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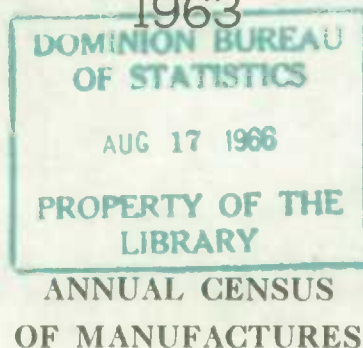
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ANNUAL



# IRON AND STEEL MILLS

1963



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M — Monthly

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## IRON AND STEEL MILLS

1963

Data presented in this report under the heading of Iron and Steel Mills reflect implementation of the revised Standard Industrial Classification (S.I.C.) and the New Establishment Concept which are being used by the Dominion Bureau of Statistics in its compilations of industry statistics—see items "Standard Industrial Classification" and "Establishment" in the Explanatory Notes section of this report.

For statistical purposes the industry titled Iron and Steel Mills in the revised Standard Industrial Classification covers four main types of establishments:

- (1) Establishments primarily engaged in manufacturing pig iron and ferro-alloys.
- (2) Steel plants primarily engaged in manufacturing ingots and steel castings and continuous casting of steel.
- (3) Rolling mills primarily engaged in hot and cold rolling of steel into primary shapes.
- (4) Coke ovens operated in connection with blast furnaces. In some instances, the blast furnace, steel mill, rolling mill and coke oven or some combination of two or more of them are carried on as one integrated operation and the manufacturing processes may be carried on beyond the rolling mill stage.

### 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.
- ° preliminary figures.
- ˆ revised figures.
- x confidential to meet secrecy requirements of the Statistics Act.

TABLE 1 A. Principal Statistics classified by Province, 1962 and 1963

Year and province	Estab-lish-ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1961													
Totals	41	28,408	59,336	152,529	29,670	351,055	774,748	397,331	-	-	34,749	193,712	405,187
1962													
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	2	5,072	10,794	25,372	5,760	52,696	108,548	51,324	-	-	6,208	31,688	51,803
New Brunswick	-												
Quebec	10												
Ontario	18	23,395	49,111	132,136	23,982	319,544	713,517	376,451	-	-	28,475	167,635	382,110
Manitoba	2	1,147	2,416	5,396	1,089	9,212	21,761	11,653	-	-	1,312	6,475	11,572
Saskatchewan	-												
Alberta	3												
British Columbia	6	487	998	2,651	807	10,414	16,927	6,073	-	-	598	3,373	6,064
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	41	30,101	63,319	165,556	31,639	391,866	860,755	445,501	-	-	36,593	209,171	451,549
1963													
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	2	x	x	x	x	x	x	x	-	-	x	x	x
New Brunswick	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec	10	2,398	5,348	12,090	3,854	25,861	58,594	29,843	-	-	2,935	15,305	30,066
Ontario	17	24,609	51,466	142,695	26,801	356,498	801,310	424,807	-	-	30,146	181,628	430,704
Manitoba	2	x	x	x	x	x	x	x	-	-	x	x	x
Saskatchewan	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta	2	x	x	x	x	x	x	x	-	-	x	x	x
British Columbia	6	555	1,215	3,125	843	10,215	19,274	7,735	-	-	732	4,205	7,842
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	39	31,112	66,924	180,359	35,082	436,597	963,206	499,303	-	-	38,196	228,217	505,747



TABLE 1 B. Principal Statistics classified by Size Groups based on Shipments of Goods of Own Manufacture, 1962 and 1963

Size group	Estab- lish- ments	Manufacturing activity							Total activity					
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added	
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages		
	No.		'000			\$'000				\$'000		\$'000		
1962														
Under \$10,000 .....	—	—	—	—	—	—	—	—	—	—	—	—	—	
\$ 10,000 to \$ 24,999 .....	—	—	—	—	—	—	—	—	—	—	—	—	—	
25,000 " 49,999 .....	—	—	—	—	—	—	—	—	—	—	—	—	—	
50,000 " 99,999 .....	—	—	—	—	—	—	—	—	—	—	—	—	—	
100,000 " 199,999 .....	3	79	164	351	53	207	826	561	—	—	91	448	563	
200,000 " 499,999 .....		5	273	582	1,219	196	1,172	3,646	2,299	—	—	359	1,613	2,284
500,000 " 999,999 .....		14	1,508	3,231	6,606	1,732	11,836	30,028	16,766	—	—	1,875	8,677	16,916
1,000,000 " 4,999,999 .....		19	28,241	59,342	157,380	29,659	378,649	826,254	425,875	—	—	34,198	197,954	431,806
5,000,000 and over .....	19	28,241	59,342	157,380	29,659	378,649	826,254	425,875	—	—	34,198	197,954	431,806	
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	70	478	(19)	
Totals .....	41	30,101	63,319	165,556	31,639	391,866	860,755	445,501	—	—	36,593	209,171	451,549	
1963														
Under \$10,000 .....	—	—	—	—	—	—	—	—	—	—	—	—	—	
\$ 10,000 to \$ 24,999 .....	—	—	—	—	—	—	—	—	—	—	—	—	—	
25,000 " 49,999 .....	—	—	—	—	—	—	—	—	—	—	—	—	—	
50,000 " 99,999 .....	—	—	—	—	—	—	—	—	—	—	—	—	—	
100,000 " 199,999 .....	5	165	343	783	136	715	2,666	1,466	—	—	206	1,090	1,585	
200,000 " 499,999 .....		14	1,584	3,433	7,029	1,017	9,638	28,293	17,621	—	—	1,993	9,413	17,800
500,000 " 999,999 .....		20	29,363	63,148	172,546	33,929	426,244	932,247	480,216	—	—	35,927	217,212	486,383
1,000,000 " 4,999,999 .....		20	29,363	63,148	172,546	33,929	426,244	932,247	480,216	—	—	35,927	217,212	486,383
5,000,000 and over .....	20	29,363	63,148	172,546	33,929	426,244	932,247	480,216	—	—	35,927	217,212	486,383	
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	70	501	(21)	
Totals .....	39	31,112	66,924	180,359	35,082	436,597	963,206	499,303	—	—	38,196	228,217	505,747	

TABLE 1 C. Principal Statistics classified by Size Groups based on Manufacturing Value Added, 1962 and 1963

Size group	Estab- lish- ments	Manufacturing activity							Total activity					
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added	
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages		
	No.		'000			\$'000				\$'000		\$'000		
1962														
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	-	
\$ 10,000 to \$ 24,999	-	-	-	-	-	-	-	-	-	-	-	-	-	
25,000 "	-	-	-	-	-	-	-	-	-	-	-	-	-	
50,000 "	-	-	-	-	-	-	-	-	-	-	-	-	-	
100,000 "	8	348	747	1,643	445	1,991	4,805	2,544	-	-	458	2,239	2,670	
200,000 "		738	1,625	3,330	774	7,907	14,987	6,327	-	-	880	4,140	6,426	
500,000 "		999,999	2,328	4,915	10,944	3,421	37,267	74,338	34,337	-	-	2,909	14,406	34,358
1,000,000 "		4,999,999	26,687	56,032	149,639	27,000	344,701	766,625	402,293	-	-	32,276	187,908	408,115
5,000,000 and over	10	26,687	56,032	149,639	27,000	344,701	766,625	402,293	-	-	32,276	187,908	408,115	
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	70	478	(19)	
Totals	41	30,101	63,319	165,556	31,639	391,866	860,755	445,501	-	-	36,593	209,171	451,549	
1963														
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	-	
\$ 10,000 to \$ 24,999	-	-	-	-	-	-	-	-	-	-	-	-	-	
25,000 "	-	-	-	-	-	-	-	-	-	-	-	-	-	
50,000 "	-	-	-	-	-	-	-	-	-	-	-	-	-	
100,000 "	5	165	343	783	136	714	2,666	1,466	-	-	206	1,090	1,585	
200,000 "		465	1,113	2,161	409	2,772	8,363	4,832	-	-	589	2,842	4,898	
500,000 "		999,999	2,841	6,005	13,915	4,207	49,126	92,390	40,006	-	-	3,598	18,635	40,082
1,000,000 "		4,999,999	27,641	59,463	163,500	30,330	383,984	859,787	452,999	-	-	33,733	205,149	459,208
5,000,000 and over	10	27,641	59,463	163,500	30,330	383,984	859,787	452,999	-	-	33,733	205,149	459,208	
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	70	501	(21)	
Totals	39	31,112	66,924	180,359	35,082	436,597	963,206	499,303	-	-	38,196	228,217	505,747	

TABLE 1 D. Principal Statistics classified by Size Groups based on Total Value Added, 1962 and 1963

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000							'000		'000	
<b>1962</b>													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	-
\$ 10,000 to \$ 24,999	-	-	-	-	-	-	-	-	-	-	-	-	-
25,000 "	-	-	-	-	-	-	-	-	-	-	-	-	-
50,000 "	-	-	-	-	-	-	-	-	-	-	-	-	-
100,000 "	8	348	747	1,643	445	1,991	4,805	2,544	-	-	458	2,239	2,670
200,000 "	8	738	1,625	3,330	774	7,907	14,987	6,327	-	-	880	4,140	6,426
500,000 "	15	2,328	4,915	10,944	3,421	37,267	74,338	34,337	-	-	2,909	14,406	34,358
1,000,000 "	10	26,687	56,032	149,639	27,000	344,701	766,625	402,293	-	-	32,276	187,908	408,115
5,000,000 and over	10	26,687	56,032	149,639	27,000	344,701	766,625	402,293	-	-	32,276	187,908	408,115
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	70	478	(19)
<b>Totals</b>	<b>41</b>	<b>30,101</b>	<b>63,319</b>	<b>165,556</b>	<b>31,639</b>	<b>391,866</b>	<b>860,755</b>	<b>445,501</b>	<b>-</b>	<b>-</b>	<b>36,593</b>	<b>209,171</b>	<b>451,549</b>
<b>1963</b>													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	-
\$ 10,000 to \$ 24,999	-	-	-	-	-	-	-	-	-	-	-	-	-
25,000 "	-	-	-	-	-	-	-	-	-	-	-	-	-
50,000 "	-	-	-	-	-	-	-	-	-	-	-	-	-
100,000 "	5	165	343	783	136	714	2,666	1,466	-	-	206	1,090	1,585
200,000 "	6	465	1,113	2,161	409	2,772	8,363	4,832	-	-	589	2,842	4,898
500,000 "	18	2,841	6,005	13,915	4,207	49,126	92,390	40,006	-	-	3,598	18,635	40,082
1,000,000 "	10	27,641	59,463	163,500	30,330	383,984	859,787	452,999	-	-	33,733	205,149	459,203
5,000,000 and over	10	27,641	59,463	163,500	30,330	383,984	859,787	452,999	-	-	33,733	205,149	459,203
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	70	501	(21)
<b>Totals</b>	<b>39</b>	<b>31,112</b>	<b>66,924</b>	<b>180,359</b>	<b>35,082</b>	<b>436,597</b>	<b>963,206</b>	<b>499,303</b>	<b>-</b>	<b>-</b>	<b>38,196</b>	<b>228,217</b>	<b>505,747</b>

TABLE 1 E. Principal Statistics classified by Size Groups based on Total Employed, 1962 and 1963

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000							'000		'000	
<b>1962</b>													
Under 5 employed	3	69	150	298	63	386	1,004	577	-	-	76	347	570
5- 14 employed	9	455	1,009	2,283	591	5,379	11,451	5,657	-	-	604	3,199	5,825
15- 49 "	12	1,277	2,763	5,886	1,506	22,841	38,892	13,745	-	-	1,598	7,648	13,742
50- 99 "	8	2,031	4,359	10,227	3,002	29,323	59,364	28,264	-	-	2,427	12,664	28,331
100-199 "	9	26,269	55,038	146,862	26,477	333,936	750,044	397,258	-	-	31,818	184,834	403,100
200-499 "	9	26,269	55,038	146,862	26,477	333,936	750,044	397,258	-	-	31,818	184,834	403,100
500 employed and over	9	26,269	55,038	146,862	26,477	333,936	750,044	397,258	-	-	31,818	184,834	403,100
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	70	478	(19)
<b>Totals</b>	<b>41</b>	<b>30,101</b>	<b>63,319</b>	<b>165,556</b>	<b>31,639</b>	<b>391,866</b>	<b>860,755</b>	<b>445,501</b>	<b>-</b>	<b>-</b>	<b>36,593</b>	<b>209,171</b>	<b>451,549</b>
<b>1963</b>													
Under 5 employed	-	-	-	-	-	-	-	-	-	-	-	-	-
5- 14 employed	3	74	147	339	81	453	1,469	624	-	-	97	508	744
15- 49 "	6	326	704	1,598	281	4,878	9,578	4,344	-	-	421	2,209	4,395
50- 99 "	12	1,252	2,801	6,229	1,602	25,980	46,377	18,378	-	-	1,582	8,171	18,454
100-199 "	9	2,244	4,914	11,727	3,358	31,170	62,678	29,722	-	-	2,741	14,871	29,725
200-499 "	9	27,216	58,358	160,467	29,760	374,116	843,105	446,235	-	-	33,285	201,957	452,450
500 employed and over	9	27,216	58,358	160,467	29,760	374,116	843,105	446,235	-	-	33,285	201,957	452,450
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	70	501	(21)
<b>Totals</b>	<b>39</b>	<b>31,112</b>	<b>66,924</b>	<b>180,359</b>	<b>35,082</b>	<b>436,597</b>	<b>963,206</b>	<b>499,303</b>	<b>-</b>	<b>-</b>	<b>38,196</b>	<b>228,217</b>	<b>505,747</b>

TABLE 1F. Principal Statistics classified by Type of Organization, 1962 and 1963

Type of organization	Establishments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000			'000				'000		'000	
1962													
Individual ownerships .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Partnerships .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Incorporated companies .....	41	30,101	63,319	165,556	31,639	391,866	860,755	445,501	...	...	36,523	208,693	451,569
Cooperatives .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	70	478	(19)
Totals .....	41	30,101	63,319	165,556	31,639	391,866	860,755	445,501	—	—	36,593	209,171	451,549
1963													
Individual ownerships .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Partnerships .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Incorporated companies .....	39	31,112	66,924	180,359	35,082	436,597	963,206	499,303	...	...	38,126	227,716	505,768
Cooperatives .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	70	501	(21)
Totals .....	39	31,112	66,924	180,359	35,082	436,597	963,206	499,303	—	—	38,196	228,217	505,747

TABLE 2. Industry Output, Input and Value Added, 1962 and 1963

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1962	1963	1962	1963	1962	1963
	\$'000					
Output						
1. Shipments and other revenue .....	860,755	963,206	15,652	18,575	876,407	981,781
Inventories—Goods of own manufacture:						
Add closing—Goods in process .....	38,517	43,457	...	...	38,517	43,457
Finished goods .....	40,248	43,570	...	...	40,248	43,570
Less opening—Goods in process .....	33,178	39,571	...	...	33,178	39,571
Finished goods .....	37,335	39,680	...	...	37,335	39,680
2. Net inventory change .....	8,252	7,776	...	...	8,252	7,776
3. Gross output (1 + 2) .....	869,007	970,982	15,652	18,575	884,659	989,557
Input						
4. Purchases of goods not of own manufacture .....	...	...	7,458	9,657	7,458	9,657
Inventories—Goods not of own manufacture:						
Add opening .....	...	...	570	711	570	711
Less closing .....	...	...	605	1,033	605	1,033
5. Cost of goods sold (not of own manufacture) .....	...	...	7,423	9,335	7,423	9,335
6. Materials, supplies, components and semi-processed goods	391,866	436,597	2,180	2,795	394,046	439,392
7. Fuel and electricity .....	31,639	35,082	...	...	31,639	35,082
8. Gross input (5 + 6 + 7) .....	423,505	471,679	9,603	12,130	433,108	483,809
Census value added (3 - 8) .....	445,501	499,303	6,049	6,445	451,549	505,747



TABLE 3. Employment and Payroll, 1962 and 1963

Year and province	Employees										Salaries and wages				
	Production and related workers				Adminis- trative and office		Sales and distribution		Total employees		Production and related workers		Admin- istra- tive and office	Sales and distri- bution	Total salaries and wages
	Manufacturing		Other								Manufacturing	Other			
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female					
	number										\$'000				
1962															
Newfoundland .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia .....	5,063	9	22	-	964	115	29	6	6,078	130	25,372	108	5,998	210	31,688
New Brunswick .....															
Quebec .....	23,206	189	418	8	3,486	759	288	121	27,398	1,077	132,136	2,711	30,214	2,573	167,635
Manitoba .....	1,147	-	3	-	127	26	8	1	1,285	27	5,396	10	990	79	6,475
Saskatchewan .....															
Alberta .....	487	-	-	-	93	12	6	-	586	12	2,652	-	683	38	3,373
British Columbia .....															
Yukon and Northwest Terri- tories .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals .....	29,903	198	443	8	4,670	912	331	128	35,347	1,246	165,556	2,829	37,884	2,901	209,171
1963															
Newfoundland .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia .....	x	-	x	-	x	x	x	x	x	x	x	x	x	x	x
New Brunswick .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec .....	2,394	4	-	-	455	50	27	5	2,876	59	12,090	-	3,033	183	15,305
Ontario .....	24,413	196	587	9	3,726	779	313	123	29,039	1,107	142,695	4,202	32,205	2,526	181,628
Manitoba .....	x	-	x	-	x	x	-	-	x	x	x	x	x	-	x
Saskatchewan .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta .....	x	-	-	-	x	x	x	x	x	x	x	-	x	x	x
British Columbia .....	555	-	-	-	134	19	20	4	709	23	3,125	-	931	150	4,205
Yukon and Northwest Terri- tories .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals .....	30,912	200	605	9	5,003	952	376	139	36,896	1,300	180,359	4,293	40,564	3,001	228,217

TABLE 3A. Production and Related Workers, - Manufacturing Activity, by Months, 1962 and 1963

Month	Establishments reporting monthly detail			
	1962		1963	
	Male	Female	Male	Female
	number			
January .....	27,506	195	29,484	191
February .....	28,125	189	29,793	190
March .....	28,592	190	29,635	192
April .....	29,261	184	30,638	199
May .....	30,329	197	31,146	199
June .....	30,913	199	31,257	205
July .....	31,179	207	31,602	210
August .....	31,504	218	31,625	216
September .....	31,327	218	31,733	222
October .....	30,339	213	31,432	217
November .....	30,136	180	31,158	213
December .....	29,591	188	31,398	215
Average for establishments reporting monthly detail (collected only for large establishments) ..	29,903	198	30,912	200
Average for small establishments (only annual averages collected) .....	...	...	...	...
Average for all establishments .....	29,903	198	30,912	200

TABLE 4. Industry Inventories, 1963

Province	Manufacturing				Non-manufacturing	Total inventories
	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total manufacturing	Products or materials purchased for resale	
book value \$'000						
Opening:						
Newfoundland .....	—	—	—	—	—	—
Prince Edward Island .....	—	—	—	—	—	—
Nova Scotia .....	x	x	x	x	x	x
New Brunswick .....	—	—	—	—	x	—
Quebec .....	5,628	3,397	2,565	11,590	79	11,669
Ontario .....	79,523	32,901	33,261	145,685	544	146,229
Manitoba .....	x	x	x	x	—	x
Saskatchewan .....	—	—	—	—	—	—
Alberta .....	x	x	x	x	—	x
British Columbia .....	1,283	93	1,530	2,906	85	2,990
Yukon and Northwest Territories .....	—	—	—	—	—	—
Totals .....	101,667	39,572	39,680	180,918	711	181,629
Closing:						
Newfoundland .....	—	—	—	—	—	—
Prince Edward Island .....	—	—	—	—	—	—
Nova Scotia .....	x	x	x	x	x	x
New Brunswick .....	—	—	—	—	—	—
Quebec .....	5,146	3,705	3,221	12,073	82	12,154
Ontario .....	89,886	36,481	36,477	162,843	871	163,714
Manitoba .....	x	x	x	x	—	x
Saskatchewan .....	—	—	—	—	—	—
Alberta .....	x	x	x	x	—	x
British Columbia .....	1,157	171	970	2,298	77	2,375
Yukon and Northwest Territories .....	—	—	—	—	—	—
Totals .....	114,247	43,457	43,570	201,274	1,033	202,307

TABLE 5. Purchased Fuel and Electricity Used in Manufacturing Activity, 1962 and 1963

Description	1962		1963	
	Quantity	Cost \$'000	Quantity	Cost \$'000
1. Large establishments which reported commodity detail:				
Bituminous coal:				
(a) From Canadian mines .....	ton 36,664	347	62,851	545
(b) Imported .....	" 54,324	576	72,061	769
Sub-bituminous coal (from Alberta mines only) .....	" —	—	—	—
Anthracite coal .....	" —	—	—	—
Lignite coal .....	" —	—	—	—
Coke .....	" 5,274	99	438	10
Gasoline (including gasoline used in cars and trucks) .....	Imp. gal. 889,970	237	968,176	241
Fuel oil including kerosene or coal oil .....	" 144,798,787	11,994	167,350,470	14,017
Wood .....	cord 202	2	187	2
Gas:				
(a) Liquefied petroleum gases .....	Imp. gal. 204,142	42	782,295	102
(b) Other manufactured gas .....	M cu.ft. —	—	—	—
(c) Natural gas .....	" 7,195,594	3,575	8,747,570	4,045
Other fuel .....	... ..	287	...	287
Electricity purchased .....	kwh. 2,758,613,515	14,481	2,876,939,403	15,063
Steam purchased .....	—	—	—	—
2. Estimate for small establishments:				
Fuel and electricity .....	—	—	—	—
3. All establishments:				
Total fuel and electricity used .....	...	31,639	...	35,082

TABLE 6. Materials and Supplies - Manufacturing Activity, 1962 and 1963

Description		1962		1963	
		Quantity	Cost \$'000	Quantity	Cost \$'000
1. Materials used:					
Coke, gas and by-products section					
Bituminous coal carbonized in ovens or retorts:					
From Canadian mines	ton	400,613	4,340	478,469	5,033
Imported	"	4,538,280	51,142	4,716,113	53,227
Absorbing and wash oil	Imp. gal.	394,382	88	241,779	63
Caustic soda	lb.	2,487,740	68	1,908,737	56
Sodium nitrate	"	130,408	5	169,098	7
Sulphur	ton	1,184	30	1,193	37
Sulphuric acid, 100%:					
Purchased	"	18,358	348	16,061	312
Own make	"	2,649	...	2,342	...
Sinter plant and blast furnace section					
Sinter plant:					
Crude iron ore:					
From Canadian mines	"	464,897	5,109	578,185	5,838
Imported	"	1,071,069	11,355	823,571	8,662
Pyrite cinder	"	15,574	79	21,976	120
Mill cinder, scale, fluedust, etc. (not sintered, pelletized, etc.):					
Purchased	"	1,219	13	6,819	67
Own make	"	410,424	...	476,778	...
Scrap iron and steel (own make)	"	16,079	...	36,222	...
Limestone (including fines)	"	73,208	265	69,300	251
Dolomite (including fines)	"	149,967	234	99,343	150
Coke (including breeze):					
Purchased	"	14,816	131	13,498	151
Own make	"	91,939	...	72,950	...
Blast furnace:					
Crude iron ore:					
From Canadian mines	"	915,080	8,549	710,024	6,509
Imported	"	1,815,257	19,491	1,776,952	19,401
Iron ore (sintered, pelletized, etc.):					
From Canadian mines	"	1,482,514	18,412	2,073,137	26,602
Imported	"	2,419,695	34,104	3,050,640	43,530
From own processing (does not include mine sinter plant)	"	1,878,610	...	1,747,067	...
Mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.):					
Purchased	"	29,829	384	44,775	368
Own make	"	187,009	...	140,142	...
Scrap iron and steel:					
Purchased	"	79,895	736	48,386	416
Own make	"	14,065	...	29,643	...
Limestone:					
From Canadian quarries	"	386,303	967	427,784	1,069
Imported	"	331,694	568	333,748	590
Dolomite	"	396,863	711	428,044	761
Coke:					
Purchased	"	110,176	2,404	137,433	2,934
Own make	"	3,269,124	...	3,441,933	...
Firebrick, fireclay and other refractories, n.e.s.	"	...	488	...	583
Steel ingots and steel castings					
Pig iron:					
Purchased	ton	16,444	788	13,479	657
Own make	"	4,545,508	...	5,169,191	...
Scrap iron and steel:					
Purchased	"	1,297,784	43,865	1,559,920	45,883
Own make	"	1,891,994	...	2,166,518	...
Sinter:					
Purchased	"	16,794	238	-	-
Coke (charged to furnace; not for fuel):					
Purchased	"	1,363	31	941	23
Own make	"	1,346	...	1,171	...
Ferromanganese:					
High carbon (over 3 per cent carbon)	"	43,727	7,620	52,387	8,572
Medium carbon	"	4,607	1,441	5,117	1,473
Low carbon (maximum 0.75 per cent carbon)	"	428	209	389	197
Silico manganese	"	9,279	1,995	10,392	2,124
Ferro-silicon:					
Low silicon grade (under 45 per cent silicon)	"	44	4	65	6
Medium silicon grade	"	11,222	1,652	12,587	1,877
High silicon grade (over 55 per cent silicon)	"	1,691	461	2,009	541
Si-X	"	54	15	62	17
Ferrochrome (including chrom-X):					
High carbon	"	2,353	816	2,630	870
Low carbon (maximum 2 per cent carbon)	"	6,114	2,724	5,752	2,146
Ferromolybdenum	"	305	717	351	710
Ferrophosphorus	"	336	39	320	43
Ferroselenium	"	3	27	4	30
Ferrotitanium	"	123	79	90	96
Ferrotungsten	"	57	122	54	145
Ferrovandium	"	220	747	229	813
Ferrozirconium	"	58	27	65	30
Calcium silicon	"	374	173	476	235
Calcium manganese silicon	"	137	78	102	61



TABLE 6. Materials and Supplies - Manufacturing Activity, 1962 and 1963 - Concluded

Description		1962		1963	
		Quantity	Cost	Quantity	Cost
			\$'000		\$'000
1. Materials used - Concluded:					
Steel ingots and steel castings section - Concluded					
Other ferro-alloys .....	ton	2,050	710	2,361	873
Iron ore, crude .....	"	106,580	1,765	197,547	3,137
Iron ore, calcined, roasted or treated .....	"	254,057	4,152	216,211	3,575
Chrome ore .....	"	547	41	367	25
Tungsten ore .....	"	185	201	180	159
Aluminium ingots, shot, etc. ....	"	2,291	1,160	2,716	1,370
Copper ingots, cakes, shot, etc. ....	"	240	140	188	109
Nickel ingots, cathodes, shot, etc. ....	"	2,534	4,211	2,842	4,690
Other metals .....	"	180	243	1,209	279
Charcoal .....	"	85	8	69	6
Bentonite .....	"	4,352	184	4,706	194
Dolomite:					
Raw, crushed .....	"	113,593	295	135,739	354
Calcined .....	"	90,269	2,316	100,415	2,565
Fluorspar .....	"	33,824	1,179	41,822	1,319
Ganister .....	"	2,093	33	364	6
Graphite .....	"	972	58	1,330	81
Lime .....	"	194,899	3,107	208,253	3,262
Limestone .....	"	180,208	553	200,260	498
Linseed oil .....	Imp. gal.	12,316	13	14,594	20
Magnesite .....	ton	15,049	1,006	13,446	954
Electrodes .....	"	...	2,185	...	2,216
Silica sand:					
For moulds .....	ton	85,512	724	89,861	760
Other foundry sands .....	"	3,863	93	6,393	183
Sulphur .....	"	165	25	214	30
Firebrick, fireclay and other refractories, n.e.s. ....	"	...	13,865	...	14,749
Molybdenum trioxide (molybdc oxide) briquettes .....	ton	564	1,219	565	1,454
Ingot moulds (including hot tops) and stools .....	"	...	9,121	...	11,105
Rolled steel products section					
Steel ingots:					
Purchased .....	ton	84,281	5,634	108,506	6,932
Own make .....	"	6,690,555	...	7,652,045	...
Steel billets and slabs .....	"	93,675	9,251	89,837	8,224
Steel bars .....	"	40,961	6,344	51,699	8,004
Wire rods .....	"	2,684	394	3,258	477
Rails, old (include reject rails) .....	"	62,673	3,307	84,767	4,302
Steel sheet and strip .....	"	34,688	4,771	42,084	7,070
Scrap iron and steel incl. old axles .....	"	3,179	160	6,833	302
Tin .....	"	2,864	6,165	2,717	6,663
Zinc spelter .....	"	23,851	5,536	25,744	6,273
Acids:					
Chromic .....	lb.	249,400	70	302,900	86
Hydrochloric (muriatic) .....	"	801,190	67	1,051,932	72
Sulphuric, 100% .....	ton	37,223	860	40,993	901
Cleaners (Pennsalt, etc.) .....	"	...	285	...	321
Inhibitors (Rodine, etc.) .....	"	...	11	...	6
Phenone .....	lb.	69,350	76	36,374	93
Rolling oils .....	"	...	1,121	...	1,341
Zinc ammonium chloride .....	ton	103	28	203	54
Firebrick, fireclay and other refractories, n.e.s. ....	"	...	627	...	906
Rolls and dies .....	"	...	6,723	...	7,624
Silica sand .....	ton	...	...	589	5
Ferro-alloys section					
Coal:					
Anthracite .....	ton	17,704	272	16,768	275
Bituminous .....	"	31,500	519	36,131	594
Coke:					
Petroleum .....	"	32,969	602	25,806	447
Other .....	"	45,171	650	46,049	628
Dolomite .....	"	5,410	17	5,434	16
Electrodes .....	"	...	922	...	973
Firebrick, fireclay and other refractories, n.e.s. ....	"	...	132	...	89
Lime .....	ton	5,536	71	4,320	61
Limestone .....	"	2,075	10	4,309	17
Linseed oil .....	Imp. gal.	13,024	27	9,000	19
Magnesite .....	ton	271	23	142	13
Millscale .....	"	1,249	12	17	...
Pitch .....	"	7,979	364	8,428	386
Quartzite .....	"	47,595	368	97,588	752
Silica sand .....	"	3,291	34	2,515	27
Steel scrap (borings, turnings, etc.) .....	"	31,508	560	36,434	644
Woodchips .....	"	30,424	243	34,573	279
All other materials and components used .....	"	...	11,041	...	12,150
2. Containers and other packaging materials and supplies used .....					
		...	4,313	...	4,390
3. Operating, maintenance and repair supplies used (excluding fuel) .....					
		...	44,559	...	50,898
4. Amount paid out to others for work done on materials owned by establishments .....					
		...	3,164	...	7,039
<b>Totals</b> .....		...	<b>391,866</b>	...	<b>436,597</b>



**TABLE 7. Shipments of Selected Goods of Own Manufacture — All Industries, 1962 and 1963**  
(Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed)

Product	Total tonnage made	Factory sales	
		Tonnage sold in Canada or for export	Income from tonnage sold
	net tons		\$'000
<b>1962</b>			
<b>A. Hot-rolled products</b>			
Semi-finished rolled forms:			
All semi-finished forms intended for further rolling, including blooms, billets, slabs and sheet bars:			
For sale in Canada .....		219,241	18,405
For export .....	117,017	113,122	7,792
Blooms, billets and axle blanks for forging purposes only, whether for own use or for sale to others			
Including export .....	192,706	181,545	21,832
Rounds or billets for seamless tubes including export .....			
<b>Total semi-finished rolled forms .....</b>	<b>309,723</b>	<b>513,908</b>	<b>48,029</b>
Rails .....	233,067	225,683	25,404
Wire rods, No. 5 gauge to 47/64 inch in diameter (excluding straight lengths over 5/16 inch in diameter) ....	356,262	354,412	46,010
Structural steel shapes:			
Heavy, including sheet piling, beams, angles, channels, tees, zeos, etc., having one leg or web of 3" and over, and a thickness of 1/8" and over .....	370,306	361,060	44,851
Light, including light shapes, angles, channels, etc., having a section smaller than that provided under previous item .....	92,136	89,249	11,808
<b>Total structural steel shapes .....</b>	<b>462,442</b>	<b>450,309</b>	<b>56,659</b>
Bars:			
Bars, hot-rolled, of all grades and of all sections, including bolt, nut, rivet, spike, chain, horseshoe and other miscellaneous bars but omitting all bars reported immediately below .....	528,760	652,002	70,825
Bars for concrete reinforcing, including twisted and other deformed bars .....	412,661	385,752	44,936
Long angle splice bars, tie plate bars and all other long rail joint bars .....	65,603	386	54
<b>Total hot-rolled bars .....</b>	<b>1,007,024</b>	<b>838,140</b>	<b>115,815</b>
Plates (excluding plate for pipes and tubes) .....	489,363	491,533	61,815
Skelp <sup>1</sup> hot and cold-rolled plate, sheets, strip and bars for pipes and tubes) .....	413,478	357,017	41,333
Other hot-rolled sheets and strip including material for further cold reduction and all other hot-rolled forms	2,216,797	591,221	71,015
<b>B. Cold-rolled and coated products<sup>1</sup></b>			
Bars, cold-rolled and cold-drawn .....	49,544	50,210	15,670
Cold-rolled strip .....	57,227	57,961	17,235
Other cold-rolled and coated products, including cold-reduced sheets, black plate for tinning and other black plate, galvanized sheets and strip, tin plate, silicon sheet and strip, but excluding cold-rolled skelp .....	1,754,721	942,768	154,143
<b>C. Other products</b>			
Rail fastenings:			
Rail joints, including splice bars and fish plates .....	10,613	10,624	1,586
Tie plates .....	53,765	54,554	7,238
<b>1963</b>			
<b>A. Hot-rolled products</b>			
Semi-finished rolled forms:			
All semi-finished forms intended for further rolling, including blooms, billets, slabs and sheet bars:			
For sale in Canada .....		206,739	19,187
For export .....	111,364	105,110	7,413
Blooms, billets and axle blanks for forging purposes only, whether for own use or for sale to others			
Including export .....	203,048	185,899	22,231
Rounds or billets for seamless tubes including export .....			
<b>Total semi-finished rolled forms .....</b>	<b>314,412</b>	<b>497,748</b>	<b>48,831</b>
Rails .....	342,299	334,422	35,707
Wire rods, No. 5 gauge to 47/64 inch in diameter (excluding straight lengths over 5/16 inch in diameter) ....	389,745	392,533	52,421
Structural steel shapes:			
Heavy, including sheet piling, beams, angles, channels, tees, zeos, etc., having one leg or web of 3" and over, and a thickness of 1/8" and over .....	399,334	385,685	48,209
Light, including light shapes, angles, channels, etc., having a section smaller than that provided under previous item .....	110,312	110,649	14,160
<b>Total structural steel shapes .....</b>	<b>509,646</b>	<b>496,334</b>	<b>62,369</b>
Bars:			
Bars, hot-rolled, of all grades and of all sections, including bolt, nut, rivet, spike, chain, horseshoe and other miscellaneous bars, but omitting all bars reported immediately below .....	596,369	527,392	84,412
Bars for concrete reinforcing, including twisted and other deformed bars .....	427,622	409,342	47,892
Long angle splice bars, tie plate bars and all other long rail joint bars .....	66,006	..	..
<b>Total hot-rolled bars .....</b>	<b>1,089,997</b>	<b>936,734</b>	<b>132,304</b>
Plates (excluding plate for pipes and tubes) .....	560,148	545,370	68,363
Skelp <sup>1</sup> (hot and cold-rolled plate, sheets, strip and bars for pipes and tubes) .....	488,639	427,236	49,808
Other hot-rolled sheets and strip including material for further cold reduction and all other hot-rolled forms	2,553,214	738,990	88,018
<b>B. Cold-rolled and coated products<sup>1</sup></b>			
Bars, cold-rolled and cold-drawn .....	62,303	60,666	18,594
Cold-rolled strip .....	60,433	60,235	8,160
Other cold-rolled and coated products, including cold-reduced sheets, black plate for tinning and other black plate, galvanized sheets and strip, tin plate, silicon sheet and strip, but excluding cold-rolled skelp .....	1,953,815	1,099,889	179,397
<b>C. Other products</b>			
Rail fastenings:			
Rail joints, including splice bars and fish plates .....	13,553	13,476	2,009
Tie plates .....	50,050	51,781	6,883

<sup>1</sup> Note that skelp as listed provides for both hot-rolled and cold-rolled material.

TABLE 8. Production<sup>1</sup> of Pig Iron and Sales<sup>1</sup> by Producers—All Industries,<sup>2</sup> 1962 and 1963

Grade	Total tonnage made	Sales	
		Quantity	Income from sales
		net tons	\$'000
1962			
Basic .....	4,561,273	52,854	2,937
Foundry <sup>3</sup> .....	254,807	357,439	17,210
Malleable .....	460,673	404,550	22,825
Totals .....	5,276,753	814,843	42,972
1963			
Basic .....	5,095,081	65,910	3,672
Foundry <sup>3</sup> .....	312,651	332,303	14,082
Malleable .....	525,538	360,300	26,557
Totals .....	5,933,270	758,513	38,311

<sup>1</sup> Includes the output from smelting of titanium ores.

<sup>2</sup> Includes data from other industries which manufacture, as a secondary activity, the commodities listed here.

<sup>3</sup> Includes silvery pig.

TABLE 9. Production<sup>1</sup> of Pig Iron, by Grades, 1954-63

Year	Basic	Foundry	Malleable	Total
		net tons		
1954 .....	1,740,712	167,797	302,520	2,211,029
1955 .....	2,591,662	176,710	446,995	3,215,367
1956 .....	2,990,222	150,354	427,627	3,568,203
1957 .....	3,209,411	104,830	404,109	3,718,350
1958 .....	2,665,705	43,755	350,119	3,059,579
1959 <sup>1</sup> .....	3,552,926	228,843	401,006	4,182,775
1960 .....	3,598,595	290,050	410,204	4,298,849
1961 .....	4,203,578	386,644	355,799	4,946,021
1962 .....	4,561,273	254,807	460,673	5,276,753
1963 .....	5,095,081	312,651	525,538	5,933,270

<sup>1</sup> Includes silvery pig.

<sup>2</sup> Commencing with 1959, includes the output from smelting of titanium ores.

TABLE 10. Production<sup>1</sup> of Pig Iron, by Months, 1962 and 1963

Month	1962			1963		
	For own use	For sale	Total	For own use	For sale	Total
			net tons			
January .....	386,745	32,130	418,875	384,873	24,182	409,055
February .....	363,124	30,012	393,136	356,780	21,339	378,119
March .....	414,201	32,784	446,985	423,642	27,375	451,017
April .....	397,987	53,445	451,432	450,414	31,796	482,210
May .....	389,551	73,527	463,078	484,637	53,503	538,140
June .....	373,210	97,968	471,178	458,957	75,048	534,005
July .....	403,649	87,679	491,328	469,610	69,661	539,271
August .....	405,058	87,276	492,334	468,436	77,036	545,472
September .....	371,937	73,411	445,348	412,677	92,124	504,801
October .....	362,703	65,725	428,428	413,562	115,134	528,696
November .....	327,680	71,156	398,836	412,979	105,219	518,198
December .....	281,453	106,522	387,975	419,473	66,540	486,013
Totals .....	4,477,298	811,635	5,288,933	5,156,040	758,957	5,914,997

<sup>1</sup> See footnotes to Table 8.

Note: Above breakdown developed from a special monthly report on primary iron and steel and does not reconcile precisely with total shown on Table 8 or 9 because of the preliminary status of monthly figures.

TABLE 11. Sales<sup>1</sup> of Pig Iron by Producers, 1954-63

Year	Tonnage sold	Income from sales	Year	Tonnage sold	Income from sales
	net tons	\$'000		net tons	\$'000
1954 .....	455,552	22,142	1959 .....	662,341	36,280
1955 .....	609,978	30,539	1960 .....	676,964	36,160
1956 .....	649,213	34,501	1961 .....	783,188	39,966
1957 .....	734,353	40,953	1962 .....	814,843	42,972
1958 .....	429,708	24,878	1963 .....	758,513	38,311

<sup>1</sup> See footnotes to Table 8.



TABLE 12. Stocks of Pig Iron at Year-end by Producers in Canada, 1954 - 63

Year	Net tons	Year	Net tons
1954 .....	127,894	1959 .....	246,742
1955 .....	136,415	1960 .....	318,063
1956 .....	113,629	1961 .....	369,547
1957 .....	233,569	1962 .....	212,353
1958 .....	239,598	1963 .....	197,630

Note: See also data in Table 8.

TABLE 13. Consumption of Pig Iron in Canada by Industries and by Provinces, 1962 and 1963  
(As Reported by Consumers)

	1962	1963
	net tons	
By industries		
Agricultural implements .....	6,490	6,977
Boiler and plate works .....	669	501
Electrical products .....	4,873	5,426
Fabricated structural metal .....	318	185
Hardware, tool and cutlery .....	125	122
Heating equipment .....	8,159	6,273
Iron and steel mills .....	4,561,952	5,182,670
Iron foundries .....	137,819	164,785
Miscellaneous machinery .....	8,950	11,098
Miscellaneous metal fabricating .....	10,310	8,598
Motor vehicles .....	3,380	5,133
Motor vehicle parts and accessories .....	33,279	40,202
Railroad rolling stock .....	6,399	5,680
Shipbuilding and repair .....	353	557
Miscellaneous .....	58,266	64,486
Totals .....	4,841,342	5,502,693
By provinces		
Prince Edward Island Newfoundland and Nova Scotia .....	447,532	556,193
New Brunswick .....	1,934	1,668
Quebec .....	30,251	101,332
Ontario .....	4,357,044	4,839,153
Manitoba .....	2,802	2,797
Saskatchewan .....	—	—
Alberta .....	260	476
British Columbia .....	1,519	1,074
Canada .....	4,841,342	5,502,693

Note: Data in Table 13 by industry reflect classification in accordance with revised Standard Industrial Classification adopted in 1980 and the New Establishment Concept adopted in 1961.

TABLE 14. Blast Furnaces in Canada, 1961 - 63

Name of company	Location of plant	Number of stacks	Total annual capacity	Number of days in blast		
				1961	1962	1963
			net tons			
Dominion Foundries & Steel Ltd. ....	Hamilton, Ont. ....	1	500,000	—	224	365
		1	500,000	365	151	208
		1	550,000	365	365	365
<b>Totals</b> .....		<b>3</b>	<b>1,550,000</b>	<b>210,000</b>	—	—
Dominion Steel & Coal Corporation, Limited .....	Sydney, Nova Scotia .....	1	299,000	263	216	365
		1	365,000	362	383	364
<b>Totals</b> .....		<b>2</b>	<b>664,000</b>	—	—	—
Canadian Furnance Company, Limited .....	Port Colborne, Ont. ....	1	210,000	277	193	239
<b>Totals</b> .....		<b>1</b>	<b>263</b>	—	—	—
The Steel Company of Canada, Limited .....	Hamilton .....	1	—	361	365	364
		1	—	298	364	360
		1	1,935,000	349	365	318
		1	—	354	364	359
<b>Totals</b> .....		<b>4</b>	<b>1,935,000</b>	—	—	—
Algoma Steel Corporation, Limited .....	Sault Ste. Marie, Ont. ....	1	300,000	240	314	340
		1	200,000	222	362	363
		1	750,000	365	364	365
		1	750,000	361	311	330
<b>Totals</b> .....		<b>4</b>	<b>2,000,000</b>	—	—	—
<b>Totals for Canada</b> .....		<b>14</b>	<b>6,359,000</b>	—	—	—

Note: Data in above table do not include details on other producers of pig iron in Canada as follows:

1. Electric furnace operations used in smelting titanium ores rated at approximately 354,000 tons pig iron per annum operated by Quebec Iron and Titanium Corporation at Sorel, Quebec.
2. One electric furnace used in direct reduction of iron ore rated at 40,000 tons pig iron per annum operated by the Consolidated Mining and Smelting Co. of Canada Ltd., Kimberley, British Columbia.

TABLE 15. Production of Steel Ingots and Steel Castings, and Sales by the Producers - All Industries,<sup>1</sup> 1962 and 1963

	1962			1963		
	Total tonnage of steel made (all kinds), including alloys	Sales		Total tonnage of steel made (all kinds), including alloys	Sales	
		Quantity	Income from sales		Quantity	Income from sales
	net tons		\$'000	net tons		\$'000
Steel ingots:						
Basic open-hearth <sup>2</sup> .....	6,394,451	156,620	10,077	7,321,572	153,992	9,801
Electric .....	653,851	96,894	12,200	749,390	122,634	14,779
Totals, steel ingots .....	7,048,302	253,514	22,277	8,070,962	276,626	24,580
Steel castings:						
Basic open-hearth .....	3,125	961	494	2,643	356	195
Electric .....	122,107	122,073	52,325	123,465	115,663	52,594
Totals, steel castings .....	125,232	123,034	52,819	126,108	116,018	52,789
Totals, steel ingots and castings .....	7,173,534	376,548	75,096	8,197,070	392,644	77,369
Alloy steel included in above:						
Ingots .....	321,708	9,592	6,628	384,957	10,087	7,551
Castings .....	32,439	31,931	26,130	34,534	32,658	27,293
Totals .....	354,147	41,523	32,758	419,491	42,745	35,844

<sup>1</sup> Includes details from other industries which manufacture, as a secondary activity, the commodities listed here.

<sup>2</sup> Includes production from oxygen vessels.

TABLE 16. Production of Steel Ingots and Steel Castings by Grades - All Industries,<sup>1</sup> 1954-63

Year	Steel ingots		Steel castings			Total steel ingots and castings
	Open-hearth <sup>2</sup>	Electric	Open-hearth	Converter	Electric	
	net tons					
1954 .....	2,727,730	386,061	22,364	95	58,780	3,195,030
1955 .....	3,917,151	529,190	25,953	165	62,213	4,534,672
1956 .....	4,628,777	551,644	32,107	307	88,367	5,301,202
1957 .....	4,500,737	430,673	27,076	20	109,643	5,068,149
1958 .....	3,875,470	386,652	15,880	20	81,444	4,359,466
1959 .....	5,267,282	532,074	14,834	7	87,290	5,901,487
1960 .....	5,089,660	618,943	2,611	—	97,894	5,809,108
1961 .....	5,712,846	663,261	2,830	—	109,370	6,488,307
1962 .....	6,394,451	653,851	3,125	—	122,107	7,173,534
1963 .....	7,321,572	749,390	2,643	—	123,465	8,197,070

<sup>1</sup> Includes details from other industries which manufacture, as a secondary activity, the commodities listed here.

<sup>2</sup> Commencing with 1954, includes production from oxygen vessels.

TABLE 17. Production of Steel Ingots and Steel Castings, by Months - All Industries,<sup>1</sup> 1959-63

Month	1959	1960	1961	1962	1963
	net tons				
January .....	461,113	570,057	457,388	576,052	660,215
February .....	436,932	551,557	472,409	533,788	590,780
March .....	476,154	595,715	565,198	602,810	678,248
April .....	487,885	516,318	554,168	597,659	702,045
May .....	489,387	498,408	562,067	603,154	753,625
June .....	467,607	443,423	565,244	598,708	681,288
July .....	482,256	440,803	539,337	611,085	657,443
August .....	487,271	431,469	582,961	651,274	700,273
September .....	503,146	450,575	562,306	618,726	670,246
October .....	536,909	485,865	588,221	598,331	698,621
November .....	542,858	451,659	534,325	607,903	713,685
December .....	550,210	353,721	482,700	573,985	683,810
Totals .....	5,921,728	5,789,570	6,466,324	7,173,475	8,190,279

<sup>1</sup> Includes details from other industries which manufacture these commodities, as a secondary activity.

Note: Above breakdown developed from a special monthly report on primary iron and steel and does not reconcile precisely with total shown in Tables 15, 16 or 18 because of the preliminary status of monthly figures.



TABLE 18. Annual Production of Steel Ingots and Steel Castings, by Provinces - All Industries,<sup>1</sup> 1954-63

Year	Nova Scotia	Quebec	Ontario	Manitoba and Saskatchewan	Alberta	British Columbia	Canada
	net tons						
1954.....	462,594	84,777	2,536,952	65,912	676	44,119	3,195,030
1955.....	583,340	99,122	3,716,833	84,055	5,042	46,280	4,534,672
1956.....	706,264	131,286	4,267,179	113,056	31,945	51,492	5,301,202
1957.....	740,364	157,251	4,004,620	76,243	43,827	45,844	5,068,149
1958.....	597,752	117,907	3,504,215	68,921	36,046	34,625	4,359,466
1959.....	674,226	120,274	4,905,424	98,954	56,235	46,374	5,901,487
1960.....	796,878	169,672	4,609,221	93,921	68,378	71,038	5,809,108
1961.....	523,627	179,534	5,431,212	197,100	69,029	87,805	6,488,307
1962.....	661,883	212,825	5,965,215	176,628	70,218	86,765	7,173,534
1963.....	795,484	234,118	6,752,541	250,387	73,157	91,383	8,197,070

<sup>1</sup> Includes details from other industries which manufacture these commodities, as a secondary activity.

TABLE 19. Sales of Steel Ingots and Steel Castings by Producers - All Industries,<sup>1</sup> 1954-63

Year	Tonnage sold	Income from sales	Year	Tonnage sold	Income from sales
	net tons	\$'000		net tons	\$'000
1954.....	86,066	35,434	1959.....	298,249	59,005
1955.....	201,114	43,682	1960.....	312,989	59,192
1956.....	164,288	55,326	1961.....	370,060	61,597
1957.....	187,806	65,553	1962.....	376,548	75,096
1958.....	105,251	42,581	1963.....	392,645	77,369

<sup>1</sup> Includes details from other industries which manufacture these commodities, as a secondary activity.

TABLE 20. Production of Alloy Steel Ingots and Castings, 1954-63

Year	Ingots <sup>1</sup>	Castings <sup>1</sup>	Total
	net tons		
1954.....	132,976	20,852	153,828
1955.....	217,207	21,928	239,135
1956.....	218,611	27,774	246,385
1957.....	213,101	29,110	242,211
1958.....	182,902	19,470	202,372
1959.....	270,991	22,936	293,927
1960.....	237,393	24,241	261,634
1961.....	252,867	26,268	279,135
1962.....	321,708	32,439	354,147
1963.....	384,957	34,534	419,491

<sup>1</sup> Includes details from other industries which manufacture these commodities, as a secondary activity.

TABLE 21. Metal, Ore and Flux Charged to Steel Furnaces, 1954-63

Year	Pig iron	Ferro-manganese alloys <sup>1</sup>	Other ferro-alloys	Scrap iron and steel <sup>2</sup>	Iron ore including sinter	Lime-stone	Dolomite	Fluorspar
	net tons							
1954.....	1,767,307	29,571	11,962	1,629,866	203,119	182,972	135,987	16,002
1955.....	2,554,433	39,870	17,443	2,366,107	405,709	219,147	182,803	18,610
1956.....	2,902,367	46,556	20,567	2,865,563	472,476	232,065	202,352	18,979
1957.....	2,875,324	46,220	21,787	2,625,963	421,755	199,681	190,039	16,935
1958.....	2,610,517	37,699	15,539	2,112,355	373,143	124,189	152,290	14,539
1959.....	3,511,207	48,230	22,809	2,951,186	419,945	140,736	188,041	20,063
1960 <sup>3</sup> .....	3,510,892	46,584	23,083	2,887,566	393,036	163,362	164,074	21,029
1961 <sup>3</sup> .....	4,056,763	52,116	20,788	3,183,533	405,893	137,424	194,054	24,310
1962 <sup>3</sup> .....	4,561,952	58,041	24,631	3,520,481	377,431	182,058 <sup>4</sup>	203,862	33,824
1963.....	5,182,670	68,285	26,579	4,065,138	413,758	200,280	236,154	41,822

<sup>1</sup> Including spiegeleisen, silicospiegeleisen, ferromanganese (all grades) and silicomanganese.

<sup>2</sup> Developed from data reported monthly on Primary Iron and Steel.

<sup>3</sup> (a) 1960 does not include materials charged to furnaces by firms reclassified under the new Standard Industrial Classification.

(b) In addition to changes effected in 1960, (see 3 (a) above), totals (except for scrap iron and steel) for 1961 and subsequent years exclude materials charged to furnaces by firms reclassified in accordance with the New Establishment Concept.

TABLE 22. Steel Furnaces in Canada, December 31, 1963

	Type	Number of units	Size	Total annual capacity tons
<b>Nova Scotia:</b>				
Dominion Steel and Coal Corporation, Ltd., Sydney .....	O.H.	4	195	580,000
	O.H.	2	225	390,000
	Elec.	1	12	30,000
<b>Totals</b> .....		<b>7</b>	<b>—</b>	<b>1,000,000</b>
Maritime Steel Foundries Ltd., New Glasgow .....	Elec.	1	4	3,000
<b>Quebec:</b>				
Atlas Steels Company, Div. of Rio Algom Mines Ltd., Tracy .....	Elec.	1	60	70,000
Canadian Unitcast Steel Ltd., Sherbrooke .....	Elec.	1	4	3,600
Canadian Steel Foundries, Montreal .....	O.H.	3	25	45,900
	Elec.	1	30	52,800
	Elec.	1	4	7,000
	Elec.	1	2 1/2	4,700
<b>Totals</b> .....		<b>6</b>	<b>—</b>	<b>110,400</b>
Canadian Steel Wheel Ltd., Montreal .....	Elec.	2	45	145,800
Dominion Brake Shoe Co. Ltd., Joliette .....	Elec.	1	3	32,700
	Elec.	1	7	
<b>Totals</b> .....		<b>2</b>	<b>—</b>	<b>32,700</b>
Dominion Engineering Works Ltd., Lachine .....	Elec.	1	5	6,000
	Elec.	1	15	
<b>Totals</b> .....		<b>2</b>	<b>—</b>	<b>6,000</b>
Dominion Steel and Coal Corporation Ltd., Montreal .....	Elec.	2	38	90,000
Griffin Steel Foundries Ltd., St. Hyacinthe .....	Elec.	2	6	52,500
Lynn MacLeod Metallurgy Limited, Thetford Mines .....	Elec.	1	3	5,000
Manganese Steel Castings Ltd., Sherbrooke .....	Elec.	1	3	1,800
Shawinigan Chemicals Ltd., Shawinigan Falls .....	Elec.	4	1/4-2	7,300
Crucible Steel of Canada Ltd., Sorel .....	Elec.	1	4	3,000
	Elec.	1	13	9,750
	Elec.	1	30	22,500
<b>Totals</b> .....		<b>3</b>	<b>—</b>	<b>35,250</b>
Sorel Steel Foundries Limited, Sorel .....	Elec.	2	4 & 8	24,000
<b>Ontario:</b>				
Algoma Steel Corporation Limited, Sault Ste. Marie .....	O.H.	4	180	575,000
	O.H.	2	360	575,000
	Oxygen vessels	3	106	1,050,000
<b>Totals</b> .....		<b>9</b>	<b>—</b>	<b>2,200,000</b>
Atlas Steels Company, Div. of Rio Algom Mines Ltd., Welland .....	Elec.	1	6	5,400
	Elec.	1	10	9,000
	Elec.	2	30	69,600
	Elec.	2	50	115,200
	Elec. (Induction)	1	—	800
<b>Totals</b> .....		<b>7</b>	<b>—</b>	<b>200,000</b>
Burlington Steel Co. Ltd., Hamilton .....	Elec.	1	7 1/2	28,000
Canada Electric Castings Ltd., Orillia .....	Elec.	2	2	6,000
Dominion Foundries and Steel Ltd., Hamilton .....	Elec.	1	2 1/2	50,850
	Elec.	2	10	
	Elec.	1	50	1,550,000
	Oxygen vessels	3	100	
<b>Totals</b> .....		<b>7</b>	<b>—</b>	<b>1,550,850</b>
Fahralloy Canada Limited, Orillia .....	Elec.	6	1/2-2	15,000
Ford Motor Co. of Canada Ltd., Windsor .....	Elec.	1	3	63,000
	Elec.	3	6 1/2	
<b>Totals</b> .....		<b>4</b>	<b>—</b>	<b>63,000</b>
The Indiana Steel Products Co. of Canada Ltd., Kitchener .....	Elec.	3	1/4, 1/2, 1	3,900
Black-Clawson-Kennedy Ltd., Owen sound .....	Elec.	3	1-3	18,000
Neeleon Steel Limited, Lebel .....	Elec.	1	6	18,000
Steel Co. of Canada Ltd., Hamilton .....	O.H.	4	115	3,250,000
	O.H.	5	190	
	O.H.	4	315	
	O.H.	1	500	
<b>Totals</b> .....		<b>14</b>	<b>—</b>	<b>3,250,000</b>
Welmet Industries Limited, Welland .....	Elec.	3	1/4, 2, 3 1/2	9,240
	Elec. (Induction)	1	1/2	
	Elec. (Induction)	1	1/4	9,240
<b>Totals</b> .....		<b>5</b>	<b>—</b>	<b>9,240</b>

TABLE 22. Steel Furnaces in Canada, December 31, 1963 - Concluded

	Type	Number of units	Size	Total annual capacity tons
<b>Manitoba:</b>				
Manitoba Rolling Mills, Selkirk .....	O.H.	2	20	50,000
	Elec.	1	6	23,000
	Elec.	1	9	35,000
<b>Totals</b> .....		<b>4</b>	<b>-</b>	<b>108,000</b>
Dominion Brake Shoe Co. Ltd., Selkirk .....	Elec.	1	3	3,000
	Elec.	1	5	4,000
<b>Totals</b> .....		<b>2</b>	<b>-</b>	<b>7,000</b>
Griffin Steel Foundries Limited, Transcona .....	Elec.	2	8	70,000
<b>Saskatchewan:</b>				
Interprovincial Steel and Pipe Corp. Ltd., Regina .....	Elec.	2	30	121,600
<b>Alberta:</b>				
Foothills Steel Foundry & Iron Works Ltd., Calgary .....	Elec.	1	2	7,100
	Elec.	1	1½	
<b>Totals</b> .....		<b>2</b>	<b>-</b>	<b>7,100</b>
National Castings Ltd., Port MacLeod .....	Elec.	1	-	4,000
Premier Steel Mills Ltd., Edmonton .....	Elec.	2	17½	100,000
Quality Steel Foundries Ltd., Edmonton .....	Elec.	1	-	1,500
<b>British Columbia:</b>				
A-1 Steel & Iron Foundry Ltd., Vancouver .....	Elec.	1	½	1,500
	Elec.	1	1½	
<b>Totals</b> .....		<b>2</b>	<b>-</b>	<b>1,500</b>
Consolidated Mining & Smelting Company of Canada Ltd., Trail .....	Elec.	1	1	3,600
	Elec.	1	3	
<b>Totals</b> .....		<b>2</b>	<b>-</b>	<b>3,600</b>
Reliance Foundry Co. Ltd., Vancouver .....	Elec.	1	1	2,000
	Elec.	2	1½	6,000
<b>Totals</b> .....		<b>3</b>	<b>-</b>	<b>8,000</b>
Vancouver Rolling Mills Ltd., Vancouver .....	Elec.	1	30	86,000
Esco Ltd., Port Coquitlam .....	Elec.	2	½, 3	4,600
Victoria Machinery Depot Co. Ltd., Vancouver .....	Elec.	2	2	5,000
Canadian Summer Iron Works Ltd., Vancouver .....	Elec.	2	1	2,000

TABLE 23. Summary of Steel Furnace Capacity, December 31, 1963

	Number of furnaces	Total annual capacity net tons
Basic open-hearth .....	31	5,465,900
Oxygen vessels .....	6	2,550,000
Electric .....	92	1,463,340
<b>Totals</b> .....	<b>129</b>	<b>9,479,240</b>
<b>Steel ingots:</b>		
Basic open-hearth .....	28	5,420,000
Oxygen vessels .....	6	2,550,000
Electric .....	28	1,015,500
<b>Totals</b> .....	<b>62</b>	<b>8,985,500</b>
Steel castings .....	67	493,740
<b>Total ingots and castings</b> .....	<b>129</b>	<b>9,479,240</b>

TABLE 24. Summary of Steel Furnace Capacity, by Provinces, December 31, 1959-63

	Total annual capacity				
	1959	1960	1961	1962	1963
	net tons				
Nova Scotia .....	963,000	963,000	1,006,000	1,003,000	1,003,000
Quebec .....	269,700	491,500	483,100	508,700	584,350
Ontario .....	5,461,300	5,636,600	6,452,050	6,546,350	2,361,990
Manitoba .....	154,200	151,000	151,000	185,000	185,000
Saskatchewan .....	-	125,000	121,600	128,000	121,600
Alberta .....	79,300	89,500	90,100	110,000	112,600
British Columbia .....	73,200	114,800	126,900	123,700	110,700
<b>Canada</b> .....	<b>7,000,700</b>	<b>7,571,400</b>	<b>8,430,750</b>	<b>8,604,750</b>	<b>9,479,240</b>



**TABLE 25. Net Production<sup>1</sup> in Canada of Hot-rolled Steel Products, 1955-63**

Item	1959	1960	1961	1962	1963
	net tons				
Blooms, billets and slabs .....	232,052	412,348	318,258	309,723	314,412
Rails .....	286,989	224,306	197,416	233,067	342,299
Bars for rail fastenings .....	95,346	48,351	58,993	65,603	66,006
Wire rods .....	382,106	343,052	356,574	356,262	389,745
Structural shapes .....	268,573	241,392	329,572	462,442	509,646
Bars .....	854,519	759,424	840,802	941,421	1,023,991
Plates (excluding plates for pipes and tubes) .....	416,099	387,947	410,267	489,968 <sup>r</sup>	560,148
Sheets, hoops, bands and strips (excluding skelp) .....	1,772,395	1,773,562	1,891,100	2,212,511 <sup>r</sup>	2,533,194
Other hot-rolled forms (including hot-rolled skelp) .....	359,635	308,605	486,728	367,106	448,226
<b>Totals .....</b>	<b>4,667,714</b>	<b>4,498,987</b>	<b>4,889,710</b>	<b>5,438,103</b>	<b>6,187,667</b>

<sup>1</sup> Inter-mill shipments have been excluded.

**TABLE 26. Alloy Steel Products Made and Sold by Rolling Mills, 1962 and 1963**

	1962		1963	
	Tonnage made	Tonnage sold	Tonnage made	Tonnage sold
	net tons			
Bars .....	102,692	97,945	162,463	161,913
Other products, including plates, billets, forgings, sheet piling and wire rods, etc. ....	87,036	63,744	135,598	64,245
<b>Total alloy steel .....</b>	<b>189,728</b>	<b>161,689</b>	<b>298,061</b>	<b>226,158</b>

**TABLE 27. Products Rolled from Axles, etc., 1962 and 1963**

Year	1962		1963	
	Tonnage made	Tonnage sold	Tonnage made	Tonnage sold
	net tons			
Bars .....	37,654	39,026	51,186	45,355
Other products .....	19,155	17,884	27,462	26,332
<b>Totals .....</b>	<b>56,809</b>	<b>56,910</b>	<b>78,648</b>	<b>71,687</b>

**TABLE 28. Production and Factory Sales of Steel Rails, 1954-63**

Year	Tonnage made	Factory sales	
		Tonnage sold	Income from sales
	net tons		\$'000
1954 .....	241,922	232,484	21,421
1955 .....	228,991	241,254	22,352
1956 .....	336,662	333,979	33,027
1957 .....	393,926	383,174	39,979
1958 .....	365,429	377,604	41,587
1959 .....	286,989	286,419	31,637
1960 .....	224,306	223,033	25,385
1961 .....	197,416	190,760	21,556
1962 .....	233,067	225,683	25,404
1963 .....	342,299	334,422	35,707



TABLE 29. Production and Factory Sales of Finished Rail Fastenings, 1954-63

Year	Tie plates			Fish plates and splice bars		
	Quantity made	Factory sales		Quantity made	Factory sales	
		Quantity	Income from sales		Quantity	Income from sales
	net tons		\$'000	net tons		\$'000
1954	39,386	38,027	4,152	13,175	12,786	1,545
1955	66,856	67,683	7,272	15,582	16,812	1,986
1956	88,590	86,592	10,103	18,487	18,675	2,465
1957	78,555	80,575	10,148	17,022	16,793	2,502
1958	56,118	56,189	7,338	14,078	14,088	2,066
1959	70,376	70,351	8,970	14,853	14,818	2,212
1960	36,028	36,108	4,787	11,256	11,133	1,684
1961	44,401	43,022	5,683	7,493	7,736	1,150
1962	53,765	54,554	7,238	10,613	10,624	1,586
1963	50,050	51,781	6,883	13,553	13,476	2,009

TABLE 30. Production and Factory Sales<sup>1</sup> of Wire Rods of Iron or Steel, 1954-63

Year	Total tonnage made	Factory sales	
		Tonnage sold	Income from sales
	net tons		\$'000
1954	275,121	274,870	26,848
1955	357,775	362,258	33,296
1956	403,834	403,602	42,565
1957	291,300	292,563	34,408
1958	268,848	270,210	30,592
1959	382,106	380,132	46,182
1960	343,052	347,629	42,949
1961	356,574	354,119	46,362
1962	356,262	354,412	46,010
1963	389,745	392,533	52,421

<sup>1</sup> Beginning with 1954, includes shipments transferred to own mills of producing firms.

TABLE 31. Production and Factory Sales of Blooms, Billets and Slabs, 1954-63

Year	Except for forging <sup>1</sup>			For forging <sup>2</sup>		
	Total tonnage made	Factory sales		Total tonnage made	Factory sales	
		Tonnage sold	Income from sales		Tonnage sold	Income from sales
	net tons		\$'000	net tons		\$'000
1954	2,201,222	91,378	6,821	72,503	59,539	5,927
1955	2,864,919	227,833	16,552	77,806	70,813	6,561
1956	3,490,564	133,991	9,290	113,328	102,978	11,282
1957		141,062	11,153	156,065	146,407	17,108
1958		101,343	8,245	171,217	166,079	20,274
1959		131,574	11,303	197,415	194,419	21,518
1960		479,229	39,445	149,353	140,885	16,837
1961		326,895	25,690	180,709	156,637	18,461
1962		332,363	26,197	192,706	181,545	21,832
1963		311,849	26,599	203,048	185,899	22,231

<sup>1</sup> Shipment to other Canadian Rolling mills are included.

<sup>2</sup> Includes blanks or pierced billets for seamless tubes.

<sup>3</sup> Not collected since 1957.

TABLE 32. Production and Factory Sales of Hot-rolled Bars of All Kinds, 1954-63

Year	Total tonnage made	Factory sales	
		Tonnage sold	Income from sales
	net tons		\$'000
1954 .....	528,521	445,519	56,525
1955 .....	742,494	621,819	79,841
1956 .....	947,979	795,675	112,281
1957 .....	865,533	718,864	107,391
1958 .....	705,073	585,016	86,215
1959 .....	949,865	795,274	116,993
1960 .....	807,775	723,753	105,903
1961 .....	899,795	783,314	107,439
1962 .....	1,007,024	838,140	115,815
1963 .....	1,089,997	936,734	132,304

TABLE 33. Production and Factory Sales of Structural Steel Shapes,<sup>1</sup> of All Kinds, 1954-63

Year	Total tonnage made	Factory sales	
		Tonnage sold	Income from sales
	net tons		\$'000
1954 .....	193,673	190,521	20,056
1955 .....	241,698	249,762	26,694
1956 .....	316,000	315,564	36,361
1957 .....	347,693	341,975	42,823
1958 .....	217,137	225,295	29,140
1959 .....	268,573	265,194	34,528
1960 .....	241,392	234,530	30,075
1961 .....	329,572	318,664	40,412
1962 .....	462,442	450,309	56,659
1963 .....	509,646	496,334	62,370

<sup>1</sup> In 1956 this category was revised to include sheet piling. Data in above table for previous years have been revised to accommodate this change in classification.

TABLE 34. Production and Factory Sales of Steel Plate,<sup>1</sup> 1954-63

Year	Total tonnage made	Factory sales	
		Tonnage sold	Income from sales
	net tons		\$'000
1954 .....	201,939	201,524	20,568
1955 .....	253,640	251,870	26,162
1956 .....	326,208	319,666	36,936
1957 .....	349,626	344,616	45,017
1958 .....	230,309	226,750	30,618
1959 .....	416,099	408,835	53,394
1960 .....	387,947	387,993	52,275
1961 .....	410,267	403,080	57,542
1962 .....	489,968	491,533	61,815
1963 .....	560,148	545,370	68,363

<sup>1</sup> Excludes plate for pipes and tubes.

TABLE 35. Factory Shipments of Ferro-alloys - All Industries,<sup>1</sup> 1954-63

Year	Net tons	Year	Net tons
1954 .....	116,000	1959 .....	136,000
1955 .....	190,000	1960 .....	138,000
1956 .....	240,000	1961 .....	116,000
1957 .....	204,000	1962 .....	142,000
1958 .....	113,000	1963 .....	151,000

<sup>1</sup> Includes shipments from other industries which manufacture these commodities, as a secondary activity.

TABLE 36. Production and Factory Shipments of Coke Oven Products: Iron and Steel Mills, 1963

Product	Quantity made (including amounts for own use)	Factory shipments	
		Quantity shipped	Value
			\$'000
Coke (including breeze) .....	ton 3,852,922	347,162	4,385
Coke oven gas .....	M cu. ft. 55,014,690	3,957,804	1,252
Tar .....	Imp. gal. ..	37,508,012	3,761
Ammonium sulphate .....	ton ..	20,120	691
Benzol (all grades) .....	Imp. gal. ..	6,192,764	1,707
Toluol .....	" ..	1,892,619	511
Xylol .....	" ..	1,133,201	407
All other products .....			416
<b>Total</b> .....			<b>13,130</b>

Note: Comprehensive details on operations of coke plants, regardless of industrial classification, are published in a monthly report "Coal and Coke Statistics", Catalogue No. 45-002, and in an annual report "The Coal Mining Industry", Catalogue No. 26-206.

TABLE 37. Coke Ovens: Iron and Steel Mills, December 31, 1963

Name of company and location of plant	Coke-making equipment, including reserve equipment (Rated annual capacity, in tons of coal carbonized, given in brackets)
The Algoma Steel Corporation Limited, Sault Ste. Marie, Ontario .....	In use - 110 Wilputte ovens (849,520 tons), and 143 Koppers ovens (1,308,322 tons).
Dominion Foundries and Steel Limited, Hamilton, Ontario .....	In use - 105 Koppers ovens (850,000 tons).
Dominion Steel and Coal Corporation Limited, Sydney, Nova Scotia .....	In use - 114 Koppers Becker Underjet ovens (887,240 tons).
The Steel Company of Canada Limited, Hamilton, Ontario .....	In use - 191 Wilputte ovens (1,700,000 tons).

TABLE 38. Producers of Ferro-alloys, 1963

Name of company	Plant location	Kind of ferro-alloy made
Canadian Carborundum Company, Limited .....	Niagara Falls, Ontario .....	Ferrosilicon (by-product)
Chromium Mining & Smelting Corp., Limited .....	Melocheville, Quebec .....	Ferrosilicon, silico manganese, ferromanganese, chrom-x, chrome sil-x, ferrochrome
Union Carbide Canada Ltd. (Metal & Carbon Div.) .....	(a) Beauharnois, Quebec .....	Ferrosilicon
	(b) Welland, Ontario .....	Ferrochrome, ferromanganese, silico manganese, ferrochrome-silicon
Electric Reduction Company of Canada, Limited .....	Buckingham, Quebec .....	Ferrophosphorus
Exolon Company, The .....	Thorold, Ontario .....	Ferrosilicon (by-product)
Lionite Abrasives Limited .....	Niagara Falls, Ontario .....	Ferrosilicon (by-product)
Norton Company .....	Chippawa, Ontario .....	Ferrosilicon (by-product)
Shawinigan Chemicals Limited .....	Shawinigan Falls, Quebec .....	Ferrosilicon (by-product)
Simonds Canada Abrasive Co., Limited .....	Arvida, Quebec .....	Ferrosilicon (by-product)
Strategic-Udy Metallurgy Limited .....	Niagara Falls, Ontario .....	Ferrochrome



**List of Establishments classified to This Industry, 1963**

(Does not include establishments classified to other industries, which as a secondary activity, manufacture products typical of this industry)

Name	Location
<b>Nova Scotia:</b>	
Dominion Steel and Coal Corp. Ltd. ....	Sydney
Enamel Heating Products Ltd. ....	Amherst
<b>Quebec:</b>	
Canadian Steel Foundries Ltd. ....	Montreal
Canadian Unitcast Steel Ltd. ....	Sherbrooke
Chromium Mining and Smelting Corp. Ltd. ....	Melocheville
Crucible Steel of Canada Ltd. ....	Sorel
Dominion Brake Shoe Co., Ltd. ....	Joliette
Dominion Steel and Coal Corp. Ltd. ....	Montreal
Lynn MacLeod Metallurgy Ltd. ....	Thetford Mines
Maganese Steel Castings Ltd. ....	Sherbrooke
Sorel Steel Foundries Ltd. ....	Sorel
Union Carbide Canada Ltd. ....	Beauharnois
<b>Ontario:</b>	
Atlas Steels Company, Div. of Rio Algom Mines Limited ....	Welland
Algoma Steel Corp. Ltd., Steel Works Division ....	Sault Ste Marie
Algoma Steel Corp. Ltd., Canadian Furnace Division ....	Port Colborne
Canada Electric Castings Ltd. ....	Orillia
Canadian Drawn Steel Co., Ltd. ....	Hamilton
Dominion Foundries and Steel Ltd. ....	Hamilton
Fahratloy Canada Ltd. ....	Orillia
Indiana Steel Products Co. of Canada Ltd. ....	Kitchener
Neelon Steel Ltd. ....	Sudbury
Slater Steel Industries Ltd., Burlington Steel Co. Div. ....	Hamilton
Stanley Steel Co., Ltd. ....	Hamilton
Steel Co. of Canada Ltd. ....	Hamilton
Strategic-Udy Metallurgy Limited ....	Niagara Falls
Union Carbide Canada Ltd. ....	Welland
Union Drawn Steel Co., Ltd. ....	Hamilton
Vanadium Alloys Steel Canada Ltd. ....	London
Welmet Industries Ltd. ....	Welland
<b>Manitoba:</b>	
Dominion Brake Shoe Co., Ltd., Manitoba Steel Foundry Div. ....	Selkirk
Manitoba Rolling (Mills) Co., Ltd., Div. of Dom. Bridge Co., Ltd. ....	Selkirk
<b>Alberta:</b>	
Foothills Steel Foundry and Iron Works Ltd. ....	Calgary
Premier Steel Mills Ltd. ....	Edmonton
<b>British Columbia:</b>	
A - 1 Steel and Iron Foundry Ltd. ....	Vancouver
Consolidated Mining and Smelting Co. of Canada Ltd. ....	Kimberley
Esco Limited, Foundry Div. ....	Port Coquitlam
Reliance Foundry Co., Ltd. ....	Vancouver
Vancouver Rolling Mill Ltd. ....	Vancouver
Vancouver Rolling Mill Ltd., Steel Div. ....	Twigg Island, Richmond



# CONCEPTS AND DEFINITIONS

## Census of Manufactures

### General

The Census of Manufactures is an annual mail survey covering Canada's Manufacturing Industries. It is based on the Standard Classification of Industries and full details concerning the system may be found in the Standard Industrial Classification manual, Catalogue No. 12-501 which is available from the Queen's Printer or the Dominion Bureau of Statistics. In summary, the Classification as it relates to the manufacturing industries provides for a breakdown into 140 industries arranged in 20 major industry groups. Of the 140 (3 digit) industries, 18 are further broken down into 58 (4 digit) sub classes. At the Canada level, principal statistics are collected and compiled for 178 separate industries. They cannot all be published separately by province, however, because of the confidential nature of the data in certain provinces.

The reporting unit for the Census is designated as the **establishment** (see definition of "Establishment" in following section) and a return is requested from every establishment classified to a manufacturing industry. Although respondents are required to submit reports covering the calendar year, financial year reports other than the calendar year are accepted in instances where respondents find it impossible to supply calendar year data from accounting records. When an establishment is operated for only part of a year a report is required covering the period of operation.

There are four different questionnaires used in the Census of Manufactures; (a) short form (b) long form (c) head office questionnaire and (d) commodity questionnaire. The short and long forms are used to obtain principal statistics and commodities shipped from establishments classified to manufacturing industries and differ only in the amount of detail requested. The short form is a single-sheet questionnaire sent to small manufacturers generally reporting shipments of less than \$100,000; this cut-off, however, varies somewhat between industries. The head office questionnaire is generally used for company head offices and/or auxiliary units separately located from the manufacturing establishment(s), (see following notes on Head offices and auxiliary units). The Commodity questionnaire is used to survey certain establishments which are coded (on the basis of their principal activity) to industries other than manufacturing in the Standard Industrial Classification system, but which undertake some manufacturing as a subsidiary activity. This single-sheet questionnaire is designed to collect information on the quantity and value of goods of own manufacture shipped by such establishments in order to achieve full coverage of domestically manufactured commodities (see the following note under Shipments).

The results of the Census are presented in some 140 publications. In addition to these annual industry publications there are annual summary reports for Canada and the provinces and special reports giving principal statistics by detailed geographic areas, by type of ownership and size of establishment. A special annual report covering the shipments of all manufactured commodities arranged in alphabetical order is also published.

Since 1960 the following major changes have been implemented in the Census of Manufactures: (a) a revised Standard Industrial Classification (b) a new establishment definition and (c) an extension of the establishment definition to cover the non-manufacturing activities of manufacturing establishments. The statistics presented in the various 1963 reports reflect the complete implementation of these changes and enable comparisons to be made with the years 1961 and 1962. For a complete description of the procedures followed in establishing the revised series, reference should be made to the Explanatory Notes included in the 1960, 1961 and 1962 industry publications. The statistical framework within which the Census of Manufactures is now carried out is based on the following concepts and definitions which have been developed as part of a general programme to achieve a fully integrated system of economic statistics.

### Establishment

A manufacturing establishment is typically a factory, mill or plant principally engaged in manufacturing activities. The majority of such establishments are firms but many firms have more than one establishment. Such firms are requested to submit a separate Census of Manufactures report for each manufacturing establishment which can meet the reporting requirements embodied in the following definition of the "establishment":

"The smallest unit which is a separate operating entity capable of reporting the following principal statistics:

- Materials and supplies used
- Goods purchased for resale as such
- Fuel and power consumed
- Number of employees and salaries and wages
- Man-hours worked and paid
- Inventories
- Shipments or sales."

Each establishment is required to report on all the activities carried out within its accounting boundaries (except income from investments such as rent, interest and dividends) and data on the different activities (manufacturing, trading in goods not of own manufacture, construction by own labour

force, revenue from services, etc.) are requested to be reported separately. It should be noted that the statistics for separate activities are not completely consistent since some respondents cannot distinguish, in their records, materials, shipments and inventories relating solely to their own manufacturing activities. For example, inventory of goods purchased for re-sale may not be distinguishable from inventory of own manufactured goods. Complete consistency, therefore, can be obtained only at the "all operations" (total activity) level and for studies or statistical measures requiring accurate coordinated data, the "total" statistics should be used.

The number of establishments represents the number of operating units that are principally engaged in the activities of the manufacturing industries to which they have been classified. These units do not necessarily represent the total number engaged in the production of a commodity mainly produced in a certain industry. Some commodities are produced as secondary products in other manufacturing and non-manufacturing industries. It should be noted that head offices and auxiliary units which are surveyed separately are not included in the establishment count, (see following notes on head offices and auxiliary units).

#### **Head Offices and Auxiliary Units**

All head offices and auxiliary units of companies classified to the manufacturing industries such as sales offices, administrative offices, warehouses, laboratories, etc. are now surveyed as part of the Census of Manufactures.

These head offices and auxiliary units are either included in an establishment report or are surveyed by means of the head office questionnaire. The former is the most common case where a single establishment firm has its executive personnel, sales office, etc. located at the site of the manufacturing plant (establishment). The special head office questionnaire is generally used where a firm, regardless of the number of establishments, has separately located offices or auxiliary units. Such offices or units do not constitute establishments within the Census of Manufactures as they do not normally generate operational revenues, but give rise only to costs of operations (mainly salaries and wages) which are automatically included in the value of shipments or sales. Although not considered as establishments, and hence, not included in the "establishment" count for an industry, the operational costs are reflected in either the "Industry" statistics (3 or 4 digit level) or the "Major group" statistics (2 digit level) according to the following rules:

(a) In the case of single establishment firms, statistics for separately located offices and units are classified to the same industry (3 or 4 digit) as the establishment;

(b) In the case of multi-establishment firms, the statistics for such offices and units are coded to the same industry as the establishments of the

firm, when all establishments are in the same industry (3 or 4 digit). When establishments of such firms are coded (1) to different industries within a major group, (2) to industries in different major groups or (3) to industries in different divisions of the Standard Industrial Classification, then the statistics are included in the major group totals (2 digit level) in which the major part of the company's operations are classified. Although this may result in some distortion of major group statistics in the case of (2) and (3) the statistics at the industry (3 or 4 digit) level in all cases will be left free of these company-wide data.

#### **Employees**

##### **(a) Production and related workers — Manufacturing activity**

In addition to those engaged in production and assembling activities, they include those employed in storing, inspecting, handling, packing, warehousing, etc. They also include employees engaged in maintenance, repair, janitorial and watchman services and line supervisors (working foremen) engaged in similar work to that of the employees they supervise. Production and related workers engaged in manufacturing activity are reported as those receiving pay during the last pay period of each month, an average for the year being obtained by summing the monthly figures and dividing by 12. This procedure is followed even though the establishment did not operate in all months in order to arrive at equivalent annual full-time employment. The numbers are somewhat affected by turnover, in that employment is overstated when an employee changes employment during a pay period. The man-hours of production and related workers in manufacturing activity represent total man-hours paid (total hours at work during the calendar year plus hours not worked but nevertheless paid for, such as paid vacations, sick leave, statutory holidays, etc.). In reporting overtime hours, respondents are requested to report only hours actually at work. It should be noted that the division of hours paid into production and related workers payrolls results in average hourly earnings and does not represent hourly wage rates which are collected and published by the Department of Labour and which are based on selected occupations.

##### **(b) Production and related workers — Non-manufacturing activities**

Such employees include those on manufacturing establishments' payrolls engaged in activities such as construction undertaken for the use of these establishments, some outside piece-workers employed in certain industries, logging employees who are reported as part of a sawmilling establishment and any other production workers who are not engaged in manufacturing-type operations.

##### **(c) Administrative and office employees**

This category includes all executive and supervisory officials such as presidents, vice-presidents, comptrollers, secretaries, treasurers,



etc., together with managers, professional, technical and research employees, superintendents and factory supervisors above the line supervisor or working foreman level, and clerical staffs. Also included are employees in activities such as advertising, credit collections, purchasing, personnel, legal, medical, etc. It should be noted that prior to 1961 this category also included working owners and partners. Also included in this category are employees located at head offices or auxiliary units separately located from the establishment; these are generally included in the figures for the province in which they are located according to the rules outlined under "Head offices and auxiliary units" above.

#### (d) Sales and distribution workers

This category includes office personnel whose salaries are charged to selling expense, travelling salesmen, driver salesmen, truckdrivers and their helpers, etc. It may also include some sales employees who are reported as part of a manufacturing establishment but are not working at the establishment's location. These are generally broken down by province in cases where more than 15 employees are involved in any one province. The figures exclude persons working on a commission basis who are not considered regular employees of the establishment.

#### (e) Total Employees

This total comprises the foregoing categories including employees located at separately located head offices and auxiliary units. The numbers of employees included under categories (b), (c) and (d) are reported in the form of annual averages and represent as closely as possible full time employment; adjustments are made when reported figures indicate the existence of part time or seasonal employment. In all the above categories, figures on employment refer to the calendar year whether or not other establishment statistics can only be reported on a fiscal year other than the calendar year.

#### Working Owners or Partners

These are not now included in the statistics of employees and salaries and wages. There is some duplication in numbers when a person owns more than one establishment and is reported as a working owner on each Census return. Withdrawals of working owners defined as amounts withdrawn by owners or partners for normal living expenses excluding withdrawals for payment of income tax.

#### Salaries and Wages

Salaries and wages refer to gross earnings of employees before deductions for income tax and employees contributions to social services such as sickness, accident and unemployment insurance, pensions, etc. They include all salaries, wages, bonuses, profits shared with employees, the value of room and board where provided, commissions (paid to regular employees only) as well as any

other allowance forming part of the worker's earnings. Payments for over-time are included. Figures on salaries and wages refer to the calendar year.

#### Fuel and Electricity

Figures for fuel refer to amounts actually used (including fuel used in cars, trucks, locomotives, etc.), not to purchases unless the quantities are substantially the same. **Any fuel and electricity produced by establishments for internal consumption are not included in the total cost.** Values represent laid down cost at the establishment including freight, duty, etc. Although fuel and electricity used is considered part of manufacturing activity it should be noted that it also includes relatively small amounts used in non-manufacturing activities since these cannot be reported separately.

#### Materials and Supplies

##### (a) Manufacturing activities

Figures represent quantities and laid down cost values, at the establishment, of materials, supplies and purchased components owned and used during the year in manufacturing activities and related processes. These statistics represent only commodity items or physical goods (cost of services or overhead charges such as advertising, insurance, depreciation, etc. are not included) whether purchased from others or received as transfers (in the form of materials, components or semi-processed goods) from other establishments of the reporting company. Included are maintenance and repair supplies not chargeable to fixed assets accounts and any amounts charged by other establishments for work done on materials owned by the reporting establishment. Cost of repairs or maintenance done by outside contractors and cost of returnable containers are not included.

##### (b) Non-manufacturing activities

###### 1. Purchases for re-sale as such

Figures represent cost of materials or products purchased from others by the reporting establishment (or received as transfers from other establishments of the reporting company) for re-sale as such in the same condition as purchased. Included are any finished products received on consignment from other countries.

###### 2. Other materials and supplies used

Figures represent the cost of materials and supplies, if any, used in new construction and in the production of machinery and equipment (for the use of the reporting establishment) by the establishment's own employees. Included are materials used for any capital repairs and alterations carried out by the establishment's employees. Amounts paid to outside contractors for construction and repair work are not included nor is the cost of purchased machinery and equipment. Also included is the cost of office supplies not chargeable to



fixed assets accounts and the cost of such other items of materials and supplies used as food, beverages and supplies for establishment-operated cafeterias and lunch counters, first aid and medical supplies, laboratory supplies, etc.

## **Shipments**

### **(a) General**

The figures represent revenue from all production, sales, services and related activities of reporting establishments with shipments valued in Canadian dollars at the point at which the establishment relinquishes control. The unsold portion at year end of consignment shipments in Canada is treated as inventory and not as shipments but all shipments to foreign countries for which the form B13 "Customs Canada Export Entry" has been completed, are treated as shipments.

In those industries where work on principal products extends over a relatively long period, (Fabricated Structural Metal Industry, Aircraft and Parts Manufacturers, Railroad Rolling Stock Industry and Shipbuilding and Repair Industry) the value of production rather than the value of shipments is recorded. There are certain establishments in other industries which also operate on a basis of progress payments. For these establishments, shipments are also adjusted to work put in place on the basis of the net change in progress payments over the year.

### **(b) Shipments of goods of own manufacture**

These figures represent shipments of goods made from own materials either in the reporting establishments or by other manufacturers on the basis of a charge to the reporting establishments for work done. Included are revenue from repair and custom work, amounts received in payment for work done on materials owned by other establishments and the cost (book value) of any goods shipped on a rental basis.

All products and by-products of own manufacture shipped from the establishment are covered, including transfer shipments to sales outlets, distributing warehouses or to other manufacturing plants of the reporting firm, when such units are treated as separate establishments. The value of shipments are net of returned goods, discounts, returns, allowances, sales tax and excise taxes and duties, returnable containers and charges for outward transportation by common or contract carriers. Transportation or delivery expense incurred by the reporting establishment's own carriers are included.

Shipments of goods of own manufacture of establishments which are coded to some other division of the Standard Industrial Classification (on the basis of principal activity) but which are engaged in manufacturing as a subsidiary activity are collected by means of the Commodity questionnaire referred to earlier. Such shipments together

with shipments of goods of own manufacture of establishments forming the universe of manufacturing industries are compiled and recorded in the various industry publications.

### **(c) Shipments of goods not of own manufacture**

These figures represent the net selling value at establishment (net of discounts, returns, allowances, sales taxes and excise duties and taxes and transportation charges by common or contract carriers) of all products or materials (including products transferred from other establishments of the reporting firm) sold as such in the same condition as purchased or received as transfers. For those industries which ship such goods on a rental basis, the value of shipments represents the book value of these goods. All sales of consignment goods from other countries are included.

### **(d) Other revenue**

Figures represent the book value of fixed assets, if any, (new construction and machinery and equipment including major repairs, alterations, additions, modifications, installation and assembly work) produced during the year for the use of reporting establishments by the establishment's own employees and for which depreciation accounts are maintained. Included also are any revenues from the sale of electricity and from any operations performed by the establishment's own employees, such as revenue from goods produced or purchased for rental (the book value of such goods are included as part of shipments of goods of own manufacture or shipments of goods not of own manufacture), servicing revenues, commissions on sales (when not included in value of sales), revenue for company-operated cafeterias and lunch counters and revenue from outside installation or construction work not related to the establishment's own products, sale of used materials (excluding sale of used fixed assets) research and development work, etc. As mentioned previously the figures do not include non-operating revenue such as rent, dividends, interest, etc.

## **Inventories**

### **(a) Manufacturing activities**

Values represent the book values of manufacturing inventory owned in Canada. Inventories held for which progress payments have been received are not included. Where progress payment accounts are maintained, the change in these accounts is treated as a net adjustment to shipments. Figures consist of inventory owned at the plant and at warehouses or selling outlets which are treated as extensions of establishments for the purpose of reporting shipments. Inventory owned in transit in Canada or on consignment in Canada is included. Goods shipped abroad and held in inventory are included in shipments. Opening inventories may differ from the closing inventories of the previous year because of changes in classification, the

receipt of revised data, the inclusion of new establishments and the removal of establishments which did not operate during the survey year.

**(b) Non-manufacturing activities**

Figures represent the book value of inventory of goods purchased for re-sale as such without further processing, owned by the reporting establishments and held at plants and at any warehouses or selling outlets which are treated as extensions of establishments. Other characteristics are the same as in (a) above.

**Value Added**

**(a) By manufacturing activities**

Figures are compiled by deducting the cost of materials and fuel and electricity consumed from the value of production (value of shipments adjusted for changes in the value of inventories of finished goods and goods in process).

**(b) By non-manufacturing activities**

The figures are compiled by deducting the cost of goods purchased for re-sale (adjusted for changes in the value of inventories of goods

purchased for re-sale) and the cost of other materials and supplies used from the value of shipments of goods not of own manufacture, plus other revenue.

**(c) By Total activities**

The figures consist of value added by manufacturing activities plus value added by non-manufacturing activities. This total value added figure may, in some cases, be less than value added by manufacturing activities as a result of expenditures associated with non-manufacturing exceeding revenues from such activities or because of a decrease in inventory of goods not of own manufacture exceeding the mark-up on the sale of such goods. "Value added" is sometimes referred to as net production. However, to arrive at the National Accounts concept of net production, or Gross Domestic Product at "Factor cost" it would be necessary to subtract also the cost of advertising, insurance and other business expenses which are not collected as part of the annual Census of Manufactures. "Value added" figures for the primary industries, manufacturing and construction are published in DRS publication Catalogue No. 61-202, "Survey of Production".







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