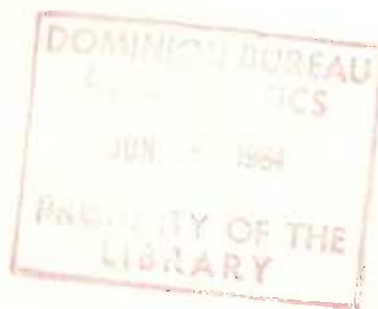


CATALOGUE No.

41-001

MONTHLY

Historical File Copy



PRIMARY IRON AND STEEL

FEBRUARY 1964

Published by Authority of
The Minister of Trade and Commerce

DOMINION BUREAU OF STATISTICS
Industry Division

May 1964
6522-807

Price: 30 cents
\$3.00 a year

Vol. 19—No. 2

DISPOSITION OF SHIPMENTS OF ROLLED STEEL PRODUCTS AND STEEL CASTINGS

Each month every firm in the primary steel industry in Canada submits a statement to the Dominion Bureau of Statistics on the distribution of steel shipments to domestic consuming industries in tons, by carbon and alloy grades. Details developed from these statements showing tonnages used by the approximately twenty major consuming industries are presented monthly in this report.

For some time it was recognized that the industry classifications being used to indicate steel distribution were badly out of date. As a matter of fact, no extensive revision had been made to the form of the report since 1940. At a meeting held in October, 1963 representatives of the steel industry and the Dominion Bureau of Statistics finalized a new schedule of consuming industries based on the revised Standard Industrial Classification. This new schedule was introduced January 1, 1964, and relates to data contained in Tables 9, 15, 16 and 17.

A description of the new consuming industries is carried in the Steel Distribution Index manual which is available on request.

TABLE 1. Pig Iron Capacity, January 1, 1964

	In blast or in use		Banked, blown out or idle	
	Furnaces	Annual Capacity	Furnaces	Annual Capacity
	No.	net tons	No.	net tons
Blast furnaces	14	6,322,500	1	182,500
Electric furnaces	9	394,000	-	-
Totals	23	6,716,500	1	182,500

TABLE 2. Iron Blast Furnaces Charges(1)

	February 1964	Two months ended February 1964
	net tons of 2,000 pounds	
<u>Crude iron ore:</u>		
From Canadian mines	65,806	129,031
From foreign mines	150,123	308,872
Pyrite cinder	(2)	(2)
<u>Iron ore (sintered, pelletized, etc.):</u>		
From Canadian mines	184,119	382,566
From foreign mines	254,566	495,081
From own processing	132,037	274,868
Mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.)	14,188	29,881
Scrap iron and steel	4,765	8,418
Limestone	60,644	119,688
Dolomite	40,492	82,486
Coke	294,162	598,595

(1) Does not include charges into furnaces used in the smelting of titanium ores.

(2) Included with mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.).

TABLE 3. Production and Shipments of Pig Iron and Ferro-alloys February

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	331,670	4,473	428,535	2,781
Foundry (including silvery pig)(2)	6,832	4,235	33,117	9,025
Malleable	39,617	12,631	48,588	17,396
Total pig iron	378,119	21,339	510,240	29,202
Ferro-alloys	10,623	9,052	14,046	12,830
Stocks of pig iron on hand at end of month	198,217		263,748(3)	

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

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

(3) January should have read 227,023 tons.

TABLE 4. Production and Shipments of Pig Iron and Ferro-alloys Two Months Ended February

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	702,605	7,609	870,362	5,213
Foundry (including silvery pig)(2)	10,462	9,282	66,075	17,062
Malleable	74,107	28,630	94,849	38,220
Total pig iron	787,174	45,521	1,031,286	60,495
Ferro-alloys	21,626	18,977	26,969	24,521

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

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

TABLE 5. Steel Furnace Capacity at First of January

	Annual capacity
	net tons of 2,000 pounds
Ingots - Basic open hearth	5,420,000
Electric	1,015,500
Oxygen	2,550,000
Total ingots	8,985,500
Steel castings	493,740
Total ingots and castings	9,479,240

TABLE 6. Pig Iron and Scrap charged to Steel Furnaces

	February		Two months ended February	
	1963	1964	1963	1964
	net tons of 2,000 pounds			
Pig iron	352,998	439,370	732,270	892,225
Scrap - Own make	173,475	193,811	378,343	396,934
Purchased	137,887	167,110	291,980	318,619
Total pig iron and scrap	664,360	800,291	1,402,593	1,607,848

TABLE 7. Production and Shipments of Steel Ingots and Castings February

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy):</u>				
Basic open hearth	518,054	128	639,476	240
Electric	62,517	7,805	61,973	9,081
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	580,571	7,933	701,449	9,321
Alloy steel ingots included in above	27,588	850	42,960	1,725
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	571	573	261	261
Electric	9,638	8,746	12,755	11,948
Other	-	-	-	-
Total steel castings	10,209	9,319	13,016	12,209
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	253	232	261	207
High alloy, manganese and abrasion resistant	1,609	1,684	2,093	2,094
All other alloys	439	483	842	799
Total alloy castings	2,301	2,399	3,196	3,100

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

(2) Included with "Basic open hearth".

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 8. Production and Shipments of Steel Ingots and Castings Two Months Ended February

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy):</u>				
Basic open hearth	1,109,255	387	1,282,578	498
Electric	122,872	16,467	124,695	18,649
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	1,232,127	16,854	1,407,273	19,147
Alloy steel ingots included in above	61,664	1,743	85,756	2,710
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	851	853	815	815
Electric	18,017	17,852	25,416	23,985
Other	-	-	-	-
Total steel castings	18,868	18,705	26,231	24,800
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	438	413	642	571
High alloy, manganese and abrasion resistant ..	3,140	3,291	4,090	4,075
All other alloys	1,020	1,060	1,681	1,492
Total alloy castings	4,598	4,764	6,413	6,138

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

(2) Included with "Basic open hearth".

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 9. Disposition of Shipments(1) of Steel Castings

	February 1964		Two months ended February 1964	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
Export	278	510	601	870
Automotive and aircraft industries	541	23	1,010	57
Agricultural (including implement and equipment manufacturers)	79	26	181	50
Construction (including public works, public utilities and structural steel fabricators) ...	30	103	63	204
Machinery and tools	1,506	565	3,391	1,127
Natural resources and extractive industries (including mining, lumbering, quarrying, oil and gas, including refineries, etc.)	855	1,185	1,866	2,386
Railway operating	4,454	328	9,185	711
Railroad cars and locomotives	960	91	1,675	187
Shipbuilding	31	23	61	24
Miscellaneous and unclassified	338	283	609	542
Total	9,072	3,137	18,642	6,158

(1)-(a) Compiled by principal consuming industries, according to the Steel Distribution Index revised 1964, copies of which are available on request.

(b) Includes producers' own-make castings allocated to appropriate consuming industry.

TABLE 10. Monthly Production of Pig Iron, Ferro-alloys and Steel Ingots and Castings

	Pig iron	Ferro- alloys	Steel		Total steel
			Ingots	Castings	
net tons of 2,000 pounds					
<u>1963</u>					
January	409,055	11,003	651,556	8,659	660,215
February	378,119	10,623	580,571	10,209	590,780
March	451,017	11,024	667,115	11,133	678,248
April	482,210	13,105	690,822	11,223	702,045
May	538,140	12,542	742,700	10,925	753,625
June	534,005	9,814	671,107	10,181	681,288
July	539,271	11,128	651,001	6,442	657,443
August	545,472	12,258	692,121	8,152	700,273
September	504,801	13,526	659,657	10,589	670,246
October	528,696	11,289	686,171	12,450	698,621
November	518,198	13,531	701,342	12,343	713,685
December	486,013	13,859	670,709	13,101	683,810
Totals	5,914,997	143,702	8,064,872	125,407	8,190,279
<u>1964</u>					
January	521,046	12,923	705,824	13,215	719,039
February	510,240	14,046	701,449	13,016	714,465
March					
April					
May					
June					
July					
August					
September					
October					
November					
December					
Totals					

TABLE 11. Production and Shipments of Steel Pipes, Tubes and Fittings February

	1963		1964	
	Made	Shipped	Made	Shipped
	net tons of 2,000 pounds			
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing)	11,548	13,065	14,032	13,905
Over 4 1/2" outside diameter (including all sizes of casing)	28,908	25,902	25,131	23,579
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	6,862	6,383	8,842	7,790
Totals	47,318	45,350	48,005	45,274
<u>Steel pipe fittings:</u>				
Buttwelding fittings	111	141	102	87
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	494	592	565	639
Totals	605	733	667	726

(1) Included with other.

TABLE 12. Production and Shipments of Steel Pipes, Tubes and Fittings Two Months Ended February

	1963		1964	
	Made	Shipped	Made	Shipped
	net tons of 2,000 pounds			
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing)	25,154	25,003	28,626	27,942
Over 4 1/2" outside diameter (including all sizes of casing)	43,612	41,868	54,487	50,010
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	13,605	13,322	17,279	15,842
Totals	82,371	80,193	100,392	93,794
<u>Steel pipe fittings:</u>				
Buttwelding fittings	221	246	204	219
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	967	1,096	1,124	1,236
Totals	1,188	1,342	1,328	1,455

(1) Included with other.

TABLE 13. Production and Disposition of Shipments of Rolled Steel Products, February 1964

	Production	Total of all shipments	Shipments for further processing	Net shipments
net tons of 2,000 pounds				
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	15,695	16,029	16,029	-
For forging and piercing	15,557	13,962	-	13,962
Rails	18,534	15,333	-	15,333
Wire rods	37,190	37,367	-	37,367
Structural shapes:				
Heavy, including piling	34,775	30,310	-	30,310
Light	10,465	11,679	-	11,679
Concrete reinforcing bars	33,339	32,062	-	32,062
Other hot rolled bars	36,281	39,680	5,430	34,250
Tie plates and track material:				
Angle bars	869	924	-	924
Tie plates	5,161	4,133	-	4,133
Track spikes	877	704	-	704
Plates (including plates for pipes and tubes)	65,322	67,291	-	67,291
Hot rolled sheets	142,161	144,354	76,241	68,113
Hot rolled strip	112,394	110,980	97,667	13,313
Total hot rolled products ...	528,620	524,808	195,367	329,441
<u>Cold rolled and coated:</u>				
Cold finished bars	5,092	4,901	-	4,901
Cold reduced sheets and strip, tin mill black plate and tin plate	179,714	182,165	71,437	110,728
Galvanized sheets	33,712	31,741	-	31,741
Total cold rolled and coated ..	218,518	218,807	71,437	147,370
Total carbon steel	747,138	743,615	266,804	476,811
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	-	-	-	-
For forging and piercing	4,055	4,110	-	4,110
Alloy plates	2,160	1,704	-	1,704
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	13,586	13,192	285	12,907
Cold finished bars	624	637	-	637
Wire rods	568	468	-	468
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	3,265	3,159	-	3,159
Total alloy steel	24,258	23,270	285	22,985

TABLE 14. Production and Disposition of Shipments of Rolled Steel Products, Two Months Ended February 1964

	Production	Total of all shipments	Shipments for further processing	Net shipments
net tons of 2,000 pounds				
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	48,119	48,934	34,751	14,183
For forging and piercing	31,974	31,662	-	31,662
Rails	33,597	42,540	-	42,540
Wire rods	71,811	70,089	-	70,089
Structural shapes:				
Heavy, including piling	67,654	65,605	-	65,605
Light	19,336	20,681	-	20,681
Concrete reinforcing bars	69,002	64,017	-	64,017
Other hot rolled bars	76,231	79,511	8,269	71,242
Tie plates and track material:				
Angle bars	1,300	1,230	-	1,230
Tie plates	7,476	6,381	-	6,381
Track spikes	1,380	1,086	-	1,086
Plates (including plates for pipes and tubes)	134,565	141,165	-	141,165
Hot rolled sheets	294,991	297,975	160,688	137,287
Hot rolled strip	232,808	231,782	197,509	34,273
Total hot rolled products ...	1,090,244	1,102,658	401,217	701,441
<u>Cold rolled and coated:</u>				
Cold finished bars	10,489	10,318	-	10,318
Cold reduced sheets and strip, tin mill black plate and tin plate	367,743	379,070	147,567	231,503
Galvanized sheets	68,808	62,854	-	62,854
Total cold rolled and coated ..	447,040	452,242	147,567	304,675
Total carbon steel	1,537,284	1,554,900	548,784	1,006,116
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	-	-	-	-
For forging and piercing	7,469	7,469	-	7,469
Alloy plates	3,498	3,105	-	3,105
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	25,158	25,578	371	25,207
Cold finished bars	1,500	1,510	-	1,510
Wire rods	1,040	705	-	705
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	6,854	6,439	-	6,439
Total alloy steel	45,519	44,806	371	44,435

TABLE 15. Disposition of Shipments(1) of Rolled Steel Products

SDI No.	February 1964		Two months ended February 1964	
	Carbon	Alloy	Carbon	Alloy
net tons of 2,000 pounds				
4 Wholesalers and warehouses	62,796	978	128,090	2,001
5 Export	46,719	2,140	105,715	5,099
6 Automotive and aircraft industries ..	30,905	8,702	69,913	16,325
7 Agricultural	14,694	196	29,985	696
8a Contractors - Building	15,691	1	31,094	1
b Construction - Public and utility ...	819	-	1,757	-
c Structural steel fabricators	51,457	262	116,202	712
9 Containers	34,404	7	71,383	16
10 Machinery and tools	14,375	2,686	30,907	5,312
11 Wire, wire products and fasteners ...	43,218	712	81,438	1,397
12 Natural resources and extractive industries	9,668	1,511	19,895	3,464
13 Appliances and utensils	18,833	233	39,010	459
14 Other metal stamping and pressing ..	39,002	612	74,019	1,085
16 Railway operating	21,351	84	52,052	126
17 Railroad cars and locomotives	4,182	-	7,388	22
18 Shipbuilding	5,053	1,475	14,290	2,325
19 Pipes and tubes	62,037	3,386	127,114	5,395
20 Miscellaneous	1,607	-	5,864	-
Net shipments	476,811	22,985	1,006,116	44,435

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

TABLE 16. Disposition of Shipments(1) of Rolled Steel Products, by Product, February 1964

SDI No.	Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars	
				Heavy including piling	Light			
net tons of 2,000 pounds								
4	Wholesalers and ware houses	-	85	408	7,109	3,202	7,716	6,407
5	Export	-	812	388	495	2,602	97	3,955
6	Automotive and air-craft industries	2,311	2	104	117	32	-	12,012
7	Agricultural	-	-	12	928	888	11	3,267
8a	Contractors - Building ...	-	-	230	527	336	8,813	274
b	Construction - Public and utility	-	-	-	225	-	538	56
c	Structural steel fabri- cators	2	162	333	16,794	2,704	5,420	1,800
9	Containers	-	-	11	-	-	-	191
10	Machinery and tools	846	8	438	718	237	148	3,422
11	Wire, wire products and fasteners	716	-	35,014	47	55	-	5,483
12	National resources and extractive industries ..	295	588	59	1,370	206	688	4,853
13	Appliances and utensils ..	-	-	8	31	-	-	150
14	Other metal stamping and pressing	63	-	197	914	1,054	8,555	4,321
16	Railway operating	-	13,658	1	220	65	-	522
17	Railroad cars and loco- motives	890	-	14	248	99	-	110
18	Shipbuilding	1	18	-	520	21	-	122
19	Pipes and tubes	12,948	-	-	-	-	-	28
20	Miscellaneous	-	-	413	47	178	76	184
Net shipments		18,072	15,333	37,835	30,310	11,679	32,062	47,157

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

TABLE 16. Disposition of Shipments(1) of Rolled Steel Products, by Product, February 1964

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
net tons of 2,000 pounds								
40	8,291	11,000	23	1,292	11,984	6,217	63,774	4
7	3,338	13,105	-	5	19,492	4,563	48,859	5
-	260	8,875	2,777	1,528	10,604	985	39,607	6
-	1,163	5,407	130	935	1,961	188	14,890	7
32	1,565	697	224	-	532	2,462	15,692	8a
-	-	-	-	-	-	-	819	b
3	9,444	3,476	288	40	3,042	8,006	51,719	c
-	25	373	39	1	33,572	199	34,411	9
-	3,414	2,896	229	864	3,616	225	17,061	10
4	26	1,190	30	528	778	59	43,930	11
48	2,038	388	1	55	527	63	11,179	12
-	1,528	3,799	327	49	12,159	1,015	19,066	13
-	329	5,501	1,162	226	9,962	7,330	39,614	14
5,627	838	380	-	6	37	81	21,435	16
-	1,809	742	-	-	164	106	4,182	17
-	5,773	68	-	2	3	-	6,528	18
-	29,069	10,216	8,083	-	4,837	242	65,423	19
-	85	-	-	7	617	-	1,607	20
5,761	68,995	68,113	13,313	5,538	113,887	31,741	499,796	

TABLE 17. Disposition of Shipments(1) of Rolled Steel Products, by Product, Two Months Ended February 1964

SDI No.	Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars	
				Heavy including piling	Light			
net tons of 2,000 pounds								
4	Wholesalers and ware houses	-	283	864	13,253	5,737	16,182	12,592
5	Export	14,857	1,305	1,023	1,043	4,229	126	8,018
6	Automotive and air-craft industries	5,401	2	160	397	130	-	24,437
7	Agricultural	-	-	45	1,369	1,613	11	8,611
8a	Contractors - Building ...	-	-	528	870	564	17,341	602
b	Construction - Public and utility	-	-	-	298	-	1,322	137
c	Structural steel fabri- cators	73	198	1,312	40,951	4,792	14,567	3,564
9	Containers	-	-	25	-	-	-	196
10	Machinery and tools	1,118	13	692	1,551	537	417	5,862
11	Wire, wire products and fasteners	1,559	-	65,144	52	84	-	10,297
12	National resources and extractive industries ..	649	1,068	97	2,056	418	2,169	11,462
13	Appliances and utensils ..	-	-	8	43	3	-	329
14	Other metal stamping and pressing	238	37	292	1,020	2,114	11,748	8,154
16	Railway operating	18	39,614	1	230	68	-	1,111
17	Railroad cars and loco- motives	1,277	-	30	611	121	-	517
18	Shipbuilding	2	18	-	1,779	77	-	209
19	Pipes and tubes	28,122	2	-	20	-	-	30
20	Miscellaneous	-	-	573	62	194	134	321
Net shipments		53,314	42,540	70,794	65,605	20,681	64,017	96,449

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

TABLE 17. Disposition of Shipments(1) of Rolled Steel Products, by Product, Two Months Ended February 1964

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
net tons of 2,000 pounds								
84	21,617	20,144	83	2,648	24,585	12,019	130,091	4
15	6,264	23,097	-	22	42,659	8,156	110,814	5
-	490	20,433	6,425	3,391	22,769	2,203	86,238	6
-	2,299	10,198	171	2,170	3,706	488	30,681	7
80	3,791	1,661	260	-	1,065	4,333	31,095	8a
-	-	-	-	-	-	-	1,757	b
3	22,243	7,400	544	69	5,571	15,627	116,914	c
-	25	525	97	2	70,175	354	71,399	9
-	7,926	6,533	534	1,532	9,001	503	36,219	10
4	26	2,525	85	1,150	1,685	224	82,835	11
131	3,145	783	19	127	1,033	202	23,359	12
-	4,169	7,821	502	120	23,883	2,591	39,469	13
-	1,096	11,566	1,992	558	20,929	15,360	75,104	14
8,380	1,975	495	-	15	55	216	52,178	16
-	2,709	1,735	-	1	303	106	7,410	17
-	14,279	187	-	5	41	18	16,615	18
-	51,962	19,607	23,561	-	8,781	424	132,509	19
-	254	2,577	-	18	1,701	30	5,864	20
8,697	144,270	137,287	34,273	11,828	237,942	62,854	1,050,551	

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