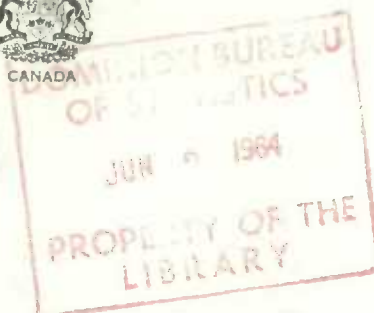


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DISPOSITION OF SHIPMENTS OF ROLLED STEEL PRODUCTS AND STEEL CASTINGS

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For some time it was recognized that the industry classifications being used to indicate steel distribution were badly out of date.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)

	March 1964	Three months ended March 1964
	net tons of 2,000 pounds	
<u>Crude iron ore:</u>		
From Canadian mines	56,774	185,805
From foreign mines	179,610	488,482
Pyrite cinder	(2)	(2)
<u>Iron ore (sintered, pelletized, etc.):</u>		
From Canadian mines	212,827	595,393
From foreign mines	264,343	759,424
From own processing	159,008	433,876
Mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.)	17,933	47,814
Scrap iron and steel	6,134	14,552
Limestone	67,661	187,349
Dolomite	39,771	122,257
Coke	326,010	924,605

(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 March

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	404,397	3,754	481,644	3,365
Foundry (including silvery pig)(2)	2,958	7,113	37,827	15,807
Malleable	43,662	16,508	45,418	19,614
Total pig iron	451,017	27,375	564,889	38,786
Ferro-alloys	11,024	10,754	12,753	12,614
Stocks of pig iron on hand at end of month	198,785		296,817	

(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 4. Production and Shipments of Pig Iron and Ferro-alloys Three Months Ended March

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	1,107,002	11,363	1,352,006	8,578
Foundry (including silvery pig)(2)	13,420	16,395	103,902	32,869
Malleable	117,769	45,138	140,267	57,834
Total pig iron	1,238,191	72,896	1,596,175	99,281
Ferro-alloys	32,650	29,731	39,722	37,135

(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

	March		Three months ended March	
	1963	1964	1963	1964
	net tons of 2,000 pounds			
Pig iron	413,357	485,811	1,145,627	1,378,036
Scrap - Own make	182,164	221,012	560,507	617,946
Purchased	160,106	173,725	452,086	492,414(1)
Total pig iron and scrap	755,627	880,548	2,158,220	2,488,396

(1) Includes revision for two months ended February which should have read 318,689.

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

	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	601,761	618	703,078	446
Electric	65,354	2,446	68,311	10,991
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	667,115	3,064	771,389	11,437
Alloy steel ingots included in above	28,300	1,203	41,721	1,326
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	521	521	271	271
Electric	10,612	8,945	13,072	12,125
Other	-	-	-	-
Total steel castings	11,133	9,466	13,343	12,396
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	280	288	266	261
High alloy, manganese and abrasion resistant	1,409	1,562	2,095	2,097
All other alloys	552	375	787	751
Total alloy castings	2,241	2,225	3,148	3,109

(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 Three Months Ended March

	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	1,711,016	1,005	1,985,656	944
Electric	188,226	18,913	193,006	29,640
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	1,899,242	19,918	2,178,662	30,584
Alloy steel ingots included in above	89,964	2,946	127,477	4,036
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	1,372	1,374	1,086	1,086
Electric	28,629	26,797	38,488	36,110
Other	-	-	-	-
Total steel castings	30,001	28,171	39,574	37,196
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	718	701	908	832
High alloy, manganese and abrasion resistant ..	4,549	4,853	6,185	6,172
All other alloys	1,572	1,435	2,468	2,243
Total alloy castings	6,839	6,989	9,561	9,247

(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

	March 1964		Three months ended March 1964	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
Export	809	263	1,410	1,133
Automotive and aircraft industries	632	23	1,642	80
Agricultural (including implement and equipment manufacturers)	125	12	306	62
Construction (including public works, public utilities and structural steel fabricators) ...	113	231	176	435
Machinery and tools	2,022	519	5,413	1,646
Natural resources and extractive industries (including mining, lumbering, quarrying, oil and gas, including refineries, etc.)	990	1,294	2,856	3,680
Railway operating	3,816	344	13,001	1,055
Railroad cars and locomotives	494	55	2,169	242
Shipbuilding	44	43	105	67
Miscellaneous and unclassified	242	325	851	867
Total	9,287	3,109	27,929	9,267

(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		
			Ingots	Castings	Total steel
	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	564,889	12,753	771,389	13,343	784,732
April					
May					
June					
July					
August					
September					
October					
November					
December					
Totals					

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

	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)	19,562	14,230	18,676	14,478
Over 4 1/2" outside diameter (including all sizes of casing)	30,244	33,453	28,676	39,879
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	7,286	6,534	8,041	8,022
Totals	57,092	54,217	55,393	62,379
<u>Steel pipe fittings:</u>				
Buttwelding fittings	183	166	172	151
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	551	552	551	491
Totals	734	718	723	642

(1) Included with other.

TABLE 12. Production and Shipments of Steel Pipes, Tubes and Fittings Three Months Ended March

	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)	44,716	39,233	47,302	42,420
Over 4 1/2" outside diameter (including all sizes of casing)	73,856	75,321	83,163	89,889
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	20,891	19,856	25,320	23,864
Totals	139,463	134,410	155,785	156,173
<u>Steel pipe fittings:</u>				
Buttwelding fittings	404	412	376	370
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	1,518	1,648	1,675	1,727
Totals	1,922	2,060	2,051	2,097

(1) Included with other.

TABLE 13. Production and Disposition of Shipments of Rolled Steel Products, March 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	18,587	16,639	16,639	-
For forging and piercing	17,517	21,084	-	21,084
Rails	23,413	24,476	-	24,476
Wire rods	37,869	38,525	-	38,525
Structural shapes:				
Heavy, including piling	30,264	37,682	-	37,682
Light	10,064	10,596	-	10,596
Concrete reinforcing bars	45,863	48,155	-	48,155
Other hot rolled bars	42,666	40,443	4,466	35,977
Tie plates and track material:				
Angle bars	1,570	1,544	-	1,544
Tie plates	8,397	7,220	-	7,220
Track spikes	1,018	1,229	-	1,229
Plates (including plates for pipes and tubes)	74,918	71,745	-	71,745
Hot rolled sheets	147,277	143,386	80,396	62,990
Hot rolled strip	132,694	131,776	108,501	23,275
Total hot rolled products ...	592,117	594,500	210,002	384,498
<u>Cold rolled and coated:</u>				
Cold finished bars	5,096	5,222	-	5,222
Cold reduced sheets and strip, tin mill black plate and tin plate	202,162	195,231	81,094	114,137
Galvanized sheets	35,172	37,825	-	37,825
Total cold rolled and coated ..	242,430	238,278	81,094	157,184
Total carbon steel	834,547	832,778	291,096	541,682
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	-	-	-	-
For forging and piercing	2,308	2,321	-	2,321
Alloy plates	2,614	1,579	-	1,579
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	13,215	12,661	64	12,597
Cold finished bars	631	616	-	616
Wire rods	214	297	-	297
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	2,930	2,680	-	2,680
Total alloy steel	21,912	20,154	64	20,090

TABLE 14. Production and Disposition of Shipments of Rolled Steel Products, Three Months Ended March 1964

March 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	66,706	65,573	51,390	14,183
For forging and piercing	49,491	52,746	-	52,746
Rails	57,010	67,016	-	67,016
Wire rods	109,680	108,614	-	108,614
Structural shapes:				
Heavy, including piling	97,918	103,287	-	103,287
Light	29,400	31,277	-	31,277
Concrete reinforcing bars	114,865	112,172	-	112,172
Other hot rolled bars	118,897	119,954	12,735	107,219
Tie plates and track material:				
Angle bars	2,870	2,774	-	2,774
Tie plates	15,873	13,601	-	13,601
Track spikes	2,398	2,315	-	2,315
Plates (including plates for pipes and tubes)	209,483	212,910	-	212,910
Hot rolled sheets	442,268	441,361	241,084	200,277
Hot rolled strip	365,502	363,558	306,010	57,548
Total hot rolled products ...	1,682,361	1,697,158	611,219	1,085,939
<u>Cold rolled and coated:</u>				
Cold finished bars	15,585	15,540	-	15,540
Cold reduced sheets and strip, tin mill black plate and tin plate	569,905	574,301	228,661	345,640
Galvanized sheets	103,980	100,679	-	100,679
Total cold rolled and coated ..	689,470	690,520	228,661	461,859
Total carbon steel	2,371,831	2,387,678	839,880	1,547,798
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	-	-	-	-
For forging and piercing	9,777	9,790	-	9,790
Alloy plates	6,112	4,684	-	4,684
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	38,373	38,239	435	37,804
Cold finished bars	2,131	2,126	-	2,126
Wire rods	1,254	1,002	-	1,002
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	9,784	9,119	-	9,119
Total alloy steel	67,431	64,960	435	64,525

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

SDI No.	March 1964		Three months ended March 1964	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
4 Wholesalers and warehouses	70,213	901	198,303	2,902
5 Export	48,627	2,881	154,342	7,980
6 Automotive and aircraft industries ..	33,338	8,272	103,251	24,597
7 Agricultural	15,648	267	45,633	963
8a Contractors - Building	19,468	27	50,562	28
b Construction - Public and utility ...	2,880	-	4,637	-
c Structural steel fabricators	73,500	125	189,702	837
9 Containers	33,913	13	105,296	29
10 Machinery and tools	15,511	2,373	46,418	7,685
11 Wire, wire products and fasteners ...	44,596	699	126,034	2,096
12 Natural resources and extractive industries	9,626	2,052	29,521	5,516
13 Appliances and utensils	19,056	125	58,066	584
14 Other metal stamping and pressing ..	36,724	401	110,743	1,486
16 Railway operating	32,664	13	84,716	139
17 Railroad cars and locomotives	5,444	76	12,832	98
18 Shipbuilding	5,322	1,211	19,612	3,536
19 Pipes and tubes	73,387	654	200,501	6,049
20 Miscellaneous	1,765	-	7,629	-
Net shipments	541,682	20,090	1,547,798	64,525

(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, March 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	42	310	808	7,176	3,270	13,072	7,154
5	Export	1,028	432	353	1,456	2,856	54	3,667
6	Automotive and air-craft industries	3,791	-	153	45	110	-	11,304
7	Agricultural	-	-	12	833	650	-	4,560
8a	Contractors - Building ...	21	20	259	189	497	11,027	403
b	Construction - Public and utility	-	-	-	312	75	2,302	-
c	Structural steel fabri- cators	73	82	1,019	24,300	1,962	12,737	2,411
9	Containers	-	-	49	-	-	-	94
10	Machinery and tools	706	29	288	427	195	1,083	2,853
11	Wire, wire products and fasteners	279	-	35,296	22	230	197	6,005
12	National resources and extractive industries ..	235	1,407	93	1,023	196	669	4,848
13	Appliances and utensils ..	-	-	7	4	-	-	164
14	Other metal stamping and pressing	270	83	237	26	430	6,973	3,139
16	Railway operating	-	21,854	-	108	30	-	831
17	Railroad cars and loco- motives	1,095	-	9	882	37	-	655
18	Shipbuilding	7	21	-	765	34	-	319
19	Pipes and tubes	15,858	-	-	-	-	-	1
20	Miscellaneous	-	238	239	114	24	41	166
Net shipments		23,405	24,476	38,822	37,682	10,596	48,155	48,574

(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, March 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								
91	9,838	9,653	38	1,888	11,767	6,007	71,114	4
56	2,924	8,165	-	7	23,988	6,522	51,508	5
-	289	10,183	3,840	1,484	9,605	806	41,610	6
-	929	4,696	43	921	2,141	1,130	15,915	7
1	2,399	717	55	-	754	3,153	19,495	8a
-	-	-	-	-	191	-	2,880	b
2	12,693	5,089	120	29	3,712	9,396	73,625	c
-	15	143	143	1	33,164	317	33,926	9
-	4,648	2,874	149	586	3,617	429	17,884	10
8	-	1,380	95	526	897	360	45,295	11
120	2,056	403	-	67	456	105	11,678	12
-	1,892	4,345	120	69	10,577	2,003	19,181	13
-	558	5,476	2,193	212	10,304	7,224	37,125	14
9,441	226	66	-	4	-	117	32,677	16
244	2,103	431	-	2	62	-	5,520	17
-	5,073	168	-	18	100	28	6,533	18
-	27,563	9,200	16,479	-	4,727	213	74,041	19
30	118	1	-	24	755	15	1,765	20
9,993	73,324	62,990	23,275	5,838	116,817	37,825	561,772	

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

March 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	42	593	1,672	20,429	9,007	29,254	19,746
5	Export	15,885	1,737	1,376	2,499	7,085	180	11,685
6	Automotive and air-craft industries	9,192	2	313	442	240	-	35,741
7	Agricultural	-	-	57	2,202	2,263	11	13,171
8a	Contractors - Building ...	21	20	787	1,059	1,061	28,368	1,005
b	Construction - Public and utility	-	-	-	610	75	3,624	137
c	Structural steel fabri- cators	146	280	2,331	65,251	6,754	27,304	5,975
9	Containers	-	-	74	-	-	-	290
10	Machinery and tools	1,824	42	980	1,978	732	1,500	8,715
11	Wire, wire products and fasteners	1,838	-	100,440	74	314	197	16,302
12	National resources and extractive industries ..	884	2,475	190	3,079	614	2,838	16,310
13	Appliances and utensils ..	-	-	15	47	3	-	493
14	Other metal stamping and pressing	508	120	529	1,046	2,544	18,721	11,293
16	Railway operating	18	61,468	1	338	98	-	1,942
17	Railroad cars and loco- motives	2,372	-	39	1,493	158	-	1,172
18	Shipbuilding	9	39	-	2,544	111	-	528
19	Pipes and tubes	43,980	2	-	20	-	-	31
20	Miscellaneous	-	238	812	176	218	175	487
Net shipments		76,719	67,016	109,616	103,287	31,277	112,172	145,023

(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, Three Months Ended March 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								
175	31,455	29,797	121	4,536	36,352	18,026	201,205	4
71	9,188	31,262	-	29	66,647	14,678	162,322	5
-	779	30,616	10,265	4,875	32,374	3,009	127,848	6
-	3,228	14,894	214	3,091	5,847	1,618	46,596	7
81	6,190	2,378	315	-	1,819	7,486	50,590	8a
-	-	-	-	-	191	-	4,637	b
5	34,936	12,489	664	98	9,283	25,023	190,539	c
-	40	668	240	3	103,339	671	105,325	9
-	12,574	9,407	683	2,118	12,618	932	54,103	10
12	26	3,905	180	1,676	2,582	584	128,130	11
251	5,201	1,186	19	194	1,489	307	35,037	12
-	6,061	12,166	622	189	34,460	4,594	58,650	13
-	1,654	17,042	4,185	770	31,233	22,584	112,229	14
17,821	2,201	561	-	19	55	333	84,855	16
244	4,812	2,166	-	3	365	106	12,930	17
-	19,352	355	-	23	141	46	23,148	18
-	79,525	28,807	40,040	-	13,508	637	206,550	19
30	372	2,578	-	42	2,456	45	7,629	20
18,690	217,594	200,277	57,548	17,666	354,759	100,679	1,612,323	

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