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# PRIMARY IRON AND STEEL

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### SYMBOLS

The following standard symbols are used in Dominion Bureau of Statistics publications:

.. figures not available.

... figures not appropriate or not applicable.

- nil or zero.

-- amount too small to be expressed.

P preliminary figures.

r revised figures.

x confidential to meet secrecy requirements  
of the Statistics Act.

### NOTE

The terms Shipments, Net Shipments, used throughout this publication refer to producers' shipments.

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TABLE 1. Pig Iron Capacity, December 31, 1968

	In blast or in use		Banked, blown out or idle	
	Furnaces	Annual capacity	Furnaces	Annual capacity
	No.	net tons	No.	net tons
Blast furnaces .....	15	9,005,000	2	332,000
Electric furnaces .....	11	575,000	-	-
Totals .....	26	9,580,000	2	332,000

TABLE 2. Iron Blast Furnaces Charges(1)

	September 1969	Nine months ended September 1969
	net tons of 2,000 pounds	
<u>Crude iron ore</u>		
From Canadian mines .....	5,660	233,964
From foreign mines .....	50,319	428,800
Pyrite cinder .....	(2)	(2)
<u>Iron ore (sintered, pelletized, etc.)</u>		
From Canadian mines .....	213,121	5,266,538
From foreign mines .....	99,857	1,443,119
From own processing .....	-	690,612
Mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.) .....	17,745	210,035
Scrap iron and steel .....	13,026	109,616
Limestone .....	26,282	523,470
Dolomite .....	36,735	347,334
Coke .....	132,514	2,975,828

(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

	1968		1969	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
<u>September</u>	net tons of 2,000 pounds			
<u>Pig iron</u>				
Basic .....	553,242	6,565	242,080	14,701
Foundry (including silvery pig) (2) .....	46,573	48,559	53,781	52,747
Malleable .....	27,915	25,865	-	11,422
Total pig iron .....	627,730	80,989	295,861	78,870
Ferro-alloys .....	14,973	14,725	19,750	15,326
Stocks of pig iron on hand at end of month ....	333,004		189,646	

(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 3A. Production and Shipments of Pig Iron and Ferro-alloys

	1968		1969	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
<u>Nine months ended September</u>	net tons of 2,000 pounds			
<u>Pig iron</u>				
Basic .....	5,655,095	107,357	5,013,549	57,238
Foundry (including silvery pig) (2) .....	419,896	327,914	465,837	420,422
Malleable .....	221,813	151,266	245,063	144,948
Total pig iron .....	6,296,804	586,537	5,724,449	622,608
Ferro-alloys .....	122,442	128,897	152,027	152,135

(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 4. Steel Furnace Capacity, December 31, 1968

	Annual capacity
	net tons of 2,000 pounds
Ingots - Basic open hearth .....	6,970,000
Electric .....	1,923,650
Basic oxygen furnace .....	3,800,000
Total ingots .....	12,693,650
Steel castings .....	420,725
Total ingots and castings .....	13,114,375

TABLE 5. Pig Iron and Scrap charged to Steel Furnaces

	September		Nine months ended September	
	1968	1969	1968	1969
	net tons of 2,000 pounds			
Pig iron .....	582,276	216,754	5,507,152	4,758,031
Scrap - Own make .....	258,009	103,897	2,426,320	2,242,882
Purchased .....	149,938	158,423	1,490,013	1,551,495
Total pig iron and scrap .....	990,223	479,074	9,423,485	8,552,408

TABLE 6. Production and Shipments of Steel Ingots and Castings

	1968		1969	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>September</u>				
<u>Steel ingots (both carbon and alloy)</u> <u>(including continuous cast steel)</u>				
Basic open hearth .....	736,562	15,584	266,346	16,371
Electric .....	117,781	18,847	136,299	19,970
Basic oxygen furnace .....	(2)	(2)	(2)	(2)
Total steel ingots .....	854,343	34,431	402,645	36,341
Continuous cast steel included in above .....	90,265 <sup>r</sup>	x	84,089	x
Alloy steel ingots included in above .....	66,115	x	25,075	x
<u>Steel castings (both carbon and alloy)</u>				
Basic open hearth .....	(3)	(3)	-	-
Electric .....	11,159	10,553	12,527	13,313
Basic oxygen furnace .....	-	-	-	-
Total steel castings .....	11,159	10,553	12,527	13,313
<u>Alloy steel castings included in above</u>				
High alloy, except manganese and abrasion resistant .....	407	226	637	342
Manganese and abrasion resistant .....	1,508	1,551	2,166	2,160
All other alloys .....	522	675	938	1,016
Total alloy castings .....	2,437	2,452	3,741	3,518

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

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

(2) Included with "Basic open hearth".

(3) Included with "Electric".



TABLE 6A. Production and Shipments of Steel Ingots and Castings

	1968		1969	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
Nine months ended September				
net tons of 2,000 pounds				
<u>Steel ingots (both carbon and alloy)</u>				
<u>(including continuous cast steel)</u>				
Basic open hearth .....	7,177,474	108,755	6,477,460	148,035
Electric .....	1,023,489	167,193	1,164,661	198,132
Basic oxygen furnace .....	(2)	(2)	(2)	(2)
Total steel ingots .....	8,200,963	275,948	7,642,121	346,167
Continuous cast steel included in above .....	769,904 <sup>r</sup>	x	902,294	x
Alloy steel ingots included in above .....	553,054	x	609,646	x
<u>Steel castings (both carbon and alloy)</u>				
Basic open hearth .....	(3)	(3)	-	-
Electric .....	101,643	97,682	114,657	114,283
Basic oxygen furnace .....	-	-	-	-
Total steel castings .....	101,643	97,682	114,657	114,283
<u>Alloy steel castings included in above</u>				
High alloy, except manganese and abrasion resistant .....	3,780	2,489	5,760	3,380
Manganese and abrasion resistant .....	15,728	16,514	17,657	19,023
All other alloys .....	5,049	5,204	8,077	7,852
Total alloy castings .....	24,557	24,207	31,494	30,255

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

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

(2) Included with "Basic open hearth".

(3) Included with "Electric".

TABLE 7. Disposition of Shipments(1) of Steel Castings

	September 1969		Nine months ended September 1969	
	Carbon	Alloy	Carbon	Alloy
net tons of 2,000 pounds				
Wholesalers and warehouses .....	-	9	-	40
Export .....	1,074	281	10,228	2,630
Automotive and aircraft industries .....	636	1	4,971	1
Agricultural (including implement and equipment manufacturers) .....	122	31	861	274
Construction (including public works, public utilities and structural steel fabricators) ...	82	330	804	3,580
Machinery and tools .....	1,551	1,184	15,222	9,306
Natural resources and extractive industries (including mining, lumbering, quarrying, oil and gas, including refineries, etc.) .....	519	873	6,056	7,974
Railway operating .....	3,545	151	29,172	2,064
Railroad cars and locomotives .....	2,006	290	14,516	1,561
Shipbuilding .....	18	4	227	84
Miscellaneous (including grinding balls and railway car wheels) .....	242	364	1,971	2,741
Totals .....	9,795	3,518	84,028	30,255

(1) Compiled by principal consuming industries, according to the Steel Distribution Index revised 1964, copies of which are available on request. Includes producers' own-make castings allocated to appropriate consuming industry.



TABLE 8. 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>1968</u>					
January .....	617,812	13,709	867,962	14,682	882,644
February .....	674,574	15,387	857,665	12,112	869,777
March .....	774,150	14,104	986,974	12,265	999,239
April .....	739,159	15,121	934,155	11,644	945,799
May .....	747,595	13,226	978,893	12,638	991,531
June .....	708,104	11,982	938,233	10,821	949,054
July .....	734,172	11,853	898,414	7,067	905,481
August .....	673,508	12,087	884,324	9,255	893,579
September .....	627,730	14,973	854,343	11,159	865,502
October .....	713,551	16,061	973,748	12,299	986,047
November .....	682,489	13,467	989,030	16,698	1,005,728
December .....	689,757	14,942	944,866	11,749	956,615
Totals .....	8,382,601	166,912	11,108,607	142,389	11,250,996
<u>1969</u>					
January .....	708,626	14,822	986,844	11,731	998,575
February .....	647,814	16,029	899,685	12,554	912,239
March .....	768,830	17,506	1,022,559	13,398	1,035,957
April .....	774,949	17,889	1,012,947	14,239	1,027,186
May .....	782,891	15,862	1,012,875	15,033	1,027,908
June .....	726,491	18,453	974,740	13,888	988,628
July .....	732,290	15,152	942,868	10,659	953,527
August .....	286,697	16,564	385,897	10,628	396,525
September .....	295,861	19,750	402,645	12,527	415,172
October .....					
November .....					
December .....					
Totals .....					

TABLE 9. Production and Shipments of Steel Pipe, Tubing and Fittings

	1968		1969	
	Made	Shipped	Made	Shipped
	net tons of 2,000 pounds			
<u>September</u>				
<u>Pipe and tubing, welded and seamless</u>				
4 1/2" outside diameter and under (excluding tubing and casing) .....	25,390	24,722	20,790	25,632
Over 4 1/2" outside diameter (excluding tubing and casing) .....	17,619	15,742	20,989	21,375
Mechanical and pressure tubing, casing and oil well tubing .....	18,234	18,904	18,292	15,837
Totals .....	61,243	59,368	60,071	62,844
<u>Steel pipe fittings</u>				
Buttwelding fittings .....	95	129	80	91
Nipples .....	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings ...	556	551	496	578
Totals .....	651	680	576	669

(1) Included with "Other".

TABLE 9A. Production and Shipments of Steel Pipe, Tubing and Fittings

	1968		1969	
	Made	Shipped	Made	Shipped
	net tons of 2,000 pounds			
<u>Nine months ended September</u>				
<u>Pipe and tubing, welded and seamless</u>				
4 1/2" outside diameter and under (excluding tubing and casing) .....	202,939	195,137	215,839	220,279
Over 4 1/2" outside diameter (excluding tubing and casing) .....	475,842	471,690	391,119	407,148
Mechanical and pressure tubing, casing and oil well tubing .....	158,794	160,340	178,580	178,907
Totals .....	837,575	827,167	785,538	806,334
<u>Steel pipe fittings</u>				
Buttwelding fittings .....	1,131	1,378	827	924
Nipples .....	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings ...	3,940	4,623	5,129	5,541
Totals .....	5,071	6,001	5,956	6,465

(1) Included with "Other".

TABLE 10. Production and Disposition of Shipments of Ingots and Rolled Steel Products

	Production	Imports	Total of all shipments(1)	Shipments for further processing(1)	Net shipments
			net tons of 2,000	pounds	
<u>September 1969</u>					
<u>Carbon steel</u>					
<u>Hot rolled</u>					
Ingots and semi-finished shapes:					
For re-rolling .....					
For forging and piercing .....					
Rails .....					
Wire rods .....					
Structural shapes:					
Heavy .....					
Bar-sized shapes .....					
Concrete reinforcing bars .....					
Other hot rolled bars:					
Flats .....					
Other .....					
Tie plates and track material:					
Angle bars .....					
Tie plates .....					
Track spikes .....					
Plates (including plates for pipes and tubes) .....					
Hot rolled sheets .....					
Hot rolled strip .....					
Total hot rolled products ...					
<u>Cold rolled and coated</u>					
Cold finished bars .....					
Cold reduced sheets and strip, tin mill black plate and tin plate .....					
Galvanized sheets .....					
Total cold rolled and coated ..					
Total carbon steel .....					
<u>Alloy steel</u>					
Ingots and semi-finished shapes:					
For re-rolling .....					
For forging and piercing .....					
Alloy plates .....					
Other hot rolled bars including structurals, high speed steel and other alloy tool steel .....					
Cold finished bars .....					
Wire rods .....					
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel .....					
Total alloy steel .....					

Note: Data on this table are being withheld pending settlement of strikes in this Industry.

(1) Total of all shipments and shipments for further processing items have been adjusted to include only shipments for sale, i.e. figures amended to exclude producers' interchange-own.

TABLE 10A. Production and Disposition of Shipments of Ingots and Rolled Steel Products

	Production	Imports	Total of all shipments(1)	Shipments for further processing(1)	Net shipments
			net tons of 2,000	pounds	
<u>Nine months ended September 1969</u>					
<u>Carbon steel</u>					
<u>Hot rolled</u>					
Ingots and semi-finished shapes:					
For re-rolling .....					
For forging and piercing .....					
Rails .....					
Wire rods .....					
Structural shapes:					
Heavy .....					
Bar-sized shapes .....					
Concrete reinforcing bars .....					
Other hot rolled bars:					
Flats .....					
Other .....					
Tie plates and track material:					
Angle bars .....					
Tie plates .....					
Track spikes .....					
Plates (including plates for pipes and tubes) .....					
Hot rolled sheets .....					
Hot rolled strip .....					
Total hot rolled products ...					
<u>Cold rolled and coated</u>					
Cold finished bars .....					
Cold reduced sheets and strip, tin mill black plate and tin plate .....					
Galvanized sheets .....					
Total cold rolled and coated ..					
Total carbon steel .....					
<u>Alloy steel</u>					
Ingots and semi-finished shapes:					
For re-rolling .....					
For forging and piercing .....					
Alloy plates .....					
Other hot rolled bars including structurals, high speed steel and other alloy tool steel .....					
Cold finished bars .....					
Wire rods .....					
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel .....					
Total alloy steel .....					

Note: Data on this table are being withheld pending settlement of strikes in this Industry.

(1) Total of all shipments and shipments for further processing items have been adjusted to include only shipments for sale, i.e. figures amended to exclude producers' interchange-own.

TABLE 11. Disposition of Net Shipments(1) of Rolled Steel Products

SDI No.		September 1969		Nine months ended September 1969	
		Carbon	Alloy	Carbon	Alloy
		net tons of 2,000 pounds			
4a	Wholesalers and warehouses - Steel service centres .....				
b	Other warehouses .....				
6	Automotive and aircraft industries				
7	Agricultural .....				
8a	Contractors - Building .....				
b	Construction - Public and utility ..				
c	Structural steel fabricators .....				
9	Containers .....	Note: Data on this table are being withheld pending settlement of strikes in this industry.			
10	Machinery and tools .....				
11	Wire, wire products and fasteners ..				
12	Natural resources and extractive industries .....				
13	Appliances and utensils .....				
14	Other metal stamping and pressing ..				
16	Railway operating .....				
17	Railroad cars and locomotives .....				
18	Shipbuilding .....				
19	Pipes and tubes .....				
20	Miscellaneous .....				
	Total domestic shipments .....				
5a	Export - For conversion and return .....				
b	Other export (for final sale)				
i	USA .....				
ii	Other countries .....				
	Total domestic and export shipments .....				
	Production, (for sale only) .....				
	Imports by producers (including conversion) .....				

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



TABLE 12. Disposition of Net Shipments(1) of Rolled Steel Products, by Product  
September 1969

SDI No.		Ingots and semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy	Bar- sized shapes		
					net tons of 2,000 pounds			
4a	Wholesalers and ware- houses - Steel service centres .....							
b	Other warehouses .....							
6	Automotive and aircraft industries .....							
7	Agriculture .....							
8a	Contractors - Building ...							
b	Construction - Public and utility .....							
c	Structural steel fabri- cators .....							
9	Containers .....							
10	Machinery and tools .....							
11	Wire, wire products and fasteners .....							
12	Natural resources and extractive industries ..							
13	Appliances and utensils ..							
14	Other metal stamping and pressing .....							
16	Railway operating .....							
17	Railroad cars and loco- motives .....							
18	Shipbuilding .....							
19	Pipes and tubes .....							
20	Miscellaneous .....							
	Total domestic shipments .....							
5a	Export - For conversion and return .....							
b	Other export (for final sale)							
i	USA .....							
ii	Other countries .....							
	Total domestic and exports shipments ..							
	Production (for sale only) .....							
	Imports by producers (in- cluding conversion) ....							

Note: Data on this table are being withheld  
pending settlement of strikes  
in this Industry.

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



TABLE 12. Disposition of Net Shipments(1) of Rolled Steel Products, by Product

September 1969

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								4a
								b
								6
								7
								8a
								b
								c
								9
								10
								11
								12
								13
								14
								16
								17
								18
								19
								20
								5a
								b
								i
								ii

Note: Data on this table are being withheld pending settlement of strikes in this Industry.

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

TABLE 12A. Disposition of Net Shipments(1) of Rolled Steel Products, by Product  
Nine months ended September 1969

SDI No.		Ingots and semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
					Heavy	Bar- sized shapes		
		net tons of 2,000 pounds						
4a	Wholesalers and ware- houses - Steel service centres .....							
b	Other warehouses .....							
6	Automotive and aircraft industries .....							
7	Agriculture .....							
8a	Contractors - Building ...							
b	Construction - Public and utility .....							
c	Structural steel fabri- cators .....							
9	Containers .....							
10	Machinery and tools .....							
11	Wire, wire products and fasteners .....							
12	Natural resources and extractive industries ..							
13	Appliances and utensils ..							
14	Other metal stamping and pressing .....							
16	Railway operating .....							
17	Railroad cars and loco- motives .....							
18	Shipbuilding .....							
19	Pipes and tubes .....							
20	Miscellaneous .....							
	Total domestic shipments .....							
5a	Export - For conversion and return .....							
b	Other export (for final sale)							
i	USA .....							
ii	Other countries .....							
	Total domestic and exports shipments ..							
	Production (for sale only) .....							
	Imports by producers (in- cluding conversion) ....							

Note: Data on this table are being withheld  
pending settlement of strikes  
in this Industry.

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

TABLE 12A. Disposition of Net Shipments(1) of Rolled Steel Products, by Product  
Nine months ended September 1969

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								
								4a
								b
								6
								7
								8a
								b
								c
								9
								10
								11
								12
								13
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								19
								20
								5a
								b
								i
								ii

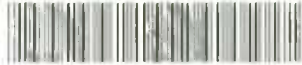
Note: Data on this table are being withheld  
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in this Industry.

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





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