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For some time it was recognized that the industry classifications being used to indicate steel distribution were badly out of date.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

	November 1964	Eleven months ended November 1964
	net tons of 2,000 pounds	
Crude iron ore:		
From Canadian mines	88,274	762,432
From foreign mines	70,917	1,214,159
Pyrite cinder	(2)	(2)
Iron ore (sintered, pelletized, etc.):		
From Canadian mines	180,459	2,139,834
From foreign mines	286,068	3,388,207
From own processing	136,170	1,664,357
Mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.)	17,880	178,068
Scrap iron and steel	7,379	57,555
Limestone	57,858	711,621
Dolomite	26,685	414,755
Coke	287,736	3,391,093

(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, November

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
Pig iron:				
Basic	430,838	4,079	440,950	13,150
Foundry (including silvery pig)(2)	39,094	53,465	40,711	52,680
Malleable	48,266	47,675	29,474	43,550
Total pig iron	518,198	105,219	511,135	109,380
Ferro-alloys	13,531	13,098	15,287	17,925
Stocks of pig iron on hand at end of month	218,900		175,823	

(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 Eleven Months Ended November

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
Pig iron:				
Basic	4,665,110	62,720	5,164,044	68,232
Foundry (including silvery pig)(2)	272,373	283,451	395,691	417,621
Malleable	491,501	346,246	424,709	293,004
Total pig iron	5,428,984	692,417	5,984,444	778,857
Ferro-alloys	129,843	130,178	148,579	160,801

(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 1964

	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

	November		Eleven months ended November	
	1963	1964	1963	1964
	net tons of 2,000 pounds			
Pig iron	449,948	475,720	4,655,455	5,177,234
Scrap - Own make	205,292	223,638	2,089,502	2,334,772
Purchased	148,994	174,029	1,632,140	1,906,759
Total pig iron and scrap	804,234	873,387	8,377,097	9,418,765

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

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
Steel ingots (both carbon and alloy):				
Basic open hearth	641,222	14,427	675,504	22,410
Electric	60,120	7,912	81,059	9,385
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	701,342	22,339	756,563	31,795
Alloy steel ingots included in above	36,173	811	47,763	1,547
Steel castings (both carbon and alloy):				
Basic open hearth	844	844	-	-
Electric	11,499	10,482	13,493	13,519
Other	-	-	-	-
Total steel castings	12,343	11,326	13,493	13,519
Alloy steel castings included in above:				
High alloy, except manganese and abrasion resistant	337	323	450	426
High alloy, manganese and abrasion resistant	2,241	2,224	2,181	2,085
All other alloys	703	656	787	768
Total alloy castings	3,281	3,203	3,418	3,279

(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 Eleven Months Ended November

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
Steel ingots (both carbon and alloy):				
Basic open hearth	6,707,826	153,943	7,441,650	80,693
Electric	686,337	109,443	769,427	103,725
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	7,394,163	263,386	8,211,077	184,418
Alloy steel ingots included in above	363,141	10,567	485,845	14,445
Steel castings (both carbon and alloy):				
Basic open hearth	5,840	5,842	1,628	1,628
Electric	106,466	103,803	147,121	136,047
Other	-	-	-	-
Total steel castings	112,306	109,645	148,749	137,675
Alloy steel castings included in above:				
High alloy, except manganese and abrasion resistant	3,362	3,077	4,169	3,878
High alloy, manganese and abrasion resistant	20,003	19,440	23,758	23,697
All other alloys	6,222	5,853	8,658	8,115
Total alloy castings	29,587	28,370	36,585	35,690

(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

	November 1964		Eleven months ended November 1964	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
Export	247	277	4,456	4,711
Automotive and aircraft industries	567	31	5,778	310
Agricultural (including implement and equipment manufacturers)	94	22	1,222	208
Construction (including public works, public utilities and structural steel fabricators)	189	118	801	2,118
Machinery and tools	1,671	525	18,335	5,415
Natural resources and extractive industries (including mining, lumbering, quarrying, oil and gas, including refineries, etc.)	1,125	1,407	11,996	13,837
Railway operating	3,827	405	40,354	3,952
Railroad cars and locomotives	2,134	135	15,764	1,339
Shipbuilding	62	9	504	166
Miscellaneous and unclassified	172	350	2,623	3,634
Total	10,088	3,279	101,833	35,690

(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				
1963					
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
1964					
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	575,150	11,114	760,056	12,376	772,432
September	554,429	13,778	735,154	13,190	748,344
October	515,056	15,431	778,471	13,990	792,461
November	511,135	15,287	756,563	13,493	770,056
December					
Totals					

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

	1963		1964	
	Made	Shipped	Made	Shipped
	net tons of 2,000 pounds			
Pipe, welded and seamless:				
4 1/2" outside diameter and under (excluding casing)	12,614	15,306	25,888	21,005
Over 4 1/2" outside diameter (including all sizes of casing)	17,191	18,182	14,102	17,155
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	7,700	7,154	8,758	7,985
Totals	37,505	40,642	48,748	46,145
Steel pipe fittings:				
Buttwelding fittings	158	148	206	98
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	643	573	614	569
Totals	801	721	820	667

(1) Included with other.

TABLE 12. Production and Shipments of Steel Pipes, Tubes and Fittings Eleven Months Ended November

	1963		1964	
	Made	Shipped	Made	Shipped
	net tons of 2,000 pounds			
Pipe, welded and seamless:				
4 1/2" outside diameter and under (excluding casing)	164,408	168,378	202,508	196,139
Over 4 1/2" outside diameter (including all sizes of casing)	298,723	304,541	417,900	412,217
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	74,458	68,247	87,427	83,362
Totals	537,589	541,166	707,835	691,718
Steel pipe fittings:				
Buttwelding fittings	1,532	1,725	1,675	1,775
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	5,763	6,088	5,784	6,104
Totals	7,295	7,813	7,459	7,879

(1) Included with other.

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

	Production	Total of all shipments	Shipments for further processing	Net shipments
	net tons of 2,000 pounds			
Carbon steel:				
Hot rolled:				
Semi-finished shapes:				
For re-rolling	22,623	11,781	11,781	-
For forging and piercing	18,357	18,783	-	18,783
Rails	26,117	15,038	-	15,038
Wire rods	34,711	34,571	-	34,571
Structural shapes:				
Heavy, including piling	37,018	36,226	-	36,226
Light	10,567	9,726	-	9,726
Concrete reinforcing bars	48,475	54,892	-	54,892
Other hot rolled bars	42,051	46,140	4,018	42,122
Tie plates and track material:				
Angle bars	814	876	-	876
Tie plates	3,010	4,029	-	4,029
Track spikes	330	234	-	234
Plates (including plates for pipes and tubes)	74,736	73,084	-	73,084
Hot rolled sheets	154,683	154,145	88,227	65,918
Hot rolled strip	124,846	120,548	111,015	9,533
Total hot rolled products	598,338	580,073	215,041	365,032
Cold rolled and coated:				
Cold finished bars	5,504	5,622	-	5,622
Cold reduced sheets and strip, tin mill black plate and tin plate	188,458	184,160	74,013	110,147
Galvanized sheets	42,948	44,698	-	44,698
Total cold rolled and coated	236,910	234,480	74,013	160,467
Total carbon steel	835,248	814,553	289,054	525,499
Alloy steel:				
Semi-finished shapes:				
For re-rolling	68	68	68	-
For forging and piercing	3,746	3,363	-	3,363
Alloy plates	798	557	-	557
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	18,418	16,773	107	16,666
Cold finished bars	696	835	-	835
Wire rods	489	316	-	316
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	3,350	3,418	-	3,418
Total alloy steel	27,565	25,330	175	25,155

TABLE 14. Production and Disposition of Shipments of Rolled Steel Products, Eleven Months Ended November 1964

	Production	Total of all shipments	Shipments for further processing	Net shipments
		net tons of 2,000 pounds		
Carbon steel:				
Hot rolled:				
Semi-finished shapes:				
For re-rolling	232,086	219,269	124,334	94,935
For forging and piercing	192,432	197,935	-	197,935
Rails	228,952	236,054	-	236,054
Wire rods	400,119	397,208	-	397,208
Structural shapes:				
Heavy, including piling	401,871	416,386	-	416,386
Light	99,040	102,310	-	102,310
Concrete reinforcing bars	485,946	516,822	-	516,822
Other hot rolled bars	448,998	450,811	49,677	401,134
Tie plates and track material:				
Angle bars	13,036	12,671	-	12,671
Tie plates	57,757	54,321	-	54,321
Track spikes	7,289	7,048	-	7,048
Plates (including plates for pipes and tubes)	794,109	783,038	-	783,038
Hot rolled sheets	1,613,824	1,601,572	869,960	731,612
Hot rolled strip	1,360,584	1,340,431	1,134,636	205,795
Total hot rolled products	6,336,043	6,335,876	2,178,607	4,157,269
Cold rolled and coated:				
Cold finished bars	55,285	55,639	-	55,639
Cold reduced sheets and strip, tin mill black plate and tin plate	2,140,568	2,127,656	905,934	1,221,722
Galvanized sheets	439,791	436,782	-	436,782
Total cold rolled and coated	2,635,644	2,620,077	905,934	1,714,143
Total carbon steel	8,971,687	8,955,953	3,084,541	5,871,412
Alloy steel:				
Semi-finished shapes:				
For re-rolling	294	294	294	-
For forging and piercing	45,192	42,632	-	42,632
Alloy plates	14,053	10,107	-	10,107
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	158,238	153,285	1,573	151,712
Cold finished bars	7,393	7,526	-	7,526
Wire rods	4,706	4,300	-	4,300
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	36,180	35,833	-	35,833
Total alloy steel	266,056	253,977	1,867	252,110

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

SDI No.		November 1964		Eleven months ended November 1964	
		Carbon	Alloy	Carbon	Alloy
		net tons of 2,000 pounds			
4	Wholesalers and warehouses	90,234	1,010	846,046	10,414
5	Export	49,810	3,072	651,919	35,163
6	Automotive and aircraft industries ..	34,702	10,251	346,233	97,362
7	Agricultural	20,052	432	164,436	3,541
8a	Contractors - Building	23,752	25	211,728	76
b	Construction - Public and utility ...	2,503	-	27,477	31
c	Structural steel fabricators	76,568	209	805,528	2,096
9	Containers	27,663	5	395,878	366
10	Machinery and tools	17,866	3,136	180,072	30,071
11	Wire, wire products and fasteners ...	42,141	1,002	461,599	10,688
12	Natural resources and extractive industries	11,822	2,898	117,445	20,760
13	Appliances and utensils	17,704	293	196,636	2,050
14	Other metal stamping and pressing ..	36,290	131	414,541	4,028
16	Railway operating	9,201	25	198,711(2)	465
17	Railroad cars and locomotives	5,213	-	69,225(2)	559
18	Shipbuilding	10,640	78	89,395	6,659
19	Pipes and tubes	48,178	2,568	675,673	27,655
20	Miscellaneous	1,160	20	18,870	126
	Net shipments	525,499	25,155	5,871,412	252,110

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

TABLE 16. Disposition of Shipments(1) of Rolled Steel Products, by Product, November 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	-	216	994	9,650	2,609	14,527	7,282
5	Export	266	6,686	538	64	-	-	3,756
6	Automotive and air-craft industries	2,153	-	56	137	71	13	14,710
7	Agricultural	14	-	19	760	1,162	-	7,247
8a	Contractors - Building ...	-	-	242	1,137	979	11,349	625
b	Construction - Public and utility	-	-	1	47	10	2,204	-
c	Structural steel fabri-cators	148	51	373	21,682	2,919	16,523	2,013
9	Containers	-	-	6	-	-	-	75
10	Machinery and tools	613	255	366	608	358	80	3,750
11	Wire, wire products and fasteners	469	-	32,098	3	74	80	6,810
12	National resources and extractive industries ..	257	472	79	425	64	2,548	7,498
13	Appliances and utensils ..	-	-	2	11	-	-	283
14	Other metal stamping and pressing	80	-	61	-	1,199	7,266	3,008
16	Railway operating	-	7,346	-	-	140	13	384
17	Railroad cars and loco-motives	1,434	-	2	739	38	-	532
18	Shipbuilding	11	-	4	946	85	-	445
19	Pipes and tubes	16,701	-	-	-	-	-	63
20	Miscellaneous	-	12	46	17	18	289	307
	Net shipments	22,146	15,038	34,887	36,226	9,726	54,892	58,788

(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, November 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								
107	17,172	14,423	159	1,839	13,525	8,741	91,244	4
4,386	1,507	6,329	-	39	22,957	6,354	52,882	5
1	426	11,135	1,242	1,426	12,138	1,445	44,953	6
-	1,488	5,999	71	1,171	1,642	911	20,484	7
-	2,000	1,900	133	-	703	4,709	23,777	8a
-	-	-	-	-	241	-	2,503	b
5	15,072	3,755	658	116	3,347	10,115	76,777	c
-	-	180	132	1	27,078	196	27,668	9
-	4,737	4,041	237	903	4,357	697	21,002	10
5	-	1,730	21	525	1,194	134	43,143	11
64	2,305	161	2	56	711	78	14,720	12
-	1,894	3,303	186	97	10,129	2,092	17,997	13
-	931	3,675	501	249	10,923	8,528	36,421	14
571	432	196	-	2	17	125	9,226	16
-	1,213	1,097	-	14	141	3	5,213	17
-	8,992	147	-	6	-	82	10,718	18
-	15,429	7,847	6,191	-	4,130	385	50,746	19
-	43	-	-	13	332	103	1,180	20
5,139	73,641	65,918	9,533	6,457	113,565	44,698	550,654	

TABLE 17. Disposition of Shipments(1) of Rolled Steel Products, by Product, Eleven Months Ended November 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	1,649	2,615	8,064	89,956	33,495	143,785	81,333
5	Export	103,278	84,429	6,091	4,491	8,920	588	36,509
6	Automotive and air-craft industries	34,127	2	988	1,560	847	13	131,310
7	Agricultural	24	-	231	6,272	8,375	92	52,610
8a	Contractors - Building ...	34	109	4,059	8,411	5,223	119,662	5,166
b	Construction - Public and utility	7	113	5	3,631	244	19,888	356
c	Structural steel fabri-cators	415	834	7,272	259,847	28,387	126,988	24,968
9	Containers	-	-	121	-	-	-	848
10	Machinery and tools	5,677	1,468	3,495	7,463	2,843	3,831	33,664
11	Wire, wire products and fasteners	5,469	-	365,448	206	1,861	2,263	66,153
12	National resources and extractive industries ..	3,315	6,630	764	9,949	1,253	17,233	64,264
13	Appliances and utensils ..	-	-	71	299	73	4	1,540
14	Other metal stamping and pressing	675	587	2,675	1,875	8,168	79,666	35,768
16	Railway operating	24	136,394	1	763	599	56	5,205
17	Railroad cars and loco-motives	16,790	2,420	86	11,690	815	-	7,246
18	Shipbuilding	21	172	9	9,000	584	4	3,311
19	Pipes and tubes	163,944	2	-	54	-	-	182
20	Miscellaneous	53	279	2,128	919	623	2,749	2,413
	Net shipments	335,502	236,054	401,508	416,386	102,310	516,822	552,846

(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.
(3) Includes revisions for year to date.

TABLE 17. Disposition of Shipments(1) of Rolled Steel Products, by Product, Eleven Months Ended November 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					
707	134,738	127,799	809	18,715	129,367	83,428	856,460	4
29,115	23,420	109,907	295	271	219,279	60,489	687,082	5
1	3,847	100,361	32,005	14,619	111,447	12,468	443,595	6
-	11,038	50,516	1,115	10,481	18,111	9,112	167,977	7
165	21,607	10,904	760	-	9,048	26,656	211,804	8a
62	2	1,682	-	-	1,518	-	27,508	b
16	148,192	53,337	3,448	510	34,707	118,703	807,624	c
-	71	2,250	882	12	389,876	2,184	396,244	9
5	53,686	35,944	2,147	7,916	45,749	6,255	210,143	10
75	168	12,461	605	5,575	9,260	2,743	472,287	11
1,315	21,492	4,167	74	808	5,528	1,413	138,205	12
-	20,402	42,433	1,754	933	113,048	18,129	198,686	13
-	10,515	62,866	13,300	3,016	111,134	88,324	418,569	14
42,050	6,912	2,502	-	64	330	1,384	196,284(3)	16
489	22,409	8,326	-	37	1,157	1,211	72,676(3)	17
4	80,550	1,487	-	46	312	554	96,054	18
-	233,053	102,091	148,601	3	51,891	3,507	703,328	19
36	1,043	2,579	-	159	5,793	222	18,996	20
74,040	793,145	731,612	205,795	63,165	1,257,555	436,782	6,123,522	

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