NICKEL, 1930

reported by the Mining, Metallurgical and Chemical Branch of the Dominion Bureau of Statistics at Ottawa, show an output of 103,768,857 pounds valued at \$24,455,135 as compared with 110,275,912 pounds worth \$27,115,461 in 1929. These figures include the nickel in matte exported by the International Nickel Company of Canada, Ltd., and Falconbridge Nickel Mines, Ltd., valued at 18 cents per pound; refined and electrolytic nickel produced by the International Nickel Company valued at the average price obtained for such products sold during the year; nickel in nickel oxides and nickel salts sold from the Deloro and Port Colborne metallurgical plants at its total selling value as oxides or salts; nickel contained in speiss residues exported valued at 18 cents per pound, and a small amount of nickel contained in ore exported from a prospect in the Timagami forest reserve of Ontario.

The greater part of the world's nickel supply comes from the mines located along the rim of the norite-micropegmatite eruptive of the Sudbury basin area in Ontario. Two companies have reduction plants in this district. The International Nickel Company of Canada, Ltd., operates smelters at Copper Cliff and Coniston, while the Falconbridge Nickel Mines, Ltd., smelt nickeliferous ores at their property a few miles east of the term of Sudbury. Nickel is also recovered in smaller quantities from silver-cobalt-nickel ores of Ontario by the Doloro Smelting and Refining Company, Deloro, Ontario.

Smelter matte produced at Sudbury and containing about 80 per cent copper-nickel is treated by the International Nickel Company at their plant in Port Colborne, Ontario; this refinory produces electrolytic nickel, nickel oxide, nickel shot, converter copper and anode slimes containing platinum group metals. The International Nickel Company's rolling mill at Huntington, West Virginia, U.S.A., takes both nickel-copper matte and electrolytic nickel cathodes from the Port Colborne refinery for its raw materials, the one for the production of monel metal, the other for special nickel alloys. Washed nickel sulphide is exported from the Port Colborne plant for reduction to metallic nickel by the Carbonyl process in the company's British plant at Clydach, Wales.

Residues and alimes containing precious metals from both the Port Colborne and Clydach plants are sent to the new precious metals refinery operated by the International Nickel Company at Acton, London, England.

Matte produced at the smelter of the Falconbridge Nickel Mines, Ltd., is exported for treatment in the nickel refinery of this company situated at Kristansand, Norway.

Nickel ore reserves in the Sudbury area are very large. The Frood deposit alone possesses outlined ore in excess of 125,000,000 tons and the property is equipped to produce 8,000 tons per day from the lower level higher grade zones.

There appears to be an ever growing utilization of nickel in metallurgical fields; its peculiar and valuable physical properties contribute largely to the successful production of a host of improved metal products included among which are corrosion resisting cast iron, monel metal, stainless steels, nickel coinage, tank cars, caustic soda evaporators, kitchenware, storage batteries and a wide range of nickel-chromium and other non-ferrous alloys. Research laboratories of the International Nickel Company of Canada, Ltd., are established at Bayonne, N.J., and at Birmingham, England.

PRODUCTION IN CANADA AND EXPONTS OF NICKEL, 1929 and 1930.

	1 9 2 9		1 9 3 0	
	Quantity	Value	Quantity	Value
PRODUCTION	4	\$		\$
Nickel in matte, ores and speiss exported (a) Refined and electrolytic	28,172,633	5,071,074	41,959,927	7,552,574
nickel produced	70,704,762	18,639,814	57,478,651	15,485,381
sold	11,398,517	3,404,573	4,330,279	1,417,178
TOTAL	110,275,912	27,115,461	103,768,857	24,455,133
EXPORTS				
Nickel contained in matte Nickel oxide	68,408,200 29,630,700 11,600,900	17,544,513 4,501,389 3,489,782	43,122,500 44,890,400 3,733,000	11,262,512 8,142,794 1,100,018
TOTAL	109,639,800	25,535,684	91,745,900	20,505,324

⁽a) Nickel in matte and speiss experted valued at 18 cents per pound.



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