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PRIMARY IRON AND STEEL

JANUARY, 1953

Pig Iron - Production of pig iron in Canada amounted to 244,606 tons in January, 1953, compared with 209,153 tons in the corresponding month of last year. The total for the current month included 189,199 tons of basic iron, 22,834 tons of foundry iron and 32,573 tons of malleable iron.

Ferro-alloys - Output of ferro-alloys in January amounted to 15,671 tons, compared with 18,437 tons in the previous month and with 21,458 tons in January of a year ago. The following alloys were produced: ferrosilicon, silicomanganese, ferro-manganese, ferrochrome, chrom-x and ferrophosphorus.

The January, 1953 shipments of ferro-alloys amounted to 15,207 tons, including domestic shipments of 5,286 tons and export shipments of 9,921 tons.

Steel Ingots and Castings - Production of steel ingots and steel castings during January, 1953 totalled 346,648 tons, compared with 317,034 tons in January of last year. Output in the month under review included 339,215 tons of ingots and 7,433 tons of castings.

(a) Pig Iron and Ferro-alloys

Table 1 - Production During January, 1952 and 1953

	January, 1952		January, 1953	
	Tonnage made (*)	Tonnage shipped	Tonnage made (*)	Tonnage shipped
	(Net tons of 2,000 pounds)			
Pig iron -				
Basic	162,105	20,632	189,199	2,622
Foundry	13,784	14,479	22,834	16,622
Malleable	33,264	31,730	32,573	23,103
Total Pig Iron	209,153	66,841	244,606	42,347
Ferro-alloys	21,458	21,341	15,671	15,207

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

Table 2 - Iron Blast Furnace Charges During January, 1952 and 1953

	1952	1953
	(Net tons of 2,000 pounds)	
Iron ore - Canadian	123,355	85,101
Imported	244,198	327,113
Mill cinder, scale, sinter, etc.	36,335	70,035
Limestone	87,126	81,246
Dolomite	9,771	28,749
Coke	196,695	230,654
Scrap iron and steel	5,080	8,263

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	3	595,000
Canadian Furnace Limited	Port Colborne, Ontario	2	223,000
The Steel Company of Canada, Ltd.	Hamilton, Ontario	4	1,245,000
The Algoma Steel Corporation	Sault Ste. Marie, Ontario	5	1,035,000
	Total	15	3,378,000

(*) As of January 1, 1953.

Table 4 - Description of Iron Blast Furnaces at End of January, 1953

Condition of furnaces	Number of furnaces	Total annual capacity	
		Net tons	Per cent
In blast	13	3,213,700	95.1
Banked	...	...	...
Blown out	2	164,300	4.9
Total	15	3,378,000	100.0

(b) Steel Ingots and Steel Castings

Table 5 - Production and Sales During January, 1952 and 1953

	January, 1952		January, 1953	
	Tonnage made (*)	Tonnage shipped	Tonnage made (*)	Tonnage shipped
	(Net tons of 2,000 pounds)			
Steel Ingots				
Open hearth - basic	255,088	25,530	299,624	6,811
Electric	50,633	7,754	39,591	3,006
Total Steel Ingots	305,721	33,284	339,215	9,817
Alloy steel ingots included in above ...	15,833	41	17,520	99
Steel Castings				
Open hearth - basic	2,974	2,649	1,829	1,406
Converter	1	...	59	44
Electric	8,338	6,422	5,545	4,151
Total Steel Castings	11,313	9,071	7,433	5,601
Alloy steel castings included in above:				
(a) High alloy, except manganese and abrasion resistant	91	93	90	56
(b) High alloy, manganese and abrasion resistant	4,864	4,639	924	824
(c) All other alloys	247	287	858	202

(*) 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, 1952 and 1953

	1952	1953
	(Net tons of 2,000 pounds)	
Pig iron	172,572	181,006
Scrap - Own make	84,378	93,892
Purchased	89,092	107,048

Table 7 - Steel Furnace Capacity at First of January, 1953

	Annual capacity
	(Net tons of 2,000 pounds)
Ingots - Basic open hearth	3,573,900
Electric	728,900
Total ingots	4,302,800
Steel castings	322,200
Total Ingots and Castings	4,625,000

Table 8 - Monthly Production of Pig Iron, Ferro-alloys and Steel, 1952 and 1953

Month	Pig iron	Ferro-alloys	Steel		
			Ingots	Castings	Total steel
	(Net tons of 2,000 pounds)				
1952					
January	209,153	21,458	305,721	11,313	317,034
February	199,162	22,171	294,346	11,519	305,865
March	240,755	23,097	327,885	11,511	339,396
April	214,330	19,856	304,956	11,685	316,641
May	237,079	21,112	318,890	11,634	330,524
June	229,266	17,591	294,006	11,449	305,455
July	229,561	15,508	285,332	8,076	293,408
August	221,387	16,583	279,805	9,339	289,144
September	222,686	17,641	277,684	10,334	288,018
October	220,464	19,152	298,886	9,011	307,897
November	225,490	19,430	300,226	8,400	308,626
December	232,732	18,437	311,918	7,766	319,684
Total	2,682,065	232,036	3,599,655	122,037	3,721,692
1953					
January	244,606	15,671	339,215	7,433	346,648

Primary steel shapes - Shipments of primary shapes by Canadian steel mills, exclusive of producers' interchange, totalled 273,355 net tons in January, 1953, compared with 266,425 tons in January, 1952. The January, 1953 shipments included 19,568 tons of semi-finished shapes, 22,402 tons of structurals, 21,638 tons of plates, 17,880 tons of rails, 7,717 tons of tie plates and track material, 44,926 tons of hot rolled bars, 18,296 tons of pipes and tubes, 22,456 tons of wire rods, 33,973 tons of black sheets, 9,110 tons of galvanized sheets, 6,907 tons of castings, and 48,482 tons of other rolled products. The amount of producers' interchange was 140,104 tons in January, 1953, as against 158,686 tons in January, 1952.

Of the amounts shipped for sale during January, 42,948 tons went direct to railways and railway car shops; 11,002 tons went to pressing, forming and stamping plants; 27,607 tons to merchant trade products; 35,792 tons to building construction; 28,349 tons to the containers industry; 10,597 tons to agricultural equipment; 27,851 tons to the automotive industry; 14,234 tons to machinery plants; 3,491 tons to shipbuilding; 13,754 tons to mining, lumbering, etc., and 10,800 tons to miscellaneous industries, including national defence and public works and utilities; wholesalers and warehousing accounted for 33,307 tons, and exports for 13,623 tons. Producers' interchange, or the tonnage shipped to producers' own works for further processing, totalled 140,104 tons in January, 1953.

Table 9 - Production and Producers' Shipments of Primary Iron and Steel Shapes, January, 1953

	Production (Including producers' interchange)	Shipments	
		For sale	Producers' interchange
	(Tons of 2,000 pounds)		
Carbon Steel			
Billets, etc., for forging	15,786	9,784	4,572
Other semi-finished shapes, not for re-rolling by makers	26,809	8,587	23,764
Structural shapes and piling	21,502	22,402	...
Plates	21,128	21,576	...
Rails	19,976	17,880	...
Tie plates and track material: Splice bars	998	966	...
Tie plates	5,335	5,163	...
Spikes	1,645	1,588	...
Concrete reinforcing bars	13,316	12,370	...
Hot rolled bars for cold finishing	1,205	...	1,205

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 9 - Production and Producers' Shipments of Primary Iron and Steel Shapes, January, 1953 (Concluded)

	Production (Including producers' interchange)	Shipments For sale	Shipments Producers' interchange
	(Tons of 2,000 pounds)		
Carbon Steel (Concluded)			
Other hot rolled bars	47,914	35,323	8,987
Pipes and tubes	20,690	18,296	...
Wire rods	23,337	22,376	53
Hot rolled black sheets	79,144	20,818	58,502
Cold reduced black sheets	20,080	13,155	6,207
Galvanized sheets	8,967	9,110	...
Steel castings	5,275	5,062	...
All other products (includes tool steel, cold finished bars, tin mill black plate, tin plate, cold reduced strip and axles and all other)	71,844	34,778	36,614
Total - Carbon Steel	404,951	259,234	139,904
Alloy Steel			
Billets, etc., for forging	731	1,197	...
Other semi-finished shapes, not for re-rolling by makers	139	...	139
Structural shapes and piling	...	...	...
Plates	92	62	...
Hot rolled bars for cold finishing	64	...	61
Other hot rolled bars	8,756	9,603	...
Pipes and tubes	...	...	...
Wire rods	79	80	...
Steel castings	1,938	1,845	...
All other products (includes tool steel, cold finished bars, tin mill black plate, tin plate, stainless steel, cold reduced strip and axles and all other)	1,372	1,334	...
Total - Alloy Steel	13,171	14,121	200

Table 10 - Producers' Shipments, for Sale, of Primary Iron and Steel Shapes, Subdivided According to Principal Consuming Industries, January, 1953

	January, 1953	
	Carbon steel	Alloy steel
	(Tons of 2,000 pounds)	
Automotive industries	18,548	9,303
Agricultural, including farm machinery	10,414	183
Building construction	35,719	73
Containers industry	28,340	9
Machinery and tools	13,625	609
Merchant trade products	27,241	366
Mining, lumbering, etc.	12,760	994
National defence	7,167	315
Pressing, forming and stamping	10,892	110
Public works and utilities	1,943	40
Railway operating	26,303	185
Railway cars and locomotives	16,340	120
Shipbuilding	3,410	81
Miscellaneous and unclassified	1,159	176
Wholesalers and warehouses	33,189	118
Direct export (a) to British Empire	6,990	93
(b) to other countries	5,194	1,346
Total Shipped for Sale	259,234	14,121
Producers' interchange	139,904	200

Table 11 - Imports of Primary Forms of Iron and Steel, January, 1953

Commodity	Country of origin	January, 1953		
		Carbon	Alloy	Stainless
		(Tons of 2,000 pounds)		
Pig iron -				
Silvery	United States	299	...	...
Malleable	United States	1,591	...	...
	France	110	...	...
Ingots	United States	48	...	...
Billets, blooms, slabs and sheet bars	United States	33	...	...
	United Kingdom	...	...	...
Tube rounds and tube billets	United States	635	...	1.9
	Belgium	...	...	...
	United Kingdom	...	...	...
Bars and sections -				
Hot rolled, n.o.p.	United States	3,868	1,411	1.2
	United Kingdom	181	93	1.1
	Belgium	133	...	...
	France	...	...	...
	Japan	...	...	...
	Germany	...	...	...
	Sweden	...	...	...
Hot rolled -				
For agricultural implements	United States	911	...	...
	United Kingdom	33	...	...
	Belgium	...	...	...
	France	...	...	...
Rounds over 4-7/8", squares over 4"	United States	214	4	...
	United Kingdom	131	56	...
	France	24	...	...
Angles, channels, etc.	United States	1,163	...	14.2
	Belgium	40	...	...
	United Kingdom	3	...	...
	France	...	...	...
	Germany	...	...	...
	Japan	...	...	...
Structurals (bar sizes) for agricultural implements	United States	1,699	...	...
	United Kingdom	...	...	...
Sash or casement sections	United States	146	...	...
	Belgium	...	...	...
	Germany	...	...	...
Cold rolled, n.o.p.	United States	546	9	2.3
	United Kingdom	94	1	...
	Belgium	5	...	...
	Sweden	...	...	...
	Germany	...	...	...
	France	...	...	...
Cold rolled, for agricultural implements	United States	583	...	...
	United Kingdom	...	...	...
	Belgium	...	...	...
Tool steel	United States	12	80	...
	United Kingdom	65	121	...
	Belgium	...	...	...
Structurals	United States	15,317	...	...
	United Kingdom	252	...	...
	Belgium	592	...	...
	France	174	...	...
	Germany	...	...	...
	Japan	...	...	...

Table 11 - Imports of Primary Forms of Iron and Steel, January, 1953 (Continued)

Commodity	Country of origin	January, 1953		
		Carbon	Alloy	Stainless
		(Tons of 2,000 pounds)		
Plates -				
78" and under in width	United States	5,734	12	46.4
	United Kingdom	264	...	...
	France	...	...	...
	Germany	39	...	...
	Japan	529	...	...
	Belgium	33	...	...
	Austria	...	...	...
	Italy	...	...	...
Over 78" and under 100" in width	United States	2,832	...	...
	United Kingdom	420	...	...
	Belgium	...	...	...
	France	...	...	...
	Japan	...	...	...
	Austria	...	...	...
	Germany	...	...	...
100" in width and over	United States	343	...	...
	United Kingdom	13	...	...
	Belgium	...	...	...
	Japan	...	...	...
Flanged, dished or curved	United States	155	...	.1
	United Kingdom	...	...	...
Boiler, pulp-mill digesters	United States	365	...	...
	United Kingdom	...	...	...
	Belgium	...	...	...
	Japan	...	...	...
Chequered or surface pattern	United States	1,045	...	...
	United Kingdom	114	...	...
	Belgium	...	...	...
Sheets -				
Silicon .075 or more	United States	...	1,920	...
	United Kingdom	...	100	...
Strip - Silicon .075 or more	United States	...	560	...
Sheets - Galvanized	United States	1,092	...	...
	United Kingdom	99	...	...
Hot rolled -				
18 gauge and heavier	United States	6,302	31	45.9
	Germany	...	...	...
	Belgium	...	...	...
	United Kingdom	1,085	...	5.7
	France	...	...	...
	Sweden	...	...	...
	Japan	...	...	...
Lighter than 18 gauge	United States	99	1	16.4
	United Kingdom	...	...	1.5
For cold rolling	United States	...	...	...
For hollow ware (vitreous enamel) ...	United States	761	...	...
	United Kingdom	856	...	...
Corrugated	United States	363	...	...
	United Kingdom	...	...	...
Coated with paint, tar, asphaltum, etc.	United States	235	...	...
For saws	United States	...	40	...
	United Kingdom	...	4	...
	Sweden	...	1	...
For motor vehicles	United States	660	...	...
Cold rolled -				
18 gauge and heavier	United States	1,794	...	66.5
	United Kingdom	15	...	36.4

Table 11 - Imports of Primary Forms of Iron and Steel, January, 1953 (Continued)

Commodity	Country of origin	January, 1953		
		Carbon	Alloy	Stainless
		(Tons of 2,000 pounds)		
Sheets (Concluded) -				
Cold rolled (Concluded) -				
Lighter than 18 gauge	United States	2,286	...	130.0
	United Kingdom	284	...	3.3
	Belgium	...	...	...
For hollow ware (vitreous enamel)	United States	...	...	...
	United Kingdom	...	...	...
Black plate - Tin mill	United States	...	...	...
Coated with paint, tar, asphaltum, etc.	United States	...	...	...
For heating apparatus	United States	...	...	...
For saws	United States	...	...	...
	Sweden	...	...	...
For tubes	United States	...	...	...
Tin plate - Primes	United Kingdom	7	...	...
	United States	4	...	...
Electrolytic 25#	United States	...	...	...
	United Kingdom	...	...	...
Terne plate - Long	United States	652	...	...
	United Kingdom	...	...	...
Short	United States	235	...	...
	United Kingdom	...	...	...
Strip -				
Hot rolled -				
18 gauge and heavier	United States	1,734	52	.3
	United Kingdom	...	...	...
	Belgium	6	...	...
	France	...	...	...
Lighter than 18 gauge	United States	15	1	...
	United Kingdom	...	...	...
	Belgium	...	...	...
For cold rolling	United States	111	...	...
	United Kingdom	...	...	...
Painted	United States	...	...	...
For shoe and corset laces, buckles, ball bearings, etc.	United States	...	...	...
	United Kingdom	...	...	...
For saws	United States	10	32	...
	United Kingdom	...	5	...
	Sweden	...	...	...
For motor vehicles	United States	...	...	...
For hoops	United States	...	...	...
	United Kingdom	...	...	...
	Belgium	...	...	...
For tubes	United States	...	...	...
	United Kingdom	...	...	...
For tubular products	United States	...	...	...
Cold rolled -				
18 gauge and heavier	United States	597	4	20.2
	United Kingdom	2	...	...
	Sweden	1	...	...
	Germany	...	...	...
Lighter than 18 gauge	United States	336	3	86.4
	Sweden	38	...	.7
	United Kingdom	...	...	...
	Germany	...	...	...
Painted	United States	550	...	...
	Germany	18	...	...

Table 11 - Imports of Primary Forms of Iron and Steel, January, 1953 (Continued)

Commodity	Country of origin	January, 1953		
		Carbon	Alloy	Stainless
		(Tons of 2,000 pounds)		
Strip (Concluded) -				
Cold rolled (Concluded) -				
For shoe and corset laces, buckles, ball bearings, etc.	United States	...	...	...
	United Kingdom	...	...	...
For saws	United States	16	3	...
	Sweden	1	9	...
For tubes	United States	391	...	...
For tubular products	United States	86	...	...
For butt hinges	United States	227	...	...
	United Kingdom	...	...	...
	Sweden	...	...	...
For hoops	United States	230	...	...
	United Kingdom	83	...	...
For motor vehicles	United States	1,682	...	...
Galvanized strip	United States	440	...	...
	United Kingdom	33	...	...
	Germany	...	...	...
	Belgium	...	...	...
Skelp -				
15-3/8" in width	United States	9,999	...	...
	France	...	...	...
	Belgium	...	...	...
	United Kingdom	...	...	...
	Germany	7	...	...
Over 15-3/8" in width	United States	745	...	...
Plate	United States	204	...	...
Pipes and tubes -				
Cast	United States	150	...	...
	United Kingdom	1,363	...	...
	Germany	...	...	...
Bedstead	United States	1	...	...
	United Kingdom	1	...	...
Repair of pressure parts of boilers -				
Hot finished	United States	781	46	26.1
	United Kingdom	70	...	...
	Sweden	...	...	...
Cold drawn	United States	41	11	.2
	United Kingdom	...	...	.2
	Sweden	...	...	...
Welded	United States	342	...	...
	United Kingdom	90	...	...
Seamless, 12" and under in diameter -				
Cold drawn	United States	245	155	36.8
	United Kingdom	217	...	10.8
	Sweden	...	...	...
	Germany	...	...	...
	Belgium	...	...	...
	Japan	...	...	...
Hot finished	United States	1,317	347	20.1
	United Kingdom	875	...	...
	Germany	...	...	...
	Sweden	...	84	...
Seamless, over 12" in diameter -				
Hot finished	United States	492	...	2.9
	United Kingdom	577	...	...

Table 11 - Imports of Primary Forms of Iron and Steel, January, 1953 (Continued)

Commodity	Country of origin	January, 1953		
		Carbon	Alloy	Stainless
		(Tons of 2,000 pounds)		
Pipes and tubes (Concluded) -				
Seamless, over 12" in diameter (Concluded) -				
Welded, 4" and under in diameter	United States	337	...	13.6
	United Kingdom	422	...	...
	Belgium	55	...	...
Welded, over 4" in diameter	United States	9,946	...	4.6
	United Kingdom	112	...	...
	Germany	...	...	...
	Belgium	...	...	...
Tubing -				
Not over ½" diameter, welded and coated	United States	21	...	...
Spiral welded	United States	5	...	...
Conduit	United States	220	...	...
Casings	United States	6,645	...	...
	United Kingdom	501	...	...
	Germany	221	...	...
	Japan	268	...	...
Fittings and couplings	United States	394	...	3.1
	United Kingdom	23	...	...
	Germany	21	...	...
	Japan	7	...	...
Wire rope	United States	9	...	...
	United Kingdom	76	...	...
	Belgium	21	...	...
	Germany	22	...	...
	Holland	...	...	...
Wire for rope	United States	642	...	.4
	United Kingdom	989	...	...
	Belgium	...	...	...
	West Germany	5	...	...
Wire - For corset laces, steels, etc. ..	United States	7	...	...
	United Kingdom	...	...	...
For spring mattresses, etc.	United States	451	...	...
	United Kingdom	68	...	...
Wire cloth and netting	United States	...	...	...
	United Kingdom	...	...	...
	Belgium	...	...	...
Wire, coated	United States	8	...	...
	United Kingdom	...	...	...
	Germany	...	...	...
	Belgium	...	...	...
Wire, all other	United States	369	...	1.3
	United Kingdom	2	...	...
	Germany	...	...	...
	Italy	...	...	...
	Sweden	...	...	...
	Belgium	...	...	...
	France	...	...	...
Wire rods, not over 3/8" in diameter ...	United States	432	...	...
	Belgium	...	...	...
	Germany	...	...	...
Welding wire and welding rods	United States	565	6	...
	Belgium	...	...	...
	Japan	...	...	...
	United Kingdom	...	...	...

Table 11 - Imports of Primary Forms of Iron and Steel, January, 1953 (Concluded)

Commodity	Country of origin	January, 1953		
		Carbon	Alloy	Stainless
		(Tons of 2,000 pounds)		
Castings -				
For agricultural implements	United States	86	...	...
For ingot moulds	United States	4,577	...	...
	United Kingdom	272	...	...
Malleable	United States	59	...	...
	United Kingdom	...	...	...
Non-malleable	United States	78	...	...
Steel	United States	7	7	...
	Germany	...	...	...
	United Kingdom	4	...	...
	France	21	...	...
	Norway	99	...	...
	Belgium	...	...	...
For railway vehicles	United States	2	...	...
	United Kingdom	...	...	...
Rolls	United States	542	1	...
	United Kingdom	...	...	...
	Germany	...	...	...
	France	...	...	...
Piston rings (rough)	United States	16	...	...
Forgings	United States	80	14	1.7
	United Kingdom	8	...	...
	France	...	...	...
Wheels - For railway rolling stock	United States	36	...	...
	United Kingdom	66	...	...
Tires - For railway rolling stock	United States	1	...	...
	United Kingdom	...	...	...
Axles - For railway vehicles	United States	...	...	...
	United Kingdom	...	...	...
Rails -				
60 lb. and under	United States	162	...	...
	Belgium	234	...	...
	United Kingdom	53	...	...
	Germany	...	...	...
Over 60 lb. and including 100 lb.	United States	241	...	...
Over 100 lb.	United States	36	...	...
Track material -				
Angles, bars, tie plates, rail joints	United States	106	...	...
	Belgium	8	...	...
	United Kingdom	2	...	...
	Germany	...	...	...
Intersections, switches, frogs	United States	14	...	...
	France	...	...	...
	Belgium	1	...	...
Total Imports	United States	98,858	4,751	542.6
	All other	12,558	474	59.7
TOTAL		111,416	5,225	602.3

Table 12 - Exports of Primary Iron and Steel, January, 1953

	January, 1953
	(Tons of 2,000 pounds)
Pig iron	8,569
Ingots, blooms and billets	19,794
Bars	2,757
Rods	14
Plates, sheets and strips	9,952
Rails	...
Structural shapes	906
Pipe and tubing - Wrought iron	...
Cast iron	54
Galvanized	...
Other	120
Castings, iron and steel	1,933
Forgings	1,598
Total	45,697

6502-539
25-3-53