



# 2009 Minerals Yearbook

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**CROATIA [ADVANCE RELEASE]**

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# THE MINERAL INDUSTRY OF CROATIA

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Croatia produced a limited number of mineral commodities, none of which were produced in a quantity significant on a world scale. Petroleum extraction and refining were the major economic activities of the mineral industry; production of metals was limited to aluminum alloys and steel. In 2009, Croatia's gross domestic product (GDP) decreased by 5.8% compared with the GDP in 2008. In 2008 (the latest year for which data were available), Croatia imported about \$3.5 billion of mining and quarrying goods and exported only about \$375 million. Imports of crude oil and natural gas accounted for about \$3.1 billion of the imports and made up about 10% of the value of all Croatian imports. Croatia is expected to remain a modest producer of mineral commodities, and mineral fuels are expected to remain the most important outputs of Croatia's mineral sector, although the country will most likely remain heavily dependent on imports of mineral fuels (Croatian Bureau of Statistics, 2009, p. 364; 2010, p. 45).

## Production

Most reported mineral production declined in 2009 compared with that of 2008 as the world economic crisis in 2009 reduced

demand from construction and manufacturing companies. Steel production decreased by 58% and Zeljezara Split d.d. reduced production of crude steel to 1,421 metric tons (t) in 2009 from 89,056 t in 2008. Zlomrex S.A. purchased Zeljezara Split d.d. at the end of 2007 and put the plant up for sale at the end of 2008 but had not yet found a buyer. Carbon black production decreased by 76%; gypsum and anhydrite, by 29%; lime, by 23%; and cement, by 22% (table 1; Zlomrex S.A., 2010, p. 4, 13).

## Structure of the Mineral Industry

Table 2 is a list of major mineral industry facilities.

## References Cited

- Croatian Bureau of Statistics, 2009, Statistical yearbook 2009: Zagreb, Croatia, Croatian Bureau of Statistics, December, 754 p.  
Croatian Bureau of Statistics, 2010, Statistical information 2010: Zagreb, Croatia, Croatian Bureau of Statistics, June, 93 p.  
Zlomrex S.A., 2010, 2009 annual report and management discussion & analysis: Poraj, Poland, Zlomrex S.A., April 30, 17 p.

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

(Metric tons unless otherwise specified)

Commodity <sup>2</sup>	2005	2006	2007	2008	2009 <sup>c</sup>	
<b>METALS</b>						
Aluminum:						
Alloys	30,000 <sup>e</sup>	31,573	32,703	31,582	30,000	
Semimanufactures:						
Rolled	48,000 <sup>e</sup>	48,785	49,050	52,135	50,000	
Extruded	6,500 <sup>e</sup>	6,670	6,953	6,287	6,000	
Total	54,500 <sup>e</sup>	55,455	56,003	58,422	55,000	
Steel:						
Crude, from electric furnaces	73,640	80,516	76,252	121,759 <sup>r</sup>	51,583 <sup>3</sup>	
Semimanufactures, hot rolled <sup>e</sup>	58,000	60,000	75,000 <sup>r</sup>	121,000 <sup>r</sup>	51,000	
<b>INDUSTRIAL MINERALS</b>						
Cement	thousand metric tons	3,481	3,598	3,587 <sup>r</sup>	3,637 <sup>r</sup>	2,838 <sup>3</sup>
Clays:						
Bentonite		17,391	16,410	19,578	19,759 <sup>r</sup>	19,000
Ceramic clay <sup>c</sup>		197,921 <sup>3</sup>	300,718 <sup>3</sup>	300,000	300,000	300,000
Gypsum and anhydrite, crude		196,133	170,351	334,962	329,649 <sup>r</sup>	234,300 <sup>3</sup>
Lime	thousand metric tons	250 <sup>e</sup>	260	572	541 <sup>r</sup>	415 <sup>3</sup>
Nitrogen, N content of ammonia <sup>c</sup>	do.	300 <sup>r</sup>	300 <sup>r</sup>	300 <sup>r</sup>	300 <sup>r</sup>	308
Pumice and related materials, volcanic tuff	do.	21	17	15	15 <sup>e</sup>	15
Salt, all sources		36,970	29,589	32,536	32,500 <sup>e</sup>	32,500
Sand and gravel, excluding glass sand		114,785	365,550	350,000	350,000 <sup>e</sup>	350,000
Silica sand (quartz, quartzite, glass sand)		130,888	139,730	147,855	150,000 <sup>e</sup>	150,000
Stone: <sup>c</sup>						
Crushed and brown	thousand metric tons	15,103 <sup>3</sup>	17,625 <sup>3</sup>	18,000	18,000	18,000
Dimension stone <sup>c</sup>		1,500,000	1,500,000	1,500,000	1,500,000	1,500,000
Sulfur, byproduct of petroleum <sup>c</sup>		7,500	7,500	7,500	9,819 <sup>r</sup>	10,315 <sup>3</sup>

See footnotes at end of table.

TABLE 1—Continued  
CROATIA: PRODUCTION OF MINERAL COMMODITIES<sup>1</sup>

(Metric tons unless otherwise specified)

Commodity <sup>2</sup>	2005	2006	2007	2008	2009 <sup>c</sup>
MINERAL FUELS AND RELATED MATERIALS					
Carbon black	18,412 <sup>r</sup>	26,265 <sup>r</sup>	23,724 <sup>r</sup>	16,903 <sup>r</sup>	3,976 <sup>3</sup>
Natural gas, gross production	2,283	2,715	2,892	2,729 <sup>r</sup>	2,717 <sup>3</sup>
Petroleum: <sup>e</sup>					
Crude, gross weight, includes condensate <sup>4</sup>	7,020 <sup>r</sup>	6,800	6,520 <sup>r</sup>	6,200 <sup>r</sup>	5,760
Refinery products <sup>5</sup>	38,600	36,400 <sup>r</sup>	39,900 <sup>r</sup>	32,100 <sup>r</sup>	31,700

<sup>c</sup>Estimated; estimated data are rounded to no more than three significant digits. <sup>r</sup>Revised. do. Ditto.

<sup>1</sup>Table includes data available through December 6, 2010.

<sup>2</sup>In addition to commodities listed, common clay also was produced, but available information is inadequate to make reliable estimates of output.

<sup>3</sup>Reported figure.

<sup>4</sup>Figures were converted to barrels from production in thousand metric tons, which was reported as the following: 2005—946; 2006—917; 2007—879 (revised); 2008—835 (revised); and 2009—776.

<sup>5</sup>Figures were converted to barrels from production in thousand metric tons, which was reported as the following: 2005—5,321; 2006—4,865; 2007—5,321; 2008—4,196; and 2009—4,246.

TABLE 2  
CROATIA: STRUCTURE OF THE MINERAL INDUSTRY IN 2009

(Thousand metric tons unless otherwise specified)

Commodity	Major operating companies and major equity owners	Location of main facilities	Annual capacity
Aluminum alloys and semimanufactures	Tvornica Lakhir Metala (TLM) d.o.o. (Adrial d.o.o. Sibenik)	Sibenik	40 <sup>e</sup>
Do.	Top-Tvornica Olovni i Aluminijskih	Savska	NA
Cement	Cemex Hrvatska d.d. (CEMEX S.A.B. de C.V., 100%)	Plants at Kastel Sucurac, Solin, and Solin Majdan	2,400
Do.	Holcim (Hrvatska) d.o.o.	Plant at Koromacno	1,000
Do.	Istra Cement International d.d. (Part of CALUCEM Group)	Plant at Pula	NA
Do.	Tvornica Cementa Umag d.o.o.	Cement plant at Umag	350
Do.	Nasicecement d.d. (Nexe Grupa d.d.)	Nasice	1,000
Natural gas	INA-Industrija Nafta d.d. Zagreb (INA)	Natural gasfields at Molve, offshore platforms in the Adriatic Sea, and other locations	3,000
Petroleum, crude	do.	Oilfields at Struzec, Kalinovac, Zutica, Sandrovac, and other locations.	20 <sup>e</sup>
Petroleum, refined	do.	Refinery at Rijeka (Urinj)	3,500
Do.	do.	Refinery at Sisak	2,300
Salt	Solana Pag d.d.	Pag Island (marine salt)	NA
Steel, crude	CMC Sisak d.d. [Commercial Metals Co. (CMC)]	Plant at Sisak	80
Do.	Zeljezara Split d.d. (Zlomrex S.A., 94.8%)	Plant at Split	185

<sup>e</sup>Estimated. Do., do., Ditto. NA Not available.