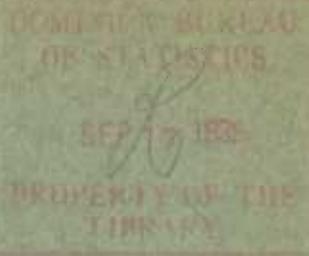


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CANADA  
DEPARTMENT OF TRADE AND COMMERCE  
DOMINION BUREAU OF STATISTICS  
CENSUS OF INDUSTRY  
MINING, METALLURGICAL & CHEMICAL BRANCH

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THE  
PRIMARY IRON AND STEEL INDUSTRY  
IN  
CANADA  
1937

(including pig iron, ferro-alloys, steel ingots  
and direct steel castings, and rolled iron  
and steel products.)

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OTTAWA  
1938

Price 15 cents



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MINING, METALLURGICAL AND CHEMICAL BRANCH  
OTTAWA - CANADA

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ANNUAL INDUSTRY REPORT

IRON AND STEEL AND THEIR PRODUCTS GROUP

THE PRIMARY IRON AND STEEL INDUSTRY, 1937

Statistics for the Primary Iron and Steel Industry include data for all establishments in Canada which were engaged chiefly in the manufacture of (a) pig iron, (b) ferro-alloys, (c) steel ingots and steel castings, (d) hot rolled iron and steel products, (e) cold rolled or cold drawn steel bars, strips and shapes. Forty firms were included in this industry in 1937 and reports were received for 55 different plants or departments, including 4 blast furnace departments, 4 ferro-alloy plants, 51 steel furnace divisions, and 16 rolling or drawing mills. Separate reports were received for blast furnace departments, steel furnace divisions and rolling mills even when they were really units of a single works.

Factory sales of pig iron, ferro-alloys, steel ingots and castings, and finished rolled products were 55 per cent higher in 1937 than in 1936, the values being \$72,280,669 and \$46,636,892, respectively. The 1937 figure was, in fact, the highest on record since 1920 being slightly above the 1929 total of \$72,231,995. The 25 works in Ontario reported sales at \$44,928,609 or 62 per cent of the total for Canada; 6 plants or departments in Nova Scotia accounted for \$14,885,059 or 20 per cent, and 14 works in Quebec for \$10,416,586 or 14 per cent. There were also 4 operating plants in Manitoba, 1 in Alberta, and 5 in British Columbia.

Capital employed in 1937 amounted to \$96,875,377, including \$65,896,014 as the value of land, buildings and plant equipment, \$21,377,846 as the value of inventories of raw and finished materials on hand and in process, and \$9,601,517 as the total of operating capital such as cash, bills and accounts receivable, etc. For works in Ontario the capital was \$59,959,463; for Nova Scotia, \$21,537,252; for Quebec, \$13,202,552; for Manitoba, \$2,032,194; and for Alberta and British Columbia, \$343,916.

The average number of employees in 1937 was 14,054, an increase of 26 per cent over the 1936 average of 11,138. About 981 persons worked in the blast furnace departments in 1937, 505 in ferro-alloy plants, 5,264 in steel furnace divisions, and 7,504 in rolling mills. About 59 per cent of the total, or 8,560, were employed in Ontario, 2,866 in Quebec, 2,316 in Nova Scotia, 387 in Manitoba, and 125 in Alberta and British Columbia.

Payments in salaries and wages amounted to \$19,926,498 in 1937, an advance of 44 per cent over the 1936 total of \$13,830,377. Salaries increased to \$2,643,902 from \$2,180,091 and wages rose to \$19,926,498 from \$13,830,377.

The cost of manufacturing materials was \$33,805,651 in 1937 compared with \$21,424,052 in 1936, and the cost of fuel and electricity was \$6,934,008 against \$5,440,129, an increase of 58 per cent for materials and 27 per cent for fuel and power.

PIG IRON -

The output of pig iron in 1937 amounted to 898,855 long tons, an advance of 32 per cent over the 1936 total of 678,231 tons and the highest tonnage on record since 1929 when 1,080,160 tons were made. Production of basic iron was given at 721,711 tons or 80 per cent of the total; malleable iron amounted to 71,735 tons and the foundry grade to 105,409 tons.

Producers' sales of pig iron in 1937 totalled 225,716 long tons valued at \$5,146,017 compared with 168,054 tons at \$3,327,716, an increase of 34 per cent in quantity and 55 per cent in value.

Imports of pig iron during the calendar year advanced to 6,371 long tons from 3,960 tons in 1936 and exports rose to 38,516 tons from 13,904 tons.

Stocks held by the producers increased to 112,287 tons at the end of 1937 from 76,829 tons at the close of the previous year.

The apparent consumption of pig iron in Canada during 1937, as computed by deducting the exports from the sum of production and imports and allowing for the change in producers' stocks, amounted to 831,252 tons compared with 678,804 tons in 1936 and 573,327 tons in 1935.

Charges to iron blast furnaces during 1937 included 1,604,073 long tons of iron ore, 890,584 short tons of coke, 470,549 short tons of limestone, 119,910 long tons of mill cinder, etc., and 16,467 long tons of scrap.

The four producers of pig iron in Canada have 10 blast furnaces available for use which, if operated at the rated capacity, could produce 1.45 million tons of pig iron per year. Actual production in 1937 at 898,855 tons was about 62 per cent of capacity. Only 6 blast furnaces were used during the year.

FERRO-ALLOYS -

Production of ferro-alloys of all kinds in 1937 amounted to 82,072 long tons compared with 76,284 tons in 1936 and 56,616 tons in 1935.

Ferrosilicon was made by 9 different concerns of which 5 recovered small tonnages as a by-product in the manufacture of fused alumina and 4 made various commercial grades as a primary part of their operations. The total quantity made, all grades, in 1937 was 32,542 long tons.

Spiagelaisen was made by two companies, ferromanganese by one company only, ferrochrome by two concerns, and ferrophosphorus by only one concern.

STEEL INGOTS AND STEEL CASTINGS -

Steel production advanced 26 per cent to 1,402,882 long tons in 1937 from 1,115,779 tons in the previous year, the output of ingots increasing to 1,356,228 tons from 1,081,549 tons and the production of castings advancing to 86,654 tons from 54,230 tons. Practically all of the ingots were transferred to the producers' rolling mills while most of the castings were made for sale. The factory sales of ingots and castings totalled 64,907 long tons valued at \$10,616,508 compared with 28,030 tons at \$4,788,296 in 1936.

The 31 steel plants which were in operation during 1937 operated 85 furnaces of which 41 were basic open hearth with total rated annual capacity of 1,828,000 long tons, 41 were electric furnaces with total capacity of 235,800 tons, and 3 were converters with total capacity of 3,800 tons. Two steel plants were idle during the year, 1 electric furnace in Ontario and 1 basic open hearth furnace in Alberta, with a combined capacity of about 40,000 tons per year. Steel ingots were made in 8 establishments; 5 made basic open hearth ingots only, 3 made electric ingots only, and 2 made both basic open hearth ingots and electric ingots. Steel castings were made in 27 works; 5 made basic open hearth castings only, 19 made electric castings only, 2 made converter castings only, 2 made both open hearth and electric castings, and 2 made both converter and electric castings.

Steel furnaces in operation in 1937 used 667,651 long tons of pig iron, 24,361 long tons of ferro-alloys, 896,242 long tons of scrap, 87,165 long tons of ore, 125,922 short tons of limestone, 9,039 short tons of fluorspar, 53,066 short tons of dolomite, and 8,994 short tons of magnesite.

ROLLED AND DRAWN STEEL -

In 1937 there were 15 hot rolling mills in operation, 1 cold rolling plant and 2 making cold drawn shapes. Nine of these mills were in Ontario, 3 in Quebec, 3 in Nova Scotia, and 1 in Manitoba. One rolling mill in Ontario and 1 in Alberta were idle throughout 1937.

The value of sales from these works amounted to \$52,916,950 in 1937, an increase of 47 per cent over the corresponding total of \$36,054,165 for 1936. The main items were - hot rolled bars, 287,067 long tons at \$18,066,438; plates, sheets and strips, 189,580 tons at \$11,261,521; rails and rail fastenings, 105,436 tons at \$4,976,628; semi-finished rolled forms, 187,070 tons at \$6,500,059; structural steel, 84,540 tons at \$4,605,796; wire rods, 86,177 tons at \$3,568,875; cold rolled and cold drawn bars, 15,022 tons at \$1,632,606, and miscellaneous products (not rolled), \$2,505,049.

The net amount of rolled forms produced in 1937 was 1,083,293 long tons, including 1,606 tons of iron and 1,081,687 tons of steel.

Imports of rolling mill products were valued at \$44,792,419 in 1937 compared with \$27,867,597 in 1936. Shipments from the United Kingdom were worth \$16,595,578, and purchases from the United States were appraised at \$26,507,317.

Table 1 - PROVINCIAL DISTRIBUTION OF ACTIVE PLANTS IN THE PRIMARY IRON AND STEEL INDUSTRY, 1937.

Province	No. of firms	PIG	IRON	STEEL	ROLLING	Ferro-
		No. of plants	No. of blast furnaces	INGOTS and CASTINGS	and Drawing Mills	alloys (a)
Nova Scotia .....	4	1	3	2	15	3
Quebec .....	13	...	...	10	17	3
Ontario .....	16	5	7	10	41	9
Manitoba .....	3	...	...	3	4	1
Alberta .....	1	...	...	1	1	...
British Columbia .....	5	...	...	5	9	...
CANADA .....	40	4	10	31	85	16
						4

(a) Not including plants which made ferrosilicon as a by-product.

Table 2 - PRINCIPAL STATISTICS OF THE PRIMARY IRON AND STEEL INDUSTRY, 1929 - 1937.

Years	No. of plants	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
1929 .....	45	109,446,529	11,218	18,534,681	6,691,961	32,514,596	72,231,995
1930 .....	49	112,079,926	9,723	14,934,325	5,182,136	22,765,648	52,588,935
1931 .....	53	104,512,104	8,026	11,072,054	3,757,243	15,291,414	36,911,245
1932 .....	52	96,323,629	4,847	6,131,057	2,367,122	6,289,483	16,197,526
1933 .....	50	96,444,846	5,200	6,049,189	2,699,837	7,598,931	18,492,549
1934 .....	51	90,079,004	7,400	9,009,512	3,969,136	12,673,398	29,101,463
1935 .....	53	86,465,490	9,523	12,279,390	4,845,559	18,539,072	38,700,961
1936 .....	55	92,103,774	11,138	13,850,377	5,440,129	21,424,052	46,636,892
1937 -							
Nova Scotia ...	6	21,337,252	2,316	3,342,720	1,515,253	7,086,235	14,883,039
Quebec .....	14	13,202,552	2,866	3,590,722	942,262	4,191,863	10,416,386
Ontario .....	25	59,959,463	8,760	12,723,970	4,255,030	21,903,343	44,928,609
Manitoba .....	4	2,032,194	387	507,625	192,270	533,946	1,606,032
Alberta .....	1)						
British Columbia	5)	343,916	125	161,461	29,193	90,244	446,603
CANADA .....	55	96,875,377	14,054	19,926,498	6,934,008	33,805,631	72,280,669

Table 3 - CAPITAL EMPLOYED, BY PROVINCES, 1936 and 1937.

Province	Number of plants	Present value of lands, buildings, machinery, tools and other equipment	Inventory value of materials on hand, stocks in process, fuel and finished products on hand	Operating capital (cash, bills and accounts receivable, prepaid expenses, etc.)	TOTAL CAPITAL EMPLOYED
<u>1936</u>					
Nova Scotia .....	6	13,722,967	4,305,861	2,083,442	20,112,270
Quebec .....	14	9,819,846	1,639,692	1,146,261	12,665,789
Ontario .....	25	40,466,999	10,342,786	6,517,271	57,527,056
Manitoba .....	4	788,548	436,580	240,543	1,465,671
Alberta .....	1)	179,668	78,387	74,933	332,998
British Columbia .	5)				
CANADA .....	55	65,178,028	16,863,296	10,062,450	92,103,774
<u>1937</u>					
Nova Scotia .....	6	14,854,893	4,621,230	1,861,129	21,337,252
Quebec .....	14	8,756,059	2,780,288	1,666,205	13,202,552
Ontario .....	25	41,320,578	12,977,537	5,661,348	59,959,463
Manitoba .....	4	764,603	916,885	350,706	2,032,194
Alberta .....	1)	199,881	81,906	62,129	343,916
British Columbia .	5)				
CANADA .....	55	65,896,014	21,377,846	9,601,517	96,875,377

Table 4 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1936 and 1937.

Province	Average number of employees				TOTAL EMPLOY- EES	Salaries	Wages	TOTAL SALARIES and WAGES				
	On salaries		On wages									
	Male	Female	Male	Female								
<b>1936</b>												
Nova Scotia .....	46	4	1,926	20	1,996	105,719	2,449,449	2,555,168				
Quebec .....	184	42	1,782	7	2,015	457,549	1,555,402	2,012,951				
Ontario .....	507	124	6,044	11	6,686	1,504,632	7,215,880	8,720,512				
Manitoba .....	27	3	296	1	527	80,925	528,975	409,900				
Alberta and British Columbia .....	18	2	94	...	114	55,268	100,580	155,848				
CANADA .....	782	175	10,142	59	11,138	2,180,091	11,650,286	13,830,377				
<b>1937</b>												
Nova Scotia .....	51	5	2,240	20	2,316	140,645	3,202,075	3,342,720				
Quebec .....	225	52	2,582	7	2,866	562,275	3,028,447	3,590,722				
Ontario .....	548	151	7,646	15	8,360	1,805,690	10,518,290	12,323,970				
Manitoba .....	27	4	355	1	387	102,304	405,521	507,625				
Alberta and British Columbia .....	19	2	104	...	125	32,998	128,463	161,461				
CANADA .....	870	214	12,927	43	14,054	2,643,902	17,282,596	19,926,498				

Table 5 - WAGE-EARNERS, BY MONTHS, 1936 and 1937.

Month	1 9 3 6			1 9 3 7		
	Male	Female	TOTAL	Male	Female	TOTAL
January .....	10,154	37	10,191	11,040	36	11,076
February .....	10,394	37	10,431	11,673	36	11,709
March .....	10,112	37	10,149	12,476	37	12,513
April .....	10,306	37	10,343	13,212	37	13,249
May .....	9,954	37	9,991	13,426	37	13,463
June .....	9,763	36	9,799	13,692	43	13,735
July .....	9,816	37	9,853	14,117	45	14,162
August .....	9,620	37	9,657	13,791	50	13,841
September .....	9,879	39	9,918	13,549	47	13,596
October .....	10,266	39	10,305	13,132	46	13,179
November .....	10,475	40	10,515	12,737	50	12,787
December .....	10,966	40	11,006	12,265	55	12,320
AVERAGE .....	10,142	39	10,181	12,927	43	12,970

Table 6 - REGULAR HOURS WORKED PER WEEK BY WAGE-EARNERS, 1936 and 1937.

(Based on data for month of highest employment)

Regular hours worked per week	Per cent of wage-earners	
	1936	1937
40 hours or less .....	5.1	5.6
41 - 43 hours .....	2.5	0.5
44 hours .....	2.4	1.2
45 - 47 hours .....	8.3	15.6
48 hours .....	52.2	58.3
49 - 50 hours .....	2.7	7.7
51 - 53 hours .....	2.2	0.6
54 hours .....	1.8	2.5
55 hours .....	2.7	7.1
56 - 59 hours .....	10.6	12.1
60 hours and over .....	9.5	9.0

Table 7 - FUEL AND ELECTRICITY USED, 1936 and 1937.

Kinds	Unit of measure	1 9 3 6		1 9 3 7	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Bituminous coal - Canadian .....	short ton	199,179	841,460	214,058	870,282
Imported .....	short ton	88,313	433,561	148,569	737,165
Anthracite coal .....	short ton	41	356	73	539
Coke (for fuel only) .....	short ton	67,357	163,288	65,967	161,141
Gasoline .....	Imp. gal.	67,494	12,458	87,943	16,467
Kerosene or coal oil .....	Imp. gal.	21,192	2,044	5,949	961
Fuel oil .....	Imp. gal.	11,910,728	682,776	19,702,096	1,183,349
Wood .....	cord	409	2,387	539	3,079
Gas - Manufactured (x) .....	M cu.ft.	30,728,410	1,491,399	36,159,341	1,613,567
Natural .....	M cu.ft.	12,841	6,804	16,218	8,523
Tar .....	Imp. gal.	1,535,954	82,379	950,822	45,044
Other fuel .....	\$	...	5,844	...	6,130
Electricity purchased .....	K. W. H.	352,225,845	1,714,873	566,962,288	2,287,761
<b>TOTAL .....</b>	<b>\$</b>	<b>...</b>	<b>5,440,129</b>	<b>...</b>	<b>6,934,008</b>
Electricity generated for own use ..	K. W. H.	3,270,000	...	6,338,000	...

(x) Includes blast furnace gas and coke-oven gas which was used in iron and steel departments.

Table 8 - POWER EQUIPMENT, 1937.

Kinds	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Steam engines and steam turbines .....	81	53,029	4	2,750
Gasoline, gas and oil engines .....	11	18,760	...	...
Hydraulic turbines or water wheels .....	4	1,300	...	...
<b>Total Primary .....</b>	<b>96</b>	<b>73,089</b>	<b>4</b>	<b>2,750</b>
Electric motors operated by purchased power .....	3,216	133,937	45	3,048
<b>TOTAL .....</b>	<b>3,312</b>	<b>207,026</b>	<b>49</b>	<b>5,798</b>
Electric motors operated by power generated by above primary units .....	1,142	32,920	27	902
<b>Total Electric Motors .....</b>	<b>4,358</b>	<b>166,857</b>	<b>72</b>	<b>3,950</b>
Boilers .....	127	48,554	6	2,000

(a) PIG IRON

Table 9 - MATERIALS CHARGED TO IRON BLAST FURNACES, 1936 and 1937.

Materials	1 9 3 6		1 9 3 7		
	Quantity	Cost at furnace \$	Quantity	Cost at furnace \$	
Foreign iron ore .....	long ton	1,218,823	4,010,500	1,604,073	5,372,263
Mill cinder, scale, etc. ....	long ton	49,091	144,725	119,910	376,162
Scrap (net charge) .....	long ton	20,386	177,923	16,467	159,825
Limestone -					
From Canadian quarries .....	short ton	120,275	148,523	162,531	207,264
From foreign sources .....	short ton	225,347	212,733	308,018	284,302
Coke .....	short ton	672,210	3,588,503	890,384	4,858,455
Other materials .....	\$	...	49,610	...	41,093
<b>TOTAL .....</b>	<b>\$</b>	<b>...</b>	<b>8,331,717</b>	<b>...</b>	<b>11,299,364</b>

Table 10 - PRODUCTION OF PIG IRON AND SALES BY THE PRODUCERS, 1936 and 1937.

Grades	Total tonnage made	S A L E S	
		Quantity Long tons	Income from sales \$
<u>1936</u>			
Basic .....	530,929	22,161	495,911
Foundry .....	85,043	83,552	1,622,190
Malleable .....	62,259	62,341	1,209,615
TOTAL .....	678,231	168,054	3,327,716
<u>1937</u>			
Basic .....	721,711	60,945	1,366,695
Foundry .....	105,409	98,181	2,270,774
Malleable .....	71,735	66,590	1,508,548
TOTAL .....	898,855	225,716	5,146,017

Table 11 - PRODUCTION OF PIG IRON, BY GRADES, 1927 - 1937.

(Long tons)

Years	Basic	Foundry	Malleable	TOTAL
1927 .....	523,701	145,787	40,209	709,697
1928 .....	724,559	233,386	79,782	1,037,727
1929 .....	770,478	221,644	88,038	1,080,160
1930 .....	494,231	193,074	59,873	747,178
1931 .....	311,850	80,892	27,296	420,038
1932 .....	105,058	25,246	15,826	144,130
1933 .....	189,428	22,333	15,556	227,317
1934 .....	310,631	50,923	43,441	404,995
1935 .....	468,244	62,294	69,337	599,875
1936 .....	530,929	85,043	62,259	678,231
1937 .....	721,711	105,409	71,735	898,855

Table 12 - PRODUCTION OF PIG IRON, BY PROVINCES, 1927 - 1937.

(Long tons)

Years	Nova Scotia	Ontario	TOTAL
1927 .....	249,549	460,148	709,697
1928 .....	302,756	734,971	1,037,727
1929 .....	310,801	769,359	1,080,160
1930 .....	212,636	534,542	747,178
1931 .....	101,393	318,645	420,038
1932 .....	30,697	113,433	144,130
1933 .....	118,514	108,803	227,317
1934 .....	133,360	271,635	404,995
1935 .....	208,002	391,873	599,875
1936 .....	257,148	421,083	678,231
1937 .....	320,318	578,537	898,855

Table 13 - PRODUCTION OF PIG IRON, BY MONTHS, 1932 - 1937.

(Long tons)

Months	1932	1933	1934	1935	1936	1937
January .....	10,305	20,209	30,677	44,416	61,336	66,400
February .....	10,507	6,144	12,199	37,259	55,751	61,995
March .....	17,989	...	12,101	44,727	54,009	70,986
April .....	16,898	...	27,355	43,388	54,045	68,138
May .....	15,339	...	38,189	45,432	58,832	78,147
June .....	8,163	857	37,306	44,555	56,362	78,278
July .....	7,317	31,689	36,759	50,513	34,988	79,736
August .....	5,992	35,253	41,485	54,414	58,570	74,578
September .....	5,709	30,738	43,019	54,360	51,892	76,180
October .....	6,731	27,002	46,573	45,521	70,051	80,922
November .....	14,149	29,592	38,968	64,562	74,337	81,463
December (x) .....	27,031	36,853	40,364	70,728	68,058	82,032
TOTAL .....	144,130	227,717	404,995	599,875	678,231	898,855

(x) Monthly errors are compensated in December entries.

Table 14 - PRODUCTION OF PIG IRON, BY GRADES AND BY METHOD OF CASTING OR DELIVERY, 1936 and 1937.  
(Long tons)

Grades	Delivered in molten condition	Machine cast	TOTAL
<b>1936</b>			
Basic .....	317,200	213,729	530,929
Foundry .....	800	84,243	85,043
Malleable .....	608	61,651	62,259
<b>TOTAL</b> .....	<b>318,608</b>	<b>359,623</b>	<b>678,231</b>
<b>1937</b>			
Basic .....	589,031	132,826	721,711
Foundry .....	...	105,409	105,409
Malleable .....	...	71,735	71,735
<b>TOTAL</b> .....	<b>589,031</b>	<b>309,824</b>	<b>898,855</b>

Table 15 - SALES OF PIG IRON BY THE PRODUCERS, 1927 - 1937. (Long tons)

Years	Tonnage sold	Income from sales	Years	Tonnage sold	Income from sales
		\$			\$
1927 .....	202,848	4,250,792	1933 .....	76,507	1,402,903
1928 .....	258,479	5,085,091	1934 .....	97,440	1,856,284
1929 .....	324,759	6,544,645	1935 .....	131,749	2,650,990
1930 .....	215,304	4,123,562	1936 .....	168,054	3,327,716
1931 .....	139,620	2,613,511	1937 .....	225,716	5,146,017
1932 .....	55,440	1,088,532			

Table 16 - IRON ORE, FUEL AND FLUX CHARGED TO IRON BLAST FURNACES, 1927 - 1937.

Years	Imported iron ore	Mill cinder, scale, etc.	Scrap	Coke	Limestone
	Long tons	Long tons	Long tons	Short tons	Short tons
1927 .....	1,263,990	77,826	43,120	798,803	407,403
1928 .....	1,801,687	127,753	55,588	1,121,864	566,170
1929 .....	1,924,579	120,779	61,255	1,171,171	559,032
1930 .....	1,528,929	94,766	35,909	796,040	401,688
1931 .....	745,951	56,525	16,272	448,845	224,786
1932 .....	253,337	16,297	4,145	155,932	77,086
1933 .....	400,290	17,992	10,879	247,974	132,235
1934 .....	718,237	37,043	12,461	415,462	209,104
1935 .....	1,039,234	55,269	30,714	577,555	278,469
1936 .....	1,218,823	49,091	20,386	672,210	345,622
1937 .....	1,604,073	119,910	16,467	890,584	470,549

Table 17 - IMPORTS INTO CANADA and EXPORTS OF PIG IRON, 1927 - 1937.

Years	I M P O R T S		E X P O R T S	
	Long tons	\$	Long tons	\$
1927 .....	40,922	781,832	344	7,752
1928 .....	43,307	791,733	1,043	20,642
1929 .....	32,548	624,891	7,478	151,967
1930 .....	13,643	270,157	593	12,658
1931 .....	7,912	148,951	2,787	55,183
1932 .....	4,753	78,845	2,029	38,816
1933 .....	2,459	43,298	11,903	214,195
1934 .....	6,419	108,500	9,221	176,093
1935 .....	8,920	143,726	13,759	287,396
1936 .....	3,960	74,589	13,904	304,682
1937 .....	6,371	144,354	58,516	851,701

Table 18 - STOCKS OF PIG IRON HELD BY PRODUCERS IN CANADA, 1931 - 1937.

Years	Long tons	Years	Long tons
1931 .....	128,222	1935 .....	87,546
1932 .....	113,739	1936 .....	76,829
1933 .....	109,507	1937 .....	112,287
1934 .....	65,537		

Table 19 - APPARENT CONSUMPTION OF PIG IRON IN CANADA, 1927 - 1937.

Years	Production	Add Imports	Deduct Exports	(Long tons)	
				Add or de- duct changes in stock	Apparent Consumption
1927 .....	709,697	40,922	344	Not	750,275
1928 .....	1,037,727	43,507	1,045		1,079,991
1929 .....	1,080,160	32,548	7,478	avail-	1,105,230
1930 .....	747,178	13,643	593		760,228
1931 .....	420,038	7,912	2,787	able	425,163
1932 .....	144,130	4,753	2,029	✓ 14,483	161,357
1933 .....	227,317	2,459	11,905	✓ 4,232	213,641
1934 .....	404,995	6,419	9,221	✓ 43,870	446,063
1935 .....	599,875	8,920	13,759	- 21,709	573,327
1936 .....	678,231	3,960	13,304	✓ 10,517	678,804
1937 .....	898,855	6,371	38,516	- 35,458	831,252

Table 20 - CONSUMPTION OF PIG IRON IN CANADA, BY INDUSTRIES AND BY PROVINCES, 1931 - 1936. (Long tons)

	1931	1932	1933	1934	1935	1936
<b>(a) By Industries</b>						
Steel ingots and castings .....	328,063	106,951	156,962	352,346	446,271	522,245
Castings and forgings .....	114,670	55,429	37,300	52,938	50,670	49,157
Boilers, tanks and engines .....	657	744	3,156	6,579	8,947	10,331
Agricultural implements .....	11,704	4,427	4,974	6,750	13,705	16,194
Machinery .....	8,837	4,913	4,091	6,608	8,070	9,969
Automobiles .....			(Not available)			
Automobile parts .....	35	1,823	2,000	4,105	5,634	6,517
Railway rolling stock .....	14,433	6,855	7,653	13,530	12,772	16,362
Brass and copper products .....	...	...	...	917	1,498	1,022
Sheet metal products .....	6	...	...	...	...	...
Hardware and tools .....	1,130	908	872	1,418	1,491	2,901
Miscellaneous iron and steel .....	168	272	220	242	314	385
Heating and cooking apparatus .....	(a)	(a)	(a)	(a)	14,596	18,721
Electrical apparatus and supplies ....	1,585	546	427	876	1,921	1,496
<b>TOTAL .....</b>	<b>481,288</b>	<b>182,868</b>	<b>217,655</b>	<b>446,309</b>	<b>565,889</b>	<b>655,296</b>

**(b) By Provinces**

Prince Edward Island .....	50	42	30	30	32	30
Nova Scotia .....	122,152	28,569	85,854	171,680	206,717	254,934
New Brunswick .....	1,287	689	971	1,926	1,953	5,073
Quebec .....	39,661	19,336	11,356	17,733	19,897	23,479
Ontario .....	315,221	132,181	117,954	253,255	335,182	371,241
Manitoba .....	1,415	1,274	822	880	1,192	1,478
Saskatchewan .....	...	...	...	...	...	...
Alberta .....	120	108	73	100	123	109
British Columbia .....	1,332	669	615	705	795	952
<b>CANADA .....</b>	<b>481,288</b>	<b>182,868</b>	<b>217,655</b>	<b>446,309</b>	<b>565,889</b>	<b>655,296</b>

(a) Included with castings and forgings.

Table 21 - BLAST FURNACES IN CANADA, 1937.

Names of Companies	Location of plants	Number of stacks	Total daily capacity (24 hours) (Long tons)	Number of days in blast		
				1935	1936	1937
Dominion Steel and Coal Corporation Ltd.	Sydney, N.S.	1	350	62	366	357
		1	300	...	92	...
		1	550	365	228	363
TOTAL .....		3	1,200	...	...	...
Canadian Furnace Company, Limited	Port Colborne, Ont.	1	350	238	224	245
The Steel Company of Canada, Limited	Hamilton, Ont.	1	275	...	165	365
		1	550	365	366	365
TOTAL .....		2	825	...	...	...
Algoma Steel Corporation, Limited	Sault Ste. Marie, Ont.	1	300	...	...	...
		1	300	...	...	...
		1	450	326	230	365
		1	550	...	...	...
TOTAL .....		4	1,600	...	...	...
TOTAL FOR CANADA .....		10	3,975	...	...	...

Table 22 - WHOLESALE PRICES OF PIG IRON IN CANADA, BY MONTHS, 1936 and 1937.

Months	No. 1 foundry, base silicon 2.25 max., (price per gross ton, car lots, f.o.b. sellers' works)		Standard malleable silicon 2.25 max., (price per gross ton, car lots, f.o.b. plant)		Basic silicon 1.30 max., (price per gross ton, f.o.b. plant)	
	1936	1937	1936(x)	1937	1936	1937
	\$	\$	\$	\$	\$	\$
January .....	20.50	21.50	19.00	22.50	18.00	19.00
February .....	20.50	22.50	19.00	22.50	18.00	21.00
March .....	20.50	25.50	19.00	22.50	18.00	23.00
April .....	20.50	25.50	19.00	23.50	18.00	23.00
May .....	20.50	25.50	19.00	23.50	18.00	23.00
June .....	20.50	25.50	19.00	23.50	18.00	23.00
July .....	20.50	25.50	19.00	23.50	18.00	23.00
August .....	20.50	25.50	19.00	23.50	18.00	23.00
September .....	20.50	25.50	19.00	23.50	18.00	23.00
October .....	20.50	25.50	19.00	23.50	18.00	23.00
November .....	20.50	25.50	19.00	23.50	18.00	23.00
December .....	21.50	25.50	20.00	23.50	19.00	23.00
AVERAGE .....	20.58	24.92	19.08	23.25	18.08	22.50

(x) Grade - base silicon 1.75 max. in 1936.

(b) FERRO-ALLOYS

Table 23 - PRODUCTION OF FERRO-ALLOYS, 1927 - 1937.

Years	Long tons	Years	Long tons
1927 .....	56,230	1933 .....	30,133
1928 .....	44,842	1934 .....	31,921
1929 .....	89,116	1935 .....	56,616
1930 .....	65,223	1936 .....	76,284
1931 .....	46,764	1937 .....	82,072
1932 .....	16,161		

Table 24 - PRODUCERS OF FERRO-ALLOYS IN CANADA, 1937.

Names of Companies	Plant locations	Ferro-alloys made
Abrasive Company of Canada, Ltd.	Hamilton, Ont.	Ferrosilicon
Canadian Carborundum Company, Ltd.	Niagara Falls, Ont.	Ferrosilicon
Canadian Furnace Company	Port Colborne, Ont.	Spiegeleisen
Chromium Mining & Smelting Company of Canada, Ltd.	Sault Ste. Marie, Ont.	Ferrosilicon and ferrochrome
Electro Metallurgical Company of Canada, Limited	Welland, Ont.	Ferrosilicon, ferrochrome, ferromanganese, silico manganese, spiegeleisen and silico spiegeleisen
Electric Reduction Company of Canada, Ltd.	Buckingham, P.Q.	Ferrophosphorus
Exolon Company	Thorold, Ont.	Ferrosilicon
Lionite Abrasives Ltd.	Stamford, Ont.	Ferrosilicon
Norton Company	Chippawa, Ont.	Ferrosilicon
Shawinigan Chemicals Limited	Shawinigan Falls, P.Q.	Ferrosilicon
St. Lawrence Alloys Ltd.	Beauharnois, P.Q.	Ferrosilicon

Table 25 - IMPORTS INTO CANADA and EXPORTS OF FERRO-ALLOYS, 1936 and 1937.

Items	1 9 3 6		1 9 3 7	
	short tons	\$	short tons	\$
<b>IMPORTS -</b>				
Ferromanganese, spiegeleisen and other alloys of manganese and iron containing not more than 1 percentum, by weight, of silicon .....	47	4,750	263	26,669
Ferromanganese, silico-spiegeleisen and other alloys of manganese and iron containing more than 1 percentum, by weight, of silicon .....	18	1,924	45	3,609
Ferrosilicon, being an alloy of iron and silicon containing 8 percentum or more, by weight, of silicon and less than 60 per centum .....	412	14,120	12	611
Ferrosilicon, being an alloy of iron and silicon containing 60 percentum or more, by weight, of silicon and less than 90 percentum .....	1	9	...	...
Ferrosilicon, being an alloy of iron and silicon containing 90 percentum or more, by weight, of silicon .....	...	...	1	38
Other alloys used in the manufacture of iron or steel ....	639	178,768	835	386,877
TOTAL .....	1,117	199,551	1,156	417,804
<b>EXPORTS -</b>				
Ferrosilicon .....	8,177	277,165	25,000	954,568
Ferromanganese and other ferro-alloys .....	49,586	1,254,799	23,603	1,081,711
TOTAL .....	57,763	1,531,964	48,603	2,056,079

(c) STEEL INGOTS AND DIRECT STEEL CASTINGS

Table 26 - MATERIALS USED IN STEEL FURNACES, 1936 and 1937.

Materials	1 9 3 6		1 9 3 7	
	Quantity	Cost of purchased materials	Quantity	Cost of purchased materials
	Long tons	\$	Long tons	\$
(a) Metals:-				
Pig iron - Own make .....	516,874	...	633,034	...
Purchased .....	5,369	123,172	34,597	773,104
Sponge iron .....	...	...	152	7,183
Spiegelisen .....	13,448	562,456	2,682	88,650
Ferromanganese .....	4,487	213,572	15,392	629,965
Ferrosilicon .....	546	106,961	6,562	297,912
Ferrochrome .....	14	31,630	867	167,531
Ferrovanadium .....	779	157,339	26	52,483
Other ferro-alloys .....	265,351	...	832	275,555
Scrap iron and steel - Own make .....	428,638	5,007,161	327,606	...
Purchased .....			568,636	8,371,995

Table 26 - MATERIALS USED IN STEEL FURNACES, 1936 and 1937. (concluded)

Materials	1 9 3 6		1 9 3 7	
	Quantity	Cost of purchased materials	Quantity	Cost of purchased materials
(a) Metals:- (concluded)	Long tons	\$	Long tons	\$
Metals for making alloy steels - Nickel .....	262	136,715	360	245,505
Other metals .....	397	98,332	517	193,473
Total Metals .....	...	6,437,538	...	11,103,364
(b) Ores:-				
Crude iron ore, imported .....	64,678	293,292	86,169	434,120
Calcined, roasted, or treated ore, imported ..	29	264	85	837
Manganiferous ore, imported .....	159	2,276	332	4,949
Chrome ore, imported .....	324	9,965	579	20,602
Total Ores .....	65,190	305,787	87,165	460,508
(c) Other Materials:-				
Limestone - Canadian .....	short tons		short tons	
- Foreign .....	42,556	70,716	96,010	135,697
Fluorspar .....	66,644	60,677	29,912	24,733
Dolomite .....	7,942	88,403	9,039	139,181
Magnesite .....	43,562	145,502	53,066	181,146
Coke .....	6,432	230,656	8,994	326,091
Anthracite coal .....	2,412	22,919	4,517	38,190
Bituminous coal .....	296	2,585	384	3,296
Charcoal .....	200	1,600	264	1,913
Electrodes .....	155	3,639	27,501	6,194
Moulding sands .....	...	154,727	...	226,128
Sand-blast sand .....	21,630	109,914	35,224	192,714
Firebrick and fireclay .....	1,790	11,228	1,791	14,796
Other materials .....	...	499,598	...	638,326
Total Other Materials .....	...	626,783	...	1,314,435
TOTAL VALUE OF METALS, ORES AND OTHER MATERIALS USED	...	8,772,072	...	14,806,712

Table 27 - PRODUCTION OF STEEL INGOTS AND DIRECT STEEL CASTINGS and SALES BY THE PRODUCERS, 1936 and 1937.

	1 9 3 6		:		1 9 3 7		SALES	
	Total tonnage of steel made (all kinds in- cluding alloys)	Quantity	Income from sales	Total tonnage of steel made (all kinds in- cluding alloys)		Quantity	Income from sales	
				Long tons	Long tons			
<b>STEEL INGOTS:</b>								
Basic open hearth .....	1,037,713	174	5,396	1,274,992	345	11,129		
Electric .....	43,856	...	...	61,236	...	...		
<b>Total steel ingots .....</b>	<b>1,081,549</b>	<b>174</b>	<b>5,396</b>	<b>1,336,228</b>	<b>345</b>	<b>11,129</b>		
<b>STEEL CASTINGS:</b>								
Basic open hearth .....	10,208	7,053	1,085,189	23,827	21,433	3,376,154		
Converter .....	575	582	119,507	1,016	1,043	222,310		
Electric .....	23,447	20,221	3,578,204	41,811	42,086	7,006,915		
<b>Total steel castings .....</b>	<b>34,230</b>	<b>27,856</b>	<b>4,782,900</b>	<b>66,654</b>	<b>64,562</b>	<b>10,605,379</b>		
<b>TOTAL STEEL INGOTS and CASTINGS</b>	<b>1,115,779</b>	<b>28,030</b>	<b>4,788,296</b>	<b>1,402,882</b>	<b>64,907</b>	<b>10,616,508</b>		
<b>Any other products .....</b>	...	...	...	...	...	...	11,726	
<b>TOTAL ALL PRODUCTS .....</b>	...	...	<b>4,788,296</b>	...	...	...	10,628,234	
<b>Alloy steel included in above:</b>								
Ingots .....	55,405	...	...	53,370	...	...		
Castings .....	10,081	NO DATA	...	4,086	3,957	952,051		
<b>TOTAL .....</b>	<b>45,484</b>	...	...	<b>57,456</b>	<b>3,957</b>	<b>952,051</b>		

Table 28 - PRODUCTION OF STEEL INGOTS AND DIRECT STEEL CASTINGS, BY GRADES, 1927 - 1937. (Long tons)

Years	STEEL INGOTS		DIRECT STEEL CASTINGS			Total steel ingots and castings
	Open hearth	Electric	Open hearth	Conver- ter	Electric	
1927 .....	868,440	154	17,589	2,191	19,611	907,945
1928 .....	1,189,399	602	20,109	2,019	22,590	1,234,719
1929 .....	1,295,162	14,444	35,806	2,590	30,022	1,378,024
1930 .....	925,427	30,051	24,772	2,314	27,014	1,009,578
1931 .....	612,437	25,017	14,760	590	19,305	672,109
1932 .....	308,700	19,670	2,616	846	7,514	339,346
1933 .....	378,666	15,393	5,017	288	10,615	409,979
1934 .....	713,227	23,891	6,457	507	13,700	757,782
1935 .....	872,444	36,742	9,119	645	22,577	941,527
1936 .....	1,037,713	43,836	10,208	575	23,447	1,115,779
1937 .....	1,274,992	61,236	23,827	1,016	41,811	1,402,882

Table 29 - PRODUCTION OF STEEL INGOTS AND DIRECT CASTINGS, BY MONTHS, 1932 - 1937. (Long tons)

Months	1932	1933	1934	1935	1936	1937
January .....	25,060	40,766	60,787	59,526	100,225	115,257
February .....	28,469	12,374	57,999	56,006	93,365	111,823
March .....	43,572	11,212	72,923	57,840	101,092	125,104
April .....	36,030	11,384	70,363	68,530	107,220	121,426
May .....	29,239	23,126	71,437	72,811	94,602	120,843
June .....	18,118	31,602	64,013	75,450	82,196	118,744
July .....	27,506	49,076	66,647	86,101	68,793	122,968
August .....	26,710	48,659	63,504	82,488	80,164	126,695
September .....	23,139	38,630	57,489	90,952	86,077	114,622
October .....	17,102	48,496	57,975	95,016	98,350	114,527
November .....	57,088	43,099	57,050	94,074	98,534	110,688
December..(x) .....	27,313	51,555	57,595	104,733	105,181	100,205
TOTAL .....	339,346	409,979	757,792	941,527	1,115,779	1,402,882

(x) Monthly errors are compensated in December entries.

Table 30 - ANNUAL PRODUCTION OF STEEL INGOTS AND DIRECT STEEL CASTINGS, BY PROVINCES, 1927 - 1937. (Long tons)

Years	Nova Scotia	Quebec	Ontario	Manitoba	Alberta	British Columbia	CANADA
1927 .....	297,637	22,297	567,119	20,318	...	574	907,945
1928 .....	391,783	24,583	780,511	36,486	361	995	1,234,719
1929 .....	407,062	42,212	899,911	27,425	298	1,116	1,378,024
1930 .....	296,552	45,171	639,128	19,121	8,377	1,229	1,009,578
1931 .....	172,529	35,834	442,231	14,020	6,685	810	672,109
1932 .....	68,630	19,010	243,047	6,412	1,880	367	339,346
1933 .....	124,134	18,917	257,615	8,509	206	598	409,979
1934 .....	260,825	27,744	457,497	9,912	388	1,416	757,782
1935 .....	298,769	35,076	589,558	16,254	370	1,500	941,527
1936 .....	379,018	39,792	675,887	19,199	272	1,611	1,115,779
1937 .....	427,104	60,815	887,906	24,536	559	2,162	1,402,882

Table 31 - SALES OF STEEL INGOTS AND DIRECT CASTINGS BY THE PRODUCERS, 1927 - 1937.

Years	Tonnage sold	Income from sales	Years	Tonnage sold	Income from sales		
	Long tons	\$		Long tons	\$		
1927 .....	34,287	6,157,084	1933 .....	14,934	2,365,171		
1928 .....	38,444	7,022,696	1934 .....	20,139	3,228,451		
1929 .....	61,981	10,282,460	1935 .....	35,592	4,196,922		
1930 .....	48,563	8,015,707	1936 .....	28,030	4,788,296		
1931 .....	50,831	5,143,495	1937 .....	64,907	10,616,508		
1932 .....	11,543	1,913,157					

Table 32 - METAL, ORE and FLUX CHARGED TO STEEL FURNACES, 1927 - 1937.

Years	Ferro-			Scrap		Lime- stone	Fluorspar and dolomite
	Pig Iron	manganese and spiegel- eisen	Other ferro- alloys	iron and steel	Ore		
	Long tons	Long tons	Long tons	Long tons	Long tons	Short tons	Short tons
1927 .....	515,574	7,164	4,083	466,679	61,698	107,644	26,674
1928 .....	698,792	9,834	5,486	630,817	81,629	148,545	51,077
1929 .....	761,878	11,769	6,189	736,275	95,059	154,238	29,794
1930 .....	520,562	9,087	5,232	573,050	61,223	109,119	19,282
1931 .....	328,063	6,339	3,442	401,450	32,529	74,524	20,742
1932 .....	106,951	3,878	2,363	269,202	8,750	27,706	8,978
1933 .....	156,962	4,157	3,182	308,326	18,151	34,532	9,823
1934 .....	352,346	6,771	4,041	480,679	34,844	77,815	19,303
1935 .....	446,271	10,733	3,867	641,659	50,520	91,412	24,253
1936 .....	522,243	13,448	5,826	693,989	65,190	109,200	51,504
1937 .....	667,631	16,074	8,287	896,242	87,165	125,922	62,105

Table 33 - STEEL FURNACES IN CANADA, 1937.

Names of companies and location of furnaces	Type	FURNACES		
		Number of units	Size (in tons per heat)	Total rated annual capacity
		Long tons	Long tons	
J. W. Cumming Manufacturing Co. Ltd. New Glasgow, N.S.	Electric (Heroult)	1	4	6,000
Dominion Steel and Coal Corp. Ltd., Sydney, N.S.	Basic open hearth Basic open hearth Electric	10 2 1	50 100 10	285,710 114,290 25,000
Canadian Brake Shoe & Foundry Co. Ltd., Sherbrooke, P.Q.	Electric (Heroult) Electric (Heroult)	1 2	1 2	2,000 2,500
Canadian Car & Foundry Co. Ltd., Montreal, P.Q.	Basic open hearth Electric (Volta)	3 1	22 3	32,044 5,357
Canadian Tube & Steel Products Ltd., Montreal, P.Q.	Electric (Volta)	3	4½	48,600
Hull Iron & Steel Foundries, Ltd., Hull, P.Q.	Electric (Heroult)	1	6	5,000
Joliette Steel Limited, Joliette, P.Q.	Electric (Greaves- Etchell)	1	1½	2,400
La Compagnie F. X. Drolet, Quebec, P.Q.	Converter (Baillot)	1	1	300
Lynn MacLeod Engineering Supplies, Ltd., Thetford Mines, P.Q.	Electric (Heroult)	1	½	310
Manganese Steel Castings Limited, Sherbrooke, P.Q.	Electric (Heroult)	1	2	600
Shawinigan Chemicals Limited, Shawinigan Falls, P.Q.	Electric (Volta) Electric (Heroult)	1 1	1 2	625 1,250
Sorel Steel Foundries, Limited, Sorel, P.Q.	Electric (Lectromelt)	1	1½	2,400

Table 35 - STEEL FURNACES IN CANADA, 1937. (continued)

Names of companies and location of furnaces	Type	FURNACES		
		Number of units	Size (in tons per heat)	Total rated annual capacity
		Long tons	Long tons	
Algoma Steel Corporation, Limited, Sault Ste. Marie, Ont.	Basic open hearth	8	55	500,000
	Basic open hearth	3	110	250,000
Burlington Steel Co. Ltd., Hamilton, Ont.	Electric (Lectromelt)	1	6	21,000
Canada Electric Castings, Ltd., Orillia, Ont.	Electric (Heroult)	1	2	4,200
	Electric (Heroult)	1	1	2,100
Canadian Atlas Steels Ltd., Welland, Ont.	Electric (Heroult)	1	4	7,500
Dominion Foundries & Steel Ltd., Hamilton, Ont.	Basic open hearth	3	40	125,000
	Electric (Heroult)	2	10	40,000
Fahralloy Canada Ltd., Orillia, Ont.	Electric (Volta)	1	1½	3,000
	Electric (Volta)	1	1½	3,000
Ford Motor Company of Canada, Ltd., Windsor, Ont.	Electric (Swindel)	1	3	13,400
	Electric (Swindel)	1	3	6,700
	Electric (Moore)	1	3	6,700
The William Kennedy & Sons, Limited, Owen Sound, Ont.	Converter (Tropenas)	1	2½	2,000
The Steel Company of Canada, Limited, Hamilton, Ont.	Basic open hearth	4	50	270,000
	Basic open hearth	3	150	270,000
	Basic open hearth	3	95	141,000
Welland Electric Steel Foundry, Welland, Ont.	Electric (Heroult)	1	1½	5,500
	Electric (Heroult)	1	1½	5,500
	Electric (Heroult)	1	1½	5,500
Manitoba Rolling Mill Company, Ltd., Selkirk, Man.	Basic open hearth	2	18½	40,000
Manitoba Steel Foundries Limited, Selkirk, Man.	Electric (Lectromelt)	1	1½	5,000
Vulcan Iron Works Limited, Winnipeg, Man.	Electric (Moore Lectromelt)	1	1½	1,500
Riverside Iron Works, Limited, Calgary, Alberta	Electric (Greene)	1	1½	3,000
Britannia Mining & Smelting Co., Britannia Beach, B.C.	Electric (Greene)	1	1½	1,500
Consolidated Mining & Smelting Co. Ltd., Trail, B.C.	Electric (Greene)	1	3½	4,500
Reliance Foundry Co. Ltd., Vancouver, B.C.	Electric	1	½	500
	Electric	1	1	1,000

Table 33 - STEEL FURNACES IN CANADA, 1937. (concluded)

Names of companies and location of furnaces	Type	FURNACES			Total rated annual capacity Long tons
		Number of units	Size (in tons per heat)	Long tons	
Vancouver Engineering Works, Ltd., Vancouver, B.C.	Converter	1	1	1,500	
	Electric (Greaves-Etchell)	1	1½		3,000
	Electric (Arnold)	1	1 )		
Wallace Foundry Co. Ltd., Vancouver, B.C.	Electric (Greene)	1	1	700	
	Electric (Greene)	1	5		3,000

Table 34 - SUMMARY OF STEEL FURNACE CAPACITY IN CANADA, 1937.

Type of furnace	Number of furnaces	Total rated annual capacity (Long tons)
Basic open hearth .....	41	1,828,000
Electric .....	41	235,800
Converter .....	3	3,800
TOTAL .....	85	2,067,600

Table 35 - MATERIALS USED IN IRON AND STEEL ROLLING AND DRAWING MILLS, 1936 and 1937.

Materials	1 9 3 6 : PURCHASED			1 9 3 7 : PURCHASED		
	Companies' own make	Quantity	Cost at works	Companies' own make	Quantity	Cost at works
	Long tons	Long tons	\$	Long tons	Long tons	\$
Steel, crude and semi-finished (ingots, blooms, billets, slabs) ....	1,127,220	30,606	1,125,842	1,400,569	72,817	2,773,147
Rails, old .....	1,112	25,874	364,642	473	35,943	725,491
Axes, old .....	...	4,413	63,512	...	5,655	111,354
Other iron and steel scrap .....	4,155	281	6,605	2,957	706	11,962
Hot rolled steel bars for cold rolling or drawing .....	...	19,087	957,523	...	26,988	1,631,932
All other iron and steel .....	2,618	992	55,893	...	...	...
All other materials .....	...	...	410,196	...	...	612,994
TOTAL .....	...	...	2,984,213	...	...	5,866,880

Table 36 - PRODUCTS MADE IN IRON AND STEEL ROLLING AND DRAWING MILLS, 1936 and 1937.

Products	FACTORY SALES		
	Total Tonnage	Tonnage sold in Canada or made for export	Income from Tonnage sold
	Long tons	Long tons	\$
<u>1 9 3 6</u>			
<u>Semi-finished rolled forms of iron and steel -</u>			
Blooms, billets and slabs, except those for forging, but including sheet and tinplate bars .....	702,633	110,637	2,902,013
Muck and scrap bar .....	1,390	...	...
Blooms, billets and axle blanks, for forging purposes only, excluding all those intended for further rolling .....	6,232	4,962	249,554
Total Semi-finished rolled forms .....	710,255	115,599	3,151,567
<u>Rails and rail fastenings -</u>			
Rails .....	116,192	117,154	4,885,388
Splice bars or fish plates .....	5,030	5,189	333,712
Tie plates .....	23,418	22,831	1,136,175
Total rails and rail fastenings .....	144,640	145,174	6,355,275

Table 56 - PRODUCTS MADE IN IRON AND STEEL ROLLING AND DRAWING MILLS, 1956 and 1957. (continued)

Products	FACTORY SALES		
	Total tonnage made	Tonnage sold in Canada or for export	Income from tonnage sold
	Long tons	Long tons	\$
<u>1 9 5 6 (concluded)</u>			
Wire rods of iron or steel, including chain rods .....	206,185	87,825	5,152,811
Structural steel shapes (including angles, beams, channels, tees, etc., but excluding plates and bars) .....	37,087	36,426	1,855,257
<u>Bars of iron or steel</u> -			
Bars, hot rolled, of all grades in rounds, squares, flats (6 in. and under) but omitting all bars reported under the items immediately below .....	145,575	135,786	6,850,928
Bars rolled from alloy steel .....	16,159	15,256	1,466,617
Bars for concrete reinforcing, including rounds, squares, twisted, deformed, corrugated and all other bars for reinforcing concrete	42,650	39,321	1,811,779
Long angle splice bars, tie plate bars and all other long rail joint bars .....	32,564	...	...
All other bars, including spike rods, bolt stock, horseshoe bars, toe calk steel and all other finished rolled forms not elsewhere specified .....	16,063	4,888	245,095
Total hot rolled bars .....	252,809	195,251	10,374,417
Cold rolled and cold drawn finished shapes .....	16,753	16,840	1,585,705
Plates and sheets including universal plates (including flats over 6 in.) boiler plates, other plates, plain sheets, hot rolled strip, galvanized sheets(x), and tinplate(x) .....	144,760	136,592	8,046,825
Miscellaneous products (not rolled) made in rolling mills, including horseshoes, grinding balls, washers, forged axles, railway spikes, pressed spikes, etc. .....	...	...	1,572,508
TOTAL VALUE OF PRODUCTION .....	...	...	56,054,165
<u>1 9 5 7</u>			
<u>Semi-finished rolled forms of iron and steel</u> -			
Blooms, billets and slabs, except those for forging, but including sheet and tinplate bars .....	1,250,931	162,242	5,128,779
Muck and scrap bar .....	1,077	...	...
Blooms, billets and axle blanks, for forging purposes only, excluding all those intended for further rolling .....	37,259	24,328	1,171,260
Total semi-finished rolled forms .....	1,289,267	187,070	6,300,039
<u>Rails and rail fastenings</u> -			
Rails .....	77,618	77,245	3,422,501
Splice bars or fish plates .....	6,362	6,411	450,204
Tie plates .....	20,789	21,780	1,123,925
Total rails and rail fastenings .....	104,769	105,436	4,976,628
Wire rods of iron or steel, including chain rods .....	216,154	86,177	3,588,873
Structural steel shapes (including angles over 3 inches by 3 inches, beams, channels, tees, sheet piling, etc., but excluding plates and bars) .....	83,285	84,540	4,605,796

Table 36 - PRODUCTS MADE IN IRON AND STEEL ROLLING AND DRAWING MILLS, 1936 and 1937. (concluded)

Products	FACTORY SALES		
	Total tonnage made	Tonnage sold in Canada or for export	Income from tonnage sold
Long tons	Long tons	\$	
<u>1 9 3 7 (concluded)</u>			
<u>Bars of iron or steel -</u>			
Bars, hot rolled, of all grades in rounds, squares, flats and angles up to and including 3 inches by 3 inches but omitting all bars reported under the items immediately below ..	232,441	211,498	12,327,100
Bars rolled from alloy steel .....	27,317	27,372	2,929,659
Bars for concrete reinforcing, including twisted and other de- formed bars, except bars rolled from old rails or axles .....	20,716	20,473	1,240,749
Bars rolled from old rails or axles .....	25,785	24,654	1,338,785
Long angle splice bars, tie plate bars and all other long rail joint bars .....	27,194	...	...
All other bars, including spike rods, bolt stock, horseshoe bars, toe calk steel and all other finished rolled forms not elsewhere specified .....	13,567	3,070	230,145
Total hot rolled bars .....	347,020	287,067	18,066,438
<u>Cold rolled and cold drawn bars</u> .....	15,030	15,022	1,632,606
<u>Plates, all kinds (iron or steel flats over 14 inches in width, and thicker than No. 7 U.S. standard gauge )</u> .....	85,359	85,044	4,673,959
<u>Sheets, hoops, band and strips, including plain sheets, hot rolled strips, cold rolled strips, and galvanized sheets(x) and tinplate(x) .....</u>	104,109	104,536	6,587,562
Total plates and sheets .....	189,468	189,580	11,261,521
<u>Miscellaneous products (not rolled) made in rolling mills, in- cluding horseshoes, grinding balls, washers, forged axles, rail- way spikes, pressed spikes, etc. .....</u>	...	...	2,505,049
<u>TOTAL VALUE OF PRODUCTION</u> .....	...	...	52,916,950
Net tonnage of rolled iron and steel products made during 1937 - Iron .....		1,606 gross tons	
Steel .....		1,081,687 gross tons	
(x) Includes only the tonnages of galvanized sheets and tinplate made in rolling mills. These tonnages included in sales figures only.			

Table 57 - AVERAGE WHOLESALE PRICES FOR PIG IRON, STEEL BILLETS and CERTAIN ROLLING MILL PRODUCTS,  
1935, 1936 and 1937.

Commodities	Unit	Average	Average	Average
		price 1935	price 1936	price 1937
Pig iron, No. 1 foundry .....	per gross ton, f.o.b. works .....	20.50	20.58	24.92
Pig iron, malleable .....	per gross ton, f.o.b. works .....	19.00	19.08	23.25(a)
Pig iron, basic .....	per gross ton, f.o.b. works .....	18.10	18.08	22.50
Steel billets, mild, 4x4 and larger .....	per gross ton, f.o.b. works .....	34.00	34.17	41.17(b)
Steel bars, structural grade .....	per 100 pounds, f.o.b. works .....	2.15	2.16	2.56
Merchant bars, mild steel .....	per 100 pounds, f.o.b. works .....	2.25	2.26	2.66
Steel rails, open hearth .....	per gross ton, f.o.b. plant .....	43.00	43.17	46.67
Steel tank plates .....	per 100 pounds, f.o.b. Pittsburgh ..	1.81	1.86	2.22
Light cold rolled sheets, No. 20, U.S.G. .	per 100 pounds, f.o.b. Pittsburgh ..	2.97	3.02	3.50
Galvanized corrugated iron sheets, No. 28, U.S.G. ....	per 100 sq.ft., f.o.b. destination	4.85	5.06	6.19
Hot rolled and annealed steel sheets, No. 24, U.S.G. .....	per 100 pounds, f.o.b. Montreal ..	3.39	3.54	4.60
Hot rolled and annealed sheets, No. 10, U.S.G. ....	per 100 pounds, f.o.b. Montreal ..	3.25	3.28	4.18
Mild steel tank plates, 1/4 - 1/8" thick- ness .....	per 100 pounds, f.o.b. Montreal ..	3.15	3.16	3.88

Table 37 - AVERAGE WHOLESALE PRICES FOR PIG IRON, STEEL BILLETS and CERTAIN ROLLING MILL PRODUCTS, 1935, 1936 and 1937. (concluded)

Commodities	Unit	Average price 1935	Average price 1936	Average price 1937
Steel sheets, black, No. 10, U.S.G. ... per 100 pounds, f.o.b. Montreal ...		3.40	3.46	4.40
Iron boiler plate, $\frac{1}{2}$ inch thickness ... per pound net, f.o.b. Montreal ....		0.03	0.03	0.04
Tinplate, standard coke ..... per box, f.o.b. Montreal, car lots.		6.08	6.10	7.19
Structural shapes, open hearth ..... per 100 pounds, f.o.b. works .....		2.00	2.01	2.49

(a) New grade base silicon 2.25 max.

(b) New grade base 6 x 6 to 9 x 9.

Table 38 - PRODUCTION AND FACTORY SALES OF STEEL RAILS, 1927-1937.

Years	Tonnage made	Factory Sales	
		Tonnage sold	Income from sales
1927	Long tons 235,683	Long tons 234,521	\$ 10,494,441
1928	349,189	349,007	16,109,847
1929	383,002	381,674	17,543,906
1930	233,432	232,414	10,504,700
1931	140,145	135,975	6,238,208
1932	45,090	46,220	2,123,150
1933	67,835	69,052	2,899,750
1934	96,689	88,023	3,660,274
1935	109,198	109,240	4,484,594
1936	116,192	117,154	4,885,588
1937	77,618	77,245	3,422,501

Table 39 - PRODUCTION OF FINISHED RAIL FASTENINGS, 1927 - 1937.

Years	TIE PLATES			FISH PLATES AND SPLICE BARS		
	Quantity made	Factory Sales		Quantity made	Factory Sales	
		Quantity	Income from sales		Quantity	Income from sales
Long tons	Long tons	\$		Long tons	Long tons	\$
1927	50,632	49,864	2,623,839	9,159	9,282	594,939
1928	70,613	71,523	3,910,522	17,549	15,179	957,447
1929	60,191	59,323	3,168,851	18,626	18,853	1,188,486
1930	42,205	43,017	2,359,710	12,245	13,277	849,507
1931	30,402	31,661	1,691,098	8,616	9,357	591,407
1932	7,047	6,982	353,714	2,120	1,574	105,241
1933	4,071	4,074	229,942	4,903	1,085	78,047
1934	16,003	16,482	834,258	3,190	3,499	224,457
1935	18,222	18,438	944,342	5,458	5,370	344,711
1936	23,418	22,831	1,136,175	5,030	5,189	333,712
1937	20,789	21,780	1,123,923	6,362	6,411	430,204

Table 40 - PRODUCTION AND FACTORY SALES OF WIRE RODS, OF IRON OR STEEL, 1927 - 1937.

Years	Total tonnage made	FACTORY SALES	
		Tonnage sold	Income from sales
Long tons	Long tons	Long tons	\$
1927	115,245	24,184	1,040,956
1928	144,509	45,052	1,765,168
1929	142,589	53,632	1,516,546
1930	108,992	24,889	987,405
1931	78,153	18,839	726,442
1932	76,589	26,668	1,022,515
1933	88,692	29,111	1,104,532
1934	175,585	76,992	2,705,167
1935	183,469	68,398	2,412,244
1936	206,185	87,825	3,132,811
1937	216,154	86,177	3,568,873

Table 41 - PRODUCTION AND FACTORY SALES OF BLOOMS, BILLETS AND SLABS, 1927 - 1937.

Years	EXCEPT FOR FORGING(x)			FOR FORGING		
	Total tonnage made	FACTORY Tonnage sold	Income from sales	Total tonnage made	FACTORY Tonnage sold	Income from sales
	Long tons	Long tons	\$	Long tons	Long tons	\$
1927 .....	984,627	49,429	1,561,548	Included with "except for forging"		
1928 .....	1,058,321	80,401	2,581,638			
1929 .....	1,159,045	74,402	2,488,945	9,058	4,558	192,304
1930 .....	756,778	60,171	2,017,747	12,142	6,964	320,673
1931 .....	484,437	50,499	1,601,299	3,821	2,148	92,372
1932 .....	220,576	12,464	412,049	1,243	931	56,862
1933 .....	224,458	8,733	260,978	1,497	1,159	69,457
1934 .....	505,304	54,771	1,440,318	3,133	2,027	110,118
1935 .....	667,442	71,711	1,899,030	5,460	3,505	173,298
1936 .....	704,023	110,637	2,902,013	6,232	4,962	249,554
1937 .....	1,252,008	162,242	5,128,779	37,259	24,628	1,171,280

(x) Includes sheet and tinplate bars and muck and scrap bar for 1933 to 1937.

Table 42 - PRODUCTION OF HOT ROLLED BARS OF ALL KINDS, 1931 - 1937.

Years	Total tonnage made	FACTORY		SALES Income from sales
		Tonnage	sold	
	Long tons	\$		
1931 .....	209,802	144,968		7,508,040
1932 .....	89,877	69,423		3,629,007
1933 .....	84,007	74,530		4,121,813
1934 .....	165,368	118,811		6,642,541
1935 .....	217,477	133,665		9,032,553
1936 .....	252,809	193,251		10,374,417
1937 .....	347,020	287,067		18,066,438

Table 43 - PRODUCTION OF STRUCTURAL STEEL SHAPES, OF ALL KINDS, 1931 - 1937.

Years	Total tonnage made	FACTORY		SALES Income from sales
		Quantity	sold	
	Long tons	Long tons	\$	
1931 .....	33,867	32,010		1,627,545
1932 .....	14,290	12,896		671,702
1933 .....	16,153	15,974		740,200
1934 .....	23,070	23,258		1,104,324
1935 .....	37,972	39,068		1,937,695
1936 .....	37,087	36,426		1,835,257
1937 .....	83,285	84,340		4,605,796

#### DIRECTORY OF FIRMS IN THE PRIMARY IRON AND STEEL INDUSTRY, 1937.

##### Names of Firms

##### Location of Plants

##### (a) PIG IRON

Dominion Steel & Coal Corporation, Limited  
 Algoma Steel Corporation, Limited  
 Canadian Furnace Co. Ltd.  
 Steel Company of Canada, Limited

Sydney, N.S.  
 Sault Ste. Marie, Ont.  
 Port Colborne, Ont.  
 Hamilton, Ont.

##### (b) FERRO-ALLOYS (A)

Canadian Furnace Co. Ltd.  
 Chromium Mining and Smelting Co. of Canada, Ltd.  
 Electro Metallurgical Company of Canada, Limited  
 St. Lawrence Alloys, Ltd.

Port Colborne, Ont.  
 Sault Ste. Marie  
 Welland, Ont.  
 Beauharnois, P.Q.

(A) Not including the firms which made ferro-alloys as secondary products.

DIRECTORY OF FIRMS IN THE PRIMARY IRON AND STEEL INDUSTRY, 1957 (continued)

Names of Firms

Location of Plants

(c) STEEL INGOTS AND DIRECT STEEL CASTINGS

Cumming, J. W., Manufacturing Co. Ltd.	Glasgow St., New Glasgow, N.S.
Dominion Steel & Coal Corporation, Limited	Sydney, N.S.
Canadian Brake Shoe & Foundry Co. Ltd.	101 Belvidere St., Sherbrooke, P.Q.
Canadian Car and Foundry Co., Limited	Longue Pointe, Montreal, P.Q.
Canadian Tube & Steel Products, Limited	5900 St. Patrick St., Montreal, P.Q.
Hull Iron & Steel Foundries, Limited	207 Montcalm St., Hull, P.Q.
Joliette Steel, Limited	Laval St., Joliette, P.Q.
La Compagnie F. X. Drolet	206 rue du Pont, Quebec, P.Q.
Lynn MacLeod Engineering Supplies Ltd.	Notre Dame St., Thetford Mines, P.Q.
Manganese Steel Castings Limited	Abenaquis St., Sherbrooke, P.Q.
Shawinigan Chemicals Ltd. (Stainless Steel and Alloys Division)	Shawinigan Falls, P.Q.
Sorel Steel Foundries Limited	7 Limoges St., Sorel, P.Q.
Algoma Steel Corporation, Limited	Sault Ste. Marie, Ont.
Burlington Steel Co. Ltd.	Sherman Ave. N., Hamilton, Ont.
Canada Electric Castings Limited	West St., Orillia, Ont.
Canadian Atlas Steels Ltd.	East Main St., Welland, Ont.
Dominion Foundries & Steel Limited	Depew St., Hamilton, Ont.
Fahralloy, Canada, Ltd.	Barrie Road, Orillia, Ont.
Ford Motor Company of Canada, Limited	Windsor, Ont.
Kennedy, William, & Sons, Limited	Second Ave. W., Owen Sound, Ont.
Steel Company of Canada, Limited	Wilcox St., Hamilton, Ont.
Welland Electric Steel Foundry	123 Victoria St., Welland, Ont.
Manitoba Rolling Mill Company Limited	Selkirk, Man.
Manitoba Steel Foundries Limited	Pt. Douglas Ave., Winnipeg, Man.
Vulcan Iron Works Limited	803 .. 24th Avenue S.E., Calgary, Alberta
Riverside Iron Works, Limited	Britannia Beach, B.C.
Britannia Mining and Smelting Co. Ltd.	Trail, B.C.
Consolidated Mining and Smelting Company of Canada, Ltd.	149 Fourth Ave. W., Vancouver, B.C.
Reliance Foundry Co. Ltd.	519 Sixth Avenue W., Vancouver, B.C.
Vancouver Engineering Works Ltd.	Granville Island, Vancouver, B.C.
Wallace Foundry Co. Ltd.	

(d) HOT ROLLED IRON AND STEEL

Canadian Car & Foundry Company Limited	Amherst, N.S.
Dominion Steel & Coal Corporation, Limited	Sydney, N.S.
Nova Scotia Steel & Coal Co. Ltd.	Trenton, N.S.
Canadian Tube & Steel Products Limited	5900 St. Patrick St., Montreal, P.Q.
Peck Rolling Mills Ltd.	851 Mill St., Montreal, P.Q.
The Steel Company of Canada, Limited	2320 Notre Dame St. W., Montreal, P.Q.
Algoma Steel Corporation, Limited	Sault Ste. Marie, Ont.
Burlington Steel Company, Limited	Sherman Ave. N., Hamilton, Ont.
Canadian Atlas Steels Ltd.	Welland, Ont.
Dominion Foundries & Steel Limited	Depew St., Hamilton, Ont.
The Steel Company of Canada, Limited	Queen St. N., Hamilton, Ont.
The Steel Company of Canada, Limited	Wilcox Ave., Hamilton, Ont.
Manitoba Rolling Mill Company Limited	Selkirk, Man.

(e) COLD ROLLED STEEL

Stanley Steel Company Limited	Gerrard St., Hamilton, Ont.
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(f) COLD DRAWN STEEL

Canadian Drawn Steel Company Limited	Gerrard St., Hamilton, Ont.
Union Drawn Steel Co. Ltd.	Victoria Ave. S., Hamilton, Ont.

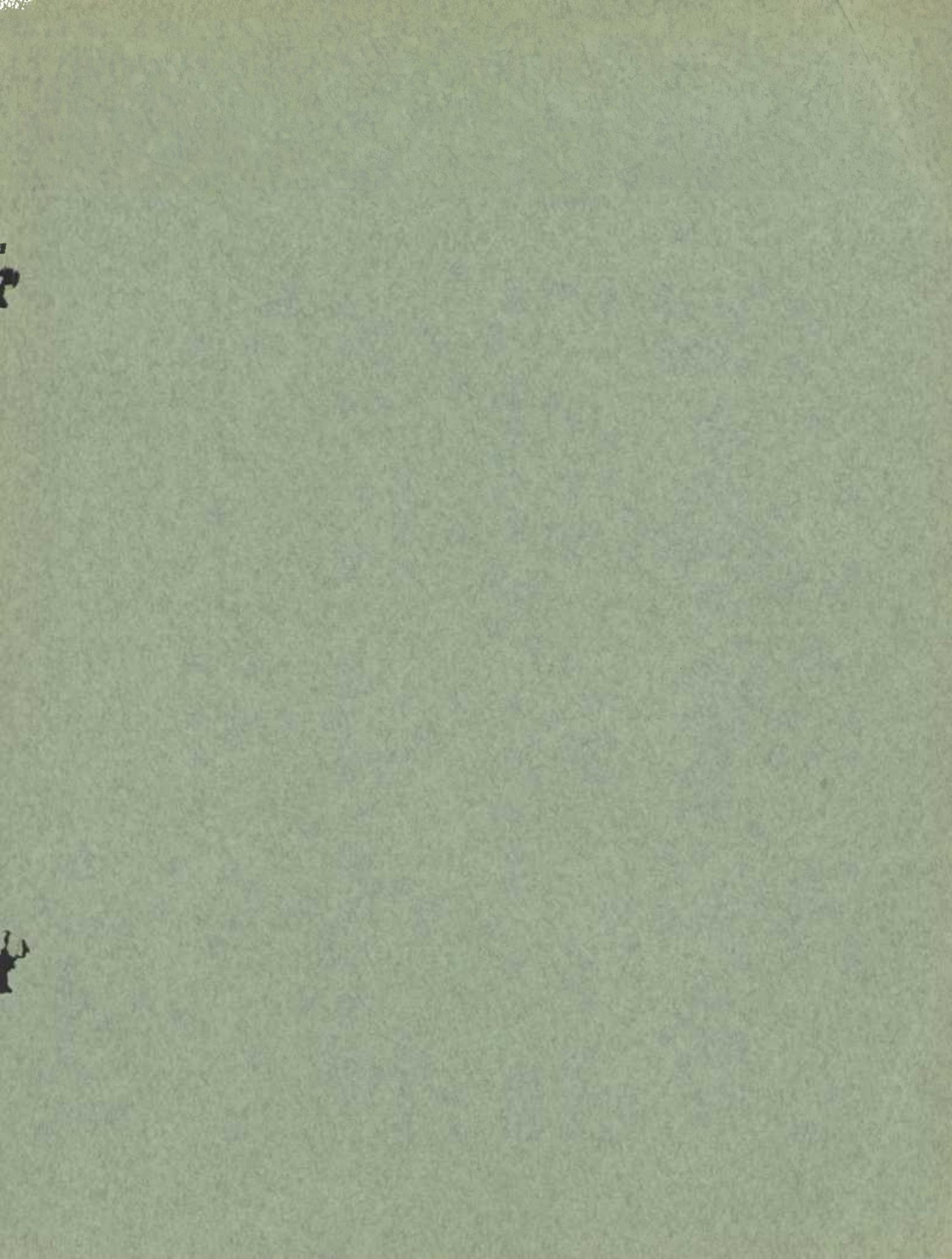
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NOTE - Detailed statistics of imports and exports of iron and steel products are published annually and quarterly in the Trade of Canada, which may be obtained on application to the Dominion Bureau of Statistics, Ottawa, Canada.

PUBLICATIONS ISSUED BY THE DOMINION BUREAU OF STATISTICS ON THE IRON  
AND STEEL INDUSTRY IN CANADA.

	<u>Price</u>
<b>1. ANNUAL BULLETINS (Rotaprint) -</b>	
(a) The Primary Iron and Steel Industry .....	15 cents
(pig iron, ferro-alloys, steel and rolled products)	
(b) The Castings and forgings Industry .....	15 cents
(commercial iron castings and forgings, pipe and fittings)	
(c) The Heating and Cooking Apparatus Industry .....	15 cents
(except boilers and heating radiators)	
(d) The Boilers, Radiators, Tanks and Engines Industry .....	10 cents
(e) The Farm Implements and Machinery Industry .....	15 cents
(f) The Machinery Industry .....	15 cents
(industrial, office and household machinery except electrical equipment)	
(g) The Railway Rolling Stock Industry .....	10 cents
(locomotives, railway cars and parts)	
(h) The Automobile Manufacturing Industry .....	25 cents
(i) The Automobile Parts Industry .....	15 cents
(j) The Bicycle Manufacturing Industry .....	10 cents
(k) The Shipbuilding Industry .....	15 cents
(l) The Aircraft Industry .....	15 cents
(m) The Wire and Wire Goods Industry .....	15 cents
(n) The Sheet Metal Products Industry .....	10 cents
(o) The Hardware, Cutlery and Tools Industry .....	10 cents
(p) The Bridge Building and Structural Steel Work Industry .....	10 cents
(q) The Miscellaneous Iron and Steel Products Industry .....	10 cents
(r) Iron and Steel and Their Products (condensed summary) .....	10 cents
<b>2. BIENNIAL REPORT on IRON AND STEEL AND THEIR PRODUCTS (printed) .....</b>	<b>50 cents</b>
<b>3. MONTHLY BULLETINS (Rotaprint) -</b>	
(a) Production of Pig Iron, Steel and Ferro-alloys .....	\$1.00 per year
(b) Production of Steel Ingots .....	\$1.00 per year
(c) Automobile Statistics for Canada .....	\$1.00 per year
<b>4. QUARTERLY BULLETINS -</b>	
(a) Production and Imports of Galvanized Sheets .....	\$1.00 per year
<b>5. SPECIAL ANNUAL COMMODITY BULLETINS ON -</b>	
(a) Stoves .....	10 cents
(b) Warm air furnaces .....	10 cents
(c) Steel wire .....	10 cents
(d) Wire fencing .....	10 cents
(e) Nails and spikes .....	10 cents
(f) Washing machines .....	10 cents
(g) Oil burners .....	10 cents
(h) Cream separators .....	10 cents
(i) Pipe and fittings .....	10 cents

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