

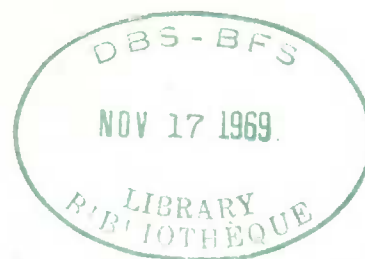
CATALOGUE No.

41-001

MONTHLY



Historical File Copy



# PRIMARY IRON AND STEEL

## AUGUST 1969

*Published by Authority of*  
The Minister of Industry, Trade and Commerce

**DOMINION BUREAU OF STATISTICS**  
Manufacturing and Primary Industries Division

November 1969  
6506-707

Price: 30 cents  
\$3.00 a year

Vol. 24—No. 8

### 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.

TABLE OF CONTENTS

Table	Page
1. Pig Iron Capacity, December 31, 1968 .....	5
2. Iron Blast Furnaces Charges .....	5
3. Production and Shipments of Pig Iron and Ferro-alloys, Current Month .....	6
3A. Production and Shipments of Pig Iron and Ferro-alloys, Cumulative .....	6
4. Steel Furnace Capacity, December 31, 1968 .....	6
5. Pig Iron and Scrap charged to Steel Furnaces .....	7
6. Production and Shipments of Steel Ingots and Castings, Current Month .....	7
6A. Production and Shipments of Steel Ingots and Castings, Cumulative .....	8
7. Disposition of Shipments of Steel Castings .....	8
8. Monthly Production of Pig Iron, Ferro-alloys and Steel Ingots and Castings	9
9. Production and Shipments of Steel Pipe, Tubing and Fittings, Current Month	10
9A. Production and Shipments of Steel Pipe, Tubing and Fittings, Cumulative ...	10
10. Production and Disposition of Shipments of Ingots and Rolled Steel Products, Current Month .....	11
10A. Production and Disposition of Shipments of Ingots and Rolled Steel Products, Cumulative .....	12
11. Disposition of Net Shipments of Rolled Steel Products, by SDI Number .....	13
12. Disposition of Net Shipments of Rolled Steel Products, by Product, Current Month .....	14
12A. Disposition of Net Shipments of Rolled Steel Products, by Product, Cumulative .....	16



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)

	August 1969	Eight months ended August 1969
	net tons of 2,000 pounds	
<u>Crude iron ore</u>		
From Canadian mines .....	13,544	228,304
From foreign mines .....	66,865	378,481
Pyrite cinder .....	(2)	(2)
<u>Iron ore (sintered, pelletized, etc.)</u>		
From Canadian mines .....	172,901	5,053,417
From foreign mines .....	88,409	1,343,262
From own processing .....	-	690,612
Mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.) .....	17,332	192,290
Scrap iron and steel .....	11,638	96,590
Limestone .....	28,299	497,188
Dolomite .....	35,474	310,599
Coke .....	136,549	2,843,314

(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>August</u>	net tons of 2,000 pounds			
<u>Pig iron</u>				
Basic .....	583,847	14,797	238,056	17,689
Foundry (including silvery pig) (2) .....	47,346	74,406	48,641	43,008
Malleable .....	42,315	21,943	-	8,446
Total pig iron .....	673,508	111,146	286,697	69,143
Ferro-alloys .....	12,087	15,750	16,564	10,968
Stocks of pig iron on hand at end of month ....	376,866		188,553	

(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>Eight months ended August</u>	net tons of 2,000 pounds			
<u>Pig iron</u>				
Basic .....	5,101,853	100,792	4,771,469	42,537
Foundry (including silvery pig) (2) .....	373,323	279,355	412,056	367,675
Malleable .....	193,898	125,401	245,063	133,526
Total pig iron .....	5,669,074	505,548	5,428,588	543,738
Ferro-alloys .....	107,469	114,172	132,277	136,809

(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

	August		Eight months ended August	
	1968	1969	1968	1969
	net tons of 2,000 pounds			
Pig iron .....	594,058	215,811	4,924,876	4,541,277
Scrap - Own make .....	263,177	100,184	2,168,311	2,138,985
Purchased .....	152,772	133,053	1,340,075	1,393,072
Total pig iron and scrap .....	1,010,007	449,048	8,433,262	8,073,334

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>August</u>				
<u>Steel ingots (both carbon and alloy)</u> <u>(including continuous cast steel)</u>				
Basic open hearth .....	769,864	9,433	272,844	21,661
Electric .....	114,460	24,351	113,053	20,103
Basic oxygen furnace .....	(2)	(2)	(2)	(2)
Total steel ingots .....	884,324	33,784	385,897	41,764
Continuous cast steel included in above .....	83,434 <sup>r</sup>	x	65,262	x
Alloy steel ingots included in above .....	68,980	x	21,729	x
<u>Steel castings (both carbon and alloy)</u>				
Basic open hearth .....	-	-	-	-
Electric .....	9,255	8,342	10,628	11,608
Basic oxygen furnace .....	-	-	-	-
Total steel castings .....	9,255	8,342	10,628	11,608
<u>Alloy steel castings included in above</u>				
High alloy, except manganese and abrasion resistant .....	323	193	555	280
Manganese and abrasion resistant .....	1,407	1,299	1,568	1,924
All other alloys .....	583	495	934	814
Total alloy castings .....	2,313	1,987	3,057	3,018

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".

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

	1968		1969	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
<u>Eight months ended August</u>	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy)</u> <u>(including continuous cast steel)</u>				
Basic open hearth .....	6,440,912	93,171	6,211,114	131,664
Electric .....	905,708	148,346	1,028,362	178,162
Basic oxygen furnace .....	(2)	(2)	(2)	(2)
Total steel ingots .....	7,346,620	241,517	7,239,476	309,826
Continuous cast steel included in above .....	679,639 <sup>r</sup>	x	818,205	x
Alloy steel ingots included in above .....	486,939	x	584,571	x
<u>Steel castings (both carbon and alloy)</u>				
Basic open hearth .....	(3)	(3)	-	-
Electric .....	90,484	87,129	102,130	100,970
Basic oxygen furnace .....	-	-	-	-
Total steel castings .....	90,484	87,129	102,130	100,970
<u>Alloy steel castings included in above</u>				
High alloy, except manganese and abrasion resistant .....	3,373	2,263	5,123	3,038
Manganese and abrasion resistant .....	14,220	14,963	15,491	16,863
All other alloys .....	4,527	4,529	7,139	6,836
Total alloy castings .....	22,120	21,755	27,753	26,737

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

	August 1969		Eight months ended August 1969	
	Carbon	Alloy	Carbon	Alloy
net tons of 2,000 pounds				
Wholesalers and warehouses .....	-	4	-	31
Export .....	861	252	9,154	2,349
Automotive and aircraft industries .....	600	-	4,335	-
Agricultural (including implement and equipment manufacturers) .....	104	26	739	243
Construction (including public works, public utilities and structural steel fabricators) ...	86	338	722	3,250
Machinery and tools .....	1,564	867	13,671	8,122
Natural resources and extractive industries (including mining, lumbering, quarrying, oil and gas, including refineries, etc.) .....	528	949	5,537	7,101
Railway operating .....	2,826	97	25,627	1,913
Railroad cars and locomotives .....	1,833	220	12,510	1,271
Shipbuilding .....	10	11	209	80
Miscellaneous (including grinding balls and railway car wheels) .....	178	254	1,729	2,377
Totals .....	8,590	3,018	74,233	26,737

(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		
			Ingots	Castings	Total steel
			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 .....	728,891	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 .....					
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>August</u>				
<u>Pipe and tubing, welded and seamless</u>				
4 1/2" outside diameter and under (excluding tubing and casing) .....	25,079	24,152	19,684	24,868
Over 4 1/2" outside diameter (excluding tubing and casing) .....	39,638	43,839	28,354	29,461
Mechanical and pressure tubing, casing and oil well tubing .....	15,224	17,169	18,239	18,862
Totals .....	79,941	85,160	66,277	73,191
<u>Steel pipe fittings</u>				
Buttwelding fittings .....	160	207	73	106
Nipples .....	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings ...	497	629	469	558
Totals .....	657	836	542	664

(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>Eight months ended August</u>				
<u>Pipe and tubing, welded and seamless</u>				
4 1/2" outside diameter and under (excluding tubing and casing) .....	177,549	170,415	195,049	194,647
Over 4 1/2" outside diameter (excluding tubing and casing) .....	458,223	455,948	370,130	385,773
Mechanical and pressure tubing, casing and oil well tubing .....	140,560	141,436	160,288	163,070
Totals .....	776,332	767,799	725,467	743,490
<u>Steel pipe fittings</u>				
Buttwelding fittings .....	1,036	1,249	747	833
Nipples .....	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings ...	3,384	4,072	4,633	4,963
Totals .....	4,420	5,321	5,380	5,796

(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>August 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 .....					
<hr/>					
Total hot rolled products ...					
<hr/>					
<u>Cold rolled and coated</u>					
Cold finished bars .....					
Cold reduced sheets and strip, tin mill black plate and tin plate .....					
Galvanized sheets .....					
<hr/>					
Total cold rolled and coated ..					
<hr/>					
Total carbon steel .....					
<hr/>					
<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 .....					
<hr/>					
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>Eight months ended August 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.		August 1969		Eight months ended August 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 .....				
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) .....				

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  
August 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  
August 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  
Eight months ended August 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  
Eight months ended August 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.





STATISTICS CANADA LIBRARY  
BIBLIOTHEQUE STATISTIQUE CANADA



1010683520