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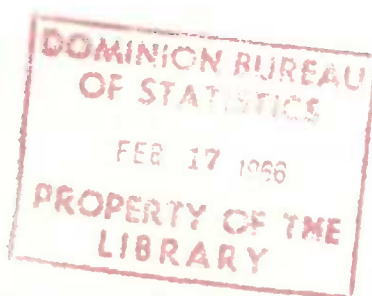
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PRIMARY IRON AND STEEL

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For some time it was recognized that the industry classifications being used to indicate steel distribution were badly out of date.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

NOTE: re Comparability of Data

Due to a switch to fixed accounting periods by one company, starting with January 1965 monthly data for steel ingots and pig iron (and their associated materials), as well as rolling mill products, will not be strictly comparable with previous years.

TABLE 1. Pig Iron Capacity, January 1, 1965

	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	6,592,500	1	182,500
Electric furnaces	10	513,200	-	-
Totals	24	7,105,700	1	182,500

TABLE 2. Iron Blast Furnaces Charges(1)

	November 1965	Eleven months ended November 1965
	net tons of 2,000 pounds	
<u>Crude iron ore:</u>		
From Canadian mines	28,320	514,643
From foreign mines	137,485	1,361,039
Pyrite cinder	(2)	(2)
<u>Iron ore (sintered, pelletized, etc.):</u>		
From Canadian mines	373,208	2,696,844
From foreign mines	253,160	3,581,977
From own processing	126,085	1,572,680
Mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.)	26,997	267,552
Scrap iron and steel	10,552	88,813
Limestone	57,733	692,900
Dolomite	43,876	518,273
Coke	317,800	3,584,635

(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

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	440,950	13,150	533,015	9,279
Foundry (including silvery pig)(2)	40,711	52,680	39,109	59,901
Malleable	29,474	43,550	20,410	26,152
Total pig iron	511,135	109,380	592,534	95,332
Ferro-alloys	15,287	17,925	12,470	15,464
Stocks of pig iron on hand at end of month	175,823		107,525	

(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

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	5,164,044	68,232	5,779,826	89,301
Foundry (including silvery pig)(2)	395,691	417,621	440,403	443,802
Malleable	424,709	293,004	256,057	297,444
Total pig iron	5,984,444	778,857	6,476,286	830,547
Ferro-alloys	148,579	161,001 ^r	168,309	158,275

(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.

^r Revised figure.

TABLE 5. Steel Furnace Capacity at First of January 1965

	Annual capacity
	net tons of 2,000 pounds
Ingots - Basic open hearth	5,920,000
Electric	1,324,900
Oxygen	3,100,000
Total ingots	10,344,900
Steel castings	563,936
Total ingots and castings	10,908,836

TABLE 6. Pig Iron and Scrap charged to Steel Furnaces

	November		Eleven months ended November	
	1964	1965	1964	1965
	net tons of 2,000 pounds			
Pig iron	475,720	525,712	5,177,234	5,630,372
Scrap - Own make	223,638	285,044	2,334,772	2,848,500
Purchased	174,029	151,920	1,906,759	1,968,926
Total pig iron and scrap	873,387	962,676	9,418,765	10,447,798

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

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy)</u> <u>(including continuous cast steel):</u>				
Basic open hearth	675,504	22,410	726,965	1,990
Electric	81,059	9,385	98,115	8,836
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	756,563	31,795	825,080	10,826
Continuous cast steel included in above .....	..	..	33,578	4,274
Alloy steel ingots included in above	47,763	1,547	70,110	1,570
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	-	-	(3)	(3)
Electric	13,493	13,519	15,018	14,710
Other	-	-	-	-
Total steel castings	13,493	13,519	15,018	14,710
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	450	426	424	408
High alloy, manganese and abrasion resistant	2,181	2,085	2,744	2,558
All other alloys	787	768	1,143	1,071
Total alloy castings	3,418	3,279	4,311	4,037

(1) Includes amounts for sale and for own use. (2) Included with "Basic open hearth". (3) Included with "electric". .. Figures not available.

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

	1964		1965	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy)</u> <u>(including continuous cast steel):</u>				
Basic open hearth	7,441,650	80,693	8,040,496	138,998
Electric	769,427	103,725	1,020,719	104,356
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	8,211,077	184,418	9,061,215	243,354
Continuous cast steel included in above .....	..	..	290,429	20,531
Alloy steel ingots included in above	485,845	14,445	624,577	17,457
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	1,628	1,628	(3)	(3)
Electric	147,121	136,047	148,369	143,750
Other	-	-	(3)	(3)
Total steel castings	148,749	137,675	148,369	143,750
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	4,169	3,878	4,800	4,182
High alloy, manganese and abrasion resistant ..	23,758	23,697	25,475	25,029
All other alloys	8,658	8,115	11,377	10,688
Total alloy castings	36,585	35,690	41,652	39,899

(1) Includes amounts for sale and for own use. (2) Included with "Basic open hearth". (3) Included with "electric". .. Figures not available.

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 1965		Eleven months ended November 1965	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
Export	260	330	4,211	4,004
Automotive and aircraft industries	551	51	5,365	278
Agricultural (including implement and equipment manufacturers)	115	30	1,090	170
Construction (including public works, public utilities and structural steel fabricators) ...	142	206	1,541	2,345
Machinery and tools	1,659	574	18,374	6,588
Natural resources and extractive industries (including mining, lumbering, quarrying, oil and gas, including refineries, etc.)	1,314	1,634	13,863	14,728
Railway operating	4,723	753	40,301	7,044
Railroad cars and locomotives	1,602	59	16,149	865
Shipbuilding	80	11	558	231
Miscellaneous and unclassified	227	389	2,399	3,646
Total	10,673	4,037	103,851	39,899

(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>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	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	556,235	17,346	757,907	13,030	770,937
Totals	6,540,679	165,925	8,968,984	161,779	9,130,763
<u>1965</u>					
January	601,676	15,665	818,473	12,697	831,170
February	513,619	13,812	728,054	14,083	742,137
March	542,739	16,209	821,743	15,478	837,221
April	536,677	15,903	784,803	14,844	799,647
May	637,149	16,956	880,115	14,228	894,343
June	592,630	14,991	830,734	13,626	844,360
July	624,997	14,271	834,980	10,289	845,269
August	634,605	16,515	863,344	11,774	875,118
September	585,744	17,164	810,856	12,893	823,749
October	613,916	14,353	863,033	13,439	876,472
November	592,534	12,470	825,080	15,018	840,098
December					
Totals					

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

	1964		1965	
	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)	26,406 ^r	21,523 ^r	20,703	24,811
Over 4 1/2" outside diameter (including all sizes of casing)	14,102	17,155	33,255	35,749
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	8,240 ^r	7,467 ^r	8,340	8,403
Totals	48,748	46,145	62,298	68,963
<u>Steel pipe fittings:</u>				
Buttwelding fittings	206	98	188	176
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	614	569	660	629
Totals	820	667	848	805

(1) Included with Other.

^r Revised figures.

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

	1964		1965	
	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)	207,383 ^r	201,014 ^r	238,658	237,098
Over 4 1/2" outside diameter (including all sizes of casing)	417,900	412,217	375,576	368,823
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	82,552 ^r	78,487 ^r	91,474	91,238
Totals	707,835	691,718	705,708	697,159
<u>Steel pipe fittings:</u>				
Buttwelding fittings	1,675	1,775	1,536	1,982
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	5,784	6,104	6,277	6,619
Totals	7,459	7,879	7,813	8,601

(1) Included with Other.

^r Revised figures.

TABLE 13. Production and Disposition of Shipments of Rolled Steel Products, November 1965

	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	24,292	21,018	21,018	-
For forging and piercing	21,673	22,700	-	22,700
Rails	15,144	9,148	-	9,148
Wire rods	30,555	30,950	-	30,950
Structural shapes:				
Heavy, including piling	48,346	39,658	-	39,658
Bar-sized shapes	7,925	7,190	-	7,190
Concrete reinforcing bars	46,108	54,327	-	54,327
Other hot rolled bars:				
Flats	6,435	8,008	) 5,428	(8,008
Other	48,658	39,085	)	( 33,657
Tie plates and track material:				
Angle bars	-	54	-	54
Tie plates	1,831	1,120	-	1,120
Track spikes	166	342	-	342
Plates (including plates for pipes and tubes)	78,687	84,684	-	84,684
Hot rolled sheets	198,949	195,392	118,842	76,550
Hot rolled strip	116,245	113,882	90,097	23,785
Total hot rolled products ...	645,014	627,558	235,385	392,173
<u>Cold rolled and coated:</u>				
Cold finished bars	6,672	6,481	-	6,481
Cold reduced sheets and strip, tin mill black plate and tin plate	208,968	196,285	84,392	111,893
Galvanized sheets	49,079	47,506	-	47,506
Total cold rolled and coated ..	264,719	250,272	84,392	165,880
Total carbon steel	909,733	877,830	319,777	558,053
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	920	920	920	-
For forging and piercing	10,748	10,748	-	10,748
Alloy plates	1,371	2,338	-	2,338
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	20,418	23,731	283	23,448
Cold finished bars	1,611	1,425	-	1,425
Wire rods	356	374	-	374
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	4,737	4,640	-	4,640
Total alloy steel	40,161	44,176	1,203	42,973

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

SDI No.	November 1965		Eleven months ended November 1965	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
4 Wholesalers and warehouses	86,571	1,224	930,307	11,704
6 Automotive and aircraft industries ..	47,387	13,824	413,624	115,664
7 Agricultural	20,813	340	168,270	4,223
8a Contractors - Building	45,309	32	430,460	618
b Construction - Public and Utility ...	4,749	2	42,018	113
c Structural steel fabricators	75,297	665	791,379	3,972
9 Containers	28,174	1	416,579	219
10 Machinery and tools	25,247	2,249	216,837	28,566
11 Wire, wire products and fasteners ..	37,479	1,460	487,193	13,202
12 Natural resources and extractive industries	13,698	7,775	118,598	39,071
13 Appliances and utensils	15,329	278	187,201	2,654
14 Other metal stamping and pressing ...	38,310	470	357,864	5,589
16 Railway operating	3,411	-	194,293	117
17 Railroad cars and locomotives	14,150	51	117,525	1,709
18 Shipbuilding	11,284	1,585	111,370	2,768
19 Pipes and tubes	56,425	8,296	690,690	36,844
20 Miscellaneous	1,318	153	13,527	1,063
Total domestic shipments	524,951	38,405	5,687,735	268,096
5 Export	33,102	4,568	523,324	43,219
Total net shipments	558,053	42,973	6,211,059	311,315

(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 Net Shipments(1) of Rolled Steel Products, by Product, November 1965

SDI No.	Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars	
				Heavy including piling	Bar-sized shapes			
net tons of 2,000 pounds								
4	Wholesalers and ware- houses	86	239	533	7,918	1,955	8,407	6,768
6	Automotive and air-craft industries	6,672	-	1,284	226	14	20	16,059
7	Agriculture	1	-	29	971	780	173	6,054
8a	Contractors - Building ...	145	-	282	407	302	17,402	333
b	Construction - Public and utility	-	3	-	940	18	2,542	168
c	Structural steel fabri- cators	53	51	110	22,926	2,381	20,011	2,288
9	Containers	-	-	-	-	-	-	270
10	Machinery and tools	1,345	21	218	675	167	35	3,468
11	Wire, wire products and fasteners	731	-	27,323	61	79	45	7,969
12	Natural resources and extractive industries ..	213	2,464	34	1,757	247	1,269	12,239
13	Appliances and utensils ..	-	-	-	-	10	30	33
14	Other metal stamping and pressing	8	-	87	227	1,011	4,108	4,154
16	Railway operating	38	954	78	261	67	-	283
17	Railroad cars and loco- motives	3,148	-	-	1,811	82	-	974
18	Shipbuilding	-	-	-	879	74	-	398
19	Pipes and tubes	19,626	-	-	-	-	-	115
20	Miscellaneous	-	-	-	271	3	285	244
Total domestic shipments		32,066	3,732	29,978	39,330	7,190	54,327	61,817
5	Export	1,382	5,416	1,346	328	-	-	3,296
Total net shipments		33,448	9,148	31,324	39,658	7,190	54,327	65,113

(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 Net Shipments(1) of Rolled Steel Products, by Product, November 1965

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.
81	14,165	17,014	859	2,205	17,208	10,357	87,795	4
-	594	13,362	3,322	2,229	15,764	1,665	61,211	6
-	2,365	6,018	247	1,351	2,123	1,041	21,153	7
2	1,981	3,058	203	2	2,808	18,416	45,341	8a
19	121	678	-	1	261	-	4,751	b
-	17,943	4,669	723	40	1,311	3,456	75,962	c
-	-	255	260	-	26,990	400	28,175	9
-	8,447	5,282	125	687	5,824	1,202	27,496	10
8	226	1,515	13	467	439	63	38,939	11
60	2,089	179	7	126	729	60	21,473	12
-	269	3,275	23	163	10,022	1,782	15,607	13
-	1,360	8,352	281	246	13,614	5,332	38,780	14
349	981	321	-	-	22	57	3,411	16
-	5,981	1,988	-	15	178	24	14,201	17
-	11,246	163	-	6	51	52	12,869	18
-	15,190	6,708	17,722	1	5,082	277	64,721	19
-	-	-	-	83	542	43	1,471	20
519	82,958	72,837	23,785	7,622	102,968	44,227	563,356	
997	4,064	3,713	-	284	13,565	3,279	37,670	5
1,516	87,022	76,550	23,785	7,906	116,533	47,506	601,026	

TABLE 17. Disposition of Net Shipments(1) of Rolled Steel Products, by Product, Eleven Months Ended November 1965

SDI No.		Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy including piling	Bar-sized shapes		
4	Wholesalers and ware- houses	2,411	1,970	8,291	95,456	27,358	93,409	84,192
6	Automotive and air-craft industries	41,063	1	1,512	1,418	1,079	40	147,987
7	Agriculture	84	-	171	8,152	7,773	175	49,024
8a	Contractors - Building ...	796	151	4,424	8,081	3,543	159,778	7,253
b	Construction - Public and utility	57	226	5	2,718	275	32,684	723
c	Structural steel fabri- cators	836	560	2,635	235,016	29,786	242,711	25,309
9	Containers	-	-	138	-	-	-	772
10	Machinery and tools	8,198	881	2,502	7,878	3,358	506	38,674
11	Wire, wire products and fasteners	7,632	2,823	379,358	188	2,621	1,796	78,851
12	Natural resources and extractive industries ..	3,982	11,411	656	8,166	1,516	9,099	87,691
13	Appliances and utensils ..	-	-	27	296	245	30	2,338
14	Other metal stamping and pressing	1,671	588	571	1,515	7,581	50,457	32,281
16	Railway operating	106	131,318	110	1,480	754	1,515	11,501
17	Railroad cars and loco- motives	23,378	42	59	14,220	1,053	82	7,786
18	Shipbuilding	-	41	3	10,268	897	7	3,677
19	Pipes and tubes	182,265	-	-	53	31	168	334
20	Miscellaneous	1	184	13	878	706	2,637	5,005
Total domestic shipments		272,480	150,196	400,475	395,783	88,576	595,094	583,398
5	Export	65,961	50,229	8,080	5,371	525	300	35,657
Total net shipments		338,441	200,425	408,555	401,154	89,101	595,394	619,055

(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 Net Shipments(1) of Rolled Steel Products, by Product, Eleven Months Ended November 1965

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.
687	173,613	169,130	9,123	21,990	158,160	96,221	942,011	4
-	4,898	126,782	37,406	17,919	135,488	13,695	529,288	6
-	16,729	46,338	2,132	11,164	18,971	11,780	172,493	7
61	31,366	27,672	863	7	28,034	159,049	431,078	8a
190	519	2,493	-	37	2,191	13	42,131	b
19	160,299	37,457	12,874	599	14,703	32,547	795,351	c
-	-	3,215	1,392	1	408,781	2,499	416,798	9
8	63,516	41,532	2,660	6,631	59,557	9,502	245,403	10
74	852	15,376	492	4,123	5,267	942	500,395	11
1,015	21,160	5,034	179	296	4,557	2,907	157,669	12
-	16,371	39,115	1,825	1,913	106,667	21,028	189,855	13
8	11,455	56,731	2,540	2,370	132,599	63,086	363,453	14
36,415	7,284	2,717	-	17	109	1,084	194,410	16
4,417	48,908	16,351	40	54	2,188	656	119,234	17
6	96,105	2,117	11	49	533	424	114,138	18
10	192,902	103,538	184,331	1	59,726	4,175	727,534	19
3	-	9	-	246	4,802	106	14,590	20
42,913	845,977	695,607	255,868	67,417	1,142,333	419,714	5,955,831	
12,796	22,933	88,080	17	564	220,609	55,421	566,543	5
55,709	868,910	783,687	255,885	67,981	1,362,942	475,135	6,522,374	

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