

2005 Minerals Yearbook

SAUDI ARABIA

THE MINERAL INDUSTRY OF SAUDI ARABIA

By Philip M. Mobbs

In 2005, the Kingdom of Saudi Arabia maintained its position as the leading oil producer in the world. Saudi Arabia had diversified its economy and mineral industry, although the nation's economy remained strongly linked to the hydrocarbon sector, which accounted for about 53% of the gross domestic product (GDP) in 2005 compared with 46% in 2004. The last time that the oil sector had accounted for more than 50% of the GDP was 1981. The surge in the hydrocarbon sector's contribution to the GDP was attributed to the continued increase in international oil prices (Saudi Arabian Monetary Agency, 2006§¹; U.S. Energy Information Administration, 2006§).

The International Monetary Fund (2006§) estimated that the GDP based on purchasing power parity was about \$352 billion² in 2005 and that the GDP per capita based on purchasing power parity was about \$15,229. The real GDP growth rate was estimated to have increased by 6.6%.

In 2005, the Saudi Arabian Mining Company (Ma'aden) continued the development of the Az Zabirah bauxite mine, the Al Jalamid phosphate rock deposit, and the Zarghat magnesite deposit. Ma'aden also worked on its undeveloped gold resources. Tertiary Minerals plc of the United Kingdom continued its evaluation of the Ghurayyah tantalum prospect.

Several cement companies evaluated gypsum and limestone deposits in Saudi Arabia. In 2005, the fourth consecutive year of increased international oil prices resulted in the continuation of a construction boom in Saudi Arabia. The domestic demand for cement was estimated to be about 27 million metric tons in 2005 and domestic cement producers, which had a capacity of about 23 million metric tons per year (Mt/yr), were unable to meet this demand. A number of capacity expansions or new cement lines were under construction; total installed domestic capacity was projected to reach 33.5 Mt/yr by 2007 (James, 2005).

At Ras al-Zhor, Ma'aden continued work on the development of an alumina plant and a nitrogen and phosphate fertilizer complex. At Jubail, the construction of an ammonia and urea plant for Saudi Arabian Fertilizer Co. was underway. National Titanium Dioxide Co. of Saudi Arabia proposed to expand its titanium dioxide pigment plant that processed imported rutile. Development work continued on numerous other mineral-based commodity projects, especially in the petrochemical and steel sectors.

More-extensive coverage of the mineral industry of Saudi Arabia can be found in the 2004 U.S. Geological Survey Minerals Yearbook, volume III, Area Reports—International— Africa and the Middle East.

Reference Cited

James, Ed, 2005, Cement—Sedating the sector: Middle East Economic Digest, v. 49, no. 25, June 24, p. 52-54.

Internet References Cited

- International Monetary Fund, 2006 (September), Saudi Arabia, World Economic Outlook Database, accessed September 15, 2006, via URL http://www.imf.org/external/pubs/ft/weo/2006/02/data/index.aspx.
- Saudi Arabian Monetary Agency, 2006, Gross domestic product by sectors— Annual reports (statistical tables), accessed November 6, 2006, via URL http://www.sama.gov.sa/newreports/annual/en/section9/indexe/htm.
- U.S. Energy Information Administration, 2006 (October), Tables 4.1a-c, World crude oil production (including lease condensate)—1970-2005, accessed November 6, 2006, via http://www.eia.doe.gov/ipm/supply.html.

Major Sources of Information

Deputy Ministry for Mineral Resources P.O. Box 345 Jeddah, 21191, Saudi Arabia Telephone: +(966) 2-669-1216 Fax: +(966) 2-667-2265 Ministry of Petroleum and Mineral Resources P.O. Box 247 Riyadh, 11191, Saudi Arabia Telephone: +(966) 1-478-1661 Fax: +(966) 1-478-0552 Saudi Geological Survey P.O. Box 54141 Jeddah, 21514, Saudi Arabia Telephone: +(966) 2-619-5000 Fax: +(966) 2-619-6000

¹References that include a section mark (§) are found in the Internet References Cited section.

²Where necessary, values have been converted from Saudi riyals (SRIs) to U.S. dollars at the rate of SRIs3.75=US\$1.00.

TABLE 1 SAUDI ARABIA: PRODUCTION OF MINERAL COMMODITIES¹

(Metric tons unless otherwise specified)

Commodity ²	2001	2002 ^e	2003 ^e	2004	2005 ^p
METALS					
Ferroalloys ^e	78,000	75,000	75,000	85,000	85,000
Iron and steel:					
Iron ore	NA	NA	NA	503,500	500,000
Direct-reduced iron thousand metric tons	2,880	3,290 ³	3,290 ³	3,410	3,630
Steel, crude do.	3,413	3,570 ³	3,944 ³	3,902	4,185
Metal ore, mine output:					
Gross weight ^e	2,000,000	2,000,000	2,000,000	2,200,000	2,200,000
Copper content of concentrate and bullion ^e	800	800	800	652 ^{r, 3}	668 ³
Gold content of concentrate and bullion kilograms	5,000 ^e	4,192 ³	8,769 ³	8,268 ^r	7,456
Lead content of concentrate ^e	60	60	60	30	30
Silver content of concentrate and bullion ^e kilograms	15,000	14,000	13,000	14,494 ^{r, 3}	13,501 ³
Zinc content of concentrate ^e	3,300	3,000	3,000	1,500	1,500
INDUSTRIAL MINERALS	-				
Barite ^e	9,000	9,000	9,000	15,000 ^{r, 3}	15,000 ³
Cement, hydraulic thousand metric tons	20,608	22,000	23,000	25,370 ^r	26,064
Fertilizer, phosphatic, P ₂ O ₅ content ^e do.	150	150	150	295	300
Gypsum crude ^e do.	450	450	450	641 ^{r, 3}	713 ³
Lime ^e	350,000	350,000	350,000	350,000	360,000
Nitrogen:		220,000	220,000	220,000	200,000
N content of ammonia thousand metric tons	. 1.774	1.737 ³	1.743 ³	1.726	1.780
N content of urea do	1.260	$1,241^{-3}$	$1,247^{-3}$	1,242	1,250
Salt do	1,200 ^{r, e}	$1,000^{r}$	$1,200^{\circ}$	1,530 ^r	1,230
Sand and stone:	. 1,000	1,000	1,500	1,550	1,750
Aggregate do	120.000 °	120,000	120,000	156 300	190.000
Dolomite do	. 120,000 NA	NA	NA	530	498
Granite do.	. NA	NA	NA	716	843
Limestone do	. NA	NA	NA	32 000	30,600
Marble do.	. NA	NA	NA	82,000	85
Pozzolana and scoria do.	152	152	162	320	372
Sand and gravel do.	ΝΔ ^r	NA ^r	NA ^r	33 100 r	28 000
Silica sand (glass sand) do.	. NA	NA	NA	625	20,000
Sulfur hyproduct hydrocarbon processing	2 344 587 ^r	2 363 614 r, 3	2 180 000	2 240 205 ^r	2 716 823
MINERAL FLIELS AND RELATED MATERIALS	2,544,567	2,505,014	2,100,000	2,249,295	2,710,025
Ges natural:					
Gross million cubic meters	58 500	63 078 ³	67 380 ³	75 967	81 350
Dry do	53 689	57 314 ³	60.060 ³	68,000 °	72 000 °
Dify do.	. 55,007	57,514	00,000	08,000	72,000
Crude oil million 42-gallon barrels	2 763 ^r	2 470 r, 3	2 958 r, 3	3 151	3 300
Condensate do	. 2,703 NA	2,479 NA	2,938 11 ³	5,151 82	3,309
Natural gas liquids:		11A		02	
Propage thousand 42 gallon barrals	130 576 ^r	130 270 ^{r, 3}	144 837 r, 3	148 225 ^r	150 588
Butane do	. 130,370 83.220 ^r	01 858 r, 3	87 812 r, 3	01.060 ^r	04 148
Natural appoline and other do.	. 78 580 ^r	91,030 85,810 r, 3	68 422 r, 3	65 647 ^r	54,148 66 200
Total do.	202 285	216 028 3	201 071 ^r , ³	204 022 ^r	211.025
UO.		510,958	301,071	304,932	511,055
Liquefied petroleum gases	. 12 220	10 2 4 0 3	10, 150, 3	12 400 r	12 740
Liquened perioreuni gases do.	152 220	152,000	10,130	108 570 ^r	12,740
Oasonnic and haphilia do.	60.050	50 700	65 550 ³	190,370 66.080 r	190,070
Distillate fuel oil	102 770	103.000	215500^{-3}	234 800 r	236 270
Distinate fuel oil do.	193,//0	152,000	215,590 ⁻¹	234,090 172 700 ^r	230,370
Unamagifiad ⁴	. 109,000	0 190	109,360	112,790	12 790
Unspecified do.	507.460	582.000	642 620 3	608 120 ^r	720 640
10(a) (0).	597,400	202,000	042,030	090,120	120.040

^eEstimated; estimated data are rounded to no more than three significant digits; may not add to totals shown. ^pPreliminary. ^rRevised. NA Not available. ¹Table includes data available through October 30, 2006.

²In addition to commodities listed, basalt, carbon black, clays, and methanol were produced, but available information is inadequate to make estimates of output.

³Reported figure.

⁴Includes asphalt.