

DOMINION BUREAU OF STATISTICS - CANADA

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THE NON-FERROUS SMELTING AND REFINING INDUSTRY IN CANADA, 1927.

Definition of the Industry.— This industry includes the smelting and refining of Canadian and imported ores of aluminium, cobalt-silver, nickel-copper, copper-gold-silver, silver-lead-zinc and lead ores. The Aluminum Company of Canada, Limited, imported white ores and made aluminum pig at Arvida and Shawinigan Falls, Quebec. The Horne Silver Corporation began operations at Noranda, Quebec, on December 16, 1927, and produced blister copper.

The Mond Nickel Company operated a smelter at Coniston, Ontario, making a copper-nickel matte which was shipped to Clydach, Wales, for refining. The International Nickel Company of Canada, Limited, produced a nickel-copper matte at Coppercliff, Ontario. Part of the output from this plant was exported to Huntington, West Virginia, U.S.A., to be made into monel metal and the remainder was shipped to Port Colborne, Ontario, where refined and electrolytic nickel, nickel oxides, blister copper carrying gold and silver, and platinum and palladium were produced. The Deloro Smelting and Refining Company, Limited, treated cobalt-silver ores from the Cobalt, South Lorrain and Gowganda districts of Ontario, and produced fine silver, cobalt metal, cobalt salts, nickel oxides and nickel salts, white arsenic, various insecticides and stellite, an alloy containing cobalt, chromium and tungsten. The Kingston Mining, Smelting and Manufacturing Company, Limited, near Galetta, Ontario, produced pig lead directly from the concentrates of the ore taken from the Kingston mine.

In British Columbia there were two non-ferrous smelting plants. One was operated by the Consolidated Mining and Smelting Company, Limited, at Trail and the other by the Granby Consolidated Mining, Smelting and Power Company, Limited, at Anyox. At the Trail smelter facilities are provided for the treatment of lead ore and concentrates, zinc ore and concentrates, copper and gold ore and concentrates. The products of this smelter were fine gold and silver, refined copper, pig lead and refined zinc. Provision is being made for the production of cadmium, antimony and bismuth. This company also operated a concentrator to which mining companies that had no mill sent their ore. At the Anyox smelter, blister copper was produced from the ores of the Hidden Creek mine which is owned by the Granby Company. Custom ores were also purchased. Blister copper made at this plant was exported to the United States for refining.

Capital invested in lands, buildings, plant machinery and tools, cost of supplies and stocks on hand and cash in the non-ferrous metallurgical industry in Canada amounted to \$85,366,662 in 1927 as against \$81,779,240 in 1926. There were 644 salaried employees and 7,027 wage-earners who received \$12,120,240 for their services. Fuel and electricity used amounted to \$6,380,127, including coke, \$2,166,276; electricity, \$2,655,634; bituminous coal, \$1,035,840; and fuel oil, \$426,123. The total power employed was 172,182 h.p. comprising 12,765 h.p. generated by steam engines and steam turbines, 123 h.p. from gasoline oil and gas engines, 64,435 h.p. supplied by hydraulic turbines and water wheels and 1,859 h.p. by electric motors which were operated by purchased power. In addition there were 521 other electric motors in use having a combined rating of 19,506 h.p. which were operated by power generated by the primary power of the industry. The estimated value of the ore charged to the furnaces amounted to \$32,516,687, and sales from the smelters amounted to \$77,996,265, showing that the value added by converting the ore to saleable products was \$45,479,578.

PRINCIPAL STATISTICS OF THE NON-FERROUS METALLURGICAL INDUSTRIES IN CANADA, 1926 and 1927.

	1926	1927
Number of companies.....	7	8
Number of plants.....	9	10
Capital employed.....	\$ 81,779,240	\$ 85,366,662
Number of salaried employees.....	635	644
Salaries.....	\$ 1,240,936	\$ 1,551,036
Number of wage-earners.....	5,591	7,027
Wages.....	\$ 8,344,002	\$ 10,569,204
Cost of fuel and electricity.....	\$ 6,076,627	\$ 6,380,127
Estimated cost of ores treated.....	\$ 39,237,657	\$ 32,516,687
Value of smelter products.....	\$ 72,853,566	\$ 77,996,265
Value added by smelting.....	\$ 33,615,909	\$ 45,479,578

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