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## PRIMARY IRON AND STEEL

JANUARY - 1951

Pig Iron - Production of pig iron in Canada amounted to 197,025 tons in January compared with 190,432 tons in the corresponding month of last year. The total for the current month included 157,816 tons of basic iron, 26,016 tons of foundry iron and 13,393 tons of malleable iron.

Ferro-alloys - Output of ferro-alloys in January amounted to 23,079 tons compared with 15,341 tons in the previous month and with 19,961 tons in January of a year ago. The following alloys were produced: ferrosilicon, silicomanganese, ferro-manganese, ferrochrome, chrom-x and ferrophosphorus.

Steel ingots and castings - Production of steel ingots and steel castings during January totalled 309,653 tons compared with 289,949 tons in January of last year. Output in the month under review included 299,410 tons of ingots and 10,243 tons of castings.

(a) Pig Iron and Ferro-alloys

Table 1 - Production During January, 1950 and 1951

	January, 1950		January, 1951	
	Made(*)	Sold	Made(*)	Sold
	(Net tons of 2,000 pounds)			
<b>Pig iron -</b>				
Basic .....	151,403	9,860	157,616	6,706
Foundry .....	21,845	21,505	26,016	26,054
Malleable .....	17,184	17,082	13,393	21,095
Total Pig Iron .....	190,432	48,447	197,025	53,855
<b>Ferro-alloys -</b> .....	9,961	...	23,079	...

(\*) Includes tonnage sold as shown in next column.

Table 2 - Iron Blast Furnace Charges During January, 1950 and 1951

	January, 1950	January, 1951
	(Net tons of 2,000 pounds)	
Iron ore .....	337,732	352,904
Mill cinder, scale, sinter, etc. ....	37,521	40,812
Limestone .....	68,696	75,756
Dolomite .....	13,435	12,688
Coke .....	178,914	187,040
Scrap iron and steel .....	7,323	5,773

Table 3 - Iron Blast Furnaces

Name of company	Location of furnaces	Number of stacks	Total annual capacity (net tons)
Dominion Steel and Coal Corp. Ltd.	Sydney, Nova Scotia	4	730,000
Canadian Furnace Limited .....	Port Colborne, Ontario	2	223,000
The Steel Company of Canada, Ltd..	Hamilton, Ontario	3	757,000
The Algoma Steel Corporation .....	Sault Ste. Marie, Ontario	5	1,035,000
	Total .....	14	2,745,000

NOTE:- This report was prepared in the Mining, Metallurgical and Chemical Section.

Table 4 - Description of Iron Blast Furnaces at end of January, 1951

Condition of furnaces	Number of furnaces	Total annual capacity	
		Net tons	Per cent
In blast .....	12	2,420,950	88.2
Banked .....	...	...	...
Blown out .....	2	324,050	11.8
Total .....	14	2,745,000	100.0

(b) Steel Ingots and Steel Castings

Table 5 - Production During January, 1950 and 1951

	January, 1950		January, 1951	
	Made(*)	Sold	Made(*)	Sold
	(Net tons of 2,000 pounds)			
<u>Steel Ingots</u>				
Open hearth - basic .....	239,379	12,369	252,627	11,439
Electric .....	44,515	8,202	46,783	5,609
Total Steel Ingots .....	283,894	20,571	299,410	17,048
Alloy steel ingots included in above .....	12,748	...	18,615	983
<u>Steel Castings</u>				
Open hearth - basic .....	2,063	1,908	2,483	2,261
Converter .....	4	4	8	8
Electric .....	3,988	2,881	7,752	5,620
Total Steel Castings .....	6,055	4,793	10,243	7,889
Alloy steel castings included in above .....	1,290	760	1,996	757
TOTAL INGOTS AND CASTINGS ....	289,949	25,364	309,653	24,937

(\*) Includes tonnage sold as shown in next column.

Table 6 - Pig Iron and Scrap Charged to Steel Furnaces During January, 1950 and 1951

	January, 1950	January, 1951
	(Net tons of 2,000 pounds)	
Pig iron .....	141,154	150,761
Scrap - Own make .....	84,270	88,084
Purchased .....	88,284	93,526

Table 7 - Steel Furnace Capacity at end of January, 1951

	Annual capacity
	(Net tons of 2,000 pounds)
Ingots - Basic open hearth .....	3,024,000
Electric .....	648,500
Total Ingots .....	3,672,500
Steel castings .....	303,600
Total Ingots and Castings	3,976,100

Table 8 - Monthly Production of Pig Iron, Ferro-alloys and Steel, 1950 and 1951

Month	Pig iron	Ferro- alloys	S t e e l		Total steel
			Ingots	Castings	
			(Net tons of 2,000 pounds)		
<u>1 9 5 0</u>					
January .....	190,432	9,961	283,894	6,055	289,949
February .....	157,200	9,652	251,890	6,233	258,123
March .....	174,944	17,157	287,719	6,584	294,303
April .....	185,259	14,627	272,936	6,384	279,320
May .....	195,893	12,707	283,810	7,096	290,906
June .....	198,462	15,350	269,816	6,607	276,423
July .....	194,016	16,118	259,025	5,165	264,190
August .....	201,830	19,018	275,099	6,213	281,312
September .....	199,415	17,765	266,997	7,950	274,947
October .....	205,811	16,959	285,654	8,274	293,928
November .....	208,301	16,920	279,754	9,734	289,488
December .....	198,169	15,341	281,474	9,768	291,242
Total .....	2,309,732	181,575	3,298,068	86,063	3,384,131
<u>1 9 5 1</u>					
January .....	197,025	23,079	299,410	10,243	309,653

Primary steel shapes - Shipments of primary shapes by Canadian steel mills, exclusive of producers' interchange, totalled 274,607 net tons in January, 1951 compared with 211,431 tons in January, 1950. The January shipments included 7,606 tons of semi-finished shapes, 19,794 tons of structurals, 15,654 tons of plates, 24,796 tons of rails, 7,191 tons of tie plates and track material, 45,265 tons of hot rolled bars, 24,276 tons of pipes and tubes, 31,833 tons of wire rods, 28,253 tons of black sheets, 8,363 tons of galvanized sheets, 9,376 tons of castings, and 44,227 tons of other rolled products. The amount of producers' interchange was 136,010 tons in January as against 92,064 tons in January, 1950.

Of the amounts shipped for sale during January, 55,555 tons went direct to railways and railway car shops; 13,671 tons went to pressing, forming and stamping plants; 38,506 tons to merchant trade products; 35,761 tons to building construction; 26,591 tons to the containers industry; 13,765 tons to agricultural equipment; 19,529 tons to the automotive industry; 18,229 tons to machinery plants; 1,163 tons to ship-building; 13,474 tons to mining, lumbering, etc., and 2,416 tons to miscellaneous industries, including National Defence and Public Works and Utilities; wholesalers and warehousing accounted for 29,326 tons, and exports for 6,621 tons. Producers' interchange, or the tonnage shipped to producers' own works for further processing, totalled 136,010 tons in January, 1951.



Table 9 - Production and Producers' Shipments of Primary Iron and Steel Shapes, January, 1951

	Production (Including producers' interchange)	Shipments For Producers' sale interchange	
	(Tons of 2,000 pounds)		
<u>Carbon Steel</u>			
Billets, etc., for forging .....	10,091	6,390	6,295
Other semi-finished shapes, not for re-rolling by makers .....	38,337	7,606	35,784
Structural shapes and piling .....	20,630	19,794	...
Plates .....	16,918	15,305	...
Rails .....	24,878	24,796	...
Tie plates and track material: Splice bars ...	1,260	1,347	...
Tie plates ....	4,714	4,418	...
Spikes .....	1,394	1,426	...
Concrete reinforcing bars .....	11,636	10,606	...
Hot rolled bars for cold finishing .....	986	...	987
Other hot rolled bars .....	44,147	38,370	8,242
Pipes and tubes .....	21,723	24,276	...
Wire rods .....	30,407	31,820	96
Hot rolled black sheets .....	67,975	14,679	52,396
Cold reduced black sheets .....	19,044	13,459	3,914
Galvanized sheets .....	8,571	8,363	187
Steel castings .....	8,029	7,417	...
All other products (includes tool steel, cold finished bars, tin mill black plate, tin plate, cold reduced strip and axles and all other) .....	61,250	32,822	27,260
Total - Carbon Steel .....	391,990	262,894	135,161
<u>Alloy Steel</u>			
Billets, etc., for forging .....	910	1,583	...
Other semi-finished shapes, not for re-rolling by makers .....	770	...	770
Structural shapes and piling .....	...	...	...
Plates .....	422	349	...
Rails .....	...	...	...
Tie plates and track material - Splice bars ..	...	...	...
Tie plates ...	...	...	...
Spikes .....	...	...	...
Concrete reinforcing bars .....	...	...	...
Hot rolled bars for cold finishing .....	...	...	...
Other hot rolled bars .....	6,616	6,895	79
Pipes and tubes .....	...	...	...
Wire rods .....	71	13	...
Hot rolled black sheets .....	...	...	...
Cold reduced black sheets .....	191	115	...
Galvanized sheets .....	...	...	...
Steel castings .....	2,201	1,959	...
All other products (includes tool steel, cold finished bars, tin mill black plate, tin plate, cold reduced strip and axles and all other) .....	735	799	...
Total - Alloy Steel .....	11,916	11,713	849

Note: Figures shown under "Producers' interchange" represent the amounts shipped to producers' own plants or to other plants within the primary industry, for further processing, e.g., black sheets to galvanizing department, hot rolled bars to make railway track material, etc.

Table 10 - Producers' Shipments of Primary Iron and Steel Shapes, Subdivided According to Principal Consuming Industries, January, 1951

	January	
	Carbon steel	Alloy steel
	(Tons of 2,000 pounds)	
Automotive industries .....	12,697	6,832
Agricultural, including farm machinery .	13,662	103
Building construction .....	35,656	105
Containers industry .....	26,586	5
Machinery and tools .....	17,378	851
Merchant trade products .....	38,263	243
Mining, lumbering, etc. ....	12,610	864
National defence .....	652	50
Pressing, forming and stamping .....	13,482	189
Public works and utilities .....	645	40
Railway operating .....	37,244	299
Railway cars and locomotives .....	17,782	230
Shipbuilding .....	1,130	33
Miscellaneous and unclassified .....	852	177
Wholesalers and warehouses .....	29,116	210
Direct export (a) to British Empire ....	314	206
(b) to other countries ...	4,825	1,276
Total Shipped for Sale .....	262,894	11,713
Producers' interchange .....	135,161	849

Table 11 - Imports of Primary Forms of Iron and Steel, January, 1951

Commodity	Country of origin	Carbon steel	Alloy steel	Stainless steel
		(Tons of 2,000 pounds)		
Pig iron -				
Basic .....	United States	116	...	...
Special .....	United States	52	...	...
Ingot .....	United States	4,793	19	...
Billets, blooms, slabs and sheet bars ..	United States	20	...	...
Tube rounds and tube billets .....	United States	452	...	...
Bars and sections -				
Hot rolled, n.o.p. ....	United States	1,596	401	12.3
	United Kingdom	827	32	4.4
	Belgium	1,098	...	...
	France	54	...	...
Hot rolled -				
For agricultural implements .....	United States	2,421	...	...
Rounds over 4 $\frac{1}{2}$ " , squares over 4" ...	United States	79	6	...
	United Kingdom	27	...	...
Angles, channels, etc. ....	United States	497	...	4.5
	Belgium	176	...	...
	United Kingdom	95	...	.6
Structurals (bar sizes) for agri-				
cultural implements .....	United States	1,049	...	...
Sash or casement sections .....	United States	202	...	...
	Belgium	37	...	...
	United Kingdom	23	...	...
Cold rolled, n.o.p. ....	United States	458	24	3.7
	United Kingdom	699	...	1.0
Cold rolled, for agricultural				
implements .....	United States	235	2	4.0
	United Kingdom	70	...	...
Tool steel .....	United States	7	80	...
	United Kingdom	148	39	...
	Sweden	...	6	...

Table 11 - Imports of Primary Forms of Iron and Steel, January, 1951 (Continued)

Commodity	Country of origin	Carbon steel	Alloy steel	Stainless steel
(Tons of 2,000 pounds)				
Bars and sections - (concluded)				
Structurals .....	United States	12,214	...	.5
	United Kingdom	1,440	...	...
	Belgium	2,249	...	...
	France	103	...	...
Plates -				
78" and under in width .....	United States	1,983	3	41.5
	United Kingdom	2,438	...	13.0
	West Germany	209	...	...
Over 78" and under 100" in width .....	United States	1,071	...	1.7
	United Kingdom	2,513	...	...
100" in width and over .....	United States	379	...	...
Flanged, dished or curved .....	United States	118	...	5.2
Boiler, pulp-mill digesters .....	United States	608	...	.8
Chequered or surface pattern .....	United States	644	...	...
	United Kingdom	31	...	...
Painted .....	United States	2	...	...
Sheets -				
Silicon .075 or more .....	United States	...	2,044	...
	United Kingdom	...	154	...
Galvanized .....	United States	1,121	...	...
	United Kingdom	611	...	...
Hot rolled -				
18 gauge and heavier .....	United States	5,522	2	17.9
	Germany	165	...	...
	Belgium	35	...	...
	United Kingdom	1,277	...	50.4
	France	567	...	...
	Sweden	9	...	...
Lighter than 18 gauge .....	United States	665	1	3.9
	United Kingdom	71	...	.4
	Belgium	95	...	...
	France	138	...	...
For hollow ware (vitreous enamel) ..	United States	360	...	...
Corrugated .....	United States	438	...	...
Coated with paint, tar, asphaltum, etc. ....	United States	85	...	...
For saws .....	United States	22	93	...
	United Kingdom	...	7	...
For tubes .....	United States	271	...	...
Cold rolled -				
18 gauge and heavier .....	United States	1,369	...	102.9
	United Kingdom	148	...	...
	Belgium	28	...	...
Lighter than 18 gauge .....	United States	3,465	...	222.9
	United Kingdom	97	...	5.9
	Sweden	1	...	...
For hollow ware (vitreous enamel) ..	United States	1,177	...	...
	United Kingdom	25	...	...
Black plate - Tin mill .....	United States	11	...	...
Coated with paint, tar, asphaltum, etc. ....	United States	37	...	...
For heating apparatus .....	United States	43	...	...
For saws .....	United States	...	2	...
	Sweden	...	1	...
For tubes .....	United States	316	...	...
Tin plate--Primes .....	United Kingdom	31	...	...
Seconds .....	United Kingdom	20	...	...



Table 11 - Imports of Primary Forms of Iron and Steel, January, 1951 (continued)

Commodity	Country of origin	Carbon steel	Alloy steel	Stainless steel
(Tons of 2,000 pounds)				
Sheets - (concluded)				
Terne plate--Long .....	United States	337	...	...
	United Kingdom	9	...	...
Short .....	United States	289	...	...
Strip -				
Hot rolled -				
18 gauge and heavier .....	United States	1,633	...	1.2
	Belgium	104	...	...
	United Kingdom	28	...	...
Lighter than 18 gauge .....	United States	112	...	...
For cold rolling .....	United States	249	...	...
Painted .....	United States	673	...	...
For shoe and corset laces, buckles, ball bearings, etc. ....	United States	224	...	...
For saws .....	United States	19	78	...
	United Kingdom	...	1	...
For motor vehicles .....	United States	2,194	...	...
For hoops .....	United States	73	...	...
	United Kingdom	33	...	...
For tubes .....	United States	103	...	...
Silicon .075 or more .....	United States	...	432	...
Cold rolled -				
18 gauge and heavier .....	United Kingdom	19	...	...
	United States	477	15	15.1
Lighter than 18 gauge .....	United States	480	...	148.3
	Sweden	14	...	...
	United Kingdom	3	...	...
Painted .....	United States	304	...	...
	Germany	4	...	...
For shoe and corset laces, buckles, ball bearings, etc. ....	United States	81	...	...
For saws .....	United States	8	11	...
	Sweden	...	23	...
For tubes .....	United States	262	...	...
For tubular products .....	United States	113	...	...
For butt hinges .....	United States	193	...	...
Silicon .075 or more .....	United States	...	22	...
Galvanized strip .....	United States	697	...	...
	United Kingdom	40	...	...
Skelp -				
15 $\frac{3}{8}$ " and under in width .....	United States	14,379	...	...
Over 15 $\frac{3}{8}$ " in width .....	United States	324	...	...
Plate .....	United States	212	...	...
Pipes and tubes -				
Cast .....				
	United States	53	...	...
	United Kingdom	852	...	...
	United States	65	...	...
Bedstead .....				
Repair of pressure parts of boilers -				
Hot finished .....	United States	256	14	...
	United Kingdom	74	...	...
Cold drawn .....	United States	20	...	...
	United Kingdom	10	...	...
	United States	168	...	...
Welded .....				
Seamless, 12" and under in diameter -				
Cold drawn .....	United States	361	22	14.3
	Sweden	3	...	...
	United Kingdom	226	30	25.4
Hot finished .....	United States	468	276	...

Table 11 - Imports of Primary Forms of Iron and Steel, January, 1951 (Continued)

Commodity	Country of origin	Carbon steel	Alloy steel	Stainless steel
(Tons of 2,000 pounds)				
Pipes and tubes - (concluded)				
Seamless, over 12" in diameter -				
Hot finished .....	United States	66	...	...
	United Kingdom	1,008	...	...
Welded, 4" and under in diameter .....	United States	1,135	...	5.9
	United Kingdom	550	...	...
Welded, over 4" in diameter .....	United States	144	...	.1
Tubing -				
Not over 1/2" diameter, welded and coated .....	United States	68	...	...
Special welded .....	United States	363	...	...
Casings .....	United States	5,589	...	...
	United Kingdom	1,678	...	...
	Germany	175	...	...
	Netherlands	35	...	...
Fittings and couplings .....	United States	355	...	1.9
	United Kingdom	11	...	...
Wire rope .....	United States	55	...	.3
	United Kingdom	164	...	...
Wire for rope .....	United States	471	...	...
	United Kingdom	1,024	...	...
Wire -				
For corset laces, steels, etc. ....	United States	15	...	...
	United Kingdom	2	...	...
For spring mattress, etc. ....	United States	363	...	...
	United Kingdom	7	...	...
For fencing, galvanized .....	United States	32	...	...
Wire cloth and netting .....	United States	195	...	...
	United Kingdom	61	...	...
	Germany	...	...	.3
Wire, coated .....	United States	66	...	...
Wire, all other .....	United States	489	2	3.8
	United Kingdom	6	...	...
	Germany	4	1	...
Wire rods, not over 3/8" in diameter .....	United States	32	...	...
	France	223	...	...
Welding wire and welding rods .....	United States	33	5	14.9
	United Kingdom	...	1	36.5
Castings -				
For agricultural implements .....	United States	134	...	...
For ingot moulds .....	United States	1,188	...	...
Malleable .....	United States	59	...	...
Non-malleable .....	United States	211	...	...
Steel .....	United States	99	18	...
	Norway	7	...	...
For railway vehicles .....	United States	12	...	...
Rolls .....	United States	174	15	...
Piston rings (rough) .....	United States	25	...	...
Forgings .....	United States	103	133	...
	United Kingdom	236	43	...
Wheels - For railway rolling stock .....	United States	20	...	...
	United Kingdom	379	...	...
Tires -				
For railway rolling stock .....	United States	26	...	...
	United Kingdom	176	...	...



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Table 11 - Imports of Primary Forms of Iron and Steel, January, 1951 (Concluded)

Commodity	Country of origin	Carbon steel	Alloy steel	Stainless steel
(Tons of 2,000 pounds)				
Rails -				
60 lb. and under .....	United States	13	...	...
	Belgium	141	...	...
	France	67	...	...
Over 60 lb. and including 100 lb. ....	United States	15	...	...
Over 100 lb. ....	United States	1	...	...
Track material -				
Angles, bars, tie plates, rail joints.	United States	35	...	...
	Belgium	190	...	...
	France	2	...	...
	United Kingdom	335	...	...
Intersections, switches, frogs .....	United States	1	...	...
<hr/>				
Total Imports .....	United States	80,312	3,720	627.6
	All other	23,455	338	137.9
<hr/>				
TOTAL .....		103,767	4,058	765.5

Table 12 - Exports of Primary Iron and Steel, January, 1951

	January
(Tons of 2,000 pounds)	
Pig iron .....	16,481
Ingots, blooms and billets .....	9,124
Bars .....	2,150
Rods .....	...
Plates, sheets and strips .....	1,429
Rails .....	...
Structural shapes .....	188
Pipe and tubing - Wrought iron .....	...
Cast iron .....	103
Galvanized .....	210
Other .....	81
Castings, iron and steel .....	1,576
Forgings .....	64

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