



# 2019 Minerals Yearbook

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**IRAQ [ADVANCE RELEASE]**

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# THE MINERAL INDUSTRY OF IRAQ

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In 2019, hydrocarbons were a leading segment of the economy of Iraq, accounting for 97% of the country's export of goods (Organization of the Petroleum Exporting Countries, 2020, p. 16–18). The country ranked fourth in the world among the leading producers of crude petroleum (Organization of the Petroleum Exporting Countries, 2020, p. 26). The legislative framework for the mineral sector in Iraq is provided by the Ministry of Industry and Minerals Law No. 38 of 2011 and the Conservation of Hydrocarbon Resources Law No. 84 of 1985, respectively. Data on mineral production are in table 1. Table 2 is a list of major mineral industry facilities. More-extensive coverage of the mineral industry of Iraq can be found in

previous editions of the U.S. Geological Survey Minerals Yearbook, Volume III, Area Reports—International—Africa and the Middle East, which are available at <https://www.usgs.gov/centers/nmic/africa-and-middle-east>.

## Reference Cited

Organization of the Petroleum Exporting Countries, 2020, Annual statistical bulletin: Organization of the Petroleum Exporting Countries, 90 p. (Accessed August 17, 2020, at [https://www.opec.org/opec\\_web/en/publications/202.htm](https://www.opec.org/opec_web/en/publications/202.htm).)

TABLE 1  
IRAQ: PRODUCTION OF MINERAL COMMODITIES<sup>1</sup>

(Thousand metric tons, gross weight, unless otherwise specified)

Commodity	2015	2016	2017	2018	2019
<b>INDUSTRIAL MINERALS</b>					
Cement, hydraulic <sup>c</sup>	10,000	12,000 <sup>r</sup>	13,000 <sup>r</sup>	14,000 <sup>r</sup>	15,000
Clay, unspecified <sup>c</sup>	34,000	--	--	--	--
Gypsum <sup>c</sup>	1,000	1,000	1,000	1,000	1,000
Nitrogen, N content: <sup>c</sup>					
Ammonia	40	130 <sup>r</sup>	100 <sup>r</sup>	90 <sup>r</sup>	90
Urea	29	110 <sup>r</sup>	80 <sup>r</sup>	70 <sup>r</sup>	70
Salt	209	200 <sup>c</sup>	240 <sup>r,c</sup>	270 <sup>r,c</sup>	270 <sup>c</sup>
Sand and gravel, industrial, silica	53	50	50	50 <sup>c</sup>	50 <sup>c</sup>
Stone, sand, and gravel, construction:					
Sand and gravel, construction <sup>c</sup>	24,000	25,000	25,000	25,000	25,000
Stone, crushed, limestone:					
For cement	7,360	9,000 <sup>r,c</sup>	10,000 <sup>r,c</sup>	11,000 <sup>r,c</sup>	12,000 <sup>c</sup>
For construction <sup>c</sup>	400	500	500	500	600
Sulfur, native, S content <sup>c</sup>	40	40	40	40	40
<b>MINERAL FUELS AND RELATED MATERIALS</b>					
Natural gas, marketable	7,685	10,416	10,650	11,130	11,544
Petroleum:					
Crude, including condensate	1,454,890	1,618,776 <sup>r</sup>	1,656,332 <sup>r</sup>	1,690,632 <sup>r</sup>	1,744,509
Refinery:					
Distillate fuel oil	24,820	24,522	33,215	39,055	43,070
Gasoline	19,345	17,934	22,995	30,660	34,675
Kerosene, including jet fuel	9,490	12,444	15,695	17,155	17,885
Liquefied petroleum gas	1,278	1,354	2,008 <sup>r</sup>	2,811 <sup>r</sup>	3,000 <sup>c</sup>
Residual fuel oil	76,285	80,886	107,310	114,610	120,085
Other	21,718	27,116	14,418 <sup>r</sup>	11,790 <sup>r</sup>	12,300
Total	153,000	164,000	196,000	216,000	231,000

<sup>c</sup>Estimated. <sup>r</sup>Revised. do. Ditto. -- Zero.

<sup>1</sup>Table includes data available through August 17, 2020. All data are reported unless otherwise noted. Totals and estimated data are rounded to no more than three significant digits; may not add to totals shown.

TABLE 2  
IRAQ: STRUCTURE OF THE MINERAL INDUSTRY IN 2019

(Metric tons unless otherwise specified)

Commodity		Major operating companies and major equity owners	Location of main facilities	Annual capacity
<b>Cement:</b>				
Portland		Bazian Cement Company (LafargeHolcim Group, 70%, and Faruk Group Holding, 30%)	Bazian plant at Sarchinar, near Hayasi, 40 kilometers west of Suleimaniyah	2,700,000.
Do.		Iraqi Cement State Co. (Government, 100%)	Four plants: Al Qaim plant Kirkuk plant Al Fallujah plant Kubaisa plant	5,200,000.
Do.		KAR Group	Qarachough plant near Erbil	1,900,000.
Do.		Karbala Cement Manufacturing Ltd. (Lafarge S.A., 51%, and Merchant Bridge Co., 49%)	Karbala plant, Karbala Governorate	2,400,000.
Do.		Lucky Cement Co. (Lucky Cement of Pakistan, 50%, and Al Shawi family, 50%)	Al Basrah plant	1,300,000.
Do.		Mass Group Holding Ltd. of Jordan, 100%	Bazian plant, 35 kilometers west of Suleimaniyah	6,000,000.
Do.		Northern Cement State Co. (Government, 100%)	Seven plants: Al Tamin plant Badoosh I, II, and III plants, Mosul Hammam Al Aleel I and II plants, Mosul Sinjar plant, Mosul	3,740,000.
Do.		Southern Cement State Co. (Government, 100%)	Five plants: Al Basrah plant An Najaf Al plant Kufa plant Muthena Nora plant As Samawah plant	7,500,000.
Do.		United Cement Company (LafargeHolcim Group, 60%, and Faruk Group Holding, 40%)	Tasluja plant, near Sulaymaniyah	2,300,000.
White		Iraqi Cement Co. (Government, 100%)	Fallujah white cement plant, Fallujah	300,000.
Gypsum		Five subsidiaries of Al Bunnia Group: Al Ahlia Gypsum Industrial Co. Ltd. Al Ameen Gypsum Production Co. Ltd. Al Ma'moon Building Materials Co. Ltd. Al Rashid Gypsum Co. Ltd. Al Shemal Gypsum Industries Co. Ltd.	Five plants in Baghdad	1,368,750.
Iron and steel	thousand metric tons	Al Anmaa Co. for Constructional Material Production (Al Tanmiya Co. for Steel Industries, 100%)	Plant at Khawr az Zubayr, Al Basrah Governorate	450.
Do.	do.	FF Steel Co. of Turkey, 100%	Erbil plant	580.
Do.	do.	Mass Iraq Iron and Steel Industry Co. (Mass Group Holding Ltd., 100%)	Bazian plant, Al Suleimaniyah Governorate	1,250.
Do.	do.	State Company for Iron and Steel (SCIS) (Government, 100%)	Plant at Khawr az Zubayr, Al Basrah Governorate	NA.
Natural gas	million cubic meters	Basra Oil Co. (BOC) (Government, 100%)	Majnoon field, Al Basrah Governorate	1,395.
Do.	do.	BP p.l.c., 38%; China National Petroleum Corp. (CNPC), 37%; South Oil Co. (SOC), 25%	Rumaila field, Al Basrah Governorate	11,053.
Do.	do.	Eni S.p.A., 32.81%; Maysan Oil Co., 25%; South Oil Co. (SOC), 23.44%; Korean Gas Corp. (Kogas), 18.75%	Zubair field, Al Basrah Governorate	3,440.
Do.	do.	Exxon Mobil Corp., 25%; Oil Exploration Co., 25%; PetroChina Co. Ltd., 25%; Itochu Corp., 15%; Pertamina Corp., 10%	West Qurna 1 field, Al Basrah Governorate	2,500.
Do.	do.	Lukoil Oil Co., 75%, and South Oil Co. (SOC), 25%	West Qurna 2 field, Al Basrah Governorate	1,839.

See footnotes at end of table.

TABLE 2—Continued  
IRAQ: STRUCTURE OF THE MINERAL INDUSTRY IN 2019

(Metric tons unless otherwise specified)

Commodity		Major operating companies and major equity owners	Location of main facilities	Annual capacity
Natural gas— Continued	million cubic meters	Pearl Petroleum Co. Ltd. (PPCL) [Crescent Petroleum, 40%; Dana Gas PJSC, 40%; MOL Hungarian Oil and Gas Co. p.l.c. (MOL), 10%; OMV Aktiengesellschaft, 10%]	Chemchamal and the Khor Mor fields, Iraqi Kurdistan Region	350.
Do.	do.	Türkiye Petrolleri Anonim Ortaklığı (TPAO), 30%; Kuwait Energy, 25%; Maysan Oil Co. (MOC), 25%; Egyptian General Petroleum Corp. (EGPC), 20%	Siba field, Al Basrah Governorate	1,033.
Nitrogen	thousand metric tons	State Company for Fertilizers Northern Area (Government, 100%)	Plant at Baiji, Salah ad Din Governorate	231 ammonia; 202 urea.
Do.	do.	State Enterprise for Fertilizer and Petrochemicals (Government, 100%)	Plant at Abu Al-khasib, Al Basrah Governorate	230 ammonia; 350 urea.
Do.	do.	1st Global Company for Chemical Fertilizers Production Ltd. of Jordan	Plant at Baiji, Salah ad Din Governorate	365 ammonia; 525 urea.
Petroleum:				
Crude	thousand 42-gallon barrels per day	Basra Oil Co. (BOC) (Government, 100%)	Majnoon field, Al Basrah Governorate	235.
Do.	do.	BP p.l.c., 38%; China National Petroleum Corp. (CNPC), 37%; South Oil Co. (SOC), 25%	Rumaila field, Al Basrah Governorate	1,467.
Do.	do.	China National Petroleum Corp. (CNPC), 75%, and North Oil Co (NOC), 25%	Al-Ahdab field, Wasit Governorate	140.
Do.	do.	China National Petroleum Corp. (CNPC), 37.5%; South Oil Co. (SOC), 25%; Petronas Carigali International Sdn Bhd, 18.75%; Total S.A., 18.75%	Halfaya field, Missan Governorate	70.
Do.	do.	CNOOC Ltd., 63.75%; Iraq Drilling Co., 25%; Türkiye Petrolleri Anonim Ortaklığı (TPAO), 11.25%	Missan field, Missan Governorate	450.
Do.	do.	DNO International ASA, 75%, and Genel Enerji A.S. 25%	Tawke field, Iraqi Kurdistan Region	140.
Do.	do.	Exxon Mobil Corp., 25%; Oil Exploration Co., 25%; PetroChina Co. Ltd., 25%; Itochu Corp., 15%; Pertamina Corp., 10%	West Qurna 1 field, Al Basrah Governorate	500.
Do.	do.	Eni S.p.A., 32.81%; Maysan Oil Co., 25%; South Oil Co. (SOC), 23.44%; Korean Gas Corp. (Kogas), 18.75%	Zubair field, Al Basrah Governorate	270.
Do.	do.	Gazprom OAO, 30%; Oil Exploration Co., 25%; Korean Gas Corp. (Kogas) 22.5%; Petronas Carigali International Sdn Bhd, 15%; Türkiye Petrolleri Anonim Ortaklığı (TPAO), 7.5%	Badra field, Wasit Governorate	170.
Do.	do.	Lukoil Oil Co., 75%, and South Oil Co. (SOC), 25%	West Qurna 2 field, Al Basrah Governorate	NA.
Do.	do.	North Oil Co. (NOC) (Government, 100%)	Kirkuk field, Kirkuk Governorate	280.
Do.	do.	Petronas Carigali International Sdn Bhd, 45%; Japex Garraf Ltd., 30%; North Oil Co (NOC), 25%	Garraff field, Dhi Qar Governorate	35.
Do.	do.	Sociedade Nacional de Petróleos de Angola (Sonagol), 75%, and South Oil Co. (NOC), 25%	Qiyarah and Najmah fields, Nineveh Governorate	55.
Do.	do.	Taq Taq Operating Co. Ltd. (Genel Enerji A.S., 55%, and Addax Petroleum Corp., 45%)	Taq Taq field, Iraqi Kurdistan Region	20.
Refinery products	do.	KAR Group	Kalak refinery, Erbil, Kurdistan region	100,000.
Do.	do.	Midland Refineries Co. (Government, 100%)	Daura refinery, Baghdad Governorate	210,000.
Do.	do.	do.	Najaf refinery, Najaf Governorate	30,000.
Do.	do.	do.	Samawah refinery, Al Muthanna Governorate	30,000.
Do.	do.	do.	Diwaniya refinery, Al Qadisiyyah Governorate	20,000.

See footnotes at end of table.

TABLE 2—Continued  
 IRAQ: STRUCTURE OF THE MINERAL INDUSTRY IN 2019

(Metric tons unless otherwise specified)

Commodity		Major operating companies and major equity owners	Location of main facilities	Annual capacity
Petroleum:—Continued				
Refinery products— Continued	thousand 42-gallon barrels per day	North Refineries Co. (Government, 100%)	Baiji refinery, Saladin Governorate	310,000.
Do.	do.	do.	Kirkuk refinery, Kirkuk Governorate	53,000.
Do.	do.	do.	Sininya refinery, Saladin Governorate	30,000.
Do.	do.	do.	Hadiitha refinery, Anbar Governorate	16,000.
Do.	do.	do.	Qaiyarah refinery, Nineveh Governorate	16,000.
Do.	do.	do.	Kasak refinery, Nineveh Governorate	10,000.
Do.	do.	Qaiwan Group	Bazian refinery, Suleimaniyah Governorate	34,000.
Do.	do.	South Refineries Co. (Government, 100%)	Basrah refinery, Al Basrah Governorate	200,000.
Do.	do.	do.	Nasiriyah refinery, Dhi Qar Governorate	30,000.
Do.	do.	do.	Missan refinery, Missan Governorate	30,000.
Phosphate fertilizer		General Company for Phosphate (Government, 100%)	Plant at Al-Qaim, Anbar Governorate <sup>1</sup>	600,000 TSP; 280,000 MAP; 650,000 NPK.
Phosphate rock		do.	Mines at Akashat, Anbar Governorate	3,400,000.
Sulfur		Mishraq Sulphur State Co. (MSSC) (Government, 100%)	Mine at Qaiyarah, Nineveh Governorate <sup>2</sup>	820,000.

Do., do. Ditto. NA Not available.

<sup>1</sup>The fertilizer production unit U400 produced triple superphosphate (TSP), monoammonium phosphate (MAP), and compound fertilizer (nitrogen, phosphorus, and potassium, or NPK).

<sup>2</sup>No production had been reported since 2015.