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PRIMARY IRON AND STEEL

JANUARY - 1950

Pig Iron - Production of pig iron in Canada amounted to 190,432 net tons in January compared with 183,074 tons in the corresponding month of last year. The total for the current month included 151,403 tons of basic iron, 21,845 tons of foundry iron and 17,184 tons of malleable iron.

Steel Ingots and Castings - Production of steel ingots and steel castings during January totalled 289,949 net tons compared with 284,707 tons in January of last year. Output in the month under review included 283,894 tons of ingots and 6,055 tons of castings.

(a) Pig Iron and Ferro-alloys

Table 1 - Production During December, 1949 and January, 1950

	December, 1949			January, 1950		
	For own use	For sale	Total	For own use	For sale	Total
	(Net tons of 2,000 pounds)					
Pig Iron -						
Basic	129,956	4,141	134,097	141,543	9,860	151,403
Foundry	235	20,933	21,168	340	21,505	21,845
Malleable	...	16,737	16,737	102	17,082	17,184
Total Pig Iron ...	130,191	41,811	172,002	141,985	48,447	190,432
Ferro-alloys -	...	11,853	11,853	Not available		

Table 2 - Iron Blast Furnace Charges During December, 1949 and January, 1950

	December, 1949	January, 1950
	(Net tons of 2,000 pounds)	
Iron ore	300,931	337,732
Mill cinder, scale, sinter, etc.	40,381	37,521
Limestone	63,393	68,696
Dolomite	13,112	13,435
Coke	163,576	178,914
Scrap iron and steel	7,964	7,323

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, 1950

Condition of furnaces	Number of furnaces	Total annual capacity	
		Net tons	per cent
In blast	11	2,434,950	88.6
Banked	...	...	...
Blown out	3	310,050	11.4
Total	14	2,745,000	100.0

(b) Steel Ingots and Steel Castings

Table 5 - Production During December, 1949 and January, 1950

	December, 1949			January, 1950		
	For own use	For sale	Total	For own use	For sale	Total
	(Net tons of 2,000 pounds)					
Steel Ingots						
Open hearth - Basic	207,521	10,933	218,454	227,010	12,369	239,379
Electric	30,808	8,621	39,429	36,313	8,202	44,515
Total Steel Ingots ...	238,329	19,554	257,883	263,323	20,571	283,894
Alloy steel ingots included in above	7,590	...	7,590	...	12,748	12,748
Steel Castings						
Open hearth - Basic	154	1,811	1,965	155	1,908	2,063
Converter	1	...	1	...	4	4
Electric	1,027	3,073	4,100	1,107	2,881	3,988
Total Steel Castings .	1,182	4,884	6,066	1,262	4,793	6,055
Alloy steel castings included in above	479	685	1,164	530	760	1,290
TOTAL INGOTS AND CASTINGS..	239,511	24,438	263,949	264,585	25,364	289,949

Table 6 - Pig Iron and Scrap Charged to Steel Furnaces During December, 1949 and January, 1950

	December, 1949	January, 1950
	(Net tons of 2,000 pounds)	
Pig iron	136,690	141,154
Scrap - Own make	82,433	84,270
Purchased	71,522	88,284

Table 7 - Steel Furnace Capacity at End of January, 1950

	Annual capacity
	(Net tons of 2,000 pounds)
Ingots - Basic open hearth	3,024,000
Electric	676,000
Total Ingots	3,700,000
Steel castings	300,000
Total Ingots and Castings	4,000,000

Table 8 - Monthly Production of Pig Iron, Ferro-alloys and Steel, 1949 and 1950

Month	Pig Iron	Ferro-alloys	Steel		
			Ingots	Castings	Total steel
	(Net tons of 2,000 pounds)				
1 9 4 9					
January	183,074	21,931	275,987	8,720	284,707
February	172,724	21,713	249,009	10,262	259,271
March	202,130	22,457	287,885	10,576	298,461
April	180,740	24,427	260,319	9,649	269,968
May	202,148	20,652	283,808	9,371	293,179
June	194,255	19,264	261,476	8,979	270,455
July	175,381	14,280	232,499	6,331	238,830
August	180,115	12,562	241,442	7,307	248,749
September	168,436	12,250	232,882	7,866	240,748
October	166,020	15,456	252,965	5,926	258,891
November	157,327	14,758	253,213	6,509	259,722
December	172,002	11,853	257,883	6,066	263,949
Total	2,154,352	211,603	3,089,368	97,562	3,186,930
1 9 5 0					
January	190,432	Not available	283,894	6,055	289,949

Primary Steel Shapes - Shipments of primary shapes by Canadian steel mills, exclusive of producers' interchange, totalled 211,431 net tons in January, 1950 compared with 234,284 net tons in December, 1949. The January shipments included 6,003 tons of semi-finished shapes; 11,180 tons of structurals; 12,606 tons of plates; 31,167 tons of rails; 6,072 tons of tie plates and track materials; 34,648 tons of hot rolled bars; 12,832 tons of pipes and tubes; 24,839 tons of wire rods; 28,764 tons of black sheets; 6,890 tons of galvanized sheets; 5,832 tons of castings and 7,207 tons of other rolled products. The amount of producers' interchange was 92,064 tons in January, 1950 as against 62,014 tons in December, 1949.

Of the amounts shipped for sale during January, 36,722 tons went direct to railways and railway car shops; 19,576 tons went to pressing, forming and stamping plants; 25,944 tons to merchant trade products; 23,626 tons to building construction; 14,785 tons to the containers industry; 11,514 tons to agricultural equipment; 13,324 tons to the automotive industry; 10,183 tons to machinery plants; 2,905 tons to shipbuilding; 7,003 tons to mining, lumbering, etc.; and 1,250 tons to miscellaneous industries; wholesalers and warehousing accounted for 23,646 tons. Producers' interchange, or the tonnage shipped to producers' own works for further processing, totalled 92,064 tons in January, 1950.

Table 9 - Production and Producers' Shipments of Primary Iron and Steel Shapes, January, 1950

	Production (Including producers' interchange)	Shipments: For sale	Shipments: Producers' interchange
	(Tons of 2,000 pounds)		
Carbon Steel			
Billets, etc., for forging	13,853	4,405	9,245
Other semi-finished shapes, not for re-rolling by makers	41,579	6,003	30,703
Structural shapes and piling	12,920	11,180	...
Plates	12,906	12,491	...
Rails	29,105	31,167	...
Tie plates and track material - Splice bars	1,864	1,061	...
Tie plates	3,309	3,357	...
Spikes	1,329	1,654	...
Concrete reinforcing bars	5,680	4,896	...
Hot rolled bars for cold finishing	478	...	368
Other hot rolled bars	36,187	28,688	6,379
Pipes and tubes	15,370	12,832	...
Wire rods	26,814	24,758	124
Hot rolled black sheets	34,017	14,175	16,865
Cold reduced black sheets	15,685	14,589	2,055
Galvanized sheets	8,128	6,890	449
Steel castings	4,417	4,445	...
Miscellaneous hot rolled products	28,963	2,103	25,552
All other products	18,321	18,351	1
Total - Carbon Steel	310,925	203,045	91,741
Alloy Steel			
Billets, etc., for forging	537	396	...
Other semi-finished shapes, not for re-rolling by makers	279	...	279
Structural shapes and piling	...	...	...
Plates	135	115	...
Rails	...	...	...
Tie plates and track material - Splice bars	...	...	...
Tie plates	...	...	...
Spikes	...	...	...
Concrete reinforcing bars	...	...	...
Hot rolled bars for cold finishing	...	...	...
Other hot rolled bars	6,328	5,960	43
Pipes and tubes	...	...	...
Wire rods	81	81	...
Hot rolled black sheets	...	...	...
Cold reduced black sheets	...	...	...
Galvanized sheets	...	...	...
Steel castings	1,500	1,387	...
Miscellaneous hot rolled products	143	208	...
All other products	201	239	1
Total - Alloy Steel	9,204	8,386	323

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, 1950

	January	
	Carbon steel	Alloy steel
	(Tons of 2,000 pounds)	
Automotive industries	7,740	5,584
Agricultural, including farm machinery	11,472	42
Building construction	23,573	53
Containers industry	17,484	1
Machinery and tools	9,579	604
Merchant trade products	25,709	235
Mining, lumbering, etc.	6,391	612
National defence	37	20
Pressing, forming and stamping	19,497	79
Public works and utilities	776	26
Railway operating	34,258	104
Railway cars and locomotives	2,296	64
Shipbuilding	2,887	18
Miscellaneous and unclassified	1,167	83
Wholesalers and warehouses	23,534	112
Direct export (a) to British Empire	6,583	30
(b) to other countries	10,062	719
Total Shipped for Sale	203,045	8,386
Producers' interchange	91,741	323

Table 11 - Imports of Primary Forms of Iron and Steel, January, 1950

Commodity	Country of origin	January		
		Carbon	Alloy	Stainless
		(Tons of 2,000 pounds)		
Pig Iron -				
Basic	United States	...	...	...
	Belgium	...	...	...
Foundry	United States	...	...	...
	United Kingdom	...	...	...
Malleable	United States	...	...	...
Silvery	United States	...	...	...
Charcoal	United States	...	...	...
Special	Germany	...	...	...
Ingots	United States	14	...	...
Billets, blooms, slabs and sheet bars	United States	2	1	1.4
	United Kingdom	...	...	...
Tube rounds and tube billets	United States	...	...	...
Bars and Sections -				
Hot rolled, n.o.p.	United States	2,401	75	3.3
	United Kingdom	101	...	6.6
	Belgium	27	...	...
	Sweden	2	...	...
Hot rolled -				
For agricultural implements	United States	465	...	...
Rounds over 4⅞", squares over 4".	United States	75	1	...
	United Kingdom	18	...	.3
	Belgium	...	...	...
Angles, channels, etc.	United States	15	1	4.0
	Germany	...	...	...
	Belgium	1	...	...
	United Kingdom	...	...	...

Table 11 - Imports of Primary Forms of Iron and Steel, January, 1950 (Continued)

Commodity	Country of origin	January Carbon	January Alloy	January Stainless
		(Tons of 2,000 pounds)		
Bars and Sections - (concluded)				
Hot rolled -				
Structurals (bar sizes) for agricultural implements	United States	98	...	...
Sash or casement sections	United States	80	...	...
	Belgium	11	...	...
Cold rolled, n.o.p.	United States	336	3	6.7
	United Kingdom	6	...	4.3
	Germany	...	...	...
Cold rolled, for agricultural implements	United States	681	...	...
Tool steel	United States	2	32	...
	United Kingdom	82	9	...
	Belgium	...	...	...
Structurals	United States	11,318	...	...
	United Kingdom	185	...	...
	Belgium	...	...	...
	France	...	...	...
Plates -				
78" and under in width	United States	437	3	8.0
	United Kingdom	483	...	1.4
	Belgium	...	...	...
	Holland	...	...	...
Over 78" and under 100" in width	United States	331	222	...
	United Kingdom	230	...	...
100" in width and over	United States	260	...	...
	United Kingdom	25	...	...
Flanged, dished or curved	United States	167	...	...
Boiler, pulp-mill digesters	United States	464	...	5.4
	United Kingdom	...	...	...
Chequered or surface pattern	United States	423	...	...
Painted	United States	1	...	...
For saws	United States	...	...	...
For tubes	United States	...	...	...
Sheets -				
Silicon .075 or more	United States	...	1,495	...
	United Kingdom	...	104	...
Galvanized	United States	905	...	...
	United Kingdom	349	...	...
Hot rolled -				
18 gauge and heavier	United States	2,601	8	14.5
	Germany	...	...	...
	Belgium	...	...	...
	United Kingdom	65	...	44.3
Lighter than 18 gauge	United States	177	...	12.9
	Belgium	...	...	...
	United Kingdom	187	...	6.3
For hollow ware (vitreous enamel)	United States	...	...	...
	United Kingdom	...	...	...
Corrugated	United States	269	...	...
	United Kingdom	18	...	...
Coated with paint, tar, asphaltum, etc.	United States	132	...	...
For saws	United States	3	39	...
	United Kingdom	...	...	...
For cold rolled strip	United States	...	...	...
Shaped for agricultural implements	United States	288	24	...

Table 11 - Imports of Primary Forms of Iron and Steel, January, 1950 (Continued)

Commodity	Country of origin	January		
		Carbon	Alloy	Stainless
		(Tons of 2,000 pounds)		
Sheets - (concluded)				
Hot rolled -				
For tubes	United States	...	...	...
For galvanizing	United States	...	...	...
Cold rolled -				
18 gauge and heavier	United States	1,055	...	84.2
	United Kingdom	...	...	...
Lighter than 18 gauge	United States	2,153	...	48.2
	United Kingdom	12	...	...
For hollow ware (vitreous enamel)	United States	560	...	...
	United Kingdom	32	...	...
Black plate - Tin mill	United States	33	...	...
Coated with paint, tar, asphaltum, etc.	United States	38	...	...
For heating apparatus	United States	12	...	...
For saws	Sweden	...	...	...
	United States	...	...	...
For shoe and corset laces	United States	...	...	...
For tubes	United States	658	...	...
For tubular products	United States	...	...	...
For butt hinges	United States	...	...	...
Black plate - For tinning	United States	...	...	...
Sheets, hot rolled for conversion to tin plate	United States	...	...	...
Slabs for conversion to tin plate	United States	...	...	...
Tin plate - Primes	United States	46	...	...
	United Kingdom	1	...	...
Electrolytic (25#)	United States	15	...	...
(50#)	United States	...	...	...
Waste waste	United States	...	...	...
Terne plate - Long	United States	436	...	...
Short	United States	26	...	...
Strip -				
Hot rolled -				
18 gauge and heavier	United States	1,077	...	1.9
	Belgium	50	...	...
	United Kingdom	279	...	...
Lighter than 18 gauge	United States	233	...	33.9
For cold rolling	United States	95	...	...
Painted	United States	336	...	...
	United Kingdom	10	...	...
For shoe and corset laces, buckles, ball bearings, etc.	United States	49	...	...
For saws	United States	9	33	...
	United Kingdom	...	8	1.9
For motor vehicles	United States	1,887	...	...
For hoops	United States	183	...	...
	United Kingdom	112	...	...
For tubes	United States	...	...	...
For tubular products	United States	5	...	...
For butthinges	United States	4	...	...
Silicon .075 or more	United States	...	176	...
Cold rolled -				
18 gauge and heavier	United States	268	4	29.2
	Belgium	19	...	...
Lighter than 18 gauge	United States	379	...	53.9
	Sweden	14	...	...
	United Kingdom	7	...	...
Painted	United States	179	...	...
For shoe and corset laces, buckles, ball bearings, etc.	United States	34	...	...

Table 11 - Imports of Primary Forms of Iron and Steel, January, 1950 (Continued)

Commodity	Country of origin	January		
		Carbon	Alloy	Stainless
		(Tons of 2,000 pounds)		
Strip - (concluded)				
Cold rolled -				
For saws	United States	...	3	...
	Sweden	...	...	...
For tubes	United States	36	...	...
For tubular products	United States	50	...	...
For butt hinges	United States	111	...	...
	Sweden	...	...	...
Silicon .075 or more	United States	...	355	...
Galvanized strip	United States	546	...	...
Skelp -				
15/8" and under in width	United States	13,159	...	...
	Belgium	...	...	...
Over 15/8" in width	United States	1,959	...	...
Pipes and Tubes -				
Cast	United States	22	...	...
	United Kingdom	1,110	...	...
Bedstead	United States	54	...	...
Repair of pressure parts of boilers - Hot finished	United States	348	74	...
	United Kingdom	...	...	...
Cold drawn	United States	42	22	...
	United Kingdom	...	...	...
Welded	United States	70	...	...
Repair of pulp mill digesters -				
Hot finished	United States	...	...	...
Cold drawn	United States	...	...	...
Seamless, 12" and under in diameter -				
Cold drawn	United States	337	8	13.5
	United Kingdom	16	...	...
	Sweden	...	...	...
Hot finished	United States	613	95	.3
	United Kingdom	45	...	...
Seamless, over 12" in diameter -				
Hot finished	United States	133	...	...
	United Kingdom	712	...	...
Welded, 4" and under in diameter	United States	399	...	4.4
	United Kingdom	189	...	...
	Occupied Japan	...	...	...
	Belgium	...	...	...
Welded, over 4" in diameter	United States	3,160	...	...
	United Kingdom	...	...	...
Tubing -				
Not over 1/2" diameter, welded and coated	United States	43	...	...
Casings	United States	4,530	...	...
	France	...	...	...
	United Kingdom	21	...	...
Tubing, spiral welded	United States	173	...	...
Fittings and couplings	United States	223	...	.7
	United Kingdom	...	...	...
Wire rope	United States	101	...	.1
	United Kingdom	18	...	...
	Belgium	...	...	...

Table 11 - Imports of Primary Forms of Iron and Steel, January, 1950 (Concluded)

Commodity	Country of origin	January		
		Carbon	Alloy	Stainless
		(Tons of 2,000 pounds)		
Wire -				
For wire rope	United States	902	...	...
	United Kingdom	335	...	...
For corset laces, steels, etc.	United States	13	...	...
	United Kingdom	1	...	...
For spring mattress, etc.	United States	129	...	...
For fencing, galvanized	United States	1	...	...
Wire cloth and netting	United States	2	...	.4
	United Kingdom	...	...	...
Wire, coated	United States	85	...	...
	United Kingdom	...	...	...
Wire -- All other	United States	423	2	5.2
	United Kingdom	...	...	...
	Germany	...	...	...
	France	...	...	...
Wire rods, not over $\frac{3}{8}$" in diameter	United States	28	...	...
	Germany	54	...	...
	Sweden	23	...	...
Welding wire and welding rods	United States	13	2	8.4
Castings -				
For agricultural implements	United States	218	...	...
For ingot moulds	United States	820	...	...
Malleable	United States	52	...	...
	United Kingdom	...	...	...
Non-malleable	United States	75	...	...
Steel	United States	27	...	.7
	Norway	...	...	...
For railway vehicles	United States	112	...	...
Rolls	United States	152	11	...
	United Kingdom	...	...	...
Piston rings (rough)	United States	48	...	...
Forgings	United States	163	28	...
	United Kingdom	39	65	...
Axles - For railway vehicles	United States	38	...	...
Wheels - For railway rolling stock	United States	45	...	...
	United Kingdom	13	...	...
Tires - For railway rolling stock	United States	253	...	...
	United Kingdom	...	...	...
Rails -				
60 lb. and under	United States	3	...	...
	United Kingdom	...	...	...
Over 60 lb. and including 100 lb.	United States	...	...	...
Over 100 lb.	United States	153	...	...
Grooved for electric tramways	United States	...	...	...
Track material -				
Angles, bars, tie plates, rail joints	United States	37	...	...
	United Kingdom	...	...	...
Intersections, switches, frogs	United States	5	...	...
Total Imports	United States	61,621	2,717	341.2
	All other	4,902	186	63.2
TOTAL		66,523	2,903	404.4

Table 12 - Exports of Primary Iron and Steel, January, 1950

	January
	(Tons of 2,000 pounds)
Pig iron	5,200
Ingots, blooms and billets	10,321
Bars	594
Rods	...
Plates, sheets and strips	1,525
Rails	10,014
Structural shapes	54
Pipe and tubing - Wrought iron	44
Cast iron	282
Galvanized	11
Other	1
Castings, iron and steel	236
Forgings	33

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