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PRIMARY IRON AND STEEL

JANUARY - 1952

Pig Iron - Production of pig iron in Canada amounted to 209,153 tons in January compared with 201,131 tons in the corresponding month of last year. The total for the current month included 162,105 tons of basic iron, 13,784 tons of foundry iron and 33,264 tons of malleable iron.

Ferro-alloys - Output of ferro-alloys in January amounted to 21,458 tons compared with 20,675 tons in the previous month and with 9,961 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 317,034 tons compared with 309,653 tons in January of last year. Output in the month under review included 305,721 tons of ingots and 11,313 tons of castings.

(a) Pig Iron and Ferro-alloys

Table 1 - Production During January, 1951 and 1952

	January, 1951		January, 1952	
	Tonnage made(*)	Tonnage sold	Tonnage made(*)	Tonnage sold
	(Net tons of 2,000 pounds)			
<u>Pig iron -</u>				
Basic	157,706	6,706	162,105	20,632
Foundry	30,033	29,582	13,784	14,479
Malleable	13,392	21,095	33,264	31,730
Total Pig Iron	201,131	57,383	209,153	66,841
<u>Ferro-alloys -</u>	9,961	(x)	21,458	(x)

(*) Includes amounts for sale and for own use.

(x) Not recorded.

Table 2 - Iron Blast Furnace Charges During January, 1951 and 1952

	January 1951	January 1952
	(Net tons of 2,000 pounds)	
Iron ore - Canadian	116,666	123,355
Imported	236,238	244,198
Mill cinder, scale, sinter, etc.	40,812	36,335
Limestone	75,756	87,126
Dolomite	12,688	9,771
Coke	187,040	196,695
Scrap iron and steel	5,773	5,080

Table 3 - Iron Blast Furnaces

Name of Company	Location of furnaces	Number of stacks	Total annual capacity (net tons)
Dominion Foundries & Steel Ltd. ..	Hamilton, Ontario	1	280,000
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		15	3,025,000

Table 4 - Description of Iron Blast Furnaces at End of January, 1952

Condition of furnaces	Number of furnaces	Total annual capacity	
		Net tons	Per cent
In blast	13	2,531,950	83.7
Banked .....	...	...	...
Blown out	2	493,050	16.3
Total	15	3,025,000	100.0

(b) Steel Ingots and Steel Castings

Table 5 - Production and Sales During January, 1951 and 1952

	January, 1951		January, 1952	
	Tonnage made(*)	Tonnage sold	Tonnage made(*)	Tonnage shipped
(Net tons of 2,000 pounds)				
<u>Steel ingots</u>				
Open hearth - basic	252,627	11,439	255,088	25,530
Electric	46,783	5,609	50,633	7,754
Total Steel Ingots	299,410	17,048	305,721	33,284
Alloy steel ingots included in above	18,615	983	15,833	41
<u>Steel castings</u>				
Open hearth - basic	2,483	2,261	2,974	2,649
Converter	8	8	1	...
Electric	7,752	5,620	8,338	6,422
Total Steel Castings	10,243	7,889	11,313	9,071
Alloy steel castings included in above:-				
(a) High alloy, except manganese and abrasion resistant			91	93
(b) High alloy, manganese and abrasion resistant)	1,996	757	4,864	4,639
(c) All other alloys			247	287

(*) Includes amounts for sale and for own use.

Note: High alloy castings include all castings with any alloy content of eight per cent and over.

Table 6 - Pig Iron and Scrap Charged to Steel Furnaces During January, 1951 and 1952

	January 1951	January 1952
(Net tons of 2,000 pounds)		
Pig iron	150,761	172,572
Scrap - Own make	88,084	84,378
Purchased	93,526	89,092

Table 7 - Steel Furnace Capacity at First of January 1951

	Annual Capacity	
	(Net tons of 2,000 pounds)	
Ingots - Basic open hearth	2,948,900	
Electric	682,000	
Total Ingots	3,630,900	
Steel castings	305,200	
Total Ingots and Castings.	3,936,100	

Table 8 - Monthly Production of Pig Iron, Ferro-alloys and Steel, 1951 and 1952

Table 3 - Monthly Production of Pig Iron, Ferro-alloys and Steel, 1951 and 1952					
Month	Pig iron	Ferro-alloys	S t e e l		Total steel
			Ingots	Castings	
(Net tons of 2,000 pounds)					
<u>1 9 5 1</u>					
January	201,131	19,062	299,410	10,243	309,653
February	193,227	14,914	271,222	10,158	281,380
March	220,603	19,451	304,281	10,545	314,826
April	211,112	19,552	301,764	10,241	312,005
May	218,989	23,542	302,928	10,384	313,312
June	213,184	19,774	283,664	9,851	293,515
July	210,263	17,608	266,646	7,956	274,602
August	203,186	25,327	277,931	8,873	286,804
September	212,485	22,977	257,880	10,350	268,230
October	224,511	25,777	298,159	11,255	309,414
November	223,467	22,271	295,485	11,590	307,075
December	220,537	20,675	286,755	9,790	296,545
Total	2,552,696	250,930	3,446,125	121,236	3,567,361
<u>1 9 5 2</u>					
January	209,153	21,458	305,721	11,313	317,034

Primary steel shapes - Shipments of primary shapes by Canadian steel mills, exclusive of producers' interchange, totalled 266,425 net tons in January, 1952 compared with 274,607 tons in January, 1951. The January shipments included 8,412 tons of semi-finished shapes, 11,235 tons of structurals, 21,241 tons of plates, 22,676 tons of rails, 7,685 tons of tie plates and track material, 49,417 tons of hot rolled bars, 16,573 tons of pipes and tubes, 28,179 tons of wire rods, 28,875 tons of black sheets, 10,715 tons of galvanized sheets, 11,173 tons of castings, and 45,561 tons of other rolled products. The amount of producers' interchange was 158,686 tons in January, 1952 as against 136,010 tons in January, 1951.

Of the amounts shipped for sale during January, 54,459 tons went direct to railways and railway car shops; 14,900 tons went to pressing, forming and stamping plants; 38,035 tons to merchant trade products; 34,856 tons to building construction; 21,665 tons to the containers industry; 11,599 tons to agricultural equipment; 15,471 tons to the automotive industry; 16,974 tons to machinery plants; 3,042 tons to shipbuilding; 11,241 tons to mining, lumbering, etc., and 8,536 tons to miscellaneous industries, including National Defence and Public Works and Utilities; wholesalers and warehousing accounted for 23,668 tons, and exports for 11,979 tons. Producers' interchange, or the tonnage shipped to producers' own works for further processing, totalled 158,686 tons in January, 1952.

	J a n u a r y	
	Carbon steel	Alloy steel
	(Tons of 2,000 pounds)	
Automotive industries	9,009	6,462 ✓
Agricultural, including farm machinery .	10,992	607 ✓
Building construction	34,717	139 ✓
Containers industry	21,659	6 ✓
Machinery and tools	15,935	1,039 ✓
Merchant trade products	37,819	216
Mining, lumbering, etc.	9,856	1,385
National defence	5,532	622 ✓

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	J a n u a r y	
	Carbon steel	Alloy steel
	(Tons of 2,000 pounds)	
Pressing, forming and stamping	14,783	117
Public works and utilities	1,162	42
Railway operating	37,686)	214)
Railway cars and locomotives	16,473)	86)
Shipbuilding	2,870	172
Miscellaneous and unclassified	1,017	161
Wholesalers and warehouses	23,539	129
Direct export (a) to British Empire	578	1,418
(b) to other countries ...	9,168	815
Total Shipped for Sale	252,795	13,630
Producers' interchange	158,483	203

Commodity	Country of origin	J a n u a r y		
		Carbon	Alloy	Stainless
		(Tons of 2,000 pounds)		
Pig iron -				
Basic	United States	111	...	...
	Germany	...	...	...
Foundry	United States	...	...	...
	Germany	...	...	...
Malleable	United States	86	...	...
	United Kingdom	...	...	...
Special	United States	...	...	...
	Holland	...	...	...
Ingots	United States	7,797	...	...
	Germany	...	...	...
Billets, blooms, slabs and sheet bars ...	United States	1,297	4	...
	United Kingdom	...	2	...
	Germany	...	...	...
Tube rounds and tube billets	United States	278	...	...
	Belgium	35	...	...
Bars and sections -				
Hot rolled, n.o.p.	United States	5,712	124	40.5
	United Kingdom	832	76	...
	Belgium	9,717	...	...
	France	1,276	...	...
	Japan	992	...	...
	Germany	330	...	...
	Sweden	...	...	...
	Austria	...	...	...
Hot rolled -				
For agricultural implements	United States	3,744	...	...
	United Kingdom	204	...	...
	Belgium	219	...	...
	France	20	...	...
Rounds over 4 $\frac{1}{2}$ " , squares over 4"	United States	116	2	...
	United Kingdom	23	25	...
Angles, channels, etc.	United States	1,351	11	1.1
	Belgium	822	...	...
	United Kingdom	229	...	...
	France	645	...	...
	Germany	...	...	...
Structurals (bar sizes) for agricultural implements	United States	1,956	...	...
	United Kingdom	...	...	...
	France	...	...	...

Table 11 - Imports of Primary Forms of Iron and Steel, January, 1952 (Continued)

Table 11 - Imports of Primary Forms of Iron and Steel, January, 1922 (continued)		J a n u a r y		
Commodity	Country of origin	Carbon	Alloy	Stain- less
(Tons of 2,000 pounds)				
Bars and sections - (concluded)				
Hot rolled - (concluded)				
Sash or casement sections	United States	281	...	...
	Belgium	24	...	...
	United Kingdom	...	...	...
	Germany	...	...	...
Cold rolled, n.o.p.	United States	722	13	2.0
	United Kingdom	198	...	2.2
	Belgium	242	...	...
	Sweden	44	...	...
	Germany	...	...	...
	France	603	...	...
Cold rolled, for agricultural implements	United States	412	8	...
	United Kingdom	...	...	...
	Belgium	35	...	...
Tool steel	United States	23	91	...
	United Kingdom	12	31	...
	Sweden	...	...	...
Structurals	United States	22,865	6	...
	United Kingdom	2,148	...	...
	Belgium	6,734	...	...
	France	3,613	...	...
	Germany	25	...	...
	Japan	420	...	...
Plates -				
78" and under in width	United States	11,483	54	103.3
	United Kingdom	843	...	3.5
	France	466	...	...
	Germany	2,195	...	...
	Japan	328	...	...
	Belgium	348	...	...
	Austria	...	...	...
Over 78" and under 100" in width	United States	6,172	1	6.5
	United Kingdom	928	...	...
	Belgium	75	...	...
	France	85	...	...
	Austria	...	...	...
	Germany	...	...	...
100" in width and over	United States	945	44	...
	United Kingdom	...	...	...
	Belgium	...	...	...
	Germany	...	...	...
Flanged, dished or curved	United States	261	...	...
	United Kingdom	...	...	...
Boiler, pulp-mill digesters	United States	225	...	...
	United Kingdom	75	...	...
	Belgium	...	...	...
	France	...	...	...
	Japan	...	...	...
Chequered or surface pattern	United States	850	...	...
	United Kingdom	...	...	...
Painted	United States	...	...	...
Sheets -				
Silicon .075 or more	United States	...	3,299	...
	United Kingdom	...	39	...
Galvanized	United States	1,372	...	...
	United Kingdom	165	...	...
	France	...	...	...

Table 11 - Imports of Primary Forms of Iron and Steel, January, 1952 (Continued)

Table 11 - Imports of Primary Forms of Iron and Steel, January, 1952 (continued)				
Commodity	Country of origin	J a n u a r y		
		Carbon	Alloy	Stain- less
(Tons of 2,000 pounds)				
Sheets - (continued)				
Galvanized (concluded)	Germany	...	...	...
	Belgium	...	...	...
Hot rolled -				
18 gauge and heavier	United States	9,496	76	131.9
	Germany	570	...	...
	Belgium	265	...	...
	United Kingdom	134	...	38.3
	France	...	...	...
	Sweden	...	2	...
	Japan	...	...	...
Lighter than 18 gauge	United States	646	51	49.6
	United Kingdom	6	...	...
	Belgium	...	...	...
	France	...	...	...
	Japan	...	...	...
	Germany	...	...	...
For hollow ware (vitreous enamel) ...	United States	86	...	...
	United Kingdom	...	...	...
	Belgium	...	...	...
	France	...	...	...
	Germany	...	...	...
Corrugated	United States	833	...	...
	United Kingdom	29	...	...
Coated with paint, tar, asphaltum, etc.	United States	111	...	...
	Germany	...	...	...
For saws	United States	25	90	...
	United Kingdom	...	...	...
For cold rolled strip	United States	...	...	...
For tubes	United States	234	...	...
Cold rolled -				
18 gauge and heavier	United States	3,891	21	89.1
	United Kingdom	16	...	...
	Belgium	...	...	...
	Italy	...	..	...
	Germany	...	...	...
	France	...	...	...
Lighter than 18 gauge	United States	3,157	...	155.8
	United Kingdom	56	...	.4
	Sweden	...	...	...
	France	...	...	...
	Belgium	...	...	...
	Germany	...	...	...
For hollow ware (vitreous enamel) ...	United States	557	...	...
	United Kingdom	...	...	...
	France	...	...	...
	Belgium	...	...	...
	Germany	...	...	...
Black plate - Tin mill	United States	2	...	...
	United Kingdom	...	...	...
Coated with paint, tar, asphaltum, etc.	United States	62	...	...
	United Kingdom	...	...	...
	Sweden	...	...	...
	Germany	...	...	...
For heating apparatus	United States	92	...	...
For saws	United States	...	...	...
	Sweden	...	1	...
For tubes	United States	465	...	...
Tin plate - Primes	United States	...	...	...
	United Kingdom	81	...	...
- Seconds	United Kingdom	...	...	...

Table 11 - Imports of Primary Forms of Iron and Steel, January, 1952 (Continued)

Commodity	Country of origin	J a n u a r y		
		Carbon	Alloy	Stain- less
		(Tons of 2,000 pounds)		
Sheets - (concluded)				
Tin plate - Electrolytic 25#	United States	26	...	...
	United Kingdom	3	...	...
Terne plate - Long	United States	450	...	...
	United Kingdom	...	...	...
Short	United States	121	...	...
	United Kingdom	...	...	...
Strip -				
Hot rolled -				
18 gauge and heavier	United States	2,482	4	2.5
	United Kingdom	41	...	...
	Belgium	46	...	...
	France	...	...	...
	Germany	...	...	...
Lighter than 18 gauge	United States	86	...	45.9
	United Kingdom	...	...	...
	Belgium	...	...	...
	France	...	...	...
For cold rolling	United States	430	...	...
	United Kingdom	...	...	...
Painted	United States	11	...	...
	United Kingdom	...	...	...
For shoe and corset laces, buckles, ball bearings, etc.	United States	...	...	...
For saws	United States	111	7	...
	United Kingdom	...	...	...
	Sweden	...	...	...
For motor vehicles	United States	2,285	...	...
	Belgium	...	...	...
For hoops	United States	171	...	...
	United Kingdom	...	...	...
	Belgium	...	...	...
	Sweden	...	...	...
For tubes	United States	36	...	...
	Belgium	...	...	...
For tubular products	United States	2	...	...
Silicon .075 or more	United States	...	...	...
Cold rolled -				
18 gauge and heavier	United States	504	6	132.5
	United Kingdom	...	...	...
	Sweden	1	...	...
	Germany	...	...	...
	Belgium	...	...	...
Lighter than 18 gauge	United States	462	17	64.7
	Sweden	4	1	...
	United Kingdom	48	...	.9
	France	...	...	...
	Belgium	...	...	...
	Germany	...	...	...
Painted	United States	1,700	...	...
	Germany	15	...	...
	United Kingdom	...	...	...
For shoe and corset laces, buckles, ball bearings, etc.	United States	8
	United Kingdom
For saws	United States	...	22	...
	Sweden	...	14	...
	United Kingdom

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Table 11 - Imports of Primary Forms of Iron and Steel, January, 1952 (Continued)

Commodity	Country of origin	J a n u a r y		
		Carbon	Alloy	Stain- less
		(Tons of 2,000 pounds)		
Strip - (concluded)				
Cold rolled - (concluded)				
For tubes	United States	202	...	...
	France	...	...	...
	Germany	...	...	...
	Belgium	...	...	...
For tubular products	United States	190	...	...
For butt hinges	United States	565	...	...
	United Kingdom	...	...	...
Silicon .075 or more	United States	...	...	...
For hoops	United States	...	...	...
	United Kingdom	...	...	...
Galvanized strip	United States	550	...	...
	United Kingdom	71	...	...
	Germany	...	...	...
Skelp -				
15 $\frac{3}{8}$ " in width	United States	11,956	...	...
	France	...	...	...
	Belgium	...	...	...
	United Kingdom	1,136	...	...
	Germany	...	...	...
Over 15 $\frac{3}{8}$ " in width	United States	1,022	...	...
	Germany	...	...	...
Plate	United States	645	...	...
Pipes and tubes -				
Cast	United States	9	...	...
	United Kingdom	849	...	...
	Germany	...	...	...
	Sweden	...	...	...
Bedstead	United States	...	...	...
	France	...	...	...
	United Kingdom	4	...	...
	Belgium	...	...	...
	Denmark	...	...	...
	Sweden	...	...	...
Repair of pressure parts of boilers -				
Hot finished	United States	916	9	...
	United Kingdom	933	...	...
	Sweden	...	...	...
	France	...	...	...
Cold drawn	United States	470	...	14.6
	United Kingdom	393	...	1.4
	Sweden	1	...	...
Welded	United States	269	...	.8
	United Kingdom	21	...	...
Seamless, 12" and under in diameter -				
Cold drawn	United States	475	72	9.4
	United Kingdom	209	2	16.3
	Sweden	44	...	...
	Germany	...	...	...
Hot finished	United States	995	156	...
	United Kingdom	291	...	4.2
	Czechoslovakia	...	...	...
	Germany	...	...	...
	France	...	...	...
	Sweden	...	...	...
Seamless, over 12" in diameter -				
Hot finished	United States	458	...	...
	United Kingdom	11	...	...

Table 11 - Imports of Primary Forms of Iron and Steel, January, 1952 (Continued)

Commodity	Country of origin	J a n u a r y		
		Carbon	Alloy	Stainless
		(Tons of 2,000 pounds)		
Pipes and tubes - (concluded)				
Welded, 4" and under in diameter	United States	569	...	1.3
	United Kingdom	249	...	...
	Belgium	...	...	...
	Czechoslovakia	...	...	...
	Holland	...	...	...
	Germany	...	...	...
	France	...	...	...
Welded, over 4" in diameter	United States	145	...	...
	United Kingdom	17	...	...
	Germany	...	...	...
	Belgium	...	...	...
Tubing -				
Not over $\frac{1}{2}$ " diameter, welded and coated	United States	57	...	...
Spiral welded	United States	132	...	...
Casings	United States	3,474	...	...
	United Kingdom	1,506	...	...
	Germany	...	...	...
	Netherlands	...	...	...
	Belgium	...	...	...
	France	...	...	...
	Italy	...	...	...
Fittings and couplings	United States	380	...	1.3
	United Kingdom	13	...	...
	Germany	...	...	...
Wire rope	United States	201	...	...
	United Kingdom	104	...	...
	Belgium	...	...	...
	Germany	...	...	...
	Holland	24	...	...
	France	...	...	...
Wire for rope	United States	2,468	...	...
	United Kingdom	821	...	...
	Norway	...	...	...
	Belgium	...	...	...
	Germany	...	...	...
Wire - For fencing, galvanized	United States	...	...	...
For corset laces, steels, etc. ...	United States	8	...	...
	United Kingdom	...	...	...
For spring mattresses, etc.	United States	380	...	...
	United Kingdom	6	...	...
	Czechoslovakia	...	...	...
	Belgium	...	...	...
	Germany	...	...	...
Wire cloth and netting	United States	148	...	...
	United Kingdom	14	...	...
	Germany	...	...	...
Wire, coated	United States	118	...	...
	United Kingdom	...	...	...
	France	...	...	...
	Germany	...	...	...
	Belgium	...	...	...
Wire, all other	United States	1,266	1	1.8
	United Kingdom	11	...	...
	Germany	1	...	...
	France	...	...	...
	Sweden	6	...	...
	Belgium	66	...	...

Table 11 - Imports of Primary Forms of Iron and Steel, January, 1952 (Concluded)

Commodity	Country of origin	J a n u a r y		
		Carbon	Alloy	Stain- less
		(Tons of 2,000 pounds)		
Wire rods, not over $\frac{3}{8}$ " in diameter	United States	25	...	...
	France	...	...	...
	Belgium	275	...	...
	Germany	199	...	...
	United Kingdom	...	...	...
	Sweden
Welding wire and welding rods	United States	112	16	4.2
	United Kingdom
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Castings -				
For agricultural implements	United States	689	38	...
	United Kingdom
For ingot moulds	United States	1,673	...	...
	United Kingdom	...	...	...
Malleable	United States	139	...	...
Non-malleable	United States	148	...	...
	United Kingdom	...	...	...
Steel	United States	22	1	.9
	Germany	1	...	...
	United Kingdom	...	...	...
For railway vehicles	United States	1	...	...
	France	...	...	...
Rolls	United States	386	98	...
	United Kingdom	21	4	...
Piston rings (rough)	United States	7
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Forgings	United States	164	4	1.3
	United Kingdom	283
	Germany
Wheels - For railway rolling stock	United States	45
	United Kingdom	558	...	...
Tires - For railway rolling stock	United States	25	...	...
	United Kingdom	275	...	...
Rails - 60 lb. and under	United States	260	...	...
	Belgium	...	...	...
	France	106	...	...
	Germany	...	...	...
	United Kingdom	...	...	...
Over 60 lb. and including 100 lb.	United States	231	...	...
	United Kingdom	...	...	...
Over 100 lb.	United States	...	...	...
	United Kingdom	...	...	...
Axles - For railway vehicles	United States	5	...	...
	United Kingdom	76	...	...
Track material -				
Angles, bars, tie plates, rail joints	United States	257	...	...
	Belgium	...	...	...
	France	...	...	...
	United Kingdom	...	...	...
	Germany	...	...	...
Intersections, switches, frogs	United States	36	...	...
	France	4
<hr/>				
Total Imports	United States	128,894	4,346	861.0
	All other	44,864	197	67.2
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TOTAL		173,758	4,543	928.2



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Primary Iron and Steel

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Table 12 - Exports of Primary Iron and Steel, January, 1952

	January
	(Tons of 2,000 pounds)
Pig iron	42,270
Ingots, blooms and billets	11,000
Bars	2,000
Rods	33
Plates, sheets and strips	1,968
Rails .....	...
Structural shapes	355
Pipe and tubing - Wrought iron	107
Cast iron	85
Galvanized	103
Other	122
Castings, iron and steel	1,565
Forgings	898
Total	60,506