



# 2019 Minerals Yearbook

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**CROATIA [ADVANCE RELEASE]**

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# THE MINERAL INDUSTRY OF CROATIA

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In 2019, the production of mineral commodities—notably aluminum products, ammonia, cement, clay, crude petroleum, gypsum, lime, natural gas, refined petroleum products, salt, sand and gravel, steel, stone, and sulfur—represented only a minor part of the economy of Croatia (Croatian Bureau of Statistics, 2020, p. 61). The legislative framework for the mineral sector in Croatia is provided by the Mining Act (Official Gazette No. 56/13, 14/14) and the Hydrocarbon Exploration and Exploitation Act (Official Gazette No. 28/13, 14/14). 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 Croatia

can be found in previous editions of the U.S. Geological Survey Minerals Yearbook, volume III, Area Reports—International—Europe and Central Eurasia, which are available at <https://www.usgs.gov/centers/nmic/europe-and-central-eurasia>.

## Reference Cited

Croatian Bureau of Statistics, 2020, Statistical information 2020: Zagreb, Croatia, Croatian Bureau of Statistics, 105 p. (Accessed October 23, 2020, at [https://www.dzs.hr/Hrv\\_Eng/StatInfo/pdf/StatInfo2020.pdf](https://www.dzs.hr/Hrv_Eng/StatInfo/pdf/StatInfo2020.pdf).)

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

(Metric tons, gross weight, unless otherwise specified)

Commodity <sup>2</sup>	2015	2016	2017	2018	2019
<b>METALS</b>					
Aluminum, products:					
Alloys	6,713	1,847	2,930 <sup>e</sup>	3,600 <sup>e</sup>	2,206
Semimanufactured:					
Extruded	3,808	--	1,309	1,310 <sup>e</sup>	1,400 <sup>e</sup>
Rolled	128,000 <sup>e</sup>	2,270 <sup>e</sup>	72,759	26,675	29,046
Iron and steel, steel:					
Raw steel, from electric arc furnaces	122,000	--	--	136,000 <sup>r</sup>	100,000
Products, semimanufactured	16,000 <sup>r</sup>	17,000 <sup>r</sup>	15,000 <sup>r</sup>	13,000 <sup>r</sup>	13,000 <sup>e</sup>
<b>INDUSTRIAL MINERALS</b>					
Cement:					
Clinker thousand metric tons	2,159	2,058	2,416	2,317	2,268
Hydraulic:					
Portland do.	2,340	2,267	2,608	2,490 <sup>r</sup>	2,540 <sup>e</sup>
Other do.	119	120 <sup>e</sup>	111	130 <sup>e</sup>	127
Gypsum, mine, including anhydrite	138,088	170,107	200,932	166,783	154,103
Lime thousand metric tons	186	165	121	116 <sup>e</sup>	154
Nitrogen, ammonia, N content do.	375	347	384	384	330 <sup>e</sup>
Salt, all sources	51,877	39,836	52,938	50,800	47,793
Stone, sand, and gravel, construction:					
Sand and gravel, unspecified, excluding glass sand thousand metric tons	3,545	3,444	3,767 <sup>r</sup>	3,647 <sup>r</sup>	3,600 <sup>e</sup>
Stone:					
Crushed:					
Quartzite	195,066	176,391	141,208	109,230 <sup>r</sup>	109,000 <sup>e</sup>
Other, unspecified thousand metric tons	13,141	12,652	12,445	12,600 <sup>r</sup>	12,600 <sup>e</sup>
Dimension, unspecified, ornamental and other	1,417,694	1,378,882	1,488,342 <sup>r</sup>	1,890,208 <sup>r</sup>	1,890,000 <sup>e</sup>
Sulfur, byproduct, petroleum, S content	17,540	21,690	24,168	23,406	12,640
<b>MINERAL FUELS AND RELATED MATERIALS</b>					
Natural gas million cubic meters	1,828	1,690	1,775	1,560	1,490
Petroleum:					
Crude, including condensate thousand 42-gallon barrels	4,549	5,020	5,120	4,355	4,356
Refinery:					
Distillate fuel oil do.	8,430	9,660	10,143	10,489	8,176
Gasoline, motor do.	8,069	8,436	9,027	8,351	6,611
Jet fuel do.	833	888	1,057	1,805	1,800 <sup>e</sup>
Liquefied petroleum gas do.	2,436	2,448	2,815	2,494	1,821
Residual fuel oil do.	2,591	3,330	3,397	5,257	2,470
Total do.	22,400	24,800	26,400	28,400	20,900

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

<sup>1</sup>Table includes data available through October 13, 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.

<sup>2</sup>In addition to the commodities listed, calcium ammonium nitrate; nitric acid; nitrogen, phosphorous, and potassium (NPK) fertilizer; and urea may have been produced in Croatia, but available information was inadequate to make reliable estimates of output.

TABLE 2  
CROATIA: STRUCTURE OF THE MINERAL INDUSTRY IN 2019

(Thousand metric tons unless otherwise specified)

Commodity	Major operating companies and major equity owners	Location of main facilities	Annual capacity
Aluminum alloys and semimanufactures	Impol-TLM d.o.o. (Impol 2000 d.d., 100%)	Hot-rolling mill at Sibenik	30 <sup>e</sup>
Do.	Ivanal d.o.o.	Sibenik	3
Do.	TLM-TPP d.o.o. (Private investor, 75%)	Extruded products plant at Sibenik	10 <sup>1</sup>
Do.	Top-Tvornica Olovni Proizvoda Aluminijskih d.d.	Sveta Nedelja	NA
Cement	Calucem d.o.o. (CALUCEM Group)	Calcium aluminate cement plant at Pula	NA
Do.	Cemex Hrvatska d.d. (Cemex UK Ltd., 100%)	Plants at Sveti Juraj, Sveti Kajo, and Kolovoz	2,600
Do.	Holcim (Hrvatska) d.o.o. (LafargeHolcim Ltd., 100%)	Plant at Koromačnoa	1,000
Do.	Nasicecement d.d. (Nexe Grupa d.d.)	Plant at Nasice, Zolijan	1,000
Do.	Tvornica Cementa Umag d.o.o. (Istramineral Umag d.o.o., 100%)	Plant at Umag	350
Gypsum, including anhydrite	NA	Brescici Mine near Kulen-Vakuf	100
Natural gas      million cubic meters	INA-Industrija Naft e d.d. (MOL Group, 49.08%; Government, 44.84%; others, 6.08%)	Natural gas fields at Ika JZ; Izabela; Molve; offshore platforms in the Adriatic Sea; and Aiza Laura	2,000 <sup>e</sup>
Do.	do.	Natural gas fields at Vuckovec, Zebanec, Medimurje Co.	NA
Nitrogen:			
Ammonia	Petrokemija d.d. [Terra Mineralna Gnojiva d.o.o. (54.52%); Centar za restrukturiranje i prodaju (CERP) (17.9%); Hrvatska Postanska Banka d.d. (12.73%); others (14.8%)]	Plant at Kutina	450
Calcium ammonium nitrate	do.	do.	400
Nitric acid	do.	do.	415
NPK <sup>2</sup> fertilizer	do.	do.	600
Urea	do.	do.	500
Petroleum:			
Crude      thousand 42-gallon barrels per day	INA-Industrija Naft e d.d. (MOL Group, 49.08%; Government, 44.84%; others, 6.08%)	Oilfields at Kalinovac, Sandrovac, Struzec, Zutica, and other locations	12
Refined      do.	do.	Refinery at Rijeka (Urinj)	102
Do.      do.	do.	Refinery at Sisak	61
Raw steel	Acciarierie Bertoli Safau Sisak d.o.o. (Danieli Group, 100%)	Plant at Sisak	324
Do.	Adria Steel d.o.o. (Techcom GmbH, 100%)	Plant at Split	50 <sup>3</sup>
Salt	Solana Pag d.d. (Agrokor d.d., 100%)	Pag Island (marine salt)	15
Do.	Small producers	Ston, Nin	10 <sup>e</sup>

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

<sup>1</sup> Company filed for bankruptcy in 2017 and suspended operations at its facility in bankruptcy; the suspension of operations continued through 2019.

<sup>2</sup>Nitrogen, phosphorous, and potassium.

<sup>3</sup> Company filed for bankruptcy in 2015 and suspended operations in its facility in bankruptcy; no additional details were available for 2019.