

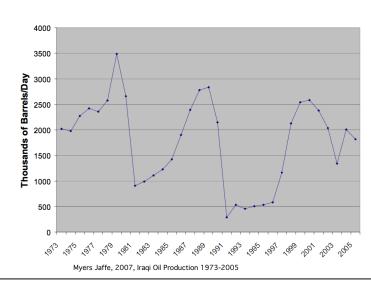
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80 81 82	US Ene	rgy Information Ad	vente <mark>d & flar</mark> ed of								
83 84		Iraq Crude oil, condensa	Iraq	v/emeu/internationalenerg updated April 2013	Iraq Prod Marketed Gas	Iraq Dry Natural gas	Iraq Vented & Flared	gross	Iraq Reinjected	Iraq Gross Prod'n	1
85 86 87	1980 1981	k bbl per day 2,522 1,005	million bbl per yr 921 367		Bcf per year NA NA	Bcf per year 62 23	8cf per year 339 117	%	Bcf per year NA NA	Bcf per year NA NA	
88 89	1982 1983	1,017 1,010	371 369		NA NA	24 18	124 119		NA NA	NA NA	
90 91 92	1984 1985 1986	1,214 1,443 1,700	443 527 621		NA NA NA	20 23 45	144 191 246		NA NA NA	NA NA NA	
93	1987 1988	2,089 2,705	762 987		NA NA	132 202	196 179		NA NA	NA NA	
95 96 97	1989 1990 1991	2,951 2,070 305	1,077 756 111		NA 148 41	215 148 39	190 160 25	50% 37%	NA - -	NA 321 67	
98 99 100	1992 1993 1994	425 527 573	155 192 209		106 95 119	101 90 112	4 2 2	3% 2% 1%	-	110 97 120	
101 102	1995 1996	585 599	214 219		119 121	112 114	2 2	1% 1%	-	120 123	
103 104 105	1997 1998 1999	1,175 2,165 2,523	429 790 921		117 148 121	108 104 112	18 28 34	13% 20% 22%	-	134 141 155	
106 107	2000 2001	2,586 2,410	944 880		120 106	111 97	34 34	22% 24%	-	154 139	
108 109 110	2002 2003 2004	2,043 1,321 2,026	746 482 740		92 46 69	83 39 62	34 35 30	27% 43% 30%	-	125 81 99	
111 112 113	2005 2006 2007	1,893 2,014 2,100	691 735 766		94 106 219	51 64 52	279 272 254	70% 65% 49%	28 42 49	401 420 523	
114 115	2008 2009	2,389 2,403	872 877		278 305	66 41	212 247	41% 42%	32 34	522 585	ı
116 117 118	2010 2011 2012	2,412 2,638 2,995	880 963 1,093		300 286	46 31	267 339	45% 51%	29 34	596 660	
119 120				1990-2011 totals	3,156	1,784	2,312 Dil Exports	41%	249	5,695	
121 122 123							Q CRUDE OIL	FYPO	RTS - OCTOR	RFR 2011	
124 125	Production, e	export & consumption	of crude oil & asso	ciated gas September 200	08	Released on : 25	/11/2011			<u> </u>	
126 127 128	Oil productio	on 1000 bbl/day	orth oil Company Sou	th oil Company Total Produ 1594 2180	ction	YEAR MONTH		KIRK	UK CRUDE T	AVERAGE PRICE	3
129 130		1000 bbl/day eries 1000 bbl/day	322 211	1323 1645 240 451			QUANTITY AMOUNT MILLON MILLION BARREL DOLLAR	QUANTI MILLOI BARRE	TY AMOUNT QUANTI'N MILLON MILLON BARREJ	N MILLION	<u>) </u>
131 132 133	Losses 10	tations 1000 bbl/day	4	46 57 4		2011 October	50.6 5,229	14.2	1,513 64.8	6742 104.043	
134 135	Flare ga	production mmscfd as mmscfd	285	896 1181 479 513			ENTIONED QUANT				
136 137	Production			ssociated gas July 2010 th oil Company Total Produc	ction	CEYHAN TERM	ID KHOR ALAMYA (MINAL IN TURKEY) RDAN TO THE FOLI	FROM T	HE MEDETRRANI		
138 139 140	Export oil	on 1000 bbl/day l 1000 bbl/day	648 384	1653 2301 1433 1817		API OIL BP OIL	CEPSA CHEVRO	DN C	HINA CONOCOPHILLI	PS ENI ERG	
141 142	Supply to power s	eries 1000 bbl/day stations 1000 bbl/day	313 22 0.59	251 564 55 77 _ 0.59		EXXON MOBIL GS CAL	SPANISH AMERIC TEX HINDUSTAN INDIAN		FFSHORE HINESE AMERICAN ORDAN PET. JX NIPPON O. ORDANIAN JAPANESE	ITALIAN ITALIAN KOCH KOREA NATIONAL	
143 144 145		production mmscfd gas mmscfd	422 134	997 1419 531 665		LUKOIL MOTOR	OIL PETRO PETRON DIAMOND JAPANESE VIETNAI		EPSOL SAMIR PANISH MOROCCAN	KOREAN SARAS SHELL ITALIAN BRITISH	
146 147	Republic of Iraq M	Ministry of Oil production	n, consumption, expo	orts, and flaring data; www	.oil.gov.iq/	SINOCHEM SK ENE CHINESE SOUTH KOREA	RGY TOTAL TOYOTA		UPRAS UNIPEC URKISH CHINESE	VALERO ZHENHUA OL AMERICAN CHINESE	u.
148 149 150	4000 —					- Marriel cabon	TURKEY	7	1	Sunni Kurds Kurds, Turcomans and Sunni Arabs	3
151 152 153 154	3500						Surraya Safayaja Alin	Tarkish Coast Crude Line	3	Sunni Arabs Shiite Arabs	
153 154 155		\bigwedge				e.	YRIA	Mesulo	Fireit Chop	Sunni Arabs Shiite Arabs	
156 157	sls/Day				4	3	IKIA	100	Kirkuk OKirkuk	IRAN	
158 159 160	Bare 2500	/	/			To Daylor	That Troping Haditing		Boji - Injani		
161 162	5 2000		1		1	5		5	Daigrah O Daighdad	3	
163 164	2000 2000 1500 1000 1000 1000 1000 1000				─	JORDAN	Rock 4 - IR	10		Pierre Charat	
165 166 167	월 1000						Block 2 Block		Dipon Stant	den Malacon	
168 169	500					SAUD	I ARABIA	E1	-21	Machine Van User	
170 171 172 173	0					★ Capital O City		The state of the s	Hock'9	Hamilton Mina al Helerano (Khoe al Fanafo)	0
173 174 175 176	,973 ,97				500, 500, 500,	Tanker te	Inincline			KUWAIT	
175 176		Myers Jaffe, 2007, Ira	qi Oil Production 197	3-2005			Myers Jaffe				

Production, export & consumption of crude oil & associated gas September 2008

	North oil Company	South oil Company	Total Production
Oil production 1000 bbl/day	586	1594	2180
Export oil 1000 bbl/day	322	1323	1645
Supply to refineries 1000 bbl/day	211	240	451
Supply to power stations 1000 bbl/day	11	46	57
Losses 1000 bbl/day	4	_	4
Associated gas production mmscfd	285	896	1181
Flare gas mmscfd	34	479	513

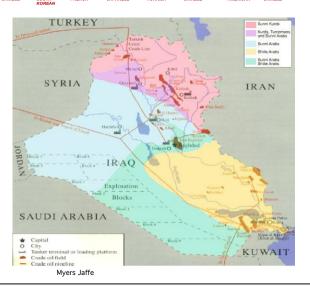
Production, export & consumption of crude oil & associated gas July 2010

	North oil Company	South oil Company	Total Production
Oil production 1000 bbl/day	648	1653	2301
Export oil 1000 bbl/day	384	1433	1817
Supply to refineries 1000 bbl/day	313	251	564
Supply to power stations 1000 bbl/day	22	55	77
Losses 1000 bbl/day	0.59	_	0.59
Associated gas production mmscfd	422	997	1419
Flare gas mmscfd	134	531	665



IRAQ CRUDE OIL EXPORTS - OCTOBER 2011 Released on : 25/11/2011											
YEAR	MONTH	BASRAH	CRUDE	KIRKUK CRUDE		TOTAL		PRICE			
								(US\$/BBI			
2011	October	QUANTITY MILLON BARREL	AMOUNT MILLION DOLLAR	QUANTITY MILLON BARREL	AMOUNT MILLION DOLLAR	QUANTITY MILLON BARREL	AMOUNT MILLION DOLLAR	104.043			
		50.6	5,229	14.2	1,513	64.8	6742				

API OIL	BP OIL	CEPSA	CHEVRON	CHINA OFFSHORE	CONOCOPHILLIPS	ENI	ERG
ITALIAN	BRITISH	SPANISH	AMERICAN	CHINESE	AMERICAN	ITALIAN	ITALIAN
EXXON MOBIL	GS CALTEX	HINDUSTAN	INDIAN OIL	JORDAN PET.	JX NIPPON	косн	KOREA
AMERICAN	KOREAN	INDIAN	INDIAN	CO. JORDANIAN	JAPANESE	AMERICAN	NATIONAL SOUTH KOREAN
LUKOIL	MOTOR OIL	PETRO DIAMOND	PETROVIETNAM	REPSOL	SAMIR	SARAS	SHELL
RUSSIA	GREECE	JAPANESE	VIETNAMESE	SPANISH	MOROCCAN	ITALIAN	BRITISH
SINOCHEM CHINESE	SK ENERGY SOUTH	TOTAL FRENCH	TOYOTA JAPANESE	TUPRAS TURKISH	UNIPEC CHINESE	VALERO AMERICAN	ZHENHUA OIL CHINESE



Cell: 19

Comment: Rick Heede:

The Iraq National Oil Company (INOC) was founded in 1966 by the Iraqi government. It was empowered to operate all aspects of the oil industry in Iraq except for refining which was already being run by the Oil Refineries Administration (1952) and local distribution which was also already under government control. In 1961 Iraq passed Public Law 80 whereby Iraq expropriated 95% of the Iraq Petroleum Company's concessions, and went on to announce the intent to form the INOC in 1964. In 1967 Iraq and the Soviet Union signed the Iraq-Soviet Protocol which committed the Soviet Union to give technical and financial aid to the company. In 1967 and 1968 the company's purview was expanded to include areas expropriated from the Iraq Petroleum Company. Unlike the National Iranian Oil Company, the INOC was forbidden from entering into partnerships or granting concessions to foreign oil companies. Though there was discussion of allowing the French Compagnie Fran?aise de Pétroles, partners in IPC from whom the North Rumaila Field had been appropriated, to enter into a contract to develop the field, ultimately, with the help of the Soviet Union, the INOC opened the field on 7 April 1972. In 1972 nationalization was complete. In its first years of sole control INOC managers succeeded in raising production in Iraq from 1.4 million barrels per day (220,000 m3/d) to over 3 million barrels per day (480,000 m3/d) in 1980. But the outbreak of war with Iran that year severely hit capacity. In April 1987, under newly appointed oil minister Issam Chalabi, Decree 267 merged the INOC with the oil ministry, which became the direct operator in the industry as well as its regulator. At an operational level, the single national-level company was broken into a series of regional companies, the largest among them being North Oil Company, based in Kirkuk, and South Oil Company, based in Basra. wikipedia.

The following dateline is from: Thompson, Eric V. (undated) A Brief History Of Major Oil Companies In The Gulf Region, Petroleum Archives Project, Arabian Peninsula & Gulf Studies Program, University of Virginia, www.virginia.edu/igpr/APAG/apagoilhistory.html Iraq Petroleum Company:

1912: Turkish Petroleum Company founded with 50% ownership by Turkish National Bank, 25% Deutsche Bank, 25% Royal Dutch/Shell

1914: Turkish Petroleum Company reorganized, with Anglo-Persian holding 50%, Deutsche Bank and Shell each holding 25%

1914: Ottoman Grand Vizier promises Mesopotamian concession to Turkish Petroleum Company, but final concession agreement is not signed

1922: CFP joins Turkish Petroleum Company

1925: Turkish Petroleum Company gains oil concession in Iraq

1928: Gulf joins Turkish Petroleum Company

1928: Royal Dutch/Shell, Anglo-Persian, CFP, Exxon, Mobil, Atlantic Richfield, Gulf Oil Corporation, Standard Oil of Indiana [Amoco], and Participations and Explorations Corp., establish a joint venture called the Near East Development Company; The Near East Development Company signs "Red Lines Agreement" binding participating companies to cooperate with Turkish Petroleum Company in any ventures in Turkey, the Levant, Iraq and Arabian Peninsula (Atlantic, Gulf, and Standard eventually sell their shares to other participants)

1929: Turkish Petroleum changes name to Iraq Petroleum Company

1932: Mosul Petroleum Company formed to hold northern portion of IPC's Iraq concession

1938: Basrah Petroleum Company formed to hold southern portion of IPC's Iraq concession

1939: IPC establishes Abu Dhabi Petroleum Company Ltd. (ADPC) to hold Abu Dhabi concession

1939: British government seizes IPC shares held by CFP

1966: Iraq revokes portions of IPC concession and nationalizes these concessions

1972: Iraq nationalizes remaining IPC concessions

1973: Iraq nationalizes assets of foreign assets in Basrah Petroleum Company

Cell: M9

Comment: Rick Heede:

World Bank, 2008b, has no data on Iraq NOC. Presumably 100 percent state-owned through the Iraq Ministry of Petroleum.

Cell: D11

Comment: Rick Heede:

On this worksheet we report extractive data for each company or state-owned enterprise. Three columns under crude oil and natural gas allow for data reported in one of three formats (e.g., thousand barrels per day, or million barrels per year, or million tonnes per year). Coal is normally reported in U.S. or metric tonnes per year.

Note: the carbon content of the extracted resources is adjusted by a number of factors before emissions estimates are made in the worksheet 1 to the left. Most important is the subtraction of the fraction typically sequestered in petrochemicals and other non-combusted uses such as road oils, waxes, lubricants, greases, etc. See the comment for each extracted resource for detailed discussions of the combusted vs sequestered fractions.

Cell: D12

Comment: Rick Heede:

Total net worldwide crude oil plus natural gas liquids produced by each company or state-owned enterprise. Where data is available, we list net production. Crude production includes natural gas liquids (NGL) unless noted.

Cell: H12

Comment: Rick Heede:

Natural gas is typically reported as dry gas; natural gas liquids are reported under crude oil.

Carbon dioxide is normally removed from the gas flow at the production site (see "Vented Carbon Dioxide").

"SCM/d" = standard cubic meters per day. "cf/d" = cubic feet per day.

Cell: F24

Comment: Rick Heede:

We have no information on INOC's equity production or details of production sharing agreements with international operators. Until detailed information becomes available we assume that INOC's equity share of Iraqi production is 60% per year for1966-2010. This may under-estimate INOC's share in some years and over-estimate INOC's share in other years, and is subject to revision.

The Oil & Gas Journal estimates for 1987-2001 appear to reflect total Iraqi production, not INOC's, and we do not use the O&GJ data (reproduced in column L). We attribute 10 percent of Iraq oil

The Oil & Gas Journal estimates for 1987-2001 appear to reflect total Iraqi production, not INOC's, and we do not use the O&GJ data (reproduced in column L). We attribute 10 percent of Iraq production prior to INOC's formation in 1966.

Cell: J24

Comment: Rick Heede:

We have no information on INOC's equity production or details of production sharing agreements with international operators. Until detailed information becomes available we assume that 60% of Iraqi oil production is INOC's equity share for 1966-2010.

The Oil & Gas Journal estimates for 1987-2001 appear to reflect total Iraqi production, not INOC's, and we do not use the O&GJ data (reproduced in column L).

Cell: D26

Comment: Rick Heede:

Data for 1960 through 1999 and 2002-2003 from EIA (2004) Annual Energy Review 2003, Table 11.5: World Crude Oil Production 1960-2003. INOC production is assumed to account for 100 percent of Iraq's production.

Cell: 126

Comment: Rick Heede:

U.S. Bureau of Mines, Minerals Yearbook 1964, page 348, marketed production 1960-1964.

Cell: 130

Comment: Rick Heede:

U.S. Bureau of Mines, Minerals Yearbook 1968, page 750, marketed production 1964-1967. Gross production not shown.

Cell: 134

Comment: Rick Heede:

U.S. Bureau of Mines, Minerals Yearbook 1970, page 764, gross and marketed production 1968-1970.

Cell: 137

Comment: Rick Heede:

U.S. Bureau of Mines, Minerals Yearbook 1972, page 846, gross and marketed production 1970.

Cell: 138

Comment: Rick Heede:

U.S. Bureau of Mines Minerals Yearbook 1974, page 887, reports both gross and marketed production for 1972-1973.

Cell: 140

Comment: Rick Heede:

U.S. Bureau of Mines Minerals Yearbook 1976, page 887, reports both gross and marketed production for 1974-1976.

Cell: L51

Comment: Rick Heede:

Oil & Gas Journal OGJ100 production data for Iraq NOC, 1987-2010. Unless 100 percent of Iraq's oil production is owned by INOC -- which we do not have information to confirm -- we do not use the OGJ100 data in the INOC attribution (see column F).

Cell: B53

Comment: Rick Heede:

Myers Jaffe, Amy (2007) Case Study on Iraq's Oil Industry, Wallace S. Wilson Fellow for Energy Studies, Rice University, in The Changing Role of National Oil Companies in International Energy Markets, James Baker III Institute for Public Policy, Rice University, 1-2 March 2007. To quote:

Restructuring iraq's Oil Sector

- The dissolution of the Iraq National Oil Company in 1987 led to 15 state-owned oil companies directly under the Ministry of Oil.
- · New Iragi Oil Law
- INOC revived as an independent holding company but new Iraqi oil companies can be created
- Creation of High Federal Oil and Gas Council
- Provincial Authorities will have own committees, oil minister
- Current and future oil revenues to be collected by Federal government and redistributed back to regions based on population.

Cell: M53

Comment: Rick Heede:

Oil & Gas Journal OGJ100 natural gas production data for Iraq NOC, 1987-2010. The OGJ100 data exceeds EIA estiamtes for total natural gas production for several years and appears unreliable. We instead estimate INOC's gas production in column F.

Cell: D66

Comment: Rick Heede:

INOC production for 2000 and 2001 from EI (2002) Top 100, p. 160. Estimates only. EI's estimates only differ slightly from EIA's estimates.

Cell: N66

Comment: Rick Heede:

Gas production data 2000 & 2001 also from El Top 100.

Cell: B69

Comment: Rick Heede:

Iraq was invaded and subsequently occupied by the U.S. military in March, 2003.

Cell: L74

Comment: Rick Heede:

OGJ100 2010 pg 69; updated 2008 value

Cell: J75

Comment: Rick Heede:

OGJ100 2010 pg 69

Cell: L75

Comment: Rick Heede:

OGJ 3 Oct 2011 pg 49

Cell: M75

Comment: Rick Heede:

OGJ100 2010 pg 69

Cell: D175

Comment: Rick Heede:

Myers Jaffe, Amy (2007) Case Study on Iraq's Oil Industry, Wallace S. Wilson Fellow for Energy Studies, Rice University, in The Changing Role of National Oil Companies in International Energy Markets, James Baker III Institute for Public Policy, Rice University, 1-2 March 2007.