Department of Mines, Mines Branch 1907 08

Report 42

CANADA

DEPARTMENT OF MINES

MINES BRANCH

Hon. W. Templeman, Minister; A. P. Low, LL.D., Deputy Minister;
Eugene Haanel, Ph.D., Director.

THE

PRODUCTION OF IRON AND STEEL

IN

CANADA

During the Calendar Years

1907 AND 1908

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Chief of the Division of Mineral Resources and Statistics

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Iron Ore Deposits along the Ottawa (Quebec side) and Gatineau Rivers, Quebec, by Fritz Cirkel, M.E.

Iron Ore Deposits of Vancouver and Texada Islands, by Einar Lindeman, M.E.

The production of pig iron and steel in Canada has become an important industry, though dependent to a very large extent on imported supplies of ore and fuel. The growth of the industry has no doubt been greatly stimulated by the payment of bounties on the part of the Dominion government. Production is as yet confined to the eastern half of Canada, chiefly in the provinces of Ontario and Nova Scotia. There are sixteen completed blast furnaces, with a total daily capacity of about 2,665 tons.

The general business depression of 1908 resulted in only a slightly decreased production of pig iron in that year, while a rapid recovery is indicated by the greatly increased rate of production being maintained during the early months of 1909. The rapid growth of population, the extensive railway construction being undertaken, the replacement of wooden bridges by steel on old railways, and the increasing use of steel in building construction, all mean a great increase in our consumption of iron and steel goods, so that in 1908, although our own furnaces turned out 630,835 tons of pig iron, we imported in addition over a million tons of iron and steel.

A summary of the chief statistics of the production of iron ore, pig iron, and steel are given hereunder, while many details will be found in subsequent pages.

Statistical Summary of Iron Ore, and Iron and Steel Production, 1907-8.

Material.	1907.	1908.
	Short Tons.	Short Tons.
Iron ore shipped	312,856	238,082
Canadian iron ore charged to furnaces	244,104	209,366
Imported " "	1,117,260	1,051,445
Pig iron made	651,962	630,835
Steel ingots and castings made	706,982	588,763
Finished rolled iron and steel products made (a)	672,200	566,099
Canadian coke charged to iron furnaces	521,068	492,076
Imported " "	327,082	325,670
Pig iron imported	(b) 150,157	(c) 212,290
Iron and steel goods imported	(b) 632,868	(c) 851,843

(a) Statistics collected and published by American Iron and Steel Association.
(b) Nine months ending March, 1907.
(c) Twelve months ending March, 1908.
} The figures given do not show the total quantities of iron and steel goods imported, as in many cases the quantities are not given in the trade returns.

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The magnetites represent shipments mainly from eastern Ontario, but include in 1907 shipments from Atikokan, as well as small shipments from the Barachois mine, Cape Breton, and Texada island, B.C.; while in 1908 a small shipment of magnetite was made from the deposit being developed at Moose mountain, Ontario.

The hematites include the ores mined at Torbrook and Acadia mines, Nova Scotia (from the latter of which the carbonate ores are also obtained), and the Helen mine, Michipicoten. The bog ores are obtained and used in the Province of Quebec, but include, in 1907, a small shipment from Quatsino sound in Vancouver island, B.C.

A record of the production of iron ore in past years is shown in Tables 3 and 4 following:—

IRON.—TABLE 3.

Production of Iron Ore by Provinces, 1886-1908.

Calendar Year.	Nova Scotia.	Quebec.	Ontario.	British Columbia.	Total.
	Tons.	Tons.	Tons.	Tons.	Tons.
1886	44,388	.....	16,032	3,941	64,361
1887	43,532	13,404	16,598	2,796	76,330
1888	42,611	10,710	16,894	8,372	78,587
1889	54,161	14,533	.....	15,487	84,181
1890	49,206	22,305	.....	.....	76,511
1891	53,649	14,380	.....	950	68,979
1892	78,258	22,690	.....	2,300	103,248
1893	102,201	22,076	.....	1,325	125,602
1894	89,379	19,492	.....	1,120	109,991
1895	83,792	17,783	.....	1,222	102,797
1896	58,810	17,630	15,270	196	91,906
1897	23,400	22,436	2,770	2,099	50,705
1898	19,079	17,873	21,111	280	58,343
1899	28,000	19,420	25,126	2,071	74,617
1900	18,940	19,000	82,950	1,110	122,000
1901	18,619	15,489	272,538	7,000	313,646
1902	16,172	18,524	359,288	10,019	404,003
1903	40,335	12,035	209,634	2,290	264,294
1904	61,293	16,152	141,601	.....	219,046
1905	84,952	12,681	193,464	.....	291,097
1906	97,820	9,933	141,078	.....	248,831
1907	89,839	12,748	207,769	2,500	312,856
1908	11,802	10,103	216,177	.....	238,082

IRON.—TABLE 4.

Production of Iron Ore in Nova Scotia, 1876-1885.

Calendar Year.	Tons.	Calendar Year.	Tons.
1876	15,274	1881	39,843
1877	16,879	1882	42,135
1878	36,600	1883	52,410
1879	29,989	1884	54,885
1880	51,193	1885	48,129

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