

MINERAL PRODUCTION OF CANADA.

The following table, prepared by the Geological Survey, gives a summary of the total mineral production of the Dominion for 1902:

METALLIC.		
Product.	Quantity.	Value.
Copper, lbs.....	39,168,202	\$ 4,553,695
Gold, Yukon	\$14,500,000	
Gold, all other	6,241,245	
		\$20,741,245
Iron ore (exports), tons	428,901	1,065,019
Pig iron from Canadian ore, tons.	71,065	1,043,011
Lead, lbs.....	23,000,000	935,870
Nickel, lbs.....	10,693,410	5,025,903
Silver, oz	4,373,000	2,280,957
Zinc, lbs.....	166,700	8,068
Total metallic		\$35,653,768
NON-METALLIC.		
Actinolite, tons	550	4,400
Arsenic, tons	800	48,000
Asbestos, tons	31,779	1,191,338
Asbestic, tons	8,662	12,114
Chromite, tons	900	12,400
Coal, tons	7,639,255	15,538,611
Coke, tons	506,466	1,538,930
Corundum, tons	768	84,468
Felspar, tons	7,576	11,375
Fire clay, tons	2,741	4,283
Graphite, tons	1,095	28,300
Grindstones, tons	6,159	48,400
Gypsum, tons	332,045	356,317
Limestone for flux, tons	293,108	218,809
Manganese ore, tons	84	2,774
Mica, tons		400,000
Mineral pigments—		
Baryta, tons	1,096	3,957
Ochres, tons	4,955	30,495
Mineral water		100,000
Moulding sand, tons	13,352	27,651
Natural gas		195,992
Peat, tons	475	1,663
Petroleum, brls	521,485	934,740
Phosphate, tons	856	4,953
Pyrites, tons	35,616	138,939

Product.	Quantity.	Value.
Salt, tons	63,056	288,581
Talc, tons	689	1,804
Tripolite, tons	900	15,800
STRUCTURAL MATERIALS AND CLAY PRODUCTS		
Cement, natural rock, brls	124,400	\$ 91,870
Cement, Portland, brls	594,594	1,028,618
Granite		170,000
Pottery		200,000
Sands and gravels (exports), tons	159,793	119,120
Sewer pipe		294,465
Slate		19,200
Terra cotta, pressed brick, etc...		348,597
Building material, including bricks, building stone, lime, tiles, etc..		5,500,000
Total structural materials and clay products		7,771,870
Total all other non-metallic		21,245,094
Total non-metallic		29,016,964
Total metallic		35,653,768
Estimated value of mineral pro- ducts not returned		300,000
Total, 1902		\$64,970,732

The tug Balize, owned by J. & T. Charlton, of Tonawanda, N.Y., is being refitted at Detroit for service on the Canadian side of the lakes.

The Collingwood Shipbuilding Co. is building for the Montreal Transportation Co. a steel tug, 120 ft. long, 24 ft. beam, and 13 ft. depth. This tug will have 1,000-h.p., and is said to be the most powerful tug on the Great Lakes.

—The Hamilton Electric Light and Cataract Power Co. has awarded the contract for the additions to the power house at De Cew's Falls, which have been in contemplation for some time. An extension to the power house is being made, and in this two Westinghouse generators of 5,000-h.p. each will be installed with two water-wheels of 6,000-h.p. each, working under a head of 270 feet. These wheels are being built by the firm of Riva, Monerett & Co., of Milan, Italy. This machinery is to be in operation by July, 1904, and meanwhile the power company contemplates plans for the further enlargement of the canal. The present canal yields 25,000-h.p., and the enlarged canal would produce 50,000-h.p.

For Sale.

Advertisements under these headings two cents per word each insertion. Advertisements twelve words or less, twenty-five cents.

BRASS AND IRON BEDSTEAD FACTORY for sale. Convenient to four railroads. Well equipped. Splendid opportunity for a practical man with some capital. Apply Box 12, Canadian Engineer Office, Toronto, Ont.

BARGAINS.—Owing to reconstruction of plant, a large amount of Electrical Apparatus will be sold cheap:—A. C. Generators, 1,200 volts, 16,000 alternations, 80 to 250 K. W. Exciters, 250 volt D. C. Generators, Switches, Switchboard Voltmeters and Ammeters, Station Transformers, Belting, Iron and Wooden Pulleys, all sizes. Shatting, 3 to 6 inches, Floor Stands and Boxes. Couplings, Frictions, and other things too numerous to mention. Mostly in first-class condition. Address, "BARGAINS," this office, and full particulars will be furnished.

FOR SALE—One Three H. P. Marine Gasoline Engine—4-Cycle Type, complete with shaft, propeller, batteries, etc. This engine has never been used. Further particulars can be had by addressing, W. Mathieson, 50 Esplanade East, Toronto.

FOR SALE CHEAP.—New ideas and methods for working all the new steels by using Toy's Hand Colored Tool Tempering Charts. Chart A explains hardening to any degree; Chart B explains both scientific and plain tempering, showing true color each tool should be and tells what it will stand; also 40 new methods for forging and welding all the new steels and 5 of the best welding compounds for same. Colored Charts A and B and 40 new methods and receipts, all for one dollar. Samples free. Address W. M. Toy, Sidney, Ohio.

For Sale.

FREE.—Treatise on Disc Grinders.—A machine tool not known or appreciated by the ordinary manufacturer. The booklet is not an advertisement of our particular machine, but is a clear statement of the varied uses to which machines of this class can be put, and examples of the time consumed in producing various kinds of work.—Bayldon Machine and Tool Co., 20 Morris Street, Jersey City, N. J.

GASOLINE LAUNCH FOR SALE—20 ft. boat—Carvel built; finished in natural wood, varnished; lockers under seats; engine 3 1/2 h.p.; reversible propeller; all brand new.—Hamilton Motor Works, Hamilton, Ont.

STEAMER FOR SALE—At a bargain—steamer "Cambria,"—a Canadian boat, 206 feet long, 40 feet beam, fitted with feather dip paddles, electric lighting plant; fully equipped with all sailing appliances; used for both passenger and freight purposes. Will sell for \$3,000.00. Address, Frank Lenahan & Son, 53 Fulton Street, Buffalo, N.Y.

Situations Vacant.

MACHINIST AND IMPROVERS wanted at once. Apply Dominion Motor & Machine Co., Limited, 50 Esplanade Street East, Toronto.

WANTED.—All kinds experienced engineers, draftsmen, foremen and superintendents to register. Positions open. Cleveland Engineering Agency, Box 71, Station B, Cleveland, O.

WE HAVE NOW COMPLETED a modern up-to-date foundry and machine shop, and equipped same with the latest and most approved machinery that could be purchased, and are wanting patternmakers, molders and machinists, and invite applications for these positions. Apply or address to Kenney & Co., Scottsdale, Pa.

Situations Wanted.

A MECHANICAL DRAUGHTSMAN, with fifteen years' experience in locomotive and fine work, desires an engagement after the 1st of May, prox. Excellent references. Address B. E., care of Canadian Engineer, Toronto.

CONCRETE ENGINEER.—Position wanted—wide experience, concrete-steel buildings, bridges, pavements, sewers, foundations, etc., decorative concrete work in blocks or monolithic, testing of cements. Address, Box 14, care of Secretary, Room 14, Bank of Hamilton Chambers, Winnipeg, Man.

SITUATION DESIRED.—As Engineer or Superintendent of Construction by a Canadian with seventeen years experience on general engineering work, including both Civil and Mechanical Engineering. Especially conversant with both design and construction of water power plants, iron and steel manufacturing plants, electric railways and power stations, and all classes of masonry, timber and steel work. At present engaged in charge of work on about 12,000 tons of structural steel erection in the United States. Address 1903, c/o Canadian Engineer, Montreal.

WANTED.—Position wanted with mining, coal, iron or timber company, as Engineer, Surveyor and Draftsman; reliable and experienced. Address, Box 7, care of Secretary, Room 14, Bank of Hamilton Chambers Winnipeg, Man.

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WE HAVE—On our list, open for engagement, and covering all lines of engineering, a number of the best engineers, surveyors, draftsmen, and superintendents of construction in Canada or the United States. Address, "Secretary," Room 14, Bank of Hamilton Chambers, Winnipeg, Man.