5.3
Thailand	672.9	654.8	648.3	658.7	686.1	4.2
Others	985.9	1,673.4	1,476.6	1,653.2	2,243.7	35.7
<b>Total world</b>	<b>37,817.1</b>	<b>38,907.0</b>	<b>38,848.9</b>	<b>38,105.9</b>	<b>40,494.4</b>	<b>6.3</b>

Note: Revisions have been made throughout the time series.



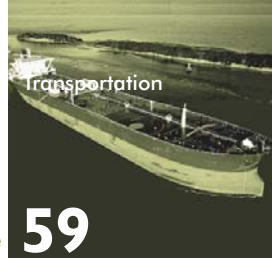
World imports of refined products by country, 1999–2003 (1,000 b/d)

	1999	2000*	2001*	2002*	2003*	% change 03/02
<b>North America</b>	<b>1,509.1</b>	<b>1,761.9</b>	<b>1,765.0</b>	<b>1,643.6</b>	<b>2,042.6</b>	<b>24.3</b>
Canada	173.8	163.9	210.4	188.5	230.4	22.2
United States	1,331.0	1,593.7	1,550.3	1,450.7	1,807.7	24.6
Others	4.3	4.3	4.3	4.4	4.5	2.3
<b>Latin America</b>	<b>1,486.3</b>	<b>1,548.1</b>	<b>1,418.3</b>	<b>1,352.1</b>	<b>1,354.6</b>	<b>0.2</b>
Brazil	304.7	288.4	297.2	292.8	306.8	4.8
Cuba	135.0	131.0	130.0	130.5	132.2	1.3
Mexico	354.8	437.1	309.0	242.0	199.0	-17.8
Netherlands Antilles	33.5	33.2	33.8	33.5	33.6	0.3
Panama	21.0	17.0	18.1	17.6	17.7	0.9
Puerto Rico	99.0	99.0	100.0	99.5	99.9	0.4
Others	538.4	542.4	530.1	536.3	565.4	5.4
<b>Eastern Europe</b>	<b>269.0</b>	<b>199.6</b>	<b>221.0</b>	<b>226.7</b>	<b>230.3</b>	<b>1.6</b>
Bulgaria	6.0	12.0	9.7	10.9	11.0	1.4
Former USSR	40.0	10.0	10.0	10.0	9.8	-2.0
Hungary	26.8	21.1	24.3	39.4	40.4	2.5
Poland	92.3	62.7	63.0	66.6	67.6	1.5
Others	103.9	93.8	114.0	99.8	101.5	1.6
<b>Western Europe</b>	<b>4,843.5</b>	<b>5,166.7</b>	<b>5,247.6</b>	<b>4,960.6</b>	<b>5,384.1</b>	<b>8.5</b>
Belgium	291.4	302.0	322.1	299.6	314.1	4.8
France	574.2	556.8	543.3	568.9	589.2	3.6
Germany	879.1	915.8	945.9	729.8	766.8	5.1
Italy	368.0	359.4	324.2	315.1	340.4	8.0
Netherlands	813.0	957.4	1,000.1	1,028.3	1,086.8	5.7
United Kingdom	257.2	293.8	340.7	270.1	296.0	9.6
Others	1,660.5	1,781.5	1,771.2	1,748.7	1,990.8	13.8
<b>Middle East</b>	<b>342.0</b>	<b>347.7</b>	<b>362.8</b>	<b>345.2</b>	<b>384.5</b>	<b>11.4</b>
Syrian Arab Republic	20.0	20.2	21.0	20.6	20.8	1.0
Others	322.0	327.5	341.8	324.6	363.7	12.0
<b>Africa</b>	<b>480.6</b>	<b>533.1</b>	<b>527.8</b>	<b>532.7</b>	<b>575.0</b>	<b>7.9</b>
Egypt	49.3	50.7	53.2	52.0	52.1	0.2
Morocco	27.0	28.5	29.6	29.1	29.2	0.6
Nigeria	52.6	106.3	93.3	102.0	123.9	21.4
Senegal	9.5	9.6	9.9	9.8	9.8	0.8
Tunisia	53.1	51.4	50.0	50.7	50.8	0.1
Others	289.1	286.6	291.8	289.2	309.3	6.9
<b>Asia and Pacific</b>	<b>5,232.6</b>	<b>5,205.1</b>	<b>5,196.1</b>	<b>5,303.7</b>	<b>6,093.4</b>	<b>14.9</b>
Australia	76.9	86.2	85.1	99.4	106.0	6.6
China	631.9	522.4	601.7	660.1	826.6	25.2
Hong Kong	411.0	393.1	387.6	390.4	419.0	7.3
India	441.2	449.0	462.0	455.5	508.8	11.7
Japan	1,013.7	1,015.3	945.8	970.6	1,228.8	26.6
New Zealand	31.0	25.6	23.5	29.6	30.1	1.7
Singapore	643.2	632.7	626.3	629.5	633.8	0.7
Others	1,983.7	2,080.7	2,064.2	2,068.6	2,340.4	13.1
<b>Total world</b>	<b>14,163.1</b>	<b>14,762.2</b>	<b>14,738.5</b>	<b>14,364.7</b>	<b>16,064.5</b>	<b>11.8</b>

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

## World imports of natural gas by country, 1999–2003 (million standard cu m)

	1999	2000	2001	2002	2003	% change 03/02
<b>North America</b>	<b>102,090</b>	<b>109,208</b>	<b>118,324</b>	<b>119,070</b>	<b>119,219</b>	<b>0.1</b>
Canada	1,200	2,060	4,730	5,350	7,820	46.2
United States	100,890	107,148	113,594	113,720	111,399	-2.0
<b>Latin America</b>	<b>6,710</b>	<b>9,560</b>	<b>14,220</b>	<b>18,700</b>	<b>21,480</b>	<b>14.9</b>
Argentina	1,200	-	-	-	-	-
Brazil	370	2,120	4,420	5,260	5,320	1.1
Chile	3,390	4,070	5,140	5,340	6,060	13.5
Dominican Republic	-	-	-	-	300	-
Mexico	1,730	2,980	3,990	7,450	9,000	20.8
Puerto Rico	-	350	630	630	740	17.5
Uruguay	20	40	40	20	60	200.0
<b>Eastern Europe</b>	<b>39,350</b>	<b>40,850</b>	<b>40,800</b>	<b>42,250</b>	<b>44,730</b>	<b>5.9</b>
Bulgaria	3,350	3,200	2,900	2,800	2,800	-
Former Czechoslovakia	16,600	17,300	17,600	17,630	17,220	-2.3
Hungary	8,700	9,200	9,300	10,290	10,300	0.1
Poland	7,500	7,750	8,000	7,830	8,710	11.2
Romania	3,200	3,400	3,000	3,700	5,700	54.1
<b>Western Europe</b>	<b>242,420</b>	<b>265,470</b>	<b>265,324</b>	<b>285,125</b>	<b>305,718</b>	<b>7.2</b>
Austria	6,120	6,120	6,550	6,730	7,800	15.9
Belgium	16,120	16,300	16,039	16,200	17,800	9.9
Denmark	-	-	-	100	200	100.0
Finland	4,200	4,300	4,500	4,400	4,840	10.0
France	41,120	42,620	41,590	43,110	40,597	-5.8
Germany	75,230	76,200	78,200	83,790	85,980	2.6
Greece	1,500	2,140	1,980	2,020	2,450	21.3
Ireland	2,100	2,600	3,500	3,430	3,700	7.9
Italy	49,410	58,500	54,750	57,725	61,977	7.4
Luxembourg	700	700	800	900	1,200	33.3
Netherlands	7,340	12,600	8,530	12,270	14,230	16.0
Portugal	2,150	2,350	2,460	2,680	3,350	25.0
Spain	15,450	16,930	18,985	20,900	23,994	14.8
Sweden	840	840	950	1,280	1,250	-2.3
Switzerland	3,040	3,050	3,030	2,770	2,920	5.4
Turkey	12,300	14,300	16,380	17,720	21,520	21.4
United Kingdom	1,370	2,200	3,000	5,100	7,510	47.3
Former Yugoslavia	3,430	3,720	4,080	4,000	4,400	10.0
<b>Middle East</b>	<b>2,000</b>	<b>2,650</b>	<b>4,500</b>	<b>4,900</b>	<b>5,731</b>	<b>17.0</b>
IR Iran	2,000	2,650	4,500	4,900	5,731	17.0
<b>Africa</b>	<b>800</b>	<b>1,730</b>	<b>1,580</b>	<b>2,290</b>	<b>2,290</b>	<b>-</b>
Morocco	-	-	-	600	600	-
Tunisia	800	1,730	1,580	1,690	1,690	-
<b>Asia and Pacific</b>	<b>93,790</b>	<b>101,080</b>	<b>108,716</b>	<b>113,150</b>	<b>125,670</b>	<b>11.1</b>
Japan	69,360	72,590	74,306	72,770	79,770	9.6
South Korea	17,520	19,680	21,830	24,320	26,230	7.9
Singapore	1,500	1,500	1,270	2,660	5,320	100.0
Taiwan	5,320	5,980	6,400	7,200	7,480	3.9
Thailand	90	1,330	4,910	6,200	6,870	10.8
<b>Total world</b>	<b>487,160</b>	<b>530,548</b>	<b>553,464</b>	<b>585,485</b>	<b>624,838</b>	<b>6.7</b>
<b>OPEC</b>	<b>2,000</b>	<b>2,650</b>	<b>4,500</b>	<b>4,900</b>	<b>5,731</b>	<b>17.0</b>
<b>OPEC percentage</b>	<b>0.4</b>	<b>0.5</b>	<b>0.8</b>	<b>0.8</b>	<b>0.9</b>	<b>-</b>

Table **59****Tanker fleet development in OPEC Members, 1999–2003** (1,000 dwt)

	1999		2000		2001		2002		2003	
	number	dwt	number	dwt	number	dwt	number	dwt	number	dwt
Algeria	1	22.6	1	22.6	1	22.6	1	22.6	1	22.6
Indonesia	31	904.2	32	988.9	32	988.9	32	988.9	32	988.9
IR Iran	20	3,523.6	21	3,699.6	24	3,070.6	23	4,169.6	27	5,644.5
Iraq	9	534.3	9	534.3	9	534.3	9	534.3	9	534.3
Kuwait	17	2,890.3	16	2,862.9	26	3,329.6	17	2,898.0	29	3,625.3
SP Libyan AJ	5	526.9	6	775.3	6	775.3	6	775.3	6	775.3
Nigeria	2	413.0	2	413.0	2	413.0	2	408.8	2	408.8
Qatar	5	465.8	4	368.6	4	368.6	4	368.6	4	368.6
Saudi Arabia	11	481.3	12	578.6	12	578.6	12	578.6	12	578.6
United Arab Emirates	13	659.4	10	291.6	10	291.6	9	291.6	7	275.4
Venezuela	7	373.8	6	320.3	6	320.3	6	320.3	13	557.5
<b>Total OPEC</b>	<b>121</b>	<b>10,795</b>	<b>119</b>	<b>10,856</b>	<b>132</b>	<b>10,693</b>	<b>121</b>	<b>11,357</b>	<b>142</b>	<b>13,780</b>
Total world	3,313	289,358	3,329	292,059	3,336	291,110	3,368	293,571	3,524	306,578
OPEC percentage		3.7		3.7		3.7		3.9		4.5

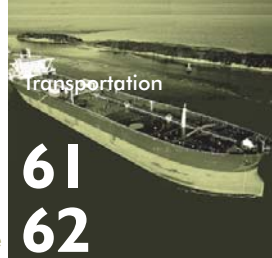
Notes: Figures as at year-end. Totals may not add up due to independent rounding. Total world includes commercial units and government-owned vessels.




**World tanker fleet by age, 2003 (1,000 dwt)**

	1988 and earlier		1989-93		1994-1998		1999-2003		Total	
	number	dwt	number	dwt	number	dwt	number	dwt	number	dwt
10,000-19,999	285	4,324.6	49	707.8	118	1,666.5	146	2,257.3	598	8,956.2
20,000-29,999	208	5,598.6	47	1,330.2	18	515.5	33	787.4	306	8,231.7
30,000-39,999	262	9,264.1	31	1,125.1	65	2,303.2	148	5,238.8	506	17,931.3
40,000-49,999	127	5,588.0	72	3,133.0	105	4,734.7	171	7,756.2	475	21,211.9
50,000-59,999	60	3,279.2	3	170.1	1	55.2	1	59.7	65	3,564.1
60,000-69,999	111	7,128.7	31	2,082.9	8	543.3	29	1,958.8	179	11,713.8
70,000-74,999	11	829.1	4	300.0	1	74.0	32	2,304.3	48	3,507.4
75,000-89,999	111	9,558.5	43	3,964.3	7	607.9	10	838.1	171	14,968.8
90,000-99,999	47	4,437.3	60	5,819.9	49	4,753.3	26	2,528.2	182	17,538.7
100,000-109,999	17	1,792.0	17	1,756.4	45	4,760.9	118	12,467.5	197	20,776.9
110,000-119,999	10	1,141.4	6	685.3	2	220.5	43	4,850.4	61	6,897.5
120,000-129,999	18	2,272.0	9	1,164.3	7	878.2	6	756.4	40	5,070.9
130,000-139,999	10	1,347.1	25	3,517.7	7	937.6	2	274.1	44	6,076.4
140,000-149,999	6	866.0	31	4,569.3	29	4,299.0	21	3,097.9	87	12,832.3
150,000-159,999	9	1,385.6	17	2,629.5	15	2,312.4	57	8,941.7	98	15,269.3
160,000-199,999	9	1,619.9	-	-	-	-	16	2,611.8	25	4,231.7
200,000-229,999	3	654.5	-	-	-	-	-	-	3	654.5
230,000-259,999	28	6,962.9	41	10,392.7	17	4,405.9	9	2,330.0	95	24,091.4
260,000-299,999	20	5,505.5	60	16,966.9	41	11,880.9	62	18,036.4	183	52,389.7
300,000-349,999	5	1,640.1	10	3,041.1	35	10,643.3	100	30,698.0	150	46,022.6
350,000 and over	7	2,871.7	-	-	-	-	4	1,769.4	11	4,641.1
<b>Total world</b>	<b>1,364</b>	<b>78,066.8</b>	<b>556</b>	<b>63,356.6</b>	<b>570</b>	<b>55,592.5</b>	<b>1,034</b>	<b>109,562.3</b>	<b>3,524</b>	<b>306,578.2</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.



Table

61  
62**World liquid gas carrier fleet by size and type, 2003** (1,000 cu m)

	LPG		LNG		Total	
	number	capacity	number	capacity	number	capacity
up to 999	70	46.4	–	–	70	46.4
1,000–1,999	264	380.6	1	1.5	265	382.1
2,000–4,999	260	855.0	1	3	261	858.0
5,000–9,999	151	1,018.9	–	–	151	1,018.9
10,000–19,999	60	813.0	4	76.1	64	889.1
20,000–39,999	58	1,645.0	6	178.6	64	1,823.6
40,000–59,999	24	1,336.0	6	252.9	30	1,588.9
60,000–99,999	105	8,195.0	15	1,158.6	120	9,353.6
100,000 and over	1	100.9	121	15,987.0	122	16,087.9
<b>Total world</b>	<b>993</b>	<b>14,390.8</b>	<b>154</b>	<b>17,657.8</b>	<b>1,147</b>	<b>32,048.6</b>

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

**Liquid gas carrier fleet in OPEC Members, 2003** (1,000 cu m)

	LPG		LNG		Total	
	number	capacity	number	capacity	number	capacity
Algeria	4	23.9	6	677.9	10	701.8
Indonesia	6	22.9	–	–	6	22.9
IR Iran	1	12.1	–	–	1	12.1
Iraq	–	–	–	–	–	–
Kuwait	5	373.3	–	–	5	373.3
SP Libyan AJ	3	9.8	–	–	3	9.8
Nigeria	–	–	10	1,295.5	10	1,295.5
Qatar	–	–	–	–	–	–
Saudi Arabia	–	–	–	–	–	–
United Arab Emirates	1	3.2	8	1,096.0	9	1,099.2
Venezuela	3	28.7	–	–	3	28.7
<b>OPEC</b>	<b>23</b>	<b>473.9</b>	<b>24</b>	<b>3,069.4</b>	<b>47</b>	<b>3,543.3</b>
Total world	993	14,390.8	154	17,657.8	1147	32,048.6
<b>OPEC percentage</b>		<b>3.3</b>		<b>17.4</b>		<b>11.1</b>

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

**World combined carrier fleet by size, 1999–2003** (1,000 dwt)

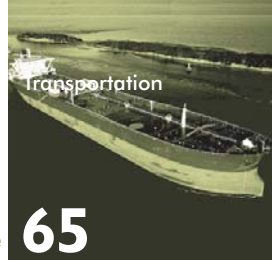
	1999		2000		2001		2002		2003	
	number	dwt	number	dwt	number	dwt	number	dwt	number	dwt
10,000–19,999	1	15.163	1	15.163	1	15.163	1	15.2	1	15.2
20,000–29,999	1	26.4	1	26.4	1	26.4	1	26.4	1	26.4
30,000–39,999	–	–	–	–	–	–	–	–	–	–
40,000–49,999	11	513.8	10	463.8	10	463.8	10	463.8	10	463.8
50,000–59,999	13	707.9	14	762.4	14	762.4	12	653.3	10	544.2
60,000–69,999	7	456.5	7	456.5	7	456.5	5	326.4	5	326.4
70,000–79,999	34	2,575.3	33	2,497.1	33	2,550.8	18	1,365.1	30	2,268.1
80,000–99,999	30	2,724.1	27	2,434.5	23	2,041.1	36	3,039.9	23	2,067.3
100,000–124,999	26	2,936.2	24	2,706.7	22	2,479.2	17	1,883.0	14	1,526.7
125,000–159,999	24	3,294.2	18	2,460.6	16	2,204.8	14	1,941.9	16	2,166.5
160,000–199,999	6	1,016.3	7	1,185.4	9	1,517.9	9	1,517.9	9	1,517.9
200,000–249,999	1	247.9	1	247.9	–	–	–	–	–	–
250,000–319,999	5	1,523.9	5	1,523.9	5	1,523.9	5	1,523.9	5	1,523.9
<b>Total world</b>	<b>159</b>	<b>16,037.8</b>	<b>148</b>	<b>14,780.7</b>	<b>141</b>	<b>14,042.1</b>	<b>128</b>	<b>12,756.9</b>	<b>124</b>	<b>12,446.5</b>

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

**World laid-up tanker and combined carrier tonnage by size, 1999–2003** (1,000 dwt)

	1999		2000		2001		2002		2003	
	number	dwt	number	dwt	number	dwt	number	dwt	number	dwt
Up to 44,999	2	50.0	5	133.8	5	111.7	6.0	100.0	4	80.0
45,000–79,999	–	–	1	57.4	–	–	2.0	100.0	–	–
80,000–159,999	1	110.0	4	534.0	1	125.0	–	–	–	–
160,000–199,999	6	930.0	2	350.0	2	330.1	4.0	600.0	–	–
200,000–319,999	–	–	–	–	3	1,062.2	–	–	1	300.0
320,000 and over	–	–	1	402.9	1	402.9	5.0	2,100.0	–	–
<b>Total world</b>	<b>9</b>	<b>1,090.0</b>	<b>13</b>	<b>1,478.2</b>	<b>12</b>	<b>2,031.9</b>	<b>17</b>	<b>2,900.0</b>	<b>5</b>	<b>400.0</b>

Note: Figures as at year-end.

**Average spot freight rates for all routes, 1994–2003** (percentage of *Worldscale*)

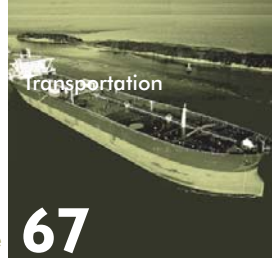
	GP 16.5–24.9	MR 25.0–44.9	LR1 45.0–79.9	LR2 80.0–159.9	VLCC 160.0–319.9
<b>1994</b>	186.6	170.7	116.2	85.5	42.3
<b>1995</b>	191.5	171.1	119.0	93.7	55.5
<b>1996</b>	215.3	191.5	128.2	102.8	60.6
<b>1997</b>	212.0	184.9	153.6	103.7	67.9
<b>1998</b>	182.3	154.2	120.4	92.6	63.1
<b>1999</b>	208.2	141.7	114.2	83.8	49.3
<b>2000</b>	306.6	234.8	217.7	164.0	106.9
<b>2001</b>	241.6	209.2	175.9	133.9	74.4
<b>2002</b>	236.5	150.0	129.2	95.6	48.1
<b>2003</b>	338.2	240.3	193.3	147.7	90.0
<b>2001</b> Jan	383.4	309.3	246.9	213.1	136.3
Feb	275.0	262.2	220.1	177.7	105.9
Mar	282.0	280.6	259.0	155.0	91.5
Apr	246.2	236.2	186.5	164.9	98.9
May	230.4	234.5	196.5	139.1	72.7
Jun	216.0	204.9	171.8	116.4	60.3
Jul	181.2	168.7	133.7	111.1	47.1
Aug	211.8	163.7	144.3	118.1	58.0
Sep	279.0	176.8	133.7	109.6	57.9
Oct	283.1	174.7	155.1	116.1	73.9
Nov	163.2	157.2	134.4	96.7	51.9
Dec	147.3	142.0	128.3	88.7	38.3
<b>2002</b> Jan	190.0	139.7	120.1	90.2	45.1
Feb	190.0	139.9	111.5	86.5	47.9
Mar	229.0	118.5	107.1	92.0	41.0
Apr	291.5	161.1	126.1	90.2	34.5
May	240.3	103.8	133.0	89.7	38.1
Jun	306.5	159.3	142.7	87.8	51.3
Jul	301.1	163.6	133.1	85.6	39.5
Aug	217.2	151.0	118.6	82.0	46.9
Sep	196.0	143.5	108.9	78.9	33.7
Oct	178.9	141.7	120.7	91.7	41.9
Nov	190.0	173.1	166.1	121.8	69.8
Dec	307.0	204.9	162.5	151.1	87.6
<b>2003</b> Jan	348.3	245.3	162.0	168.3	115.8
Feb	413.2	279.7	233.4	184.8	122.3
Mar	492.5	333.7	323.7	215.6	104.6
Apr	396.3	293.4	216.4	152.9	123.9
May	325.4	236.2	193.3	140.1	76.3
Jun	331.4	223.8	199.9	151.4	82.7
Jul	269.9	212.7	139.1	117.9	66.1
Aug	225.2	160.8	139.7	97.7	48.8
Sep	239.3	180.7	144.7	91.5	58.1
Oct	281.7	189.0	163.0	121.7	85.7
Nov	321.0	242.8	179.1	152.1	63.4
Dec	413.9	285.9	225.5	178.5	132.0

**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.


**Freight costs in the spot market, 1994–2003 (\$/b)**

	Crude oil					Petroleum products				
	Carib/USAC	Med/NWE	WAF/USGC	Gulf/Japan	Gulf/NWE	Gulf/Japan	Med/Med	Carib/USAC	S'pore/Japan	
1994	0.87	0.86	0.85	0.55	0.85	2.42	0.68	1.12	1.27	
1995	0.93	0.93	0.99	0.79	1.16	2.59	0.69	1.25	1.48	
1996	1.10	1.05	1.22	0.88	1.36	2.61	0.76	1.40	1.51	
1997	1.24	1.14	1.30	1.07	1.50	2.60	0.80	1.39	1.51	
1998	0.92	0.86	1.10	0.94	1.46	2.35	0.63	1.10	1.43	
1999	0.75	0.88	0.95	0.71	1.11	1.98	0.59	0.92	1.16	
2000	1.49	1.44	2.01	1.50	2.27	3.03	0.84	1.35	1.84	
2001	1.29	1.35	1.62	1.28	1.91	3.55	0.99	1.43	2.12	
2002	0.93	1.53	1.12	0.80	1.18	2.54	0.69	0.98	1.42	
2003	1.38	1.51	1.90	1.54	2.16	3.28	0.96	1.23	1.85	
2001 Jan	1.90	2.05	3.14	2.52	3.31	5.26	1.32	1.83	3.14	
Feb	1.99	1.87	2.10	1.71	2.53	4.70	1.30	1.87	2.83	
Mar	1.61	1.79	1.63	1.59	2.50	4.35	1.06	1.43	3.14	
Apr	1.48	1.68	1.93	1.73	2.87	3.58	1.07	1.62	2.26	
May	1.33	1.35	1.79	1.22	2.03	3.40	1.21	1.52	2.25	
Jun	1.21	1.28	1.49	1.03	1.50	3.59	1.14	1.56	2.22	
Jul	0.91	1.11	1.18	0.75	1.25	3.55	0.76	1.34	1.99	
Aug	0.98	1.21	1.52	0.92	1.56	3.22	0.80	1.19	1.64	
Sep	1.08	1.06	1.31	1.13	1.39	3.14	0.85	1.25	1.44	
Oct	1.47	1.06	1.38	1.33	1.75	3.12	0.84	1.28	1.74	
Nov	0.87	0.95	0.97	0.84	1.25	2.84	0.78	1.24	1.53	
Dec	0.69	0.81	0.99	0.63	0.95	1.82	0.74	1.04	1.29	
2002 Jan	0.83	1.17	0.99	0.67	1.00	1.76	0.63	1.10	1.17	
Feb	0.99	1.23	0.97	0.85	1.25	2.43	0.66	0.93	1.42	
Mar	0.86	1.14	1.09	0.69	1.00	2.42	0.62	0.92	1.36	
Apr	1.02	1.70	1.03	0.57	0.87	2.15	0.71	0.94	1.29	
May	1.03	1.77	1.03	0.54	0.92	2.23	0.83	0.97	1.18	
Jun	0.85	1.56	0.99	0.90	1.27	2.69	0.80	0.95	1.36	
Jul	0.81	1.46	1.11	0.67	0.95	2.76	0.65	0.93	1.33	
Aug	0.86	1.32	1.03	0.77	0.98	2.82	0.63	1.00	1.55	
Sep	0.71	1.24	1.02	0.55	0.87	2.85	0.60	0.95	1.55	
Oct	0.81	1.46	1.08	0.69	1.11	2.52	0.61	0.86	1.48	
Nov	1.12	2.07	1.51	1.19	1.79	2.78	0.64	1.10	1.53	
Dec	1.28	2.30	1.63	1.57	2.17	3.08	0.93	1.12	1.81	
2003 Jan	1.18	1.62	2.23	1.81	2.31	3.79	1.02	1.09	2.00	
Feb	1.73	1.88	2.55	2.01	3.53	4.25	1.08	1.21	1.94	
Mar	2.42	2.75	2.63	1.99	2.41	3.66	1.41	1.42	1.89	
Apr	1.56	1.33	2.05	2.21	3.09	4.41	1.16	1.56	2.18	
May	1.44	1.43	1.66	1.29	1.71	4.28	0.85	1.26	1.93	
Jun	1.43	1.37	2.02	1.39	1.82	3.15	0.76	0.92	1.63	
Jul	1.01	1.15	1.61	1.12	1.60	2.72	0.81	0.92	1.98	
Aug	0.89	0.86	1.27	0.79	1.25	3.31	0.98	1.03	2.02	
Sep	0.97	0.83	1.20	0.99	1.49	3.01	0.79	1.14	1.89	
Oct	1.22	1.15	1.55	1.52	2.01	2.28	0.74	1.10	1.39	
Nov	1.05	1.56	1.81	1.10	1.57	2.13	0.85	1.33	1.60	
Dec	1.66	2.17	2.24	2.27	3.17	2.38	1.04	1.83	1.79	

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

Table **67****Spot tanker freight rates for all sizes, 1994–2003**

		Gulf/West		Gulf/East		Caribbean/USAC		all routes	
		% of Worldscale	equivalent \$/t	% of Worldscale	equivalent \$/t	% of Worldscale	equivalent \$/t	% of Worldscale	equivalent \$/t
<b>1994</b>		38	6.14	49	4.90	137	5.24	75	4.55
<b>1995</b>		47	7.97	62	6.46	139	5.91	83	5.99
<b>1996</b>		53	10.59	66	7.52	146	7.35	93	7.86
<b>1997</b>		58	10.87	74	8.43	156	8.06	98	9.04
<b>1998</b>		57	10.35	70	7.70	117	5.59	86	7.72
<b>1999</b>		49	8.57	56	5.81	113	4.62	78	8.48
<b>2000</b>		86	15.00	112	12.05	217	9.83	146	15.46
<b>2001</b>		67	11.69	85	9.16	170	7.68	116	12.56
<b>2002</b>		40	7.99	60	7.25	125	6.10	85	10.48
<b>2003</b>		82	17.60	102	13.38	182	9.61	128	16.46
<b>2001</b>	Jan	118	20.69	159	17.08	236	10.69	187	20.27
	Feb	90	15.78	109	11.71	202	9.15	151	16.37
	Mar	78	13.67	102	10.95	239	10.83	140	15.18
	Apr	81	14.20	111	11.92	182	8.24	143	15.50
	May	69	12.10	82	8.81	188	8.52	121	13.12
	Jun	64	11.22	74	7.95	174	7.88	102	11.06
	Jul	44	7.71	59	6.34	126	5.71	88	9.54
	Aug	50	8.77	65	6.98	143	6.48	96	10.41
	Sep	56	9.82	70	7.52	122	5.53	93	10.08
	Oct	67	11.75	84	9.02	156	7.07	105	11.38
	Nov	45	7.89	60	6.44	135	6.12	87	9.43
	Dec	38	6.66	48	5.16	131	5.93	77	8.35
<b>2002</b>	Jan	39	7.80	58	7.07	115	5.61	80	9.89
	Feb	42	8.40	60	7.31	107	5.22	77	9.52
	Mar	34	6.80	48	5.85	106	5.17	75	9.27
	Apr	31	6.20	46	5.61	125	6.10	78	9.64
	May	39	7.80	42	5.12	130	6.34	74	9.15
	Jun	38	7.60	65	7.92	132	6.44	84	10.38
	Jul	35	7.00	52	6.34	129	6.30	80	9.89
	Aug	33	6.60	61	7.44	109	5.32	80	9.89
	Sep	31	6.20	48	5.85	104	5.08	71	8.78
	Oct	40	8.00	50	6.10	114	5.56	80	9.89
	Nov	57	11.41	77	9.39	170	8.30	111	13.72
	Dec	60	12.01	107	13.04	158	7.71	127	15.70
<b>2003</b>	Jan	97	20.92	128	16.82	148	7.80	146	18.72
	Feb	105	22.65	134	17.61	225	11.86	167	21.41
	Mar	95	20.49	118	15.51	293	15.44	179	22.95
	Apr	117	25.24	146	19.18	204	10.75	150	19.23
	May	78	16.82	87	11.43	171	9.01	118	15.13
	Jun	80	17.26	93	12.22	191	10.07	125	16.03
	Jul	56	12.08	75	9.86	131	6.90	97	12.44
	Aug	47	10.14	57	7.49	129	6.80	81	10.38
	Sep	55	11.86	66	8.67	133	7.01	81	10.38
	Oct	77	16.61	101	13.27	159	8.38	113	14.49
	Nov	55	11.86	76	9.99	173	9.12	118	15.13
	Dec	117	25.24	141	18.53	231	12.17	166	21.28

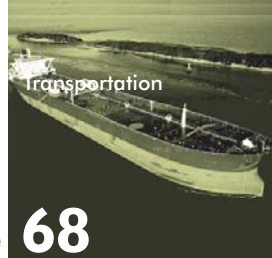
**Note:** The above rates are calculated from all spot fixtures reported during the month for each route.





## Crude oil pipelines in OPEC Members, 2003

	Owner or operator	Length (miles)	Diameter (inches)
<b>Algeria</b>			
Haoud el Hamra/Arzew	Sonatrach	498	28
Haoud el Hamra/Arzew (condensates/LPG)	Sonatrach	500	34
Beni Mansour/Algiers	Sonatrach	81	16
Haoud el Hamra/Bejaia	Sonatrach	415	24
In Amenas/Tunesian border/La Skhirra	Sonatrach	482	24
Ohanet/Haoud el Hamra	Sonatrach	322	30
Haoud el Hamra/Skikda	Sonatrach	396	34
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/Plaju	Asamera	2 x 101	8
Jene/Jirak	PT Stanvac	28	8
Handil field/Senipah SBM	Total Indonesia	21	20/26
Bekapai field/Senipah SBM	Total Indonesia	32	12/16
Rama, Seltan, Krisna, Zelda/Cinta Natomas	Maxus	2, 6, 18, 21	18, 16, 20, 18
Zelda field/Pabelokan ISC	Maxus	20	20
Kotabatak & Beruk areas/Minas area	Caltex	12, 50	24, 24
Minas area/Dury tank farm	Caltex	37,23	26, 30, 30
Duri Tank Farm/Dumai tank farm	Caltex	2 x 28	30, 36
Pamusian field/Lingkas tank farm	Tesoro	12	10
Kasim field/Kasim shipping	Petromer Trend	2 x 3	10/18
<b>IR Iran</b>			
Tang-e-Fani/Kermanshah	NIOC	142	16/10
Naftshahr/Kermanshah	NIOC	143	8
Gachsaran/Shiraz	NIOC	143	10
Ahwaz/Rey	NIOC	563	26/30/26
Marun/Isfahan	NIOC	271	32/30
Rey/Tabriz	NIOC	380	16
Mile-40/Abadan	NIOC	63	12/16
Neka/Sari/Rey	NIOC	287	12/16
Ahwaz/Kharg	NIOC	271	12/48
Marun/Kharg	NIOC	103	8/42
Aghajari/Kharg	NIOC	392	12/48
Gachsaran/Kharg	NIOC	454	8/52



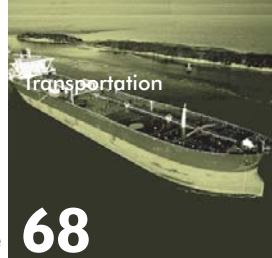
## Crude oil pipelines in OPEC Members, 2003

	Owner or operator	Length (miles)	Diameter (inches)
<b>Iraq</b>			
Bai-Hassan/Kirkuk	INOC	20	16
K2 PS/Baghdad	INOC	110	12
Fao/Khor al-Amaya	INOC	28	32
Baji-Daura	INOC	197	12
Jambur/Kirkuk	INOC	36	6/8
Rumaila/Zubair/Fao	INOC	2 x 65	24/30/32
Haditha/Rumaila	INOC	2 x 407	18/42
Zubair/Station P3 petroline	INOC	391	48
Naft Khaneh/Daura	INOC	81	12
Kirkuk/Ceyhan/Dortyol (Turkey)	INOC	2 x 652	40
Zubair/Al Muajez (Saudi Arabia)	INOC/Aramco	1,575	56
<b>Kuwait</b>			
Raudhatain/Ahmadi	KOC	57	2 x 30
Minagish/Ahmadi	KOC	30	22/24/26
Burgan/Ahmadi	KOC	4 x 4.7	20, 20/22, 30/34, 34/36
<b>SP Libyan AJ</b>			
Sarir/Tobruk	Agoco	320	34
Sarir/Messla	Agoco	25	30
Messla/Amal	Agoco	128	42
Nafoora/Amal	Agoco	32	32
Hamada/Zawia	Repsol	241	18
Sahara/Hamada	Repsol	211	30
Amal/Ras Lanuf	Veba	2 x 170	30, 36
Asida/Ras Lanuf	Veba	54	30
Bahi jn/Es Sider	Waha Oil	2 x 44	30
Gialo/Waha	Waha Oil	94	30
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
Samha/Dahra	Waha Oil	114	32
Dahra/Bahi Jn	Waha Oil	43	30
Nasser/Brega	Sirte	107	36
103A/Zueitina Termial	ZOC	137	40
Bu-attifel/Intisar (condensate)	Agip/NOC	2 x 83	30, 10



## Crude oil pipelines in OPEC Members, 2003

	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
Pennington/export terminal	Texaco	31	07/11/30
North Apoi/export berth	Texaco	16	13/30
Funiwa/export terminal	Texaco	16	18/30
Rumuekpe/Bonny terminal	Shell	2 x 67	28, 20/24
Alkiri/Bonny terminal	Shell	21	24
Rumuekpe/Npoku	Shell	22	20
Nembe Creek/Cawthorne channel	Shell	51	24/28
Bonny terminal/offshore platform	Shell	17	48
Kwale/Ogoda	Agip/NNPC	50	10/14
Rumuekpe/Ogoda	Agip/NNPC	14	14
Ogoda/Brass offshore terminal	Agip/NNPC	79	24/36
Azuzuma/Tebidaba	Agip/NNPC	22	12
Clough Creek/Tebidaba	Agip/NNPC	32	10
Tebidaba/Brass Manifold	Agip/NNPC	28	18
Obama/Brass Manifold	Agip/NNPC	16	18
Brass Manifold/Brass offshore terminal	Agip/NNPC	23	24/36
Izombe/Ebocha	Ashland	16	10
Akam/Antan	Ashland	14	10
Parabe & Meji/valve platform	Gulf	28, 10	8, 20
Makarba & Abiteye/Escravos	Gulf	15, 7	16, 26
Escravos/SBM	Gulf	15	26/42
Escravos/Warri	Gulf	60	24
Etim/Idoho	Mobil	16	13/14
Utue Ekpe/Idoho	Mobil	20, 28	16, 16/20
Idoho/Qit	Mobil	13	24
<b>Qatar</b>			
Umm Bab/Umm Said	QGPC	67	16/20
Idd El Sharghi/Halul	QGPC	2 x 13	20, 12
Maydan Mehzam/Halul	QGPC	10	14
Bul Hanin/Halul	QGPC	27	20
Dukhan/Messaied	QGPC	60	24/16/20
Al Khaleej/Halul	QGPC	29, 28	20, 12



## Crude oil pipelines in OPEC Members, 2003

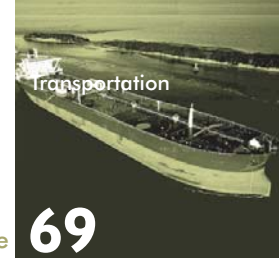
	Owner or operator	Length (miles)	Diameter (inches)
<b>Saudi Arabia</b>			
Ain Dar/Abqaiq No 1	Aramco	28	20/22/24
Ain Dar/Abqaiq No 2	Aramco	28	24/26/28
Ain Dar/Ju'aymah No 1	Aramco	73	32/34
Uthmaniyah/Abqaiq	Aramco	128	18/20/24/30/31
Uthmaniyah/Loop Line	Aramco	23	24
Uthmaniyah/Abqaiq No 2	Aramco	33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



**Crude oil pipelines in OPEC Members, 2003**

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

**Note:** Figures as at year-end.



## Gas pipelines in OPEC Members, 2003

	Owner or operator	Length (miles)	Diameter (inches)
<b>Algeria</b>			
Hassi R'Mel/Arzew	Sonatrach	316	20/24
Hassi R'Mel/Arzew (GZ1 to GZ3)	Sonatrach	315, 315, 317	40, 40, 42
Hassi R'Mel/Skikda	Sonatrach	356	40/42
Hassi R'Mel/Qued Safsaf (Tunisian border)	Sonatrach	2 x 341	48, 48
Hassi R'Mel/El Aricha (Morrocon border)	Sonatrach	324	48
Hassi R'Mel/B Menail	Sonatrach	271	42
<b>Indonesia</b>			
Grissik/Duri	PGN	536	28
West Natuna/Singapore	Gulf/Premier Oil/Conoco	656	28
West Natuna/Malaysia	Conoco	96	18
South Sumatra/Singapore	PGN	482	28
Arun Field/Lhokseumawe	Pertamina	31	42
Rantau Field/Besitang	Pertamina	48	18
P Brandan/Wampu	Pertamina	52	18
Prabumulih field/Pupuk Sriwidjaya	Pertamina	97	14/20
Prabumulih field/Pagardewa	Pertamina	63	20
Pagerungan field/ORF Grissik	PT Trans Java Pipeline	440	20
Badak field/Pupuk	Pertamina	69	36
Senglang field/PLTG Sengkang	Pertamina	30	28
<b>IR Iran</b>			
Bid Boland/Astara (Igat 1)	NIGC	798	42/40
Bid Boland/Shiraz	NIGC	171	16
Kangan/Ghazvin/Tabriz/Bazargan (Igat 2)	NIGC	1,078	56/40
Khangiran/Mashad	NIGC	77, 83	16, 36
Sarakhs/Neka/Rasht	NIGC	732	36/30
Sarkhun/Bandar Abbas/Rafsanjan/Kerman	NIGC	344	24/20
Qeshm/Bandar Abbas	NIGC	44	12
Shiraz/Fasa	NIGC	71	16
Boroujerd/Khoramabad	NIGC	66	16
Mobarakeh/Yazd	NIGC	198	20/24
Kangan/Kazeroon (Igat 3)	NIGC	150	56
Kooh Namak/Tehran	NIGC	2 x 70	30, 36
Asaluyeh/Saveh	NIGC	576	56
Saveh/Tehran	NIGC	75, 65	30, 36
Kordkoy/Neka	NIGC	52	30
Tabriz/Meyabdoab	NIGC	95	20
Neizar/Arak/Hamadan	NIGC	169	36/30
Omideh/Mahshahr	NIGC	44	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

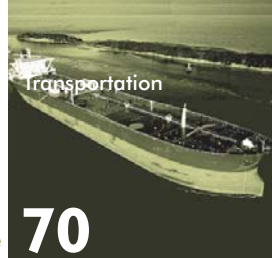




## Gas pipelines in OPEC Members, 2003

	Owner or operator	Length (miles)	Diameter (inches)
<b>SP Libyan AJ (continued)</b>			
Brega/Tripoli	Sirte Oil	489	34
Brega/Benghazi	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
Jakhira/103 A	Wintershall	53	20
<b>Nigeria</b>			
Sapele/Ajaokuta	NGC	27	10/18
Escravos/Lagos	NGC	248	20/28/36/21
Oben/Ajaokuta Steel	NGC	122	24
Eriemu/Aladja	NGC	21	16
Rumuji/Bonny	NLNG	54	36
Oben/Sapele	NGC	22	18
Obigo North/Afam/Soku/Rumuji	NLNG	26	28
Alakiri/Ikot-Abasi	NGC	69	14/16/24
<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
Fahail/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	2 x 33	24, 36
Maqta/Al Ain	ADNOC	100	30
Murgam/Jabel Ali	Dubai government	47	24
Sajaa/Sharjah	Emmarat	27	18/6/4
<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	8/36
Piedritas/Veladero	PDVSA	10	6
El Boquete/San Lorenzo	PDVSA	18	-
Puerto Miranda/La Paz	PDVSA	38	20
Puerto Miranda/Punto Fiso	PDVSA	136	20/22
Casigua/La Fria	PDVSA	47	8
Lama/Bajo Grande	PDVSA	40	14
Pctj-Pagline	PDVSA	57	12
Quiriquire/Caripito	PDVSA	12	10/16
Ule/Amuay	PDVSA	294	8/16,20
Bombal/Tucupita	PDVSA	22	9
Oracual & Boqueron/Jusepin	PDVSA	16, 28	8/10,16
Jusepin/La Toscana	PDVSA	12	6
Piedritas/Veladero	PDVSA	10	6

Note: Figures as at year-end.

Table **70****Refined product pipelines in OPEC Members, 2003**

	Owner or operator	Length (miles)	Diameter (inches)
<b>Algeria</b>			
Houd El Hamra/Hassi R'Mel	Sonatrach	184	12
Hassi R'Mel/Arzew	Sonatrach	316	16
Skikda/Khroub	Naftal	2 x 62	12, 12
Algiers/Chiffa	Naftal	2 x 61	12, 12
Arzew/Oran Petit Lac	Naftal	2 x 23	8, 8
<b>Indonesia</b>			
Cilacap/Tasikmalaya	Pertamina	2 x 128	10, 16
Tasikmalaya/Ujungberung	Pertamina	2 x 95	10, 16
Ujungberung/Padalarang	Pertamina	35	10
Cilacap/Maos	Pertamina	2 x 21	10
Maos/Rewulu	Pertamina	2 x 160	8, 12
<b>IR Iran</b>			
Abadan/Ahwaz	NIOC	91,94	16, 12
Mahshahr/Abadan	NIOC	73, 68, 63	13, 26, 16
Ahwaz/Rey	NIOC	469	16/20/16
Ahwaz/Azna/Rey	NIOC	510	10/14/10
Isfahan/Rey	NIOC	2 x 231	18, 24
Arak/Rey	NIOC	160	16/18
Rey/Sari	NIOC	180	16/12
Rey/Kan	NIOC	21	12
Rey/Ghouchak	NIOC	20	12
Rey/Karaj	NIOC	36	8
Rey/Mashad	NIOC	523	20/22
Shahrud/Mashad	NIOC	275	8
Rey/Ghazvin/Rasht	NIOC	195	18/16/14
Rey/Tabriz	NIOC	476	14
Tabriz/Miandoab/Orumie	NIOC	174	10/8
Shahrud/Gorgan/Gonabad	NIOC	74	8/10
Imam-Taghi/Torbat Heidarieh	NIOC	58	8
Arak/Hamedan	NIOC	112	12
Bandar Abbas/Isfahan	NIOC	620	14/16/22
Isfahan/Rafsanjan/Kerman	NIOC	406	16/14
Tang-e-Fani/Kermanshah	NIOC	137	10/16
Shazand/Rey	NIOC	175	10/16
Bandar Anzali/Rasht	NIOC	26	16
<b>Iraq</b>			
Baghdad/Basrah	INOC	2 x 364	8
<b>Kuwait</b>			
Shuaiba/Sabhen	KNPC	2 x 102	8, 10
Sabhen/Shuwaikh	KNPC	49	8
Ahmadi/Airport	KNPC	110	8



## Refined product pipelines in OPEC Members, 2003

	Owner or operator	Length (miles)	Diameter (inches)
<b>SP Libyan AJ</b>			
Zawia/Al-Fatah	Brega Marketing	34	8, 10
Zawia/Zanzur	Brega Marketing	20	8
<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/Enugu/Makurdi	NNPC/PPMC	657	20/6/8
Enugu/Auchi	NNPC/PPMC	99	12
<b>Qatar</b>			
Misaieed/Ras Abu Hamour	Waqood	12	6
<b>United Arab Emirates</b>			
UAN Refinery/Al Ain	ADNOC-Distribution	104	12
UAN Refinery/Abu Dhabi airport	ADNOC-Distribution	11	10
UAN Refinery/Mussaffah	ADNOC-Distribution	2 x 10	8, 12
<b>Venezuela</b>			
Puerto Ordaz/Morichal	PDVSA	43	10
Carenero/Guatire	PDVSA	45	16
Catia La Mar/Cantinas	PDVSA	2 x 10	8, 10
Catia La Mar/Maiquetia	PDVSA	2x2	8
La Paz/El Comejen No 1 & 2	PDVSA	2 x 24	4, 4
Bajo Grande/San Lorenzo	PDVSA	70	12
San Lorenzo/El Vigia	PDVSA	104	12
La Paz/Bajo Grande	PDVSA	39	3
Bajo Grande/El Tablazo	PDVSA	96	4
El Palito/Yagua	PDVSA	29	16
El Palito/Barquismeto	PDVSA	94	12
San Juequin/Jose	PDVSA	70	16, 22
Santa Rosa/Puerto La Cruz	PDVSA	62	6
Complejo/Puerto La Cruz	PDVSA	41	6/8/12/26
Puerto La Cruz/San Tome	PDVSA	100	16
San Tome/Maturin	PDVSA	61	8
San Tome/Puerto Ordaz	PDVSA	124	12
Puerto Ordaz/Ciudad Bolivar	PDVSA	44	8

Notes: Figures as at year-end.



Table 71

## Spot OPEC Reference Basket prices, 1994–2003 (\$/b)

	Algeria Saharan Blend	Indonesia Minas	Nigeria Bonny Light	S. Arabia Arab Light	UAE Dubai	Venezuela TJ Light	Mexico Isthmus	OPEC Ref. Basket
1994	16.19	16.21	16.21	15.39	14.74	14.58	15.36	15.53
1995	17.40	17.64	17.34	16.73	16.10	16.08	16.73	16.86
1996	21.33	20.70	21.24	19.91	18.58	19.63	20.65	20.29
1997	19.62	19.26	19.40	18.71	18.10	17.38	18.26	18.68
1998	13.02	12.31	12.77	12.20	12.15	11.44	12.08	12.28
1999	18.12	17.84	18.07	17.45	17.24	16.31	17.29	17.47
2000	28.77	28.74	28.49	26.81	26.25	26.31	27.80	27.60
2001	24.74	24.11	24.50	23.06	22.83	20.35	22.22	23.12
2002	24.91	25.60	25.15	24.32	23.83	22.61	24.12	24.36
2003	28.73	29.52	28.76	27.69	26.77	26.97	28.25	28.10
2001 Jan	26.08	24.03	25.43	22.31	22.56	23.18	24.80	24.06
Feb	27.80	25.62	27.40	24.82	24.79	22.79	24.63	25.41
Mar	24.82	25.64	24.35	23.77	23.67	21.08	22.60	23.70
Apr	25.65	27.64	25.43	24.24	24.06	20.79	22.86	24.38
May	28.47	28.21	28.51	25.77	25.40	22.77	24.62	26.25
Jun	28.16	27.86	28.06	26.17	25.86	22.30	24.25	26.10
Jul	24.82	25.32	24.81	24.03	23.45	20.55	22.67	23.73
Aug	25.96	24.82	25.41	24.92	24.70	21.54	23.86	24.46
Sep	26.13	24.59	25.98	24.73	24.37	20.72	23.49	24.29
Oct	20.65	19.53	20.60	20.16	19.93	17.66	18.94	19.64
Nov	19.00	18.29	18.92	17.82	17.62	15.28	16.61	17.65
Dec	19.08	17.64	18.78	17.99	17.60	14.89	16.73	17.53
2002 Jan	19.64	18.88	19.65	18.83	18.54	15.37	17.42	18.33
Feb	19.73	18.91	20.30	19.47	19.02	16.05	18.74	18.89
Mar	22.84	22.92	23.76	23.33	22.97	20.15	22.54	22.64
Apr	25.34	25.78	25.79	24.98	24.54	23.01	24.72	24.88
May	24.77	25.66	25.10	25.33	24.77	22.87	24.80	24.76
Jun	23.60	24.60	23.98	24.42	23.87	22.54	23.57	23.80
Jul	25.79	25.27	25.93	25.13	24.66	23.97	25.18	25.13
Aug	26.87	25.92	26.94	25.63	25.22	25.14	26.18	25.99
Sep	28.17	27.58	28.46	27.10	26.72	26.31	27.33	27.38
Oct	27.78	29.69	27.90	26.95	26.41	25.40	27.08	27.32
Nov	24.19	28.11	24.07	23.87	23.28	22.92	23.63	24.29
Dec	29.34	32.80	29.27	26.56	25.81	27.09	27.82	28.39
2003 Jan	31.29	32.32	30.78	29.10	28.02	30.14	30.74	30.34
Feb	32.43	31.89	32.33	31.11	29.94	31.21	31.90	31.54
Mar	31.21	30.70	30.83	28.98	27.76	29.04	29.96	29.78
Apr	25.19	29.66	25.27	24.70	23.59	23.97	24.99	25.34
May	25.24	28.76	25.78	24.92	24.31	24.56	25.61	25.60
Jun	27.20	27.19	27.46	26.15	25.46	26.23	27.48	26.74
Jul	27.91	27.33	28.39	27.24	26.66	26.71	27.79	27.43
Aug	29.59	28.38	29.79	28.36	27.66	27.52	29.08	28.63
Sep	27.29	26.74	27.47	26.41	25.52	24.64	26.18	26.32
Oct	29.87	29.67	29.59	28.26	27.42	26.60	28.38	28.54
Nov	28.94	30.12	28.93	28.63	27.62	26.69	28.24	28.45
Dec	29.77	32.09	29.64	29.20	28.06	27.60	29.71	29.44

Notes: Prices are averages of weekly fob quotations.



Table

## Spot crude oil prices, 1994–2003 (\$/b)

	Algeria Zarzaitine	Indonesia Attaka	IR Iran		Iraq Basrah	Iraq Kirkuk	Kuwait Kuwait Exp.	SP Libyan AJ Brega
			Iran Light	Iran Heavy				
1994	16.05	16.46	14.84	14.56	na	na	14.11	15.88
1995	17.33	17.84	16.17	16.26	na	na	15.90	17.21
1996	21.32	21.52	19.03	18.49	na	na	18.41	21.06
1997	19.57	20.34	18.24	18.00	na	na	17.81	19.36
1998	12.96	13.53	11.97	11.45	10.77	10.79	11.26	12.90
1999	18.15	17.94	17.25	16.93	16.28	16.43	16.75	18.08
2000	28.82	29.54	26.75	26.02	24.92	25.17	25.78	28.65
2001	24.86	26.30	22.90	21.67	20.00	20.07	21.37	24.70
2002	25.06	25.38	23.52	23.09	23.02	22.63	23.61	24.96
2003	28.98	29.58	26.89	26.33	26.72	27.22	26.89	29.00
2001 Jan	26.41	26.30	22.63	21.38	20.59	21.77	21.08	25.93
Feb	27.71	na	24.65	23.40	21.57	21.72	23.10	27.79
Mar	24.81	na	23.58	22.33	20.26	19.21	22.03	24.69
Apr	25.87	na	24.05	22.80	21.32	20.90	22.50	25.54
May	28.86	na	25.58	24.33	22.47	23.10	24.03	28.85
Jun	28.06	na	25.80	24.55	22.31	21.83	24.25	28.18
Jul	24.91	na	23.78	22.73	21.21	20.81	22.47	24.96
Aug	25.92	na	24.68	23.43	22.29	22.30	23.13	25.73
Sep	26.10	na	24.54	23.29	20.66	21.20	22.99	25.91
Oct	20.80	na	20.04	18.79	17.04	17.23	18.49	20.62
Nov	19.25	na	17.64	16.39	14.73	15.33	16.09	19.00
Dec	19.27	na	17.69	16.44	15.60	15.43	16.14	18.81
2002 Jan	19.74	19.77	18.95	18.64	16.87	16.94	18.11	19.71
Feb	19.83	19.44	18.95	18.58	18.64	18.36	18.69	20.32
Mar	23.35	23.15	22.31	21.98	22.72	22.12	22.74	23.00
Apr	25.43	25.66	24.10	23.73	23.87	23.14	24.28	25.48
May	24.86	25.71	23.76	23.40	23.62	23.00	24.48	24.96
Jun	23.76	24.60	22.52	22.21	23.44	22.68	23.80	23.69
Jul	25.94	25.89	24.37	23.95	24.01	23.92	24.39	25.73
Aug	26.95	26.89	25.20	24.74	25.21	24.58	25.14	26.68
Sep	28.24	28.17	26.87	26.45	26.55	26.05	26.64	28.28
Oct	27.96	27.77	26.05	25.57	24.29	24.15	26.23	27.63
Nov	24.31	26.77	22.24	21.66	21.74	20.84	22.97	24.09
Dec	29.53	30.18	26.40	25.70	25.35	25.83	25.65	29.02
2003 Jan	31.92	31.83	29.13	28.42	27.47	27.71	28.08	31.86
Feb	32.77	33.67	29.89	29.22	29.63	29.10	30.02	32.89
Mar	31.70	31.35	27.94	27.22	24.76	24.86	27.81	31.21
Apr	25.42	27.20	22.85	22.28	na	na	23.78	25.35
May	25.41	26.41	23.06	22.63	na	na	24.35	25.72
Jun	27.31	26.47	24.43	24.11	na	na	25.50	27.29
Jul	28.09	27.91	26.03	25.71	na	na	26.70	28.21
Aug	29.86	29.91	28.62	28.25	26.64	na	27.78	29.53
Sep	27.46	28.72	26.66	26.19	24.68	na	25.78	27.29
Oct	30.01	30.80	28.79	28.29	25.95	na	27.67	30.05
Nov	29.10	30.48	27.64	27.04	26.75	na	27.76	28.98
Dec	30.02	31.02	28.55	27.56	27.91	na	28.25	30.02

**Notes:** Prices are averages of weekly fob quotations, except for the two Iraqi crudes Basrah delivery to ex-Yanbu and Kirkuk ex-Ceyhan. In addition, as of December 1996, the price for these crudes are formula-based average fob quotations.



Table 72

## Spot crude oil prices, 1994–2003 (\$/b)

	Nigeria Forcados	Qatar Dukhan	Saudi Arabia		UAE Murban	Venezuela TJ Medium	Angola Cabinda	Ecuador Oriente
			Arab Med.	Arab Heavy				
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
2001	24.24	23.74	22.60	21.90	24.02	na	22.83	21.78
2002	25.05	24.36	na	23.38	24.87	na	24.48	21.95
2003	28.65	27.52	na	26.43	28.29	na	28.01	25.42
2001 Jan	25.30	23.61	21.83	20.74	24.24	na	23.02	22.78
Feb	27.03	25.66	24.56	23.32	25.90	na	25.34	24.29
Mar	23.70	24.24	23.24	22.57	24.58	na	22.83	23.10
Apr	24.82	24.87	23.89	23.15	25.15	na	23.81	23.86
May	28.02	26.82	25.52	24.60	26.80	na	27.12	25.01
Jun	27.80	26.68	25.61	24.88	26.90	na	26.70	24.02
Jul	24.46	24.63	23.30	22.61	24.92	na	23.26	23.26
Aug	25.49	25.39	24.28	23.77	25.58	na	24.01	22.93
Sep	25.78	25.31	24.15	23.63	25.54	na	24.51	21.99
Oct	20.55	20.52	19.63	19.36	20.90	na	18.69	18.18
Nov	18.87	18.29	17.35	17.00	18.62	na	17.11	15.89
Dec	18.71	18.74	17.81	17.21	18.92	na	17.34	15.46
2002 Jan	19.53	19.28	14.88	18.00	19.74	na	36.43	15.27
Feb	20.13	19.78	na	18.61	20.24	na	38.02	17.03
Mar	23.55	23.29	na	22.51	23.75	na	45.02	20.77
Apr	25.59	25.17	na	24.02	25.60	na	49.47	23.21
May	24.97	25.37	na	24.41	25.90	na	48.57	22.99
Jun	23.83	24.36	na	23.49	24.93	na	46.73	21.54
Jul	25.86	25.05	na	24.36	25.68	na	50.63	22.76
Aug	26.83	25.53	na	24.98	26.20	na	52.14	23.90
Sep	28.44	27.08	na	26.33	27.58	na	54.91	25.59
Oct	27.84	26.87	na	25.85	27.31	na	54.15	24.60
Nov	24.09	23.67	na	22.42	24.31	na	47.22	20.65
Dec	29.24	26.53	na	25.42	26.90	na	57.36	24.84
2003 Jan	30.72	28.83	na	27.78	29.44	na	30.26	29.01
Feb	32.26	30.43	na	29.86	31.52	na	31.18	31.19
Mar	30.69	28.07	na	27.33	29.32	na	29.45	26.84
Apr	25.10	24.33	na	23.50	25.34	na	24.63	20.63
May	25.51	24.88	na	24.19	25.91	na	25.08	22.37
Jun	27.32	26.41	na	25.37	26.95	na	26.61	25.07
Jul	28.28	26.91	na	26.68	28.05	na	27.73	25.43
Aug	29.73	27.92	na	27.63	28.69	na	28.95	26.42
Sep	27.39	26.73	na	24.92	26.71	na	26.65	22.96
Oct	29.48	28.70	na	26.87	29.00	na	28.94	25.07
Nov	28.82	28.53	na	26.88	29.35	na	28.40	25.17
Dec	29.56	28.69	na	27.10	29.93	na	29.24	26.45

Notes: Prices are averages of weekly fob quotations, except Oriente which is delivery to US Gulf. TJ Medium quotations are posted prices.





Table

## Spot crude oil prices, 1994–2003 (\$/b)

	Gabon Mandji	Oman Oman	Egypt Suez Blend	UK		Norway		Mexico Maya
				Brent	Forties	Ekofisk	Oseberg	
1994	14.17	15.12	13.89	15.80	15.79	15.89	15.89	12.42
1995	15.61	16.34	15.57	17.01	17.15	17.19	17.17	14.42
1996	19.26	19.12	18.66	20.70	21.05	21.06	21.09	17.37
1997	16.63	18.52	16.91	19.06	19.33	19.22	19.22	14.89
1998	10.65	12.06	10.42	12.71	12.79	12.71	12.84	8.72
1999	16.53	17.27	16.19	17.91	18.02	17.93	17.56	14.52
2000	26.15	26.50	25.16	28.44	28.61	28.42	28.78	22.87
2001	21.62	22.75	21.09	24.46	24.60	24.39	24.54	17.31
2002	22.41	23.94	22.45	25.03	24.98	24.88	25.02	20.93
2003	26.38	27.13	25.76	28.81	28.94	28.89	28.97	24.22
2001 Jan	22.96	22.43	22.09	25.60	25.79	25.51	25.69	18.44
Feb	24.41	24.29	22.61	27.30	27.80	27.49	27.59	19.03
Mar	21.53	23.26	19.73	24.42	24.51	24.34	24.46	16.74
Apr	22.48	23.82	21.58	25.37	25.47	25.38	25.43	15.89
May	25.46	25.55	24.56	28.35	28.55	28.45	28.35	17.99
Jun	25.08	25.53	23.83	27.96	27.95	27.59	27.95	19.19
Jul	21.76	23.61	21.37	24.66	24.75	24.55	24.74	18.53
Aug	22.90	24.44	22.48	25.78	25.93	25.70	25.87	19.65
Sep	22.95	24.49	23.11	25.84	25.88	25.73	25.84	20.19
Oct	17.69	19.93	17.75	20.54	20.60	20.35	20.62	15.19
Nov	16.03	17.67	16.09	18.80	18.98	18.70	18.95	12.84
Dec	15.84	17.87	16.68	18.58	18.69	18.51	18.69	13.35
2002 Jan	16.95	18.54	16.74	19.48	19.53	19.35	19.68	13.88
Feb	17.61	19.06	17.11	20.22	20.02	19.88	20.17	15.20
Mar	21.09	23.02	20.38	23.73	23.42	23.35	23.38	19.37
Apr	23.12	24.62	23.26	25.75	25.19	25.07	25.20	22.15
May	22.66	24.87	22.57	25.31	24.96	24.87	25.01	22.38
Jun	21.38	24.03	21.63	24.04	23.90	23.87	23.90	21.40
Jul	23.07	24.74	23.61	25.79	25.95	25.87	25.95	22.49
Aug	24.00	25.25	24.49	26.68	26.93	26.90	26.96	23.08
Sep	25.63	26.75	25.69	28.28	28.34	28.25	28.32	24.46
Oct	25.04	26.55	25.00	27.69	27.72	27.63	27.76	23.76
Nov	21.39	23.37	21.57	23.99	24.07	24.08	24.18	19.55
Dec	26.38	26.21	26.64	28.83	29.06	28.92	29.07	23.27
2003 Jan	28.87	28.54	27.67	31.31	31.47	31.43	31.46	27.90
Feb	30.11	30.31	29.04	32.54	32.86	32.80	32.85	27.53
Mar	28.55	28.06	27.81	30.98	31.27	31.15	31.36	24.29
Apr	22.64	24.14	21.87	25.07	25.23	25.17	25.23	20.53
May	23.36	24.53	22.84	25.79	25.85	25.85	25.91	21.81
Jun	25.01	25.64	24.07	27.44	27.51	27.48	27.60	23.29
Jul	25.91	26.80	25.69	28.34	28.36	28.43	28.41	25.13
Aug	27.35	27.96	27.59	29.78	29.78	29.83	29.86	25.89
Sep	24.89	26.09	24.70	27.32	27.41	27.40	27.44	22.45
Oct	27.42	27.97	27.02	29.85	29.95	29.94	30.00	24.32
Nov	26.25	27.93	26.17	28.68	28.85	28.86	28.87	24.33
Dec	27.39	28.43	25.89	29.82	29.91	29.62	29.91	24.52

Notes: Prices are averages of weekly fob quotations. Brent prices reflect dated delivery.



Table 72

## Spot crude oil prices, 1994–2003 (\$/b)

	China		Malaysia	Australia	Colombia	USA		Russia
	Daqing	Tapis	Miri	Gippsland	Cano Limon	WTI	ANS	Urals
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	na	29.40	28.57	30.37	28.40	26.58
2001	24.78	25.44	na	25.22	22.82	26.00	23.34	22.97
2002	25.45	25.69	25.76	25.47	23.55	26.13	24.75	23.82
2003	29.52	30.08	30.07	29.85	27.78	31.09	29.63	27.03
2001 Jan	24.12	26.16	na	25.85	26.53	29.42	24.40	24.40
Feb	27.98	27.99	na	27.91	26.42	29.48	26.03	24.78
Mar	na	26.90	na	26.90	23.59	27.27	24.84	21.72
Apr	na	27.84	na	27.59	23.12	27.37	25.60	23.60
May	na	28.94	na	28.74	24.59	28.60	26.75	26.46
Jun	na	28.29	na	28.09	25.43	27.67	25.78	25.60
Jul	24.85	26.11	na	25.02	23.58	26.53	24.58	23.08
Aug	na	25.70	na	25.00	24.49	27.41	24.40	24.46
Sep	na	26.00	na	25.83	23.58	26.40	23.45	25.05
Oct	na	21.68	na	21.42	19.04	22.20	19.61	19.80
Nov	na	19.94	na	19.67	15.59	19.49	17.32	17.83
Dec	na	19.43	na	19.25	17.21	19.40	16.89	18.37
2002 Jan	18.66	20.17	20.12	19.99	17.33	19.71	17.49	18.58
Feb	18.82	20.13	20.16	19.97	18.28	20.67	19.16	18.95
Mar	22.72	23.55	23.55	23.32	22.46	24.35	22.76	22.47
Apr	25.70	25.96	25.90	25.85	24.66	26.32	25.08	24.12
May	25.61	26.01	25.94	25.91	23.82	27.13	25.90	23.98
Jun	24.73	24.90	24.85	24.61	22.78	25.42	24.07	23.04
Jul	25.56	26.35	26.31	26.13	24.36	26.87	25.77	24.80
Aug	26.18	27.33	27.33	27.19	25.43	28.41	27.46	25.90
Sep	27.64	28.16	28.11	27.88	27.22	29.52	28.57	26.77
Oct	29.12	27.95	27.90	27.65	26.31	29.00	27.70	26.16
Nov	27.54	26.83	26.80	26.43	22.71	26.31	24.71	22.68
Dec	32.15	30.33	30.28	30.09	26.79	29.66	28.25	27.75
2003 Jan	32.29	31.90	31.87	31.79	30.73	33.08	32.01	29.56
Feb	32.21	33.79	33.81	33.83	31.59	35.63	35.05	30.76
Mar	30.75	31.73	31.73	31.63	27.21	33.88	33.19	28.38
Apr	29.46	27.77	27.78	27.48	23.75	28.40	25.79	22.48
May	28.73	26.79	26.77	26.64	25.12	28.23	26.24	23.96
Jun	27.18	27.11	27.10	26.96	27.27	30.71	29.40	25.68
Jul	27.32	28.44	28.44	28.23	27.62	30.61	29.21	26.92
Aug	28.41	30.65	30.65	30.41	29.02	31.60	30.22	28.67
Sep	26.98	29.65	29.65	29.21	26.14	28.55	27.34	25.88
Oct	29.65	31.90	31.89	31.48	28.20	30.43	28.66	28.17
Nov	30.05	30.60	30.54	30.26	28.28	30.94	29.02	27.30
Dec	31.86	31.38	31.35	31.09	29.51	32.15	30.69	27.90

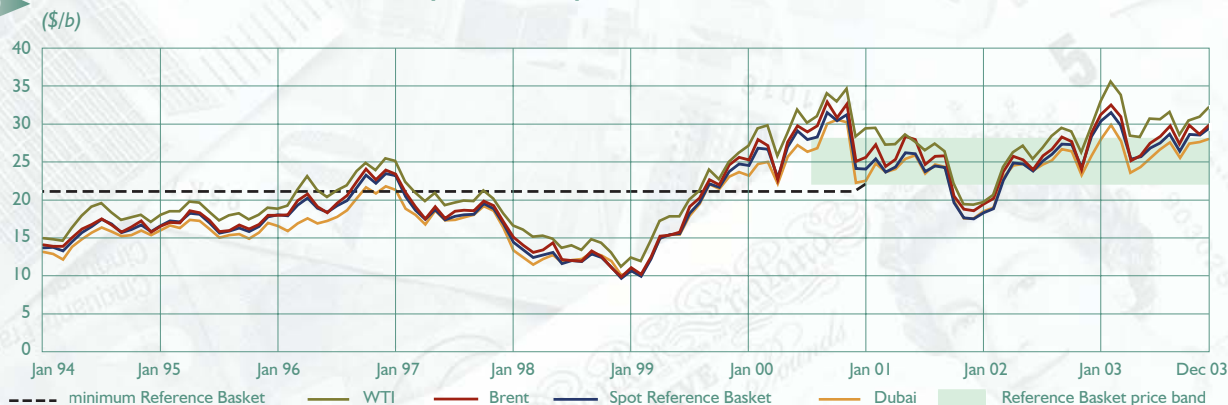
Notes: Prices are averages of weekly fob quotations, except for Alaska North Slope (ANS), Cano Limon delivery to US Gulf, and Urals to Mediterranean.



Prices

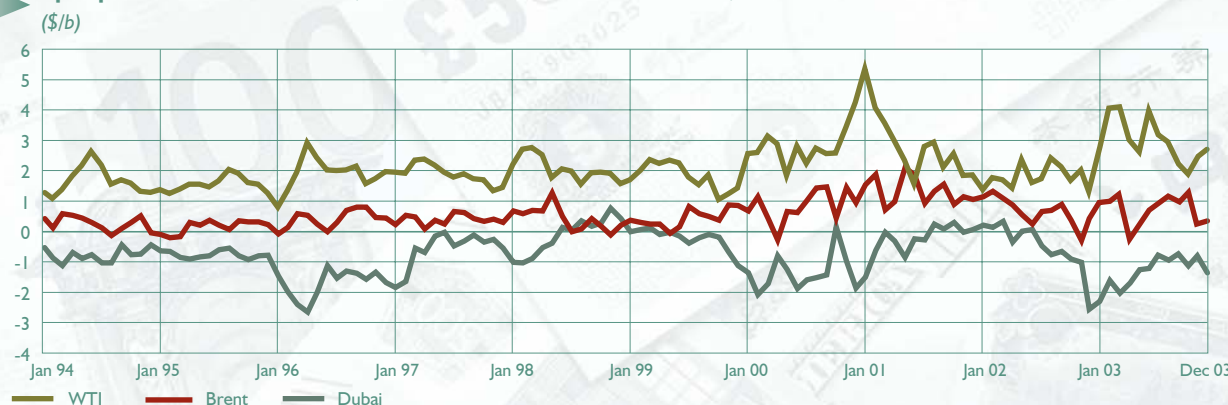
Graph 50

**OPEC Reference Basket and other spot crude oil prices, 1994–03**



Graph 51

**Spot price differences of WTI, Brent and Dubai to OPEC Basket, 1994–03**



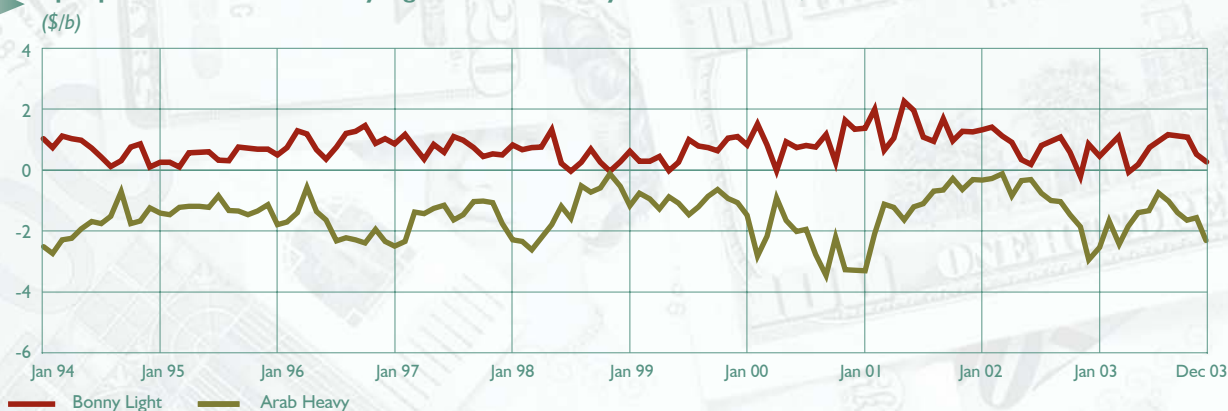
Graph 52

**Spot prices of Bonny Light and Arab Heavy, 1994–03**



Graph 53

**Spot price differences of Bonny Light and Arab Heavy to OPEC Basket, 1994–03**





Table

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**Crude oil prices in nominal and real terms, 1970–2003 (\$/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	1.97	2.02	2.38
1971	2.03	2.35	2.32	2.68
1972	2.29	2.47	2.49	2.68
1973	3.05	3.05	3.05	3.05
1974	10.73	11.06	9.39	9.68
1975	10.73	10.86	8.37	8.47
1976	11.51	12.57	8.18	8.93
1977	12.39	13.41	8.01	8.67
1978	12.70	12.60	7.64	7.58
1979	17.25	16.48	9.45	9.04
1980	28.64	27.33	13.89	13.26
1981	32.51	35.66	14.18	15.55
1982	32.38	39.76	12.97	15.93
1983	29.04	38.79	10.90	14.57
1984	28.20	41.44	9.97	14.66
1985	27.01	41.16	9.06	13.80
1986	13.53	16.94	4.40	5.50
1987	17.73	19.88	5.57	6.25
1988	14.24	15.54	4.32	4.72
1989	17.31	19.87	5.00	5.74
1990	22.26	23.38	6.07	6.38
1991	18.62	19.84	4.85	5.16
1992	18.44	19.24	4.62	4.82
1993	16.33	18.88	3.96	4.58
1994	15.53	17.90	3.66	4.22
1995	16.86	18.63	3.85	4.26
1996	20.29	22.60	4.51	5.03
1997	18.68	22.33	4.06	4.86
1998	12.28	14.91	2.63	3.19
1999	17.47	21.67	3.69	4.58
2000	27.60	37.76	5.69	7.78
2001	23.12	32.65	4.66	6.58
2002	24.36	33.13	4.82	6.55
2003	28.10	33.66	5.43	6.51

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 'modified Geneva I + US basket' which includes the euro, the US dollar, the pound sterling and the Swiss franc, weighted according to the merchandise imports of OPEC Member Countries from the countries in the basket.
3. Based on weighted average consumer price indices of modified Geneva I countries and USA (according to the private consumption of modified Geneva I countries and USA).
4. Based on combined indices of exchange rates and inflation.



74 Table

## Spot refined products prices in major markets, 1994–2003 (\$/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
1994		19.99	19.44	11.71	21.09	20.86	12.07	19.56	19.51	12.41
1995		21.31	19.95	13.77	22.10	21.64	13.99	20.60	20.17	14.14
1996		25.13	24.77	15.58	23.58	27.07	15.53	23.72	25.48	15.52
1997		24.78	22.72	14.42	24.55	24.24	14.73	23.63	23.02	13.92
1998		17.57	16.04	9.69	17.19	15.46	9.86	17.25	15.94	9.71
1999		22.00	19.77	14.28	21.02	19.13	14.76	21.50	19.74	13.73
2000		35.10	34.04	20.77	32.55	32.46	23.04	35.16	33.76	20.47
2001		31.02	29.04	17.18	27.47	27.30	19.42	29.29	28.77	17.08
2002		30.44	27.75	20.69	28.00	28.15	21.83	28.47	27.33	19.76
2003		36.83	34.09	24.02	34.74	33.38	25.07	34.86	33.47	22.38
2001	Jan	36.34	35.86	18.57	30.02	28.41	17.99	29.85	30.15	15.48
	Feb	34.28	32.32	20.62	31.33	27.57	19.69	32.49	30.88	18.21
	Mar	32.38	29.03	18.63	29.88	26.83	20.04	31.52	29.38	17.58
	Apr	42.03	30.93	15.19	32.76	29.80	20.47	37.57	30.37	17.05
	May	38.82	31.67	16.80	32.64	30.79	22.07	39.09	31.18	18.21
	Jun	30.48	31.23	17.59	26.89	30.00	20.16	31.73	31.06	17.97
	Jul	28.21	28.59	17.40	24.36	28.54	19.19	27.86	29.33	17.19
	Aug	32.77	30.19	17.67	26.68	28.71	20.94	29.01	30.18	18.40
	Sep	31.01	30.14	19.79	29.47	29.44	21.85	29.54	30.87	19.23
	Oct	23.63	25.42	15.59	22.23	25.53	18.72	23.50	27.41	16.07
	Nov	20.99	22.13	13.62	20.75	21.87	15.46	20.20	23.03	14.67
	Dec	21.35	21.02	14.68	22.61	20.11	16.44	19.16	21.35	14.95
2002	Jan	22.77	21.45	14.82	21.00	21.66	16.24	20.93	21.55	15.25
	Feb	22.86	21.80	15.24	24.16	22.54	17.37	21.17	21.69	15.52
	Mar	30.22	25.77	19.20	27.93	25.71	19.73	25.74	25.05	17.86
	Apr	33.02	27.16	21.93	30.11	28.64	21.75	29.94	26.53	19.93
	May	31.37	27.05	21.95	29.73	28.72	22.99	28.94	26.54	21.02
	Jun	31.20	26.26	21.38	28.54	27.82	21.99	29.02	25.97	19.94
	Jul	31.93	27.68	21.87	28.19	28.19	22.88	30.77	27.80	21.02
	Aug	31.77	28.77	22.78	28.17	28.79	24.10	31.14	28.95	21.68
	Sep	33.03	31.98	24.81	30.49	31.43	25.34	32.63	31.54	24.02
	Oct	34.82	31.90	23.19	29.62	33.10	23.46	32.16	31.23	22.44
	Nov	29.32	29.65	18.76	27.80	29.37	21.83	27.88	28.52	18.40
	Dec	33.00	33.53	22.41	30.25	31.88	24.24	31.34	32.63	19.99
2003	Jan	37.08	36.97	29.73	34.34	34.23	26.97	35.31	35.22	25.97
	Feb	42.61	44.38	27.76	40.14	39.35	29.33	39.15	41.16	25.93
	Mar	40.63	37.13	22.78	37.51	37.87	26.65	36.06	39.61	21.91
	Apr	34.24	30.47	19.59	28.74	30.03	23.12	34.38	29.59	18.61
	May	33.20	29.65	21.16	28.73	29.12	23.15	32.06	29.00	20.29
	Jun	34.96	31.07	22.35	31.59	29.33	24.51	33.15	30.57	21.57
	Jul	37.36	32.22	25.64	34.59	29.57	26.18	35.36	31.08	24.15
	Aug	41.48	33.57	25.95	37.30	33.27	24.92	38.04	32.47	23.72
	Sep	34.16	30.16	22.42	33.11	32.42	23.80	33.70	29.84	21.64
	Oct	35.57	33.59	24.48	35.55	33.58	24.38	33.71	33.92	22.63
	Nov	34.71	34.10	24.00	35.78	35.08	24.02	33.54	34.21	22.56
	Dec	35.97	35.72	22.35	39.52	36.67	23.79	33.84	35.02	19.55

**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.





Table

75

**Retail prices of refined products in OPEC Members, 1999–2003** (units of national currency/b)

	1999	2000	2001	2002	2003
<b>Algeria</b>					
Gasoline	3,092.3	3,180.1	3,362.4	2,225.0	3,370.4
Diesel oil	1,828.4	1,849.9	1,987.3	2,146.2	1,868.0
Kerosene	683.6	691.7	743.1	802.5	802.5
Fuel oil	1,569.6	1,569.6	1,569.6	1,569.6	1,569.6
<b>Indonesia</b>					
Gasoline	158,988.2	164,941.8	206,674.0	235,290.4	287,753.8
Diesel oil	87,443.5	89,426.3	119,235.0	235,290.4	262,317.0
Kerosene	44,516.7	47,296.6	59,617.5	260,727.2	111,286.0
Fuel oil	55,643.0	57,630.3	103,337.0	195,545.4	195,545.4
<b>IR Iran</b>					
Gasoline	59,620.6	78,695.1	96,194.4	98,488.1	102,701.1
Diesel oil	14,308.9	18,282.7	19,078.8	20,031.5	23,370.1
Kerosene	14,308.9	18,282.7	19,078.8	20,031.5	21,303.3
Fuel oil	7,154.1	9,642.1	10,175.9	10,716.8	13,354.3
<b>Iraq</b>					
Gasoline	na	na	na	na	na
Diesel oil	na	na	na	na	na
Kerosene	na	na	na	na	na
Fuel oil	na	na	na	na	na
<b>Kuwait</b>					
Gasoline	8.2	9.9	9.9	9.9	10.3
Diesel oil	7.3	8.7	8.7	8.7	8.7
Kerosene	7.3	8.7	8.7	8.7	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	18.3
Diesel oil	17.5	17.5	17.5	17.5	19.1
Kerosene	11.5	11.5	11.5	11.5	11.1
Fuel oil	1.9	1.9	1.9	1.9	3.5
<b>Nigeria</b>					
Gasoline	3,179.6	3,497.6	3,497.6	4,133.5	6,597.7
Diesel oil	3,020.6	3,338.6	3,338.6	4,133.5	6,041.2
Kerosene	2,702.7	2,702.7	2,702.7	3,815.5	6,041.2
Fuel oil	1,112.9	3,338.6	3,338.6	3,338.6	3,338.6
<b>Qatar</b>					
Gasoline	107.3	107.3	107.3	107.3	107.3
Diesel oil	95.4	95.4	95.4	95.4	95.4
Kerosene	63.6	63.6	63.6	63.6	63.6
Fuel oil	na	na	na	na	na
<b>Saudi Arabia</b>					
Gasoline	127.2	143.1	143.1	143.1	143.1
Diesel oil	58.8	58.8	58.8	58.8	58.8
Kerosene	69.2	69.2	69.2	69.2	69.2
Fuel oil	23.9	23.9	23.9	23.9	23.9
<b>United Arab Emirates</b>					
Gasoline	137.5	137.5	139.3	157.4	165.2
Diesel oil	94.4	94.4	128.5	146.9	154.1
Kerosene	104.9	104.9	131.1	162.6	170.7
Fuel oil	89.6	89.6	89.6	89.6	89.6
<b>Venezuela</b>					
Gasoline	11,129.5	11,129.5	11,129.5	13,271.8	13,270.7
Diesel oil	7,631.4	7,631.4	7,631.4	7,635.1	7,628.9
Kerosene	10,598.5	19,398.6	20,899.1	39,283.7	53,896.9
Fuel oil	5,272.3	6,801.7	7,267.3	32,667.0	10,469.8



## 76 Table

Composite barrel and its components in major consuming countries, 1999–2003 (\$/b)

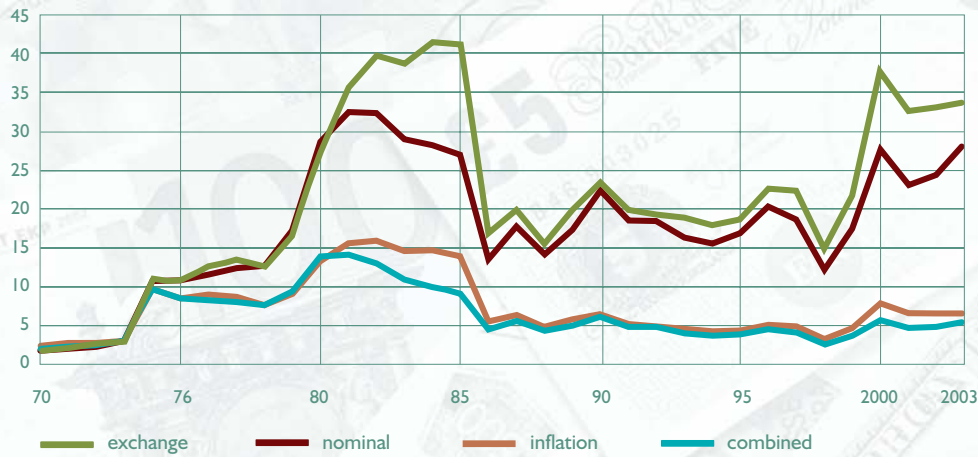
	1999	2000	2001	2002	2003*
<b>USA</b>					
Composite barrel	43.9	57.9	54.3	55.3	58.1
Crude cif price	16.9	27.5	22.0	23.9	30.2
Tax	13.8	15.8	15.3	15.1	14.9
Industry margin	13.2	14.7	16.9	16.4	13.0
<b>Canada</b>					
Composite barrel	56.2	68.9	65.8	64.5	68.7
Crude cif price	17.9	29.2	25.5	26.3	29.4
Tax	21.4	22.3	21.1	20.5	22.1
Industry margin	16.9	17.4	19.1	17.7	17.2
<b>Japan</b>					
Composite barrel	91.9	106.5	96.8	89.7	96.9
Crude cif price	17.5	28.7	24.3	26.2	32.0
Tax	37.3	39.3	34.9	34.0	34.6
Industry margin	37.1	38.4	37.6	29.5	30.4
<b>France</b>					
Composite barrel	103.3	110.2	107.2	110.8	116.8
Crude cif price	17.6	28.2	24.2	26.6	33.0
Tax	72.5	64.5	59.4	64.5	69.1
Industry margin	13.2	17.5	23.6	19.8	14.7
<b>Germany</b>					
Composite barrel	86.8	92.7	89.9	96.1	101.4
Crude cif price	17.6	28.2	24.1	26.0	32.4
Tax	54.5	52.1	51.4	57.4	60.5
Industry margin	14.7	12.4	14.4	12.6	8.5
<b>Italy</b>					
Composite barrel	99.5	100.7	95.5	100.0	105.2
Crude cif price	17.2	27.8	23.9	25.6	31.9
Tax	68.8	59.3	56.5	62.0	64.8
Industry margin	13.5	13.6	15.0	12.4	8.5
<b>United Kingdom</b>					
Composite barrel	141.6	152.9	143.0	144.0	151.3
Crude cif price	18.0	28.7	24.6	26.1	32.7
Tax	95.6	94.1	88.0	90.9	94.9
Industry margin	27.9	30.1	30.4	27.0	23.7
<b>European Union</b>					
Composite barrel	96.9	103.2	98.0	97.9	101.0
Crude cif price	17.6	28.2	24.1	24.5	29.1
Tax	64.7	59.7	56.8	58.2	63.2
Industry margin	14.7	15.3	17.1	15.2	8.6

**Notes:** 'Composite barrel' is a consumption-weighted average of final consumer prices (including taxes) of main groups of refined products. 'Tax' is a consumption-weighted average of total taxes (including VAT if applicable) levied on refined products. Industry margin is a calculated value arrived at by subtracting the tax and crude cif price from the price of composite barrel. Consumption weights for 2000, 2001 and 2002 are estimated. Totals may not add up due to independent rounding.

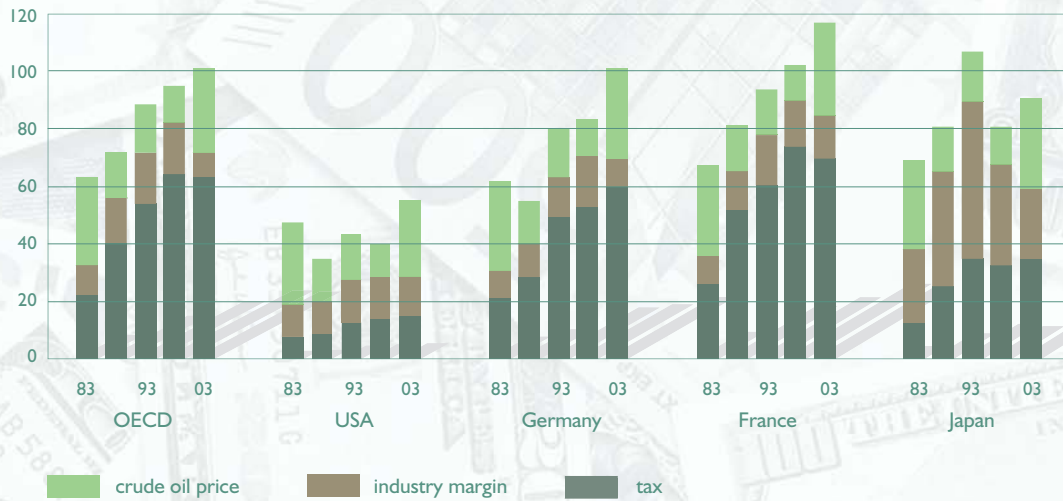




**Graph 54** Crude oil prices in nominal and real terms, 1970–2003  
(\$/b) 1973=100



**Graph 55** Composite barrel and its components, 1983–2003  
(\$/b)



## 77 Table

## Principal operations of the major oil companies, 1999–2003 (1,000 b/d)

	1999	2000	2001	2002	2003
<b>BP</b>					
Crude oil & NGL reserves <sup>1</sup>	6,535	6,508	7,217	7,762	7,749
Natural gas reserves <sup>2</sup>	33,802	41,100	42,959	45,844	43,976
Crude oil produced	2,061	1,928	1,931	2,018	2,121
Crude oil processed	2,541	2,928	2,943	3,117	3,097
Refined products sold	5,002	5,859	6,206	6,563	6,723
Natural gas sold <sup>3</sup>	6,067	7,609	8,632	8,707	8,613
<b>ExxonMobil</b>					
Crude oil & NGL reserves <sup>1</sup>	11,837	12,171	12,312	12,623	12,856
Natural gas reserves <sup>2</sup>	56,796	55,866	55,946	55,718	54,769
Crude oil produced	2,517	2,553	2,542	2,496	2,516
Crude oil processed	5,977	5,642	5,542	5,443	5,510
Refined products sold	8,887	7,993	7,971	7,757	7,957
Natural gas sold <sup>3</sup>	10,308	10,343	10,279	10,452	10,119
<b>Total</b>					
Crude oil & NGL reserves <sup>1</sup>	6,868	6,960	6,961	7,231	7,323
Natural gas reserves <sup>2</sup>	20,253	20,705	21,929	21,575	22,267
Crude oil produced	1,468	1,433	1,454	1,589	1,661
Crude oil processed	2,411	2,411	2,465	2,349	2,481
Refined products sold	3,830	3,695	3,724	3,380	3,652
Natural gas sold <sup>3</sup>	3,322	3,758	4,061	4,532	4,786
<b>Royal Dutch/Shell</b>					
Crude oil & NGL reserves <sup>1</sup>	7,367	6,907	6,107	6,405	6,605
Natural gas reserves <sup>2</sup>	45,933	44,685	44,878	43,702	44,920
Crude oil produced	2,268	2,274	2,220	2,372	2,333
Crude oil processed	2,989	2,923	3,400	4,084	4,167
Refined products sold	5,366	5,574	6,143	7,399	7,445
Natural gas sold <sup>3</sup>	8,218	8,212	8,902	9,286	8,849
<b>ChevronTexaco</b>					
Crude oil & NGL reserves <sup>1</sup>	8,264	8,519	8,524	8,668	8,599
Natural gas reserves <sup>2</sup>	17,164	17,844	19,410	19,335	20,191
Crude oil produced	1,049	1,997	1,959	1,897	1,808
Crude oil processed	2,769	2,540	2,472	2,079	1,987
Refined products sold	5,244	5,188	4,954	3,775	3,738
Natural gas sold <sup>3</sup>	8,876	9,700	10,505	8,594	5,822
<b>Total majors</b>					
Crude oil & NGL reserves <sup>1</sup>	40,871	41,065	41,121	42,689	43,132
Natural gas reserves <sup>2</sup>	173,948	180,200	185,122	186,174	186,123
Crude oil produced	9,363	10,185	10,106	10,372	10,439
Crude oil processed	16,687	16,444	16,822	17,072	17,242
Refined products sold	28,329	28,309	28,998	28,874	29,515
Natural gas sold <sup>3</sup>	36,791	39,622	42,379	41,571	38,189

**Notes:** BP and Amoco, and Exxon and Mobil merged to create BP Amoco and ExxonMobil in December 1998 and November 1999, respectively. In 2003, BP Amoco was renamed BP. Both data series have been adjusted to include the new companies. TotalFina merged with Elf Aquitaine in February 2000 to create TotalFinaElf, which was renamed Total in 2003. The data series has been adjusted to include the new company from 1997 for reserves and 1999 for other data. Chevron and Texaco merged to create ChevronTexaco in October 2001. Data include companies' shares in all operations in which they have an interest.

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

**Revenue, operating costs, deductions, taxation and net income of the major oil companies, 1999–2003 (m \$)**

	1999	2000	2001	2002	2003
<b>BP</b>					
Revenues <sup>1</sup>	101,180	161,826	175,389	178,721	232,571
Cost of sales <sup>2</sup>	94,196	145,864	160,723	164,134	210,186
Income tax (benefit)	2,322	6,648	6,375	4,342	5,972
Special deductions	–	–	–	–	–
Net income (loss)	4,662	9,314	8,291	10,245	16,413
<b>ExxonMobil</b>					
Revenues <sup>3</sup>	186,906	232,737	212,785	204,506	246,738
Cost of sales <sup>4</sup>	175,756	203,926	188,498	186,547	214,222
Income tax (benefit)	3,240	11,091	8,967	6,499	11,006
Special deductions	–	–	–	–	–
Net income (loss)	7,910	17,720	15,320	11,460	21,510
<b>Total<sup>5</sup></b>					
Revenues <sup>3</sup>	79,991	105,430	94,250	108,871	118,340
Cost of sales <sup>4</sup>	74,632	93,234	82,136	97,218	104,343
Income tax (benefit)	2,061	5,846	5,261	5,345	6,053
Special deductions	–	–	–	–	–
Net income (loss)	3,298	6,350	6,853	6,308	7,944
<b>Royal Dutch/Shell</b>					
Revenues <sup>3</sup>	149,680	191,511	167,431	222,768	268,892
Cost of sales <sup>4</sup>	135,400	167,519	148,677	205,250	246,824
Income tax (benefit)	5,696	11,273	8,404	7,796	9,572
Special deductions	–	–	–	–	–
Net income (loss)	8,584	12,719	10,350	9,722	12,496
<b>ChevronTexaco</b>					
Revenues	85,713	119,130	106,245	99,049	120,032
Cost of sales <sup>4</sup>	79,901	105,081	97,954	94,893	107,458
Income tax (benefit)	2,565	6,322	4,360	3,024	5,344
Special deductions	–	–	643	–	–
Net income (loss)	3,247	7,727	3,288	1,132	7,230
<b>Total majors</b>					
Revenues	603,470	810,634	756,100	813,915	986,573
Cost of sales	559,885	715,624	677,988	748,042	883,033
Income tax (benefit)	15,884	41,180	33,367	27,006	37,947
Special deductions	–	–	643	–	–
Net income (loss)	27,701	53,830	44,102	38,867	65,593

**Notes:** BP and Amoco, and Exxon and Mobil merged to create BP Amoco and ExxonMobil in December 1998 and November 1999, respectively. In 2003, BP Amoco was renamed BP. Both data series have been adjusted to include the new companies. TotalFina merged with Elf Aquitaine in February 2000 to create TotalFinaElf, which was renamed Total in 2003. The data series has been adjusted to include the new company from 1997. Chevron and Texaco merged to create ChevronTexaco in October 2001. Data include companies' shares in all operations in which they have an interest.

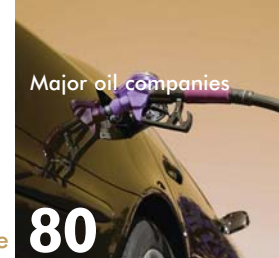
1. Includes earnings from equity interest and stockholding gain or loss.
2. Includes sales and excise taxes and interest expenses.
3. Includes dividend from related and non-consolidated companies.
4. Includes sales and excise taxes.
5. Converted from original figures in French francs and euros.

## 79 Table

## Costs, deductions, taxation and net income as percentage of revenues of the major oil companies, 1999–2003

	1999	2000	2001	2002	2003
<b>BP</b>					
Revenues	100	100	100	100	100
Cost of sales	93.1	90.1	91.6	95.0	90.4
Income tax (benefit)	2.3	4.1	3.6	2.4	2.6
Special deductions	–	–	–	–	–
Net income (loss)	4.6	5.8	4.7	2.6	7.1
<b>ExxonMobil</b>					
Revenues	100	100	100	100	100
Cost of sales	94.0	87.6	88.6	91.2	86.8
Income tax (benefit)	1.7	4.8	4.2	3.2	4.5
Special deductions	–	–	–	–	–
Net income (loss)	4.2	7.6	7.2	5.6	8.7
<b>Total</b>					
Revenues	100	100	100	100	100
Cost of sales	93.3	88.4	87.1	89.3	88.2
Income tax (benefit)	2.6	5.5	5.6	4.9	5.1
Special deductions	–	–	–	–	–
Net income (loss)	4.1	6.0	7.3	5.8	6.7
<b>Royal Dutch/Shell</b>					
Revenues	100	100	100	100	100
Cost of sales	90.5	87.5	89.0	92.8	91.8
Income tax (benefit)	3.8	5.9	4.9	3.2	3.6
Special deductions	–	–	–	–	–
Net income (loss)	5.7	6.6	6.1	4.0	4.6
<b>ChevronTexaco</b>					
Revenues	100	100	100	100	100
Cost of sales	93.2	88.2	92.2	95.8	89.5
Income tax (benefit)	3.0	5.3	4.1	3.1	4.5
Special deductions	–	–	0.6	–	–
Net income (loss)	3.8	6.5	3.1	1.1	6.0
<b>Total majors</b>					
Revenues	100	100	100	100	100
Cost of sales	92.8	88.3	89.7	92.8	89.5
Income tax (benefit)	2.6	5.1	4.4	3.2	3.8
Special deductions	–	–	0.1	–	–
Net income (loss)	4.6	6.6	5.8	4.0	6.6

**Notes:** BP and Amoco, and Exxon and Mobil merged to create BP Amoco and ExxonMobil in December 1998 and November 1999, respectively. In 2003, BP Amoco was renamed BP. Both data series have been adjusted to include the new companies. TotalFina merged with Elf Aquitaine in February 2000 to create TotalFinaElf, which was renamed Total in 2003. The data series has been adjusted to include the new company from 1997. Chevron and Texaco merged to create ChevronTexaco in October 2001. Data include companies' shares in all operations in which they have an interest. Percentages may not add up to 100 due to independent rounding.

**Capital and exploratory expenditure of the major oil companies, 1999–2003 (m \$)**

	1999	2000	2001	2002	2003
<b>BP</b>	<b>7,345</b>	<b>11,171</b>	<b>13,200</b>	<b>13,321</b>	<b>14,029</b>
Exploration <sup>1</sup>	4,194	6,383	8,627	9,266	9,658
Production	na	na	na	na	na
Transportation	na	na	na	na	na
Refining and chemicals <sup>2</sup>	1,215	1,585	1,446	810	755
Marketing <sup>3</sup>	1,634	2,369	2,386	2,682	3,006
Others	302	834	741	563	610
<b>ExxonMobil<sup>4</sup></b>	<b>13,307</b>	<b>11,168</b>	<b>12,311</b>	<b>13,955</b>	<b>15,461</b>
Exploration <sup>1</sup>	8,428	6,933	8,816	10,394	11,988
Production	na	na	na	na	na
Transportation	na	na	na	na	na
Refining and chemicals <sup>2</sup>	2,243	1,468	872	954	692
Marketing <sup>5</sup>	2,401	2,618	2,322	2,450	2,781
Others	235	149	301	157	na
<b>Total<sup>6</sup></b>	<b>9,049</b>	<b>7,677</b>	<b>9,506</b>	<b>9,191</b>	<b>8,740</b>
Exploration <sup>1</sup>	5,467	5,191	6,746	6,500	5,996
Production	na	na	na	na	na
Transportation	na	na	na	na	na
Refining and chemicals <sup>2</sup>	1,775	1,246	1,450	1,313	1,261
Marketing <sup>3</sup>	1,364	1,071	1,060	1,181	1,397
Others	443	169	250	197	86
<b>Royal Dutch/Shell</b>	<b>7,409</b>	<b>6,209</b>	<b>9,598</b>	<b>22,362</b>	<b>12,252</b>
Exploration <sup>1</sup>	4,137	3,801	6,847	13,064	8,129
Production	na	na	na	na	na
Transportation	na	na	na	na	na
Refining and chemicals <sup>2</sup>	1,178	726	685	680	470
Marketing <sup>5</sup>	1,808	1,546	1,775	8,124	3,388
Others	286	136	291	494	265
<b>ChevronTexaco</b>	<b>10,137</b>	<b>9,520</b>	<b>12,028</b>	<b>9,255</b>	<b>7,363</b>
Exploration	7,290	6,251	7,129	6,283	5,675
Production	na	na	na	na	na
Transportation <sup>3</sup>	1,949	2,040	2,144	1,632	1,100
Refining and chemicals <sup>2</sup>	462	186	179	309	197
Marketing	na	na	na	na	na
Others <sup>7</sup>	436	1,043	2,576	1,031	391
<b>Total majors</b>	<b>47,247</b>	<b>45,745</b>	<b>56,643</b>	<b>68,084</b>	<b>57,845</b>
Exploration	29,516	28,559	38,165	45,507	41,446
Production	na	na	na	na	na
Transportation	1,949	2,040	2,144	1,632	1,100
Refining and chemicals	6,873	5,211	4,632	4,066	3,375
Marketing	7,207	7,604	7,543	14,437	10,572
Others	1,702	2,331	4,159	2,442	1,352

**Notes:** BP and Amoco, and Exxon and Mobil merged to create BP Amoco and ExxonMobil in December 1998 and November 1999, respectively. In 2003, BP Amoco was renamed BP. Both data series have been adjusted to include the new companies. TotalFina merged with Elf Aquitaine in February 2000 to create TotalFinaElf, which was renamed Total in 2003. The data series has been adjusted to include the new company from 1997. Chevron and Texaco merged to create ChevronTexaco in October 2001. Data include companies' shares in all operations in which they have an interest.

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

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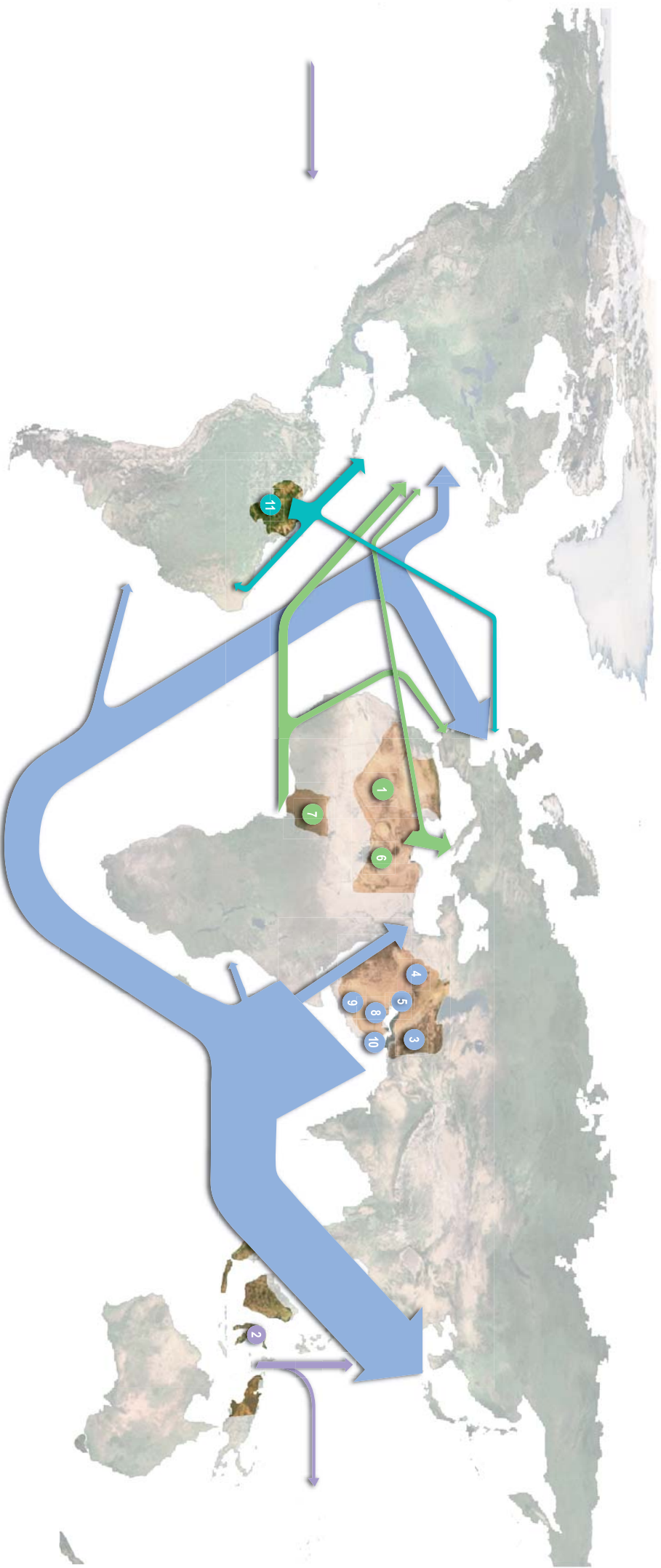
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# OPEC FLOWS OF CRUDE AND REFINED OIL, 2003



(1,000 b/d)

	Europe	North America	Asia and Pacific	Latin America	Africa	Middle East
Middle East	2,507	2,256	9,597	202	662	412
North Africa	1,810	407	135	90	91	1
West Africa	498	979	459	214	221	-
Asia/Far East	23	44	704	-	-	-
Latin America	108	1,023	-	520	-	-

- ▶ OPEC AFRICA
  - ▶ OPEC ASIA
  - ▶ OPEC LATIN AMERICA
  - ▶ OPEC MIDDLE EAST
- 1 Algeria
  - 2 Indonesia
  - 3 IR Iran
  - 4 Iraq
  - 5 Kuwait
  - 6 SP Libyan AJ
  - 7 Nigeria
  - 8 Qatar
  - 9 Saudi Arabia
  - 10 United Arab Emirates
  - 11 Venezuela



Transportation



Map of companies