

# DOMINION BUREAU OF STATISTICS

OTTAWA - CANADA



Published by Authority of the Rt. Hon. C. D. Howe, Minister of Trade and Commerce

Vol. 9-No. 1 January, 1954.

Price \$2.00 per year - 25¢ per copy

## PRIMARY IRON AND STEEL

Pig Iron - Production of pig iron in Canada amounted to 214,999 tons in January, 1954, compared with 244,606 tons in the corresponding month of last year. The total for the current month included 183,636 tons of basic iron, 12,484 tons of malleable iron and 18,879 tons of foundry iron.

Ferro-alloys - Data on ferro-alloys available only on a quarterly basis in 1954.

Steel Ingots and Castings - Production of steel ingots and steel castings during January, 1954, totalled 298,900 tons compared with 346,648 tons in January of last year. Output in the month under review included 290,487 tons of ingots and 8,413 tons of castings.

### (a) Pig Iron and Ferro-alloys

Table 1 - Production During January, 1953 and 1954

	January, 1953		January, 1954	
	Tonnage made(★)	Tonnage shipped	Tonnage made(★)	Tonnage shipped
	(Net tons of 2,000 pounds)			
<u>Pig iron</u> -				
Basic .....	189,199	2,622	183,636	2,418
Foundry .....	22,834	16,622	18,879	8,551
Malleable .....	32,573	23,103	12,484	23,419
Total pig iron .....	244,606	42,347	214,999	34,388
<u>Ferro-alloys</u> .....	15,671	15,207	Available only on a Quarterly basis in 1954	

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

Table 2 - Iron Blast Furnace Charges During January, 1953 and 1954

	January	
	1953	1954
	(Net tons of 2,000 pounds)	
Iron ore - Canadian .....	85,101	101,756
Imported .....	327,113	275,710
Mill cinder, scale, sinter, etc. ....	70,035	50,854
Limestone .....	81,246	82,040
Dolomite .....	28,749	23,556
Coke .....	230,654	194,862
Scrap iron and steel .....	8,263	4,359

Table 3 - Description of Iron Blast Furnaces at End of January, 1953 and 1954

Condition of furnaces	Number of furnaces	Total annual capacity	
		Net tons	Per cent
In blast .....	9	2,711,500	71
Banked .....	1	266,000	7
Blown out .....	6	840,500	22
Total .....	16	3,818,000	100

Prepared in the Metal and Chemical Products Section - Industry and Merchandising Division.  
6512-539:14-4-54.

(b) Steel Ingots and Steel Castings

Table 4 - Production and Sales During January, 1953 and 1954

	1 9 5 3		1 9 5 4	
	Tonnage made (▲)	Tonnage shipped	Tonnage made (▲)	Tonnage shipped
	(Net tons of 2,000 pounds)			
<u>Steel Ingots</u>				
Open hearth - basic .....	299,624	6,811	262,244	...
Electric .....	39,591	160	28,243	...
Total steel ingots .....	339,215	6,971	290,487	...
Alloy steel ingots included in above .....	17,520	99	11,471	...
<u>Steel Castings</u>				
Open hearth - basic .....	1,829	1,406	2,350	2,039
Converter .....	59	44	...	...
Electric .....	5,545	4,151	6,063	4,587
Total steel castings .....	7,433	5,601	8,413	6,626
Alloy steel castings included in above:				
(a) High alloy, except manganese and abrasion resistant .....	235	201	325	287
(b) High alloy, manganese and abrasion resistant .....	894	794	676	588
(c) All other alloys .....	858	202	859	147

Table 5 - Pig Iron and Scrap Charged to Steel Furnaces During January, 1953 and 1954

	January 1953	January 1954
	(Net tons of 2,000 pounds)	
Pig iron .....	181,006	176,554
Scrap - Own make .....	93,892	94,916
Purchased .....	107,048	47,966

Table 6 - Steel Furnace Capacity at Thirty-First of October, 1953

	Annual capacity
	(Net tons of 2,000 pounds)
Ingots - Basic open hearth .....	3,951,300
Electric .....	714,400
Total ingots .....	4,665,700
Steel castings .....	313,900
Total ingots and castings .....	4,979,600

Table 7 - Monthly Production of Pig Iron, Ferro-alloys and Steel, 1953 and 1954

Month	Pig iron	Ferro- alloys	S t e e l		Total steel
			Ingots	Castings	
(Net tons of 2,000 pounds)					
<u>1 9 5 3</u>					
January .....	244,606	15,671	339,215	7,433	346,648
February .....	225,182	16,017	316,741	9,322	326,063
March .....	238,572	17,680	356,890	10,084	366,974
April .....	241,583	15,980	351,907	10,384	362,291
May .....	271,461	13,148	358,896	10,071	368,967
June .....	266,180	11,997	342,629	9,834	352,463
July .....	272,958	12,124	315,203	8,182	323,385
August .....	267,249	11,416	331,678	7,025	338,703
September .....	243,963	10,483	321,332	8,012	329,344
October .....	265,346	8,522	354,480	8,018	362,498
November .....	254,643	8,777	324,497	8,206	332,703
December .....	220,526	8,779	296,345	9,085	305,430
Total .....	3,012,269	150,595	4,009,813	105,656	4,115,469
<u>1 9 5 4</u>					
January .....	214,999	Available on a quarterly basis only	290,487	8,413	298,900

Primary steel shapes - Shipments of primary shapes by Canadian steel mills, exclusive of producers' interchange, totalled 231,661 net tons in January, 1954, compared with 273,355 tons in January, 1953. The January, 1954 shipments included 4,928 tons of semi-finished shapes, 15,004 tons of structurals, 17,995 tons of plates, 29,172 tons of rails, 5,668 tons of tie plates and track material, 31,298 tons of hot rolled bars, 12,888 tons of pipes and tubes, 17,149 tons of wire rods, 38,961 tons of black sheets, 9,315 tons of galvanized sheets, 8,494 tons of castings, and 40,789 tons of other rolled products. The amount of producers' interchange was 106,012 tons in January, 1954, as against 140,104 tons in January, 1953.

Of the amounts shipped for sale during January, 52,803 tons went direct to railways and railway car shops; 16,021 tons went to pressing, forming and stamping plants; 24,686 tons to merchant trade products; 30,758 tons to building construction; 25,855 tons to the containers industry; 3,815 tons to agricultural equipment; 15,533 tons to the automotive industry; 14,172 tons to machinery plants; 2,359 tons to shipbuilding; 8,992 tons to mining, lumbering, etc., and 6,217 tons to miscellaneous industries, including national defence and public works and utilities; wholesalers and warehousing accounted for 28,387 tons, and exports for 2,063 tons. Producers' interchange, or the tonnage shipped to producers' own works for further processing, totalled 106,012 tons in January, 1954.

Table 8 - Production and Producers' Shipments of Primary Iron and Steel Shapes, January, 1954

	Production		Shipments	
	(Including producers' interchange)	For sale	Producers' interchange	
(Tons of 2,000 pounds)				
<u>Carbon steel</u>				
Billets, etc., for forging .....	6,474	4,498	2,357	
Other semi-finished shapes, not for re-rolling by makers .....	17,214	93	14,392	
Structural shapes and piling .....	12,469	15,004	...	
Plates .....	18,093	17,820	18	
Rails .....	34,550	29,172	...	
Tie plates and track material: Splice bars .....	992	1,515	...	
Tie plates .....	3,291	3,103	...	
Spikes .....	725	1,050	...	
Concrete reinforcing bars .....	8,539	8,617	...	
Hot rolled bars for cold finishing .....	568	...	564	
Other hot rolled bars .....	37,567	26,489	6,764	
Pipes and tubes .....	12,069	12,912	8	
Wire rods .....	18,354	17,125	27	
Hot rolled black sheets .....	80,623	19,690	54,674	
Cold reduced black sheets .....	26,602	19,271	5,737	
Galvanized sheets .....	8,491	9,315	...	
Steel castings .....	6,418	6,703	...	
All other products (includes tool steel, cold finished bars, tin mill black plate, tin plate, hot rolled strip, cold reduced strip, axles, etc.) .....	56,148	31,239	21,438	
Total carbon steel .....	349,187	223,616	105,952	
<u>Alloy Steel</u>				
Billets, etc., for forging .....	674	337	...	
Other semi-finished shapes, not for re-rolling by makers .....	36	...	36	
Structural shapes and piling .....	...	...	...	
Plates .....	235	175	...	
Hot rolled bars for cold finishing .....	...	...	...	
Other hot rolled bars .....	5,690	4,785	24	
Pipes and tubes .....	...	...	...	
Wire rods .....	3	24	...	
Steel castings .....	1,860	1,791	...	
All other products (includes tool steel, cold finished bars, tin mill black plate, tin plate, stainless steel, cold reduced strip, axles, etc.) .....	991	933	...	
Total alloy steel .....	9,489	8,045	60	



Primary Iron and Steel

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Table 9 - Producers' Shipments, for Sale, of Primary Iron and Steel Shapes, Subdivided According to Principal Consuming Industries, January, 1954

	January, 1954	
	Carbon steel	Alloy steel
	(Tons of 2,000 pounds)	
Automotive industries .....	10,702	4,831
Agricultural, including farm machinery .....	3,742	73
Building construction .....	30,694	64
Containers industry .....	25,852	3
Machinery and tools .....	13,513	659
Merchant trade products .....	24,486	200
Mining, lumbering, etc. ....	8,284	708
National defence .....	3,240	371
Pressing, forming and stamping .....	15,901	120
Public works and utilities .....	1,444	17
Railway operating .....	36,972	126
Railway cars and locomotives .....	15,408	297
Shipbuilding .....	2,334	25
Miscellaneous and unclassified .....	1,060	85
Wholesalers and warehouses .....	28,325	62
Direct export (a) to British Empire .....	219	36
(b) to other countries .....	1,440	368
Total shipped for sale .....	243,235	8,045
Producers' interchange .....	105,952	60

Table 10 - Imports of Primary Forms of Iron and Steel, January, 1954

Commodity	Country of origin	January, 1954		
		Carbon	Alloy	Stainless
		(Tons of 2,000 pounds)		
Pig iron -				
Foundry .....	United States	184	...	...
	Australia	335	...	...
Silvery .....	United States	212	...	...
Ingots .....	United States	63	...	...
Billets, blooms, slabs and sheet bars ..	United States	20	4	...
	United Kingdom	...	5	...
Bars and sections -				
Hot rolled, n.o.p. ....	United States	1,746	615	11.1
	United Kingdom	51	24	16.0
	Belgium	356	...	...
	Austria	...	18	...
Hot rolled -				
For agricultural implements .....	United States	221	...	...
Rounds over 4 7/8", squares over 4".	United States	282	2	...
	United Kingdom	12	5	...
Angles, channels, etc. ....	United States	606	...	3.9
	United Kingdom	25	...	...
	Belgium	54	...	...
	Germany	9	...	...
Structurals (bar sizes) for				
agricultural implements .....	United States	27	...	...
Sash or casement sections .....	United States	166	...	...
	United Kingdom	11	...	...
	Belgium	55	...	...
Cold finished, n.o.p. ....	United States	586	27	14.5
	United Kingdom	17	...	...
	Belgium	43	...	...
Cold finished, for agricultural				
implements .....	United States	74	...	...
Tool steel .....	United States	5	32	...
	United Kingdom	8	66	...

Table 10 - Imports of Primary Forms of Iron and Steel, January, 1954 (Continued)

Commodity	Country of origin	January, 1954		
		Carbon	Alloy	Stainless
(Tons of 2,000 pounds)				
Bars and sections - (Concluded)				
Structurals .....	United States	28,278	...	...
	United Kingdom	252	...	...
	Belgium	824	...	...
	France	2,897	...	...
Plates -				
78" and under in width .....	United States	3,741	11	32.2
	United Kingdom	876	...	5.7
	Japan	283	...	...
Over 78" and under 100" in width ..	United States	3,582	...	2.1
	United Kingdom	1,600	...	...
100" in width and over .....	United States	308	...	3.8
Flanged, dished or curved .....	United States	50	...	...
Boiler, pulp-mill digesters .....	United States	414	...	...
Chequered or surface pattern .....	United States	582	...	...
Sheets -				
Silicon .075 or more .....	United States	...	1,380	...
Galvanized .....	United States	2,306	...	...
	United Kingdom	260	...	...
Hot rolled -				
18 gauge and heavier .....	United States	7,080	20	.4
	United Kingdom	569	...	24.1
Lighter than 18 gauge .....	United States	...	3	1.9
Cold rolled -				
18 gauge and heavier .....	United States	897	...	81.4
	United Kingdom	39	...	94.8
Lighter than 18 gauge .....	United States	1,970	...	1.0
	United Kingdom	70	...	26.8
	Sweden	...	...	5.3
For saws .....	United States	...	100	...
	United Kingdom	...	5	...
For tubes .....	United States	77	...	...
Corrugated .....	United States	218	...	...
	United Kingdom	4	...	...
For motor vehicles .....	United States	3,561	...	...
For hollow ware (vitreous enamel) .	United States	1,177	...	...
	United Kingdom	102	...	...
Coated with paint, tar, asphaltum, etc. ....	United States	130	...	...
Tin plate - Primes .....	United Kingdom	22	...	...
Terne plate - Long .....	United States	342	...	...
	Short .....	United States	165	...
Strip -				
Hot rolled -				
18 gauge and heavier .....	United States	372	11	...
	United Kingdom	6	...	...
Cold rolled -				
18 gauge and heavier .....	United States	308	4	11.2
	United Kingdom	13	...	...
Lighter than 18 gauge .....	United States	168	8	172.2
	United Kingdom	4	...	...
	Sweden	...	1	...
For saws .....	United States	...	26	...
	Sweden	...	13	...
For tubes .....	United States	8	...	...
For motor vehicles .....	United States	2,490	...	...
For hoops .....	United States	31	...	...
	United Kingdom	61	...	...

Table 10 - Imports of Primary Forms of Iron and Steel, January, 1954 (Concluded)

Commodity	Country of origin	January, 1954		
		Carbon	Alloy	Stainless
		(Tons of 2,000 pounds)		
Strip - (Concluded)				
Coated with paint, tar, asphaltum .	United States	404	...	...
For butt hinges .....	United States	98	...	...
Silicon .075 or more .....	United States	...	357	...
Galvanized .....	United States	308	...	...
	United Kingdom	81	...	...
	Belgium	1	...	...
Skelp -				
15 3/8" and under in width .....	United States	6,504	...	...
Over 15 3/8" in width .....	United States	442	...	...
Pipes and tubes -				
Cast .....	United States	350	...	...
	United Kingdom	143	...	...
	Germany	37	...	...
Repair of pressure parts of boilers -				
Hot finished .....	United States	117	13	49.3
	United Kingdom	129	...	...
	Switzerland	20	...	...
Cold drawn .....	United States	12	...	...
	United Kingdom	24	...	...
Welded .....	United States	380	...	...
	United Kingdom	67	...	...
Seamless, 12" and under in diameter-				
Cold drawn .....	United States	331	403	10.2
	United Kingdom	64	...	15.9
	Sweden	1	...	...
Hot finished .....	United States	532	...	5.8
	United Kingdom	130	...	...
Seamless, over 12" in diameter -				
Hot finished .....	United States	518	12	...
	United Kingdom	4,083	...	...
Welded, 4" and under in diameter ..	United States	535	...	.1
	United Kingdom	50	...	...
	France	19	...	...
	Germany	69	...	...
Welded, over 4" in diameter .....	United States	156	...	.5
Tubing -				
Not over 1/2" diameter .....	United States	37	...	...
Spiral welded .....	United States	137	...	...
Conduit .....	United States	446	...	...
Casings .....	United States	2,889	...	...
	United Kingdom	917	...	...
	Germany	206	...	...
	Italy	572	...	...
Wire rope .....				
	United States	27	...	...
	United Kingdom	120	...	...
	Germany	8	...	...
Wire for rope .....	United States	275	...	...
	United Kingdom	563	...	...
Wire - For spring mattresses .....	United States	153	...	...
For corset clasps etc. ....	United States	28	...	...
Wire - Coated or covered .....	United States	4	...	...
Wire - All other .....	United States	193	5	.9
	United Kingdom	63	...	...
Wire rods, not over 3/8" in diameter.	United States	109	...	...
	United Kingdom	543	...	...
Welding rods and welding wire .....	United States	10	139	...

Table 10 - Imports of Primary Forms of Iron and Steel, January, 1954 (Concluded)

Table 10 - Imports of Primary Forms of Iron and Steel, January, 1954 (Continued)				
Commodity	Country of origin	January, 1954		
		Carbon	Alloy	Stainless
(Tons of 2,000 pounds)				
Tires - For railway rolling stock ...	United States	5	...	...
Wheels - For railway rolling stock ..	United Kingdom	695	...	...
Rails -				
60 lb. and under .....	United States	68	...	...
	Belgium	54	...	...
Over 60 lb. and including 100 lb. .	United States	22	...	...
Over 100 lb. ....	United States	922	...	...
Track material -				
Angle bars, rail joints, tie plates	United States	157	...	...
	Belgium	2	...	...
<hr/>				
Total imports .....	United States	78,616	3,172	402.5
	All other	17,519	137	188.6
<hr/>				
TOTAL .....		96,135	3,309	591.1

Table 11 - Exports of Primary Iron and Steel, January, 1954

	January 1954
(Tons of 2,000 pounds)	
Pig iron .....	154
Ingots, blooms and billets .....	224
Bars .....	265
Rods .....	...
Plates, sheets and strips .....	1,678
Rails .....	...
Structural shapes .....	179
Pipe and tubing - Wrought iron .....	...
Cast iron .....	...
Galvanized .....	...
Other .....	15
Castings, iron and steel .....	1,087
Forgings .....	398
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Total .....	4,000

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