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For some time it was recognized that the industry classifications being used to indicate steel distribution were badly out of date.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

	July 1964	Seven months ended July 1964
	net tons of 2,000 pounds	
<u>Crude iron ore:</u>		
From Canadian mines	62,000	424,642
From foreign mines	85,240	962,788
Pyrite cinder	(2)	(2)
<u>Iron ore (sintered, pelletized, etc.):</u>		
From Canadian mines	202,278	1,383,823
From foreign mines	341,414	2,071,658
From own processing	159,612	1,068,781
Mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.)	15,209	117,629
Scrap iron and steel	7,925	36,128
Limestone	69,370	470,450
Dolomite	38,202	279,231
Coke	310,166	2,187,529

(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, July

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	456,268	6,433	503,450	2,865
Foundry (including silvery pig)(2)	31,677	38,447	31,692	42,158
Malleable	51,326	24,781	21,180	27,042
Total pig iron	539,271	69,661	556,322	72,065
Ferro-alloys	11,128	13,049	12,908	17,277
Stocks of pig iron on hand at end of month	299,456		268,463	

(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, Seven Months Ended July

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	2,910,664	35,349	3,286,309	37,638
Foundry (including silvery pig)(2)	126,176	108,701	248,896	233,207
Malleable	294,977	158,854	293,469	161,834
Total pig iron	3,331,817	302,904	3,828,674	432,679
Ferro-alloys	79,239	79,818	92,969	99,952

(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

	July		Seven months ended July	
	1963	1964	1963	1964
	net tons of 2,000 pounds			
Pig iron	430,276	470,904	2,891,807	3,274,260
Scrap - Own make	173,590	200,353	1,292,484	1,449,849
Purchased	128,217	166,095	1,085,711	1,210,106
Total pig iron and scrap	732,083	837,352	5,270,002	5,934,215

TABLE 7. Production and Shipments of Steel Ingots and Castings, July

	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	605,148	21,821	663,492	7,158
Electric	45,853	19,469	63,220	7,030
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	651,001	41,290	726,712	14,188
Alloy steel ingots included in above	28,341	1,003	38,100	1,081
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	321	321	-	-
Electric	6,442	6,020	11,283	11,171
Other	-	-	-	-
Total steel castings	6,442	6,341	11,283	11,171
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	318	315	438	427
High alloy, manganese and abrasion resistant	1,515	1,706	2,029	2,070
All other alloys	423	453	657	578
Total alloy castings	2,256	2,474	3,124	3,075

(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, Seven Months Ended July

	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	4,220,347	82,331	4,719,377	20,223
Electric	434,525	72,515	461,456	65,667
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	4,654,872	154,846	5,180,833	85,890
Alloy steel ingots included in above	223,686	7,486	296,779	8,949
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	3,058	3,060	1,628	1,628
Electric	65,714	63,049	94,072	85,121
Other	-	-	-	-
Total steel castings	68,772	66,109	95,700	86,749
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	2,123	1,944	2,473	2,274
High alloy, manganese and abrasion resistant ..	11,510	11,760	15,072	15,130
All other alloys	3,576	3,431	5,742	5,201
Total alloy castings	17,209	17,135	23,287	22,605

(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

	July 1964		Seven months ended July 1964	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
Export	368	682	2,964	3,420
Automotive and aircraft industries	520	18	3,750	193
Agricultural (including implement and equipment manufacturers)	138	19	823	134
Construction (including public works, public utilities and structural steel fabricators) ...	75	208	450	1,538
Machinery and tools	1,340	492	11,757	3,535
Natural resources and extractive industries (including mining, lumbering, quarrying, oil and gas, including refineries, etc.)	1,369	1,018	7,407	8,255
Railway operating	2,730	270	27,849	2,671
Railroad cars and locomotives	1,308	69	7,030	652
Shipbuilding	48	2	278	99
Miscellaneous and unclassified	200	297	1,836	2,108
Total	8,096	3,075	64,144	22,605

(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	560,598	14,429	750,678	15,315	765,993
May	569,382	14,043	784,599	14,478	799,077
June	546,197	11,867	740,182	15,050	755,232
July	556,322	12,908	726,712	11,283	737,995
August					
September					
October					
November					
December					
Totals					

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

	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)	12,597	18,222	16,995	21,172
Over 4 1/2" outside diameter (including all sizes of casing)	22,970	25,432	47,277	46,840
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	6,636	6,521	6,250	6,649
Totals	42,203	50,175	70,522	74,661
<u>Steel pipe fittings:</u>				
Buttwelding fittings	123	156	236	290
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	533	562	435	495
Totals	656	718	671	785

(1) Included with other.

TABLE 12. Production and Shipments of Steel Pipes, Tubes and Fittings, Seven Months Ended July

	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)	103,638	105,936	116,423	113,467
Over 4 1/2" outside diameter (including all sizes of casing)	220,596	215,588	295,019	287,980
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	44,440	39,474	55,786	52,353
Totals	368,674	360,998	467,228	453,800
<u>Steel pipe fittings:</u>				
Buttwelding fittings	979	1,090	1,148	1,262
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	3,499	3,825	3,637	3,849
Totals	4,478	4,915	4,785	5,111

(1) Included with other.

TABLE 13. Production and Disposition of Shipments of Rolled Steel Products, July 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	19,306	7,635	7,635	-
For forging and piercing	14,136	16,357	-	16,357
Rails	20,399	25,097	-	25,097
Wire rods	34,639	32,989	-	32,989
Structural shapes:				
Heavy, including piling	37,338	41,182	-	41,182
Light	10,616	11,827	-	11,827
Concrete reinforcing bars	44,748	52,233	-	52,233
Other hot rolled bars	37,050	35,786	4,371	31,415
Tie plates and track material:				
Angle bars	1,773	1,618	-	1,618
Tie plates	6,239	7,721	-	7,721
Track spikes	554	584	-	584
Plates (including plates for pipes and tubes)	71,671	70,173	-	70,173
Hot rolled sheets	143,692	142,492	82,902	59,590
Hot rolled strip	21,473	118,627	96,653	21,974
Total hot rolled products ...	463,634	564,321	191,561	372,760
<u>Cold rolled and coated:</u>				
Cold finished bars	4,004	3,674	-	3,674
Cold reduced sheets and strip, tin mill black plate and tin plate	203,209	201,119	93,184	107,935
Galvanized sheets	42,839	43,907	-	43,907
Total cold rolled and coated ..	250,052	248,700	93,184	155,516
Total carbon steel	713,686	813,021	284,745	528,276
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	64	64	64	-
For forging and piercing	5,401	5,340	-	5,340
Alloy plates	966	485	-	485
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	9,428	7,603	118	7,485
Cold finished bars	604	673	-	673
Wire rods	663	460	-	460
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	3,630	3,732	-	3,732
Total alloy steel	20,756	18,357	182	18,175

TABLE 14. Production and Disposition of Shipments of Rolled Steel Products, Seven Months Ended
July 1964

July 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	151,930	140,945	90,790	50,155
For forging and piercing	115,212	123,725	-	123,725
Rails	145,100	163,799	-	163,799
Wire rods	261,104	259,793	-	259,793
Structural shapes:				
Heavy, including piling	248,291	261,531	-	261,531
Light	67,204	70,659	-	70,659
Concrete reinforcing bars	275,615	303,527	-	303,527
Other hot rolled bars	284,006	282,556	31,968	250,588
Tie plates and track material:				
Angle bars	9,548	9,051	-	9,051
Tie plates	43,828	40,643	-	40,643
Track spikes	5,921	5,954	-	5,954
Plates (including plates for pipes and tubes)	513,606	507,282	-	507,282
Hot rolled sheets	1,032,108	1,030,535	555,745	474,790
Hot rolled strip	750,928	844,317	698,935	145,382
Total hot rolled products ...	3,904,401	4,044,317	1,377,438	2,666,879
<u>Cold rolled and coated:</u>				
Cold finished bars	35,815	35,256	-	35,256
Cold reduced sheets and strip, tin mill black plate and tin plate	1,366,564	1,367,825	581,519	786,306
Galvanized sheets	266,935	265,846	-	265,846
Total cold rolled and coated ..	1,669,314	1,668,927	581,519	1,087,408
Total carbon steel	5,573,715	5,713,244	1,958,957	3,754,287
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	189	189	189	-
For forging and piercing	29,555	28,256	-	28,256
Alloy plates	9,854	6,939	-	6,939
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	90,475	87,735	855	86,880
Cold finished bars	4,787	4,802	-	4,802
Wire rods	3,225	2,866	-	2,866
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	23,248	22,975	-	22,975
Total alloy steel	161,333	153,762	1,044	152,718

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

SDI No.	July 1964		Seven months ended July 1964	
	Carbon	Alloy	Carbon	Alloy
net tons of 2,000 pounds				
4 Wholesalers and warehouses	77,557	771	510,773	6,665
5 Export	46,308	3,229	393,592	22,107
6 Automotive and aircraft industries ..	27,921	3,190	208,930	54,988
7 Agricultural	10,058	185	96,778	1,701
8a Contractors - Building	22,671	-	127,084	28
b Construction - Public and utility ...	3,920	-	18,804	-
c Structural steel fabricators	84,611	206	498,071	1,289
9 Containers	43,948	85	263,611	290
10 Machinery and tools	15,833	3,036	114,674	18,652
11 Wire, wire products and fasteners ...	39,396	907	302,358	6,394
12 Natural resources and extractive industries	10,695	1,834	71,795	12,461
13 Appliances and utensils	14,441	182	133,768	1,347
14 Other metal stamping and pressing ..	36,920	203	264,498	3,210
16 Railway operating	16,037	34	166,407	313
17 Railroad cars and locomotives	7,023	-	42,622	268
18 Shipbuilding	8,787	463	52,845	4,954
19 Pipes and tubes	60,740	3,828	474,183	17,987
20 Miscellaneous	1,410	22	13,494	64
Net shipments	528,276	18,175	3,754,287	152,718

(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, July 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	243	331	612	8,530	4,183	12,664	7,077
5	Export	663	14,047	148	82	288	154	2,628
6	Automotive and air-craft industries	3,324	-	56	77	75	-	5,110
7	Agricultural	-	-	13	493	662	-	2,423
8a	Contractors - Building ...	-	-	412	1,384	696	13,355	385
	b Construction - Public and utility	-	-	1	363	7	2,529	60
	c Structural steel fabri- cators	49	149	306	25,864	3,770	13,094	2,024
9	Containers	-	-	4	-	-	-	112
10	Machinery and tools	355	308	393	740	670	397	3,206
11	Wire, wire products and fasteners	274	-	31,157	76	387	77	6,379
12	National resources and extractive industries ..	190	573	54	1,303	91	1,381	4,920
13	Appliances and utensils ..	-	-	27	77	-	-	164
14	Other metal stamping and pressing	-	-	114	216	809	8,116	3,040
16	Railway operating	-	9,677	-	52	69	-	539
17	Railroad cars and loco- motives	3,033	-	2	929	68	-	224
18	Shipbuilding	-	12	-	953	10	-	277
19	Pipes and tubes	13,513	-	-	-	-	-	80
20	Miscellaneous	53	-	150	43	42	466	252
Net shipments		21,697	25,097	33,449	41,182	11,827	52,233	38,900

(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, July 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								
112	12,265	11,543	52	1,691	11,664	7,381	78,328	4
5,138	1,134	5,754	-	21	15,017	4,463	49,537	5
-	342	8,613	2,017	675	9,651	1,171	31,111	6
-	803	3,403	38	555	988	865	10,243	7
-	2,481	801	39	-	809	2,309	22,671	8a
37	2	841	-	-	80	-	3,920	b
3	13,825	4,837	307	38	2,740	17,811	84,817	c
-	-	250	7	2	43,371	287	44,033	9
-	4,627	3,431	169	670	3,516	387	18,869	10
13	15	256	117	329	595	628	40,303	11
102	2,336	667	-	65	541	306	12,529	12
-	1,714	3,188	274	25	8,146	1,008	14,623	13
-	899	5,651	1,994	266	9,586	6,432	37,123	14
4,511	559	526	-	3	26	109	16,071	16
-	1,798	611	-	-	85	273	7,023	17
1	7,726	214	-	1	25	31	9,250	18
-	20,103	9,004	16,960	-	4,482	426	64,568	19
6	29	-	-	6	365	20	1,432	20
9,923	70,658	59,590	21,974	4,347	111,667	43,907	546,451	

TABLE 17. Disposition of Shipments(1) of Rolled Steel Products, by Product, Seven Months Ended July 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	285	1,673	4,824	51,569	22,609	88,274	51,132
5	Export	55,749	39,747	4,289	4,003	8,819	584	22,086
6	Automotive and air-craft industries	21,507	2	600	1,101	579	-	74,061
7	Agricultural	6	-	166	3,770	4,867	12	28,818
8a	Contractors - Building ...	34	108	2,159	4,936	2,886	72,707	3,007
b	Construction - Public and utility	-	83	1	2,797	194	12,863	291
c	Structural steel fabri- cators	195	620	4,630	166,833	19,433	64,106	15,869
9	Containers	-	-	89	-	-	-	623
10	Machinery and tools	3,778	443	2,412	4,286	1,933	2,769	21,845
11	Wire, wire products and fasteners	3,546	-	238,733	185	1,336	1,554	44,657
12	National resources and extractive industries ..	2,261	4,081	478	6,217	925	8,566	38,637
13	Appliances and utensils ..	-	-	54	288	39	-	952
14	Other metal stamping and pressing	590	320	2,309	1,808	5,496	51,091	24,247
16	Railway operating	18	113,962	1	748	293	39	3,759
17	Railroad cars and loco- motives	9,859	2,420	47	6,753	414	-	3,680
18	Shipbuilding	9	85	-	5,640	395	4	2,189
19	Pipes and tubes	104,246	2	-	54	-	-	116
20	Miscellaneous	53	253	1,867	543	441	958	1,499
Net shipments		202,136	163,799	262,659	261,531	70,659	303,527	337,468

(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, Seven Months Ended July 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								
474	76,415	77,702	248	12,167	80,653	49,413	517,438	4
13,204	16,364	78,598	295	138	136,591	35,232	415,699	5
-	2,089	60,160	20,764	9,175	67,169	6,711	263,918	6
-	6,019	30,973	380	6,736	11,219	5,513	98,479	7
163	12,830	6,220	561	-	5,483	16,018	127,112	8a
43	2	1,682	-	-	848	-	18,804	b
8	93,203	33,580	1,386	249	23,104	76,144	499,360	c
-	40	1,424	579	8	259,644	1,494	263,901	9
1	34,437	22,370	1,388	4,959	29,496	3,209	133,326	10
51	92	7,472	436	3,508	5,344	1,838	308,752	11
1,082	13,923	3,047	19	524	3,423	1,073	84,256	12
-	13,560	28,968	1,078	399	77,799	11,978	135,115	13
-	4,765	43,276	9,628	2,011	69,159	53,008	267,708	14
40,106	4,700	1,892	-	48	139	1,015	166,720	16
478	13,480	4,494	-	15	871	379	42,890	17
2	47,850	948	-	34	280	363	57,799	18
-	173,661	69,406	108,620	2	33,697	2,366	492,170	19
36	791	2,578	-	85	4,362	92	13,558	20
55,648	514,221	474,790	145,382	40,058	809,281	265,846	3,907,005	

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