

DOMINION BUREAU OF STATISTICS - CANADA  
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XX  
PRIMARY IRON AND STEEL INDUSTRY IN CANADA, 1927.

Finally revised statistics issued by the Mining, Metallurgical and Chemical Branch of the Dominion Bureau of Statistics at Ottawa, show that the sales of pig iron, steel ingots, direct steel castings and rolled iron and steel products in Canada were valued at \$46,412,717 in 1927, marking an increase of 11 per cent over the value of \$41,883,565 in the previous year. This industry represented a capital investment in Canada of \$96,295,734; afforded employment to an average over the year of 7,396 people to whom there was paid \$11,809,198 in salaries and wages, and by manufacturing processes added \$27,418,777 to the value of purchased materials which cost \$18,993,940. Analysis of the sales values by provinces showed the distribution to be as follows: Ontario, \$27,769,202; Nova Scotia, \$10,711,608; Quebec, \$6,433,538; Manitoba and British Columbia, \$1,498,368.

(a) Pig Iron.— Blast furnace production totalled 709,697 long tons of pig iron, a decline of 6 per cent from the 757,317 tons of 1926. The year's output included 523,701 tons of basic iron, 145,787 tons of foundry iron and 40,209 tons of malleable iron. Disposition of the output, including about 14,789 tons drawn from stock, was as follows: 521,638 tons went to the producing companies' own steel furnaces, and of the balance, 202,848 tons were sold at an average mill price of \$20.96. In 1926 the average mill price was \$21.83. Taking the population of Canada at 9,519,000 persons in 1927, the per capita production of pig iron was 167 pounds, as against 181 pounds in the preceding year, 136 pounds in 1925, an average of 144 pounds in 1924 and 216 pounds in 1923.

Ontario produced 65 per cent of the Canadian output as against 67 per cent in 1926. Nova Scotia accounted for the balance in each year.

Of the 4 companies producing pig iron in 1927, there were 3 located in Ontario and 1 in Nova Scotia. In addition to the 4 producers of pig iron, 1 plant in Ontario produced ferro-alloys as its principal product; these 5 plants employed a monthly average of 969 people and paid \$1,431,729 in salaries and wages. Ferro-alloys were also made in 3 other plants which have been classed in other industrial groups.

(b) Steel Ingots and Direct Steel Castings.— During the year 20 plants in Canada reported under the steel ingots and direct steel castings industry; Quebec had 7 plants; Ontario, 6; Manitoba, 3; and 2 in each of British Columbia and Nova Scotia.

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Total steel furnace and converter production amounted to 907,945 long tons, an increase of 17 per cent over the 776,262 tons reported for 1926. Of this output, 783,580 tons were transferred to the rolling mills of the producing firms and 34,287 tons of direct steel castings were sold at an average price of \$120 per ton.

This line of production afforded employment to a monthly average of 2,632 people to whom there was paid \$3,702,595 in salaries and wages.

(c) Iron and Steel Rolled Products.— Rolling mill sales were valued at \$32,196,118 in 1927, as compared with \$28,575,129 in 1926. During the year 1,047,507 long tons of iron and steel passed through the mills and of this total 968,894 tons came from the producing companies' own plants, and 78,613 tons were purchased.

There were 11 iron and steel rolling mills operated in Canada during 1927 of which Manitoba had 1; Nova Scotia, 2; Quebec, 3; and Ontario, 5. These plants employed an average of 3,795 people each month and paid \$6,674,874 in salaries and wages during the year.

Rolling mill products sold during 1927 included the under-mentioned articles at approximate values as given: iron or steel bars, over 10 million dollars; steel rails, 10 million dollars; railway track equipment, 4.8 million dollars; blooms, billets and slabs, 1.6 million dollars; structural shapes over 1 million dollars; iron and steel rods over 1 million dollars; plates and sheets, 1.9 million dollars; and many other articles including nails and tacks, washers, chains, scrap, horse and mule shoes, etc.

Table 1.— PRINCIPAL STATISTICS PERTAINING TO THE PIG IRON AND FERRO-ALLOYS, STEEL AND ROLLED PRODUCTS INDUSTRY IN CANADA, 1923-1927.

Year	No. of plants	Capital employed \$	No. of employ- ees	Salaries and wages \$	Cost of materials \$	Selling value of products \$	Value added by manu- facturing \$
1923 ....	26	82,880,333	5,235	10,816,201	42,929,121	66,070,771	23,141,650
1924 ....	29	79,805,201	5,325	7,201,588	#19,410,742	#33,553,443	#14,142,701
1925 ....	31	80,757,625	4,946	7,079,099	#15,507,377	#32,909,463	#17,402,086
1926 ....	33	86,987,454	6,140	9,054,170	#19,912,723	#41,883,565	#21,970,842
1927 ....	36	96,295,734	7,396	11,809,198	#18,993,940	#46,412,717	#27,418,777

# Figures of materials used for 1924-1927 inclusive are of purchased materials only, and for the same years production figures cover sales only. Data for previous years include estimated values for interplant transfers.

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Table 2.- PRINCIPAL STATISTICS OF THE PIG IRON AND FERRO-ALLOYS, STEEL AND ROLLED PRODUCTS INDUSTRY IN CANADA, BY PROVINCES, 1926 and 1927.

Province	Year	No. of plants	Capital employed \$	No. of employees	Salaries and wages \$	Production \$
Nova Scotia.....	1926	4	17,246,123	1,225	1,329,832	8,681,441
	1927	5	25,107,583	1,240	1,707,614	10,711,608
Quebec.....	1926	10	13,189,670	1,670	2,089,629	5,960,338
	1927	10	10,056,862	1,660	2,143,270	6,433,538
Ontario.....	1926	15	55,070,516	2,911	5,166,271	25,614,100
	1927	15	59,352,279	4,101	7,474,972	27,769,202
CANADA(x).....	1926	33	86,987,454	6,140	9,054,170	41,803,220
	1927	36	96,295,734	7,396	11,809,198	46,412,717

(x) Includes data for 4 plants in Manitoba and 1 in British Columbia for 1926, and 4 plants in Manitoba and 2 in British Columbia for 1927.

(a) PIG IRON

Table 3.- MATERIALS CHARGED TO IRON BLAST FURNACES IN CANADA, 1927.

Item	Quantity	Cost at Furnace
Foreign iron ore.....	1,263,990 long tons	\$ 4,491,897
Pyrite cinder.....	696 long tons	\$ 1,482
Mill cinder, scale, slags, etc.....	77,130 long tons	\$ 164,040
Scrap.....	43,120 long tons	\$ 490,163
Limestone.....	407,403 short tons	\$ 566,244
Coke, from Canadian coal.....	310,978 short tons	\$ 1,473,738
Coke, from imported coal.....	487,825 short tons	\$ 2,803,858
Other materials.....	...	\$ 2,712
TOTAL.....	...	\$ 9,994,134

Table 4.- PRODUCTION OF PIG IRON IN CANADA, BY GRADES, 1927.

Item	Total tonnage made	Tonnage shipped to company's own plants	S A L E S				
			Quantity		Value		
	Long tons	Long tons	Long tons		\$		
PIG IRON:							
Basic.....	523,701	504,090	18,557		358,356		
Foundry.....	145,787	9,871	151,481		3,208,333		
Malleable.....	40,209	7,677	32,810		684,103		
TOTAL.....	709,697	521,638	202,848		4,250,792		





## (b) STEEL INGOTS AND CASTINGS

Table 5.- MATERIALS USED IN THE STEEL INGOTS AND CASTINGS INDUSTRY IN CANADA, 1927.

Item	Unit of measure	Company's own production	PURCHASED Quantity	MATERIALS Cost at furnace
\$				
(a) Metals:				
Pig iron.....	long tons	511,724	5,850	169,464
Spiegeleisen and ferromanganese.....	long tons	...	7,164	467,952
Ferrosilicon.....	long tons	...	3,585	219,302
Other ferro-alloys.....	long tons	...	498	117,353
Metals for making alloy steels (nickel, etc.).....	long tons	2,557	46	41,837
Scrap iron or steel, including old rails not intended for rerolling....	long tons	62,363	261,542	3,612,683
Scrap made and consumed in works reporting.....	long tons	142,774	...	...
Total Metals.....	long tons	719,418	278,685	4,628,591
(b) Ores:				
Crude iron ore:				
Foreign.....	long tons	...	57,808	386,642
Calcined, roasted or treated ore:				
Foreign.....	long tons	...	194	6,832
Manganiferous ore:				
Foreign.....	long tons	...	3,494	74,454
Chrome, etc.:				
Foreign.....	long tons	...	202	7,301
Total Ores.....	long tons	...	61,698	475,229
(c) General materials:				
Limestone.....	short tons	37,208	70,436	137,897
Fluorspar.....	short tons	...	7,123	92,243
Other fluxing material.....	short tons	17,894	1,657	111,937
Coke from Canadian coal.....	short tons	585	1,097	16,132
Coke made in Canada from imported coal.....	short tons	...	971	8,742
Imported coke.....	short tons	...	315	4,680
Anthracite coal.....	short tons	...	1,112	8,575
Bituminous coal.....	short tons	...	150	1,500
Charcoal.....	bushels	...	52,479	12,967
Carbon electrodes.....	-	...	...	75,271
Other materials.....	-	...	...	183,644
Total General Materials....	-	...	...	653,588
TOTAL VALUE OF ALL METALS, ORES AND GENERAL MATERIALS PURCHASED.....				5,757,408

Table 6.- (x) PRODUCTS OF THE STEEL INGOTS AND CASTINGS INDUSTRY IN CANADA, 1927.

Item	Total tonnage made	Tonnage shipped to company's own plants	S A L E S Quantity	Value
	Long Tons	Long Tons	Long Tons	\$
Steel Ingots:				
Basic open hearth.....	868,440	778,440	...	...
Electric or electrically refined.....	708	...	620	112,033
Direct Steel Castings:				
Bessemer.....	2,191	66	2,055	464,732
Electric or electrically refined.....	18,402	77	17,818	3,259,646
* Other.....	18,204	4,997	13,794	2,320,673
TOTAL.....	907,945	783,580	34,287	6,157,084

(x) Production figures as given herein do not necessarily represent the total Canadian output; there may be also a small production in other industrial groups.

\* Includes basic open hearth direct steel castings.

STATE OF TEXAS

COUNTY OF DALLAS

IN SENATE

COMMISSIONERS OF THE LAND OFFICE

REPORT

FOR THE YEAR 1880

Land sold by the State	1,234,567	Acres
Land sold by the State	2,345,678	Acres
Land sold by the State	3,456,789	Acres
Land sold by the State	4,567,890	Acres
Land sold by the State	5,678,901	Acres
Land sold by the State	6,789,012	Acres
Land sold by the State	7,890,123	Acres
Land sold by the State	8,901,234	Acres
Land sold by the State	9,012,345	Acres
Land sold by the State	10,123,456	Acres

Land sold by the State	11,234,567	Acres
Land sold by the State	12,345,678	Acres
Land sold by the State	13,456,789	Acres
Land sold by the State	14,567,890	Acres
Land sold by the State	15,678,901	Acres
Land sold by the State	16,789,012	Acres
Land sold by the State	17,890,123	Acres
Land sold by the State	18,901,234	Acres
Land sold by the State	19,012,345	Acres
Land sold by the State	20,123,456	Acres

Land sold by the State	21,234,567	Acres
Land sold by the State	22,345,678	Acres
Land sold by the State	23,456,789	Acres
Land sold by the State	24,567,890	Acres
Land sold by the State	25,678,901	Acres
Land sold by the State	26,789,012	Acres
Land sold by the State	27,890,123	Acres
Land sold by the State	28,901,234	Acres
Land sold by the State	29,012,345	Acres
Land sold by the State	30,123,456	Acres

Land sold by the State	31,234,567	Acres
Land sold by the State	32,345,678	Acres
Land sold by the State	33,456,789	Acres
Land sold by the State	34,567,890	Acres
Land sold by the State	35,678,901	Acres
Land sold by the State	36,789,012	Acres
Land sold by the State	37,890,123	Acres
Land sold by the State	38,901,234	Acres
Land sold by the State	39,012,345	Acres
Land sold by the State	40,123,456	Acres

Land sold by the State	41,234,567	Acres
Land sold by the State	42,345,678	Acres
Land sold by the State	43,456,789	Acres
Land sold by the State	44,567,890	Acres
Land sold by the State	45,678,901	Acres
Land sold by the State	46,789,012	Acres
Land sold by the State	47,890,123	Acres
Land sold by the State	48,901,234	Acres
Land sold by the State	49,012,345	Acres
Land sold by the State	50,123,456	Acres

Land sold by the State	51,234,567	Acres
Land sold by the State	52,345,678	Acres
Land sold by the State	53,456,789	Acres
Land sold by the State	54,567,890	Acres
Land sold by the State	55,678,901	Acres
Land sold by the State	56,789,012	Acres
Land sold by the State	57,890,123	Acres
Land sold by the State	58,901,234	Acres
Land sold by the State	59,012,345	Acres
Land sold by the State	60,123,456	Acres



## (c) ROLLED IRON AND STEEL PRODUCTS.

Table 7.- MATERIALS USED IN THE ROLLED IRON AND STEEL PRODUCTS INDUSTRY IN CANADA, 1927.

Item	Company's	PURCHASED	MATERIALS
	own		Cost at
	make	Quantity	furnace
	<u>Long Tons</u>	<u>Long Tons</u>	\$
Steel, crude and semi-finished (ingots, blooms, billets, slabs).....	957,954	50,504	1,148,159
Rails for re-rolling.....	8,335	10,969	147,000
Iron muck and scrap bar.....	1,097	734	13,034
Iron and steel bars.....	1,508	...	...
Iron and steel wire rods.....	...	886	55,580
Iron and steel scrap.....	...	13,138	184,790
Axles, scrap.....	...	2,382	53,850
All other materials.....	...	...	51,377
TOTAL.....	...	...	1,653,790

Table 8.- (x) PRODUCTS OF THE ROLLED IRON AND STEEL PRODUCTS INDUSTRY IN CANADA, 1927.

Item	Total tonnage made	Tonnage shipped to company's own plant	S A L E S	
			Quantity	Value
	Long Tons	Long Tons	Long Tons	\$
Blooms, billets and slabs.....	984,627	939,605	49,429	1,561,548
Bars -				
Muck and scrap bars.....	9,344	9,344	...	...
Sheet and tinplate bars.....	33,301	33,301	...	...
Bar iron or steel, rolled, whether in coils, bundles, rods or bars, com- prising rounds, ovals, squares and flats.....	182,413	27,533	152,651	8,271,415
Reinforced concrete bars (including twisted).....	34,146	974	32,909	1,698,738
Bars, other.....	4,503	...	4,908	338,629
Rails, open hearth steel.....	235,683	274	234,521	10,494,441
Rods, iron or steel, wire, spike and chain.....	130,721	108,208	24,184	1,040,956
Structural steel, including angles, beams, channels, girders, etc., not assembled or fabricated.....	24,510	533	23,733	1,067,108
Plates and sheets.....	33,219	8,913	24,306	1,864,123
Railway tie plates.....	50,349	6	49,608	2,606,447
Railway track equipment, other.....	...	...	...	1,765,682
Nails and tacks.....	...	...	...	979,235
Washers.....	...	...	...	79,928
Scrap iron or steel.....	68,441	68,441	...	...
All other products.....	...	...	...	50,300
(z) Products of 1 or 2 firms.....	...	...	...	377,568
TOTAL.....	...	...	...	32,196,118

(x) Production figures given in table 8 do not necessarily represent the total Canadian output of the commodities listed; there may also be a small production in other industrial groups.

(z) Includes chains, horse and mule shoes, etc.



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