2007 Minerals Yearbook

CROATIA [ADVANCE RELEASE]

U.S. Department of the Interior
U.S. Geological Survey

July 2009

The Mineral Industry of Croatia

By Mark Brininstool

Croatia produced a limited number of mineral commodities; petroleum extraction and refining were the major economic activities of the mineral industry. Industrial minerals were consumed mainly by the domestic market, and infrastructure projects, such as road building, affected their production. Production of metals was limited to aluminum and steel.

Minerals in the National Economy

Croatia's gross domestic product (GDP) increased by 5.6% in constant prices compared with the GDP in 2006. The total value of industrial production increased by 5.6% and the value of mining and quarrying activities increased by 2.8%. Production of natural gas and petroleum, which is considered a subsector of mining and quarrying by the Central Bureau of Statistics of the Republic of Croatia, increased by 1.9% in terms of value compared with production in 2006. In 2007, mineral products made up 15.8% of the value of total imports, and base metals and articles of base metals made up 11.3%. Croatia was dependent on mineral imports, particularly mineral fuel imports. Croatia also had a large trade deficit of mining and quarrying goods in 2007, with imports valued at about $2.7 billion and exports valued at $317 million. In 2007, imports of crude petroleum and natural gas made up about $2.5 billion of the total value of imports of mining and quarrying products (Central Bureau of Statistics of the Republic of Croatia, 2008, p. 209, 299, 383).

Production

In 2007, Croatia produced metals, including aluminum and steel; industrial minerals, including cement, clays, gypsum, and lime; and mineral fuels, including natural gas and petroleum. Production data were generally unavailable for 2007, and estimates were made for the output of most minerals (table 1).

Structure of the Mineral Industry

Table 2 is a list of major mineral industry facilities.

Outlook

Croatia is expected to remain a modest producer of mineral goods, although increases in the production of industrial minerals could occur as infrastructure is modernized. Production of mineral fuels will most likely remain the most important outputs of Croatia's mineral sector.

Reference Cited

Central Bureau of Statistics of the Republic of Croatia, 2008, Statistical Yearbook 2008: Zagreb, Croatia, Central Bureau of Statistics of the Republic of Croatia, December, 829 p. (Accessed January 15, 2009, via http://www.dzs.hr/default_e.htm.)

TABLE 1
CROATIA: PRODUCTION OF MINERAL COMMODITIES[1]

(Metric tons unless otherwise specified)

Commodity[2]		2003	2004	2005	2006	2007[e]
METALS						
Aluminum:						
Metal, ingot, secondary		1,200	5,500	6,256	2,457	2,500
Alloys		1,180	1,100	1,100 [e]	350	400
Semimanufactures, rolled[e]		38,114 [3]	35,000	35,000	20,000	20,000
Steel:						
Crude, from electric furnaces		43,380	80,000	73,640	80,516	75,000 [3]
Semimanufactures, hot rolled[e]		13,000	50,000	58,000	60,000	60,000
INDUSTRIAL MINERALS						
Cement	thousand metric tons	3,654	3,811	3,481	3,598 [r]	3,524 [3]
Clays:						
Bentonite		13,568	16,000	17,391	16,410	17,000
Ceramic clay		188,000	637,000	197,921	300,718	300,000
Gypsum:						
Crude		166,000	148,000	196,133	170,351	170,000
Calcined[e]		1,400	1,200	1,200	1,200	1,200
Lime	thousand metric tons	251	250	1,988	2,155	2,200
Nitrogen, N content of ammonia	do.	264 [r]	332 [r]	404 [r]	400 [e]	400
Pumice and related materials, volcanic tuff	do.	29	23	21	17	20
Salt, all sources		31,281	23,000	36,970	29,589	32,536 [3]
Sand and gravel, excluding glass sand		15,000 [e]	116,000 [e]	114,785	365,550	350,000
Silica:						
Quartz, quartzite, glass sand		237,141	128,000	130,888	139,730	140,000
Glass:[e]						
Flat glass	thousand square meters	495 [3]	400	400	400	400
Container glass		171,070 [3]	150,000	150,000	150,000	150,000
Other hollow glass		1,466 [3]	1,400	1,400	1,400	1,400
Stone, excluding quartz and quartzite, dimension stone, crude:						
Ornamental[e]	square meters	1,093,573 [3]	1,000,000	1,000,000	1,000,000	1,000,000
Crushed and brown, n.e.s.[4]	thousand metric tons	19,022	19,000 [e]	15,103	17,625	18,000
Other[e]	cubic meters	25,000	20,000	20,000	20,000	20,000
Sulfur, byproduct of petroleum[e]		7,471 [3]	7,500	7,500	7,500	7,500
MINERAL FUELS AND RELATED MATERIALS						
Carbon black[e]		21,497 [3]	21,000	20,000	20,000	20,000
Natural gas, gross production	million cubic meters	2,190	1,851	2,283	2,714	2,900
Petroleum:						
Crude, gross weight, includes condensate	thousand metric tons	1,052	1,155	980	917 [r]	900
Refinery products	do.	5,360 [r]	5,320 [r]	5,141 [r]	4,865 [r]	5,321 [3]

[e]Estimated; estimated data are rounded to no more than three significant digits. [r]Revised. Do., do. Ditto.

[1]Table includes data available through March 31, 2009.

[2]In addition to commodities listed, common clay also was produced, but available information is inadequate to make reliable estimates of output.

[3]Reported figure.

[4]Not elsewhere specified.

TABLE 2
CROATIA: STRUCTURE OF THE MINERAL INDUSTRY IN 2007

(Thousand metric tons unless otherwise specified)

Commodity		Major operating companies	Location of main facilities	Annual capacity
Alumina		Jadral, Jadranski Aluminijum	Jadral Alumina Plant	150
Aluminum		Boris Kidric Tvornica Lakih Metala	Smelter at Sibenik	75
Do.		Top-Tvornica Olovni i Aluminjskikh	Semimanufactures producer at Savska	NA
Cement		Dalmacija Cement (CEMEX S.A.B. de C.V., 99%)	Sv. Jurai plant at Kastel Sucurac	1,300
Do.		do.	Sv. Kajo plant at Solin	750
Do.		do.	Majdan plant at Solin Majdan	780
Do.		Holcim (Hrvatska) d.o.o.	Plant at Koromacno	1,000
Do.		Istra Cement International d.d. (Part of CALUMEM Group)	Plant at Pula	70
Do.		Tvornica Cementa Umag D.D.	Cement plant at Umag	350
Do.		Nasicecement D.D.	Nacise plant at Tajnovac	1,000
Coal, bituminous		Istarski Ugljenokopi Rasa	Mines at Labin and Potpican	500
Natural gas	million cubic meters	INA-Industrija Nafte d.d. Zagreb (INA)	Natural gasfields at Bogsic Lug, Molve, and other locations	3,000
Petroleum, crude	thousand 42-gallon barrels per day	do.	Oilfields in Croatia and Slovenia (Benicanci, Zutica, Struzec, Ivanic Grad, Lendava, and other locations)	70
Do.	do.	do.	Refinery at Rijeka (Urinj)	160
Do.	do.	do.	Refinery at Sisak	150
Pig iron		Metalurski Kombinat Zeljezara Sisak	2 blast furnaces at Sisak	235
Salt	cubic meters	Solana Pag, Solana Ante Festin	Pag Island (marine salt)	13
Steel, crude		SP MK Zeljezare Sisak d.d.	Plant at Sisak	75
Do.		Zeljezara Split	Plant at Split	170

Do., do. Ditto. NA Not available.