41-203





IRON AND STEEL MILLS 1965

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IRON AND STEEL MILLS

1965

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 operates 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.

Value of shipments and other revenue of the Iron and Steel Mills totalled \$1,251 million, an increase of \$122 million over 1964. This amount included Coke, Gas and By-products valued at \$11.6 million, Sinter Plant and Blast Furnace products valued at \$28.4 million, steel ingots and Steel Castings valued at \$92.0 million, Rolled Steel Products valued at \$1,047.2 million, Ferro-Alloy products valued at \$26.5 million, shipments of other products (secondary products) valued at \$26.0 million, and other revenue of \$19.3 million.

This industry's shipments of rolled steel products represented 85 per cent of its manufacturing revenue. Secondary products shipped by this industry in 1965 included carbon and graphite, electrodes, lytic electrodes, cathode blocks and oil well sucker rods, washers, etc.

The cost of materials and supplies, etc. used in the production of goods of own manufacture increased by \$70 million. Cost of materials and supplies, etc. (inputs) in 1965 represented 48.7 per cent of the value of shipments of own manufacture (outputs), compared to 49.7 per cent in 1964.

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.

TABLE 1. Principal Statistics, 1961-65

				Man	ufacturing	activity				Т	otal activ	vity	
Year and province	Estab- lish- ments		oduction ated work		Cost of	Cost of	Value of shipments of goods	Value		owners artners	Emp	ioyees	Value
province	ments	Number	Man- hours pald	Wages	elec- tricity	and supplies	of own manu- facture	added	Number	With- drawals	Number	Salaries and wages	added
	No.		'000			\$,000				\$'000		\$10	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													
Totals	41	30, 101	63.319	165, 556	31, 639	391, 866	860, 755	445.501		_	36,593	209 171	451, 549
		50,101	00,020	100,000	01,000		000,100	1 10 001			50,555	203, 111	401,049
1963													
Totals	39	31, 112	66, 924	180, 359	35,082	436, 597	963, 206	499,303	_	_	38, 196	228, 217	505,747
1964													
Newfoundiand	_	_	_	_	-	_	-	-	-	_	_	_	-
Prince Edward Island	_	_	-		-	-	_	-	-	_	_	-	_
Nova Scotia	2	х	х	х	Х	х	х	х	_		x	х	х
New Brunswick	_		_	-	_	_	-	-	_	_		-	_
Quebec	11	2, 939	6,734	15,563	4,856	39, 563	79, 250	38, 088		_	3,604	19,466	38, 451
Ontario	18	26,496	55,962	157,514	31,594	413, 233	914,056	472,132	_	_	32,332	199,317	478,664
Manitoba	2	х	x	x	х	х	х	x	-		х	х	х
Saskatchewan	_	_	_	-	-	_	-	_	_	_	_	_	_
Alberta	3	x	x	х	х	х	x	x	Status	_	x	х	x
British Columbia	6	636	1,325	3,634	952	11,651	20,794	8,391	_	_	817	4, 868	8, 385
Yukon and Northwest Territories	_	_	_	-	_	_	_	_	_	_	_		_
Totals	42	33,911	73,408	200,756	41,442	512, 009	1,108,152	561,049	_	_	41, 505	253, 039	568, 680
1965													
Newfoundland	_	_		_	_	_	_	_	_	_		_	
Prince Edward Island				_	_	-					_		
Nova Scotia	2	х	x	x	x	x	x	x	_	_	х	x	х
New Brunswick	_	_				_	_	_	_	-	_	_	_
Quebec	12	3,223	7,443	18,524	5,678	54,386	98, 996	43,415	_		4,096	23,452	43, 855
Ontario	16	28, 155		173,672	36,843		1,012,278		_	_	34,044	217, 800	556, 032
Manitoba	2	X	X	X	X	x	X	х	_		x	x	X
	_				_	.,	_	_	_	_	-		
Saskatchewan	3	x	x	x	x	x	х	x	_		x	x	x
Alberta							21,625				805	4,924	
British Columbia	6	653	1,390	3,824	1,045	12,613	1	8,301			600	4,924	8, 253
Yukon and Northwest Territories	-		_		-	_	_		_	_		_	
Totals	41	36,434	77,202	221,232	47, 703	565, 741	1,231,765	646,100	-	-	44,274	277, 126	653, 743

TABLE 2. Principal Statistics classified by Size Group based on Value of Shipments of Goods of Own Manufacture, 1964 and 1965

				Man	ufacturing	activity				T	otal activ	ity	
Size group	Estab- lish- ments		duction a		Cost of	Cost of	Value of shipments of goods	Value	Working and pa	owners irtners	Empl	oyees	Value
		Number	Man- hours paid	Wages	elec- tricity	and supplies	of own manu- facture	added	Number	With- drawals	Number	Salaries and wages	added
	No.		'000			\$'000				\$'000		\$10	100
1964													
Jnder \$10,000	_	_	_	_	_	_	_	_		_		_	_
10,000 to \$ 24,999	_	_	-	_	_	_	_	_	-	_	_	_ ;	-
25,000 ** 49,999	-	-	-	_	_	_	_	-	-	_	_	_	_
50,000 ' 99,999	_	-	-	_	_	_	_	_	-	-		_	_
100,000 '' 199,999 200,000 '' 499,999	} 3	52	127	247	44	268	820	398		_	75	424	67
500,000 " 999,999	3	157	314	784	104	641	2,111	1.393			179	939	1.39
1,000,000 ' 4,999,999	15 21		4,583	9,867 189,857	1,728 39,567	15,671 495,428	38, 145	21,554	=	_	2,502 38,678	12,592 238,559	21,60
auxiliary units											71	525	(2
Totals	42	33,911	73, 408	200, 756	41,442	512,009	1, 108, 152	561,049	_	-	41, 505	253, 039	568, 68
1965													
nder \$10,000	_	_	_	_	_		_		_	_		_	_
10,000 to \$ 24,999	_		_	-		-	_	-		-	-	_	-
25,000 '' 49,999	_	_		_	_	_	_	-	_	-	-	_	
50,000 " 99,999	_	_	-	_		_		_	_	_	_	_	_
100,000 '' 199,999 200,000 '' 499,999	6	299	650	1,530	177	1,315	3,855	2,415	-	_	338	1,792	2,40
500,000 '' 999,999 1,000,000 '' 4,999,999	11	1.597	3.474	7,996	1.383	11.952	28,703		_	_	1,853	9,734	15,96
5,000,000 and over	24	34,538		211,706	46,143	552.474	1, 199, 207	627,730	-	-	42,000	265,001	635,39
lead offices, sales offices and auxiliary units		***									83	599	(2
Totals	11	36, 434	77 202	991 939	47 703	565 741	1, 231, 765	646 100			44 274	277, 126	653, 74

TABLE 3. Principal Statistics classified by Size Group based on Manufacturing Value Added, 1964 and 1965

				Man	ufacturing	activity				Т	'otal acti	vity	
Size group	Estab- lish- ments		duction a		Cost of	Cost of	Value of shipments of goods	Value	Working and pa	owners utners	Emp	loyees	Value
		Number	Man- hours paid	Wages	elec- tricity	and supplies	of own manu- facture	added	Number	With- drawals	Number	Salaries and wages	added
	No.		000			\$'000				\$'000		\$'0	00
1964													
Inder \$10,000	_	_	_	_	_	8-1			_	_	_		_
10,000 to \$ 24,999	-	_	_	_	_	_	-	_	_	_	_	-	_
25,000 ' 49,999		_	_	_	_	_	_			_		_	
50,000 ' 99,999 100,000 ' 199,999	, -				_						150	05.0	1.50
200,000 " 499,999	} 5	147	314	732	120	763	2, 186	1,224	_	_	179	976	1,50
5,000,000 ' 999,999 5,000,000 and over	8 18 11	754 3,004 30,006	1,699 6,677 64,718	4, 105 15, 078 180, 840	1,088 4,329 35,905	14,842 54,178 442,227	18, 984 100, 527 986, 455	6,186 45,388 508,251	_		951 3,739 36,565	5,372 19,589 226,577	6,31 45,42 515,45
lead offices, sales offices and auxiliary units									4 + +		71	525	(:
Totals	42	33,911	73, 408	200,756	41,442	512,009	1, 108, 152	561,049	-	-	41,505	253,039	568,68
1965													
nder \$10,000	1 -	otton	-	_	date	-	_	-	-		-	_	-
25,000 ' 49,999 50,000 ' 99,999 100,000 ' 199,999	5	327	714	1,811	406	5,089	6,609	1, 125	_	-	379	2,173	1,1
200,000 ' 499,999 500,000 ' 999,999	3	253	600	1, 245	349	9, 848	9,871	454	_	_	394	1,638	4
500,000 ' 999,999	19		7.038	16, 448	4,569	53,374	100,065	45,227	_	_	3,883	21,045	45, 4
5,000,000 and over	14	32,685	68,850	201,728	42,378	497, 431	1, 115, 220	599, 294	_	_	39,535	251,671	606,7
ead offices, sales offices and auxiliary units										2 6 4	83	599	(
Totals	41	36, 434	77 202	221,232	47,703	565 741	1, 231, 765	646 100	-	_	44,274	277, 126	653, 7

TABLE 4. Principal Statistics classified by Size Group based on Total Value Added, 1964 and 1965

				Man	ufacturing	activity				T	otal activ	vity	
Size group	Estab-		duction a sted work		Cost of	Cost of	Value of shipments			owners artners	Empl	oyees	
	ments	Number	Man- hours pald	Wages	fuel and elec- tricity	materials and supplies	of goods of own manu- facture	Value added	Number	With- drawals	Number	Salaries and wages	Value added
	No.		000			\$'000				\$'000		\$'0	00
1964													
Inder \$10,000	1000	_	_	_	_	_	_	_	_		_	_	
10,000 to \$ 24,999	_	_	_	_	_	_	_		_	_	_		
25,000 '' 49,999	_	- 1		_	_	_	_	_	_	_	_	-	-
50,000 ' 99,999 100,000 ' 199,999		-	_	_	_	_	_	-	_	_	_	-	
200,000 " 199,999	5	147	314	732	120	763	2, 186	1, 224	_	-	179	976	1,50
500,000 " 999,999	7	687	1,561	3,809	1,045	14, 374	17, 561	5, 194	_	-	868	4,957	5, 26
1,000,000 ' 4,999,999	19	3,071	6,816	15, 374	4,372	54.645	101,950	46, 380	-	-	3, 822	20,004	46,47
5,000,000 and over	11	30,006	64,718	180, 840	35, 905	442, 227	986, 455	508, 251	-	_	36, 565	226,577	515,45
auxiliary units											71	525	(2
Totals	42	33, 911	73,408	200, 756	41,442	512,009	1, 108, 152	561,049	-	_	41, 505	253,039	568, 68
1007													
1965													
Inder \$10,000	_		-	-	-	_	_	_	_	_	-	-	
10,000 to \$ 24,999]												
25,000 '' 49,999 50,000 '' 99,999	5	327	714	1.811	406	5,089	6,609	1,125	_	_	379	2, 173	1,11
100,000 '' 199,999	If .												
200,000 " 499,999													
500,000 " 999,999	3		600	1.245	349	9, 848	9,871	454	_	-	394	1,738	44
1,000,000 ' 4,999,999 5,000,000 and over	19	3, 169	7,038	16,448 201,728	4,569 42,378	53,374	100,065	45, 227 599, 294	_	_	3,883	21,045 251,671	45, 42 606, 71
ead offices, sales offices and	14	32.000	00,000	201, 120	22,010	491,491	1, 110, 221	000, 294	_		35, 333	231,071	000, 1
auxillary units											83	599	(
Totals	41	36, 434	77 202	221, 232	47, 703	202 241	1, 231, 765	C4C 100		_	44, 274	277, 126	653,74

TABLE 5. Principal Statistics classified by Size Group based on Total Employed, 1964 and 1965

				Mar	ufacturing	activity				1	Cotal acti	vity	
Size group	Estab-		oduction a ated work		Cost of	Cost of	Value of shipments			owners artners	Emp	loyees	
	ments	Number	Man- hours paid	Wages	fuel and elec- tricity	materials and supplies	of goods of own manu- facture	Value added	Number	With- drawals	Number	Salaries and wages	Value added
	No.		'000			\$'000	ļ	L		\$'000		\$'0	000
1964						1	1						
Under 5 employed													
5 - 14 employed	1 4	88	197	434	86	608	1,535	777			113	620	1,067
15 - 49 50 - 99	5	313	648	1,644	263	5,701	10,273	4,378	_		391	2,211	4, 424
100 - 199 "	12	1,398	3, 148 5, 871	7, 267 13, 632	1,956 3,949	35,067 39,852	53,621 75,800	19, 192 35, 207	_	_	1,757	9, 417	19, 120 35, 395
500 employed and over	10	29, 571	63, 543	177, 779	35, 188	430, 781	966, 924		_	_	36, 100	223, 326	508, 702
Head offices, sales offices and auxiliary units											71	525	(29
Totals		333, 911		200,756	41,442	512,009	1, 108, 152	561,049			41, 505	253,039	568, 680
1965												ĺ	
Under 5 employed		_	-	_	_		_	_		_	_	_	_
5 - 14 employed	-	-	-	- 054	140	900	2 004	2,088	_	_	233	1,292	2,081
50- 99	5 14	205 1,614	448 3,488	1,074 8,813	142 2, 151	880 40, 216	3,084 68,259	23, 918		_	1,951	11, 186	23, 992
100-199 "	12	2,987	6,910	17,128	5,603	64,995	109,734	45,266	_	_	3,781	21,730	45, 460
500 employed and over	} 10	31,628	66, 357	194,217	39,806	459,648	1,050,687	574,827	_	_	38, 226	242,318	582, 23
auxiliary units											83	599	(24
Totals	41	36, 434	77, 202	221,232	47, 703	565, 741	1, 231, 765	646, 100	_	_	44, 274	277, 126	653, 743

TABLE 6. Principal Statistics classified by Type of Organization, 1964 and 1965

				Man	ufacturing	activity					Total acti	vity	
Type of organization	Estab-		oduction ated worl		Cost of	Cost of	Value of shipments			owners	Empl	oyees	
organization	ments	Number	Man- hours paid	Wages	fuel and elec- tricity	materials and supplies	of goods of own manu- facture	Value added	Number	With- drawals	Number	Salaries and wages	Value added
	No.		,000			\$'000				\$'000		\$'0	00
1964													
Individual ownershlps	-	- 1	-	<u> </u>	_	_	-	_	_		_	_	_
Partnerships	-	_	-	-	_	_	_	_	_	_	_	_	
Incorporated companies	42	33,911	73,408	200,756	41,442	512.009	1,108,152	561,049	_		41,434	252, 514	568,709
Co-operatives	_	_	_	-	_	_	_		_	_	_		_
Head offices, sales offices and auxiliary units				***							71	525	(29
Totals	42	33, 911	73,408	200, 756	41,442	512,009	1,108,152	561,049	_	-	41,505	253,039	568, 680
1965													
Individual ownerships	-	_	_	-	_	_	_	-	_	_	-	_	_
Partnerships		-	_	-	_	_	_	-	_	_	_	_	_
Incorporated companies	41	36, 434	77, 202	221, 232	47,703	565, 741	1, 231, 765	646, 100	-	_	44, 191	276, 527	653,768
Co-operatives	_	_	_	_1	_		_	_	_		_		_
Head offices, sales offices and auxiliary units			• • •								83	599	(24
Totals	41	36, 434	77, 202	221, 232	47, 703	565, 741	1.231,765	646, 100	-	_	44, 274	277, 126	653, 743

TABLE 7. Calculation of Output, Input and Value Added, 1964 and 1965

	Manufac activ		Non-manufa activiti	cturing es	Tota activ	
	1964	1965	1964	1965	1964	1965
		1	\$'00	D		
Output						
. Shipments and other revenue	1,108,152	1.231,765	21, 174	19,119	1,129,326	1,250,88
Inventorles - Goods of own manufacture:						
Add closing - Goods in process	51, 301	69, 354			51,301	69, 35
Finished goods	44,029	52,487	4 + +		44,029	52, 48
Deduct opening - Goods in process	44,786	50,806	* 4 *		44,786	50, 80
Finished goods	44, 195	43,256			44, 195	43, 25
. Net inventory change	6,349	27, 779	* * *		6, 349	27, 77
. Gross output (1+2)	1,114,501	1,259,544	21,174	19,119	1, 135, 675	1,278,66
Input						
. Purchases of goods not of own manufacture	0 + 4		9,597	9,063	9,597	9, 0
Inventories - Goods not of own manufacture:						
Add opening		4 0 0	1,232	375	1, 232	3'
Deduct closing			561	1, 145	561	1, i
. Cost of goods sold (not of own manufacture)			10,268	8, 293	10, 268	8,2
. Materials, supplies, etc.	512,009	565,741	3,274	3, 182	515, 283	3, 1
Fuel and electricity	41,442	47, 703	• • •		41,442	47,7
. Gross input (5 + 6 + 7)	553, 451	613, 444	13,542	11, 475	566,993	624,9
Value added (3 - 8)	561,049	646, 100	7,631	7, 643	568, 680	653, 7

TABLE 8. Employment and Payroll, 1964 and 1965

					Employ	yees						Salari	es and wa	ges	
Year and		Product related			Admi			les nd	To	tal	Producti	on and	Admin-	Sales	
province	Manufa	cturing	Ot	ther	and o			bution		(att	related v	vorkers	istra- tive and	and distri-	Total
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Manufac- turing	Other	office	bution	
					numb	er							\$'000		
1964									1	1			1		
Newfoundland	_	-	-	-	_	-	-	-	_	-	_	-		_	-
Prince Edward Island	-	-	-	-	-	-	_	-	-	-	-	_	_	_	-
Nova Scotia	Х	Х	_	Х	Х	X	X	Х	х	х	х	Х	х	Х	X
New Brunswick	-	-	-	-	-	-	-		-	-	_		-	_	_
Quebec	2,935	4	_	-	552	85	24	4	3,511	93	15,563	_	3,730	172	19, 46
Ontario	26,290	206	606	9	3, 904	862	333	122	31, 133	1,199	157,514	3,923	34,793	3,087	199, 31
Manitoba	Х	х	Х	-	X	Х	Х	Х	X	Х	X	Х	Х	X	х
Saskatchewan	ng-man	-	-	_	_	_		-	_	_	_	_	_	_	_
Alberta	х	_	_	_	Х	х	Х	X	x	х	х	_	х	х	х
British Columbia	636	_	_	_	134	22	23	2	793	24	3,634	_	1,059	174	4, 86
Yukon and Northwest Terri-															
tories	-	-	-	-	-	-	-	_	-	-	-	-	-	_	
Totals	33,695	216	657	9	5,306	1,077	404	141	40,062	1, 443	200,756	4,200	44,424	3, 659	253, 03
1965															
Newfoundland		-	_		_	-	_	_	_	_	-		_	_	_
Prince Edward Island	_	-	_	-	_	-	-	-	-	_			_	-	-
Nova Scotia	х	x	х	_	х	х	х	Х	х	X	х	X	х	Х	X
New Brunswick	_	_	_	_	_	_		_	-	Name .	_		-	-	
Quebec	3,215	8	_	-	723	91	49	10	3.987	109	18.524		4,540	387	23, 45
Cintario	27,956	199	562	9	3,981	887	312	138	32,811	1, 233	173,672	3,896	37, 109	3.123	217, 80
Manitoba	х	х	x	_	x	x	x	X	x	X	X	X	X	X	X
Saakatchewan	-	_	_	_	_		_	_	_	_	_	_	_		
Alberta	х	-	_	-	х	x	х	х	х	x	х	*****	x	x	x
British Columbia	653	_		-	124	12	14	2	791	14	3,824	_	994	106	4.92
Yukon and Northwest Terri- tories			-	= -	-		_	_	_				-		
Totals	36, 209	225	582	9	5, 583	I. 101	401	164	42,775	1, 499	221, 232	4.006	48, 036	O DEO	277.12

TABLE 9. Production and Related Workers, - Manufacturing Activity, 1964 and 1965

Man	196	4	196	5
Month	Male	Female	Male	Female
		numbe	81	
Establishments reporting monthly detail (large establishments only):			1	
January	31,511	212	34,345	204
February		205	35,093	20-
March		218	35,328	20
Aprii		219	35,350	20
May		218	36,065	21
June		221	36,316	21
July		224	37, 135	22
August		225	37,422	22
September		218	37,472	22
October		209	37, 187	26
November	34, 182	208	36,622	25
D*comber	34,320	200	36,130	24
Averages	33,695	216	36, 209	22
Distallshments reporting annual averages (small establishments only)			-	_
arrage for all establishments	33,695	216	36,209	22

TABLE 10. Inventories, 1965

		Manufa	cturing		Non- manufacturing	
Province	Materials, supplies, etc.	Goods in process	Finished goods of own manufacture	Total	Products or materials purchased for resale	Total inventories
			book value	\$'000	·	
Opening:						
Newfoundland	-	-	- 1	-	_	
Prince Edward Island	- 1	_	-	-	_	_
Nova Scotia	х	x	X	x	x	x
New Brunswick	~	_	-		_	_
Quebec	7,084	8, 083	2, 933	18,819	13	18,833
Ontario	91,975	37, 971	36, 237	166,183	82	166, 265
Manitoba	x	х	x	Х	-	х
Saskatchewan	-	-	_	_	_	_
Alberta	x	x	x	X	X	х
British Columbia	1,203	233	1, 229	2,665	109	2,775
Yukon and Northwest Territories		_	-	_	_	_
Totals	118, 457	50,806	43, 256	212,519	375	212,894
Closing:						
Newfoundland		_	-	_		_
Prince Edward Island	-	_	-		_	_
Nova Scotia	х	x	x	X	x	x
New Brunswick	_			-	_	_
Quebec	11,657	10,952	5, 266	27,876	484	28,360
Ontario	109, 131	55,411	41,634	206, 175	446	206,621
Manitoba	x	x	x	x	***	x
Saskatchewan				_	_	
Alberta	x	х	x	x	х	x
British Columbia	1,563	153	1,643	3,359	49	3,408
Yukon and Northwest Territories	_		_	_		
Totals	141, 395	69, 354	52,487	263, 236	1, 145	264, 380

TABLE 11. Purchased Fuel and Electricity Used, 1964 and 1965

		1964		1965	
Description		Quantity	Cost	Quantity	Cost
			\$'000		\$'000
I. Large establishments reporting commodity detail:					
Bituminous coal:					
(a) From Canadian mines	ton	50,996	416	40,724	332
(b) Imported		135,909	1,441	177, 303	1,824
Sub-bituminous coal (from Alberta mines only)		-	-	_	-
Anthracite coal			_		
Lignite coal					-
Coke	64	425	10	3, 785	57
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	1,072,360	304	1, 169, 052	327
Fuel oil including kerosene or coal oil	44	199,361,774	16,671	211,584,007	18, 243
Wood		272	3	231	2
Gas:					
(a) Liquefled petroleum gases	Imp. gal.	498, 460	112	497, 684	113
(b) Other manufactured gas	M cu. ft.	-	_		-
(c) Natural gas	.1.1.1	10, 457, 642	4,893	13, 387, 152	6,180
Other fuel		_	_		_
Electricity purchased	kwh.	3, 369, 758, 110	17,592	3,345,187,605	20,624
Steam purchased		-	-		-
2. Small establishments not reporting commodity detail:					
Estimate for fuel and electricity		_	-	-	- 3
3. All establishments:					
Total fuel and electricity used		***	41,442		47,703

TABLE 12. Materials and Supplies - Manufacturing Activity, 1964 and 1965

		196	4	196	5
Description		Quantity	Cost	Quantity	Cost
			\$'000		\$'000
faterials used:					
		Description of the last of the			
Coke, gas and by-products section					
Bituminous coal carbonized in ovens or retorts: From Canadian mines	ton	459,820	4,837	262,921	2,76
Imported Absorbing and wash oil	imp, gal.	4,865,783 350,351	54,458	5,033,297	54, 9'
Caustic soda	lb.	2,422,670 5,200	65	2, 196, 681	
Sodium nitrate	ton	3, 200		1	
Sulphuric acid, 100%: Purchased		19,881	375	15,473	2
Own make	44	563		521	
Sinter plant and blast furnace section					
Sinter plant:					
Crude Iron ore:		400 004	4 000	649 004	
From Canadian mines Imported	44	488, 964 936, 760	4,335 9,589	547,924 778,489	4,9
Pyrite cinder Mill cinder, scale, flue dust, etc. (not sintered, pelletized, etc.):	44			5, 215	
Purchased	24	5,345	67	8,755	
Own make Scrap iron and steel (own make)		655, 483 45, 829		594,768	
Limestone (including times)		88,611	331	73,857	2
Dolomite (including fines) Coke (including breeze):		92,241	147	84,843	2
Purchased Own make		13, 267 53, 102	120	13,939	1
Blast furnace:	****	55, 102	• •	02, 623	
Crude iron ore: From Canadian mines	11	548,954	5,213	442,786	4, 3
Imported Iron ore (sintered, pelletized, etc.):	49	1,290,956	14,829	1,375,407	15.1
From Canadian mines		2,571,241	34,011	3,157,365	41.7
Imported From own processing (does not include mine sinter plant)		3,637,373	52,831	3,714,208 1,701,493	53,6
Mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.):					
Purchased Own make		45,529 198,513	373	47,766 298,320	4
Scrap iron and steel: Purchased		62,508	513	91,056	7
Own make	a4	19,138		15,635	
Limestone: From Canadian quarries	14	413, 237	1, 102	448, 234	1.1
Imported Dolomite		331, 107 480, 446	606 852	309,536 544,740	5
Coke:					
Purchased Own make	44	213,766 3,524,355	4,614	403,358	9, 4
Firebrick, fireclay and other refractories, n.e.s.	40	• •	818	• •	7
Steel ingots and steel castings section					
Pig iron: Purchased	ton	12,697	612	25, 968	1,2
Own make Scrap from and steel:		5, 665, 363		6, 154, 753	
Purchased	44	1,844,821	62,373	1,963,180	68.9
Own make Coke (charged to furnace; not for fuel):		2, 480, 459	• •	2,969,248	
Purchased	****	1,240	39	1,446	
Own make Ferromanganese:		1.046	• •	1, 202	
High carbon (over 3 per cent carbon); Medium carbon		57, 525 6, 784	8,967 1,894	61,799	9,9
Low carbon (maximum 0.75 per cent carbon)	4.6	427	184	364	1
Silico manganese Fetrosilicon:		12,111	2,333	14,916	2,9
Low silicon grade (under 45 per cent silicon) Medium silicon grade		159 15, 294	2, 293	205 17, 774	2,6
High silicon grade (over 55 per cent silicon)		1,987	557	3,326	8
Sil-x Ferrochrome (Including chrom-X):		71	20	94	
High carbon Low carbon (maximum 2 per cent carbon)	# 4 # #	2, 994 7, 554	839 2,735	7.479 6.911	2,1
Perromolybdenum	44	133	434	330	2,2
Parrophosphorus Parroselenium	4.4	452	63 41	585	
Perrotitanium Perrotungsten		129 58	93 83	96 99	2
Ferrovanadium	(1	306	862	300	1,1
Fetrozirconium Calcium silicon	4.0	58 442	198	72 742	3
Calcium manganese silicon	4.6	184	104	247	1

TABLE 12. Materials and Supplies - Manufacturing Activity, 1964 and 1965 - Concluded

		1964		1965	
Description		Quantity	Cost	Quantity	Qnai
(Martin) and Gordada			\$'000		\$'000
1. Materials used - Concluded:					
Steel ingots and steel castings section - Concluded	ton	3,032	898	1	1.17
Other ferro-alloys	5.4	162,672	2,603	113,884	1,71
lron ore, calcined, roasted or treated		186,338	2,952	179,952	2,87
Tungsten ore		76 3.332	88 1,756	95 3,862	2.09
Aluminum ingots, shot, etc		413	260	1,130	92
Nickel ingots, cathodes, shot, etc. Other metals		3,133	5,213	3,646	6,11
Charcoal	ton	7,144	28 288	8,801	34
Bentonite					
Raw, crushed Calcined		151,768	2,635	130,505	34
Fluorspar		41,533	1,374	37,399	1,37
Ganister Graphite	1+	925 1,253	72	519 1,584	10
Lime Limestone	4.6	222,679 255,570	3,399	215,901 323,416	3,13
Linseed oil	Imp. gal.	21,038	27	8,440	
Magnesite Electrodes	ton	14, 262	951 2,834	12,337	78 3,76
Silica sand:					
For moulds		134,946	1,011	112,200	1,16
Sulphur	ton	236	35 16,754	263	18,64
Molybdenum trioxide (molybdic oxide) briquettes Ingot moulds (including hot tops) and stools	ton	486	1.516 12.474	736	2,32
Rolled steel products section					
Steel ingots: Purchased	ton	105 510	7 015	95 646	= 14
Own make	3.0	105,510 8,578,176	7,015	9,457,010	5,00
Steel billets and slabsSteel bars		117,947	9,252	201,814	18,15 10,97
Wire rods		3,666	571	4,038	6.2
Rails, old (include reject rails) Steel sheet and strip	44	116,658 43,926	5,222 6,804	91,229	4,85
Scrap iron and steel incl. old axles Tin		14,906 2,762	712 8,393	20,810 2,634	10,18
Zinc spelter		30,156	8,079	31,148	9,04
Acids: Chromic	lb.	266,900	76	227,500	6
Hydrochloric (muriatic) Sulphuric, 100%	****** 60-	1,005,406 47,452	1.030	3,184,268	17 95
Cleaners (Pennsalt, etc.)	*******	41,402	371	44,512	34
Inhibitors (Rodine, etc.) Phenone		97.000	106	42,620	4
Rolling oils	[mp. gal,	2,998,566	1,371	3,669,054	1,58
Zinc ammonium chloride	******	218	4,651	234	1,15
Rolls and dies Silica sand	ton	5,513	6,242	7,822	9,35
Ferro-alloys section					
Coal: Anthracite		14,688	261	18,808	31
BituminousCoke:	******	48,767	799	48,099	79:
Petroleum Other		36,695	599 797	41,088	68 97
Dolomite	******	5,059	15	5,619	1
Electrodes	*******	• •	1,260		1,27
Lime Limestone	ton	3,727 3,301	53	4,646	6
Linseed oil	Imp. gal.	13,598	30	14,076	3
Magnesite Millscale		338	30	141	1
Pitch	411111	10,564	484	10,189	46
Quartzite Silica sand	44	142,552	880 37	153,574	93
Steel scrap (borings, turnings, etc.) Woodchips	14	44,143 44,728	960 352	42,199 43,385	1.06
All other materials and components used		17,120	15,367	43,303	17,66
2. Containers and other packaging materials and supplies used			5,180		6,03
3. Operating, maintenance and repair supplies used (excluding fuel)			67,612		76,57
4. Amount paid out to others for work done on materials owned by establishments		* *	11,765		10,7%
Totals		• • •	512,009	0 11 11	565,74

TABLE 13. Shipments of Selected Goods of Own Manufacture - All Industries, 1964 and 1965

(includes shipments from other industries which manufacture, as a secondary activity, the commodities listed)

		Factory	sales
Product	Total tonnage made	Tonnage sold in Canada or for export	Income from tonnage sold
1964	net	tons	\$'000
A. Hot-rolled products			
Semi-finished rolled forms:			
All semi-finished forms intended for further rolling, including blooms, billets, slabs and sheet bars: For sale in Canada		236,010	19,844
For export Blooms, billets and axle blanks for forging purposes only, whether for own use or for sale to others	107,270	108,152	7,730
including export	255,536	249,002	28,51
Rounds or billets for seamless tubes including export	362		
Total semi-finished rolled forms	312,806°	593, 164	56,09
Rails	253,674 442,023	270,807 446,509	30,850 58,880
Structural steel shapes: Heavy, including sheet piling, beams, angles, channels, tees, zees, etc., having one leg or web of 3"			
and over, and a thickness of 1/8" and over Light, including light shapes, angles, channels, etc., having a section smaller than that provided under	441,235	458,816	57,38
previous item	119,371	118,792	15,54
Total structural steel shapes	560,606	577,608	72,92
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	667,552	591,108	95,500
Bars for concrete reinforcing, including twisted and other deformed bars	534, 451	555,770	65,360
Long angle splice bars, the plate bars and all other long rail joint bars	78,546	1 140 000	100 90
Total hot-rolled bars	1,280,549 622,419	1, 146, 878 621, 124	160, 869 79, 359
Plates (excluding plate for plpes and tubes) Skelp¹ (hot and cold-rolled plate, sheets, strip and bars for pipes and tubes)	550,691	502, 241	58,30
Other hot-rolled sheets and strip including material for further cold reduction and all other hot-rolled forms	2,739,084	765,657	94,816
B. Cold-rolled and coated products ¹			
Bars, cold-rolled and cold-drawn	72,839	72,854	21,906
Cold-rolled strip July cold-rolled and coated products, including cold-reduced sheets, black plate for tinning and other	71, 585	72,700	22,570
black plate, galvanized sheets and strip, tin plate, sllicon sheet and strip, but excluding cold-rolled	2,696,675	1,726,099	280, 715
	2,050,015	1,120,033	200, 110
C. Other products			
Hall !astenings: Hall joints, including spilce bars and fish plates	13,937	13, 310	2,006
Tie plates	59,035	58,359	8,034
1965			
A. Hot-rolled products			
Seml-finished rolled forms:			
All semi-finished forms intended for further rolling, including blooms, slabs and sheet bars: For sale in Canada		345, 234	32, 347
For export Blooms, billets and axle blanks for forging purposes only, whether for own use or for sale to others	76,026	68,321	4,87
Blooms, billets and axle blanks for forging purposes only, whether for own use or for sale to others including export	291,193	282,648	33,824
Rounds or billets for seamless tubes including export)	202,010	00,00
Total semi-finished rolled forms	367, 219	696, 203	71,051
Rails	228, 209 433, 482	220,611 440,178	26, 458 59, 238
	100, 102	110,110	05, 200
Structural steel shapes;			
Heavy, including sheet pilling, beams, angles, channels, tees, zees, etc., having one leg or web of 3"	458.588	443,001	58, 144
Heavy, including sheet piling, beams, angles, channels, tees, zees, etc., having one leg or web of 3" and over, and a thickness of 1/8" and over	458,588	443,001	
Heavy, including sheet piling, beams, angles, channels, tees, zees, etc., having one leg or web of 3" and over, and a thickness of 1/8" and over. Light, including light shapes, angles, channels, etc., having a section smaller than that provided under previous item	127,071	122,882	16,643
Heavy, including sheet piling, beams, angles, channels, tees, zees, etc., having one leg or web of 3" and over, and a thickness of 1/8" and over Light, including light shapes, angles, channels, etc., having a section smaller than that provided under previous item Total structural steel shapes			16,643
Heavy, including sheet piling, beams, angles, channels, tees, zees, etc., having one leg or web of 3" and over, and a thickness of 1/8" and over. Light, including light shapes, angles, channels, etc., having a section smaller than that provided under previous item Total structural steel shapes Bars. Bars, hot-rolled, of all grades and of all sections, including bolt, nut, rivet, spike, chain, horseshoe and	127,071 585,659	122,882 565,883	16,643 74,78
Heavy, including sheet piling, beams, angles, channels, tees, zees, etc., having one leg or web of 3" and over, and a thickness of 1/8" and over Light, including light shapes, angles, channels, etc., having a section smaller than that provided under previous item Total structural steel shapes 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 Bars for concrete reinforcing, including twisted and other deformed bars	127,071 585,659 791,728	122,882 565,883	16,643 74,787
Heavy, including sheet piling, beams, angles, channels, tees, zees, etc., having one leg or web of 3" and over, and a thickness of 1/8" and over Light, including light shapes, angles, channels, etc., having a section smaller than that provided under previous item Total structural steel shapes 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 Bars for concrete reinforcing, including twisted and other deformed bars Long angle splice bars, tie plate bars and all other long rail joint bars	127,071 585,659	122,882 565,883	16,643 74,787 107,207 68,707
Heavy, including sheet piling, beams, angles, channels, tees, zees, etc., having one leg or web of 3" and over, and a thickness of 1/8" and over Light, including light shapes, angles, channels, etc., having a section smaller than that provided under previous item Total structural steel shapes 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 Bars for concrete reinforcing, including twisted and other deformed bars Long angle splice bars, tie plate bars and all other long rail joint bars Total hot-rolled bars	127,071 585,659 791,728 608,093 32,308 1,432,129	122,882 565,883	16,643 74,787 107,207 68,707
Heavy, including sheet piling, beams, angles, channels, tees, zees, etc., having one leg or web of 3" and over, and a thickness of 1/8" and over. Light, including light shapes, angles, channels, etc., having a section smaller than that provided under previous item Total structural steel shapes 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 Bars for concrete reinforcing, including twisted and other deformed bars Long angle splice bars, the plate bars and all other long rail joint bars Total hot-rolled bars Plates (excluding plate for pipes and tubes)	127,071 585,659 791,728 608,093 32,308 1.432,129 794,639	122,882 565,883 663,357 569,795 1,333,152 734,124	16,643 74,787 107,207 68,707 175,914
Heavy, including sheet piling, beams, angles, channels, tees, zees, etc., having one leg or web of 3" and over, and a thickness of 1/8" and over Light, including light shapes, angles, channels, etc., having a section smaller than that provided under previous item Total structural steel shapes 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 Bars for concrete reinforcing, including twisted and other deformed bars Long angle splice bars, tie plate bars and all other long rail joint bars Total hot-rolled bars Plates (excluding plate for pipes and tubes) Skelp¹ (hot and cold-rolled plate, sheets, strip and bars for pipes and tubes)	127,071 585,659 791,728 608,093 32,308 1,432,129	122,882 565,883 663,357 569,795 	16,643 74,787 107,207 68,707 175,914 98.420 61,516
Heavy, including sheet piling, beams, angles, channels, tees, zees, etc., having one leg or web of 3" and over, and a thickness of 1/8" and over Light, including light shapes, angles, channels, etc., having a section smaller than that provided under previous item Total structural steel shapes 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 Bars for concrete reinforcing, including twisted and other deformed bars Long angle splice bars, tie plate bars and all other long rail joint bars Total hot-rolled bars Plates (excluding plate for pipes and tubes) Skelp¹ (hot and cold-rolled plate, sheets, strip and bars for pipes and tubes)	127,071 585,659 791,728 608,093 32,308 1,432,129 794,639 576,187	122,882 565,883 663,357 569,795 1,333,152 734,124 515,223	16,643 74,787 107,207 68,707 175,914 98.420 61,516
Heavy, including sheet piling, beams, angles, channels, tees, zees, etc., having one leg or web of 3" and over, and a thickness of 1/8" and over Light, including light shapes, angles, channels, etc., having a section smaller than that provided under previous item Total structural steel shapes 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 Bars for concrete reinforcing, including twisted and other deformed bars Long angle splice bars, tie plate bars and all other long rail joint bars Total hot-rolled bars Plates (excluding plate for pipes and tubes) Skelp¹ (hot and cold-rolled plate, sheets, strip and bars for pipes and tubes) Dther hot-rolled sheets and strip including material for further cold reduction and all other hot-rolled forms B. Cold-rolled and coated products¹	127,071 585,659 791,728 608,093 32,308 1,432,129 794,639 576,187	122,882 565,883 663,357 569,795 1,333,152 734,124 515,223	16,643 74,787 107,207 68,707 175,914 98,420 61,516 106,069
Heavy, including sheet piling, beams, angles, channels, tees, zees, etc., having one leg or web of 3" and over, and a thickness of 1/8" and over. Light, including light shapes, angles, channels, etc., having a section smaller than that provided under previous item. Total structural steel shapes 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. Bars for concrete reinforcing, including twisted and other deformed bars. Long angle splice bars, tie plate bars and all other long rail joint bars. Total hot-rolled bars Plates (excluding plate for pipes and tubes) Skelp¹ (hot and cold-rolled plate, sheets, strip and bars for pipes and tubes) Other hot-rolled sheets and strip including material for further cold reduction and all other hot-rolled forms B. Cold-rolled and coated products¹ Bars, cold-rolled and cold-drawn Cold-rolled strip	127,071 585,659 791,728 608,093 32,308 1,432,129 794,639 576,187 3,026,304	122,882 565,883 663,357 569,795 1,333,152 734,124 515,223 832,831	16,643 74,787 107,207 68,707 175,914 98.420 61,516 106,069
Heavy, including sheet piling, beams, angles, channels, tees, zees, etc., having one leg or web of 3" and over, and a thickness of 1/8" and over Light, including light shapes, angles, channels, etc., having a section smaller than that provided under previous item Total structural steel shapes 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 Bars for concrete reinforcing, including twisted and other deformed bars Long angle splice bars, tie plate bars and all other long rail joint bars Total hot-rolled bars Plates (excluding plate for pipes and tubes) Skelp¹ (hot and cold-rolled plate, sheets, strip and bars for pipes and tubes) Other hot-rolled sheets and strip including material for further cold reduction and all other hot-rolled forms B. Cold-rolled and coated products¹ Bars, cold-rolled and coated products, including cold-reduced sheets, black plate for tinning and other makes which the plate, the plate, silicon sheet and strip, but excluding cold-rolled	127,071 585,659 791,728 608,093 32,308 1.432,129 794,639 576,187 3,026,304 81,932 72,284	122,882 565,883 663,357 569,795 1,333,152 734,124 515,223 832,831 80,690 72,347	58, 144 16, 643 74, 787 107, 207 68, 707 175, 914 98, 420 61, 516 106, 069 24, 018 21, 976
Heavy, including sheet piling, beams, angles, channels, tees, zees, etc., having one leg or web of 3" and over, and a thickness of 1/8" and over Light, including light shapes, angles, channels, etc., having a section smaller than that provided under previous item Total structural steel shapes 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 Bars for concrete reinforcing, including twisted and other deformed bars Long angle splice bars, tie plate bars and all other long rail joint bars Total hot-rolled bars Plates (excluding plate for pipes and tubes) Skelp¹ (hot and coid-rolled plate, sheets, strip and bars for pipes and tubes) Other hot-rolled sheets and strip including material for further cold reduction and all other hot-rolled forms B. Cold-rolled and coated products¹ Bars, cold-rolled and cold-drawn Coid-rolled strip Other cold-rolled and coated products, including cold-reduced sheets, black plate for tinning and other	127,071 585,659 791,728 608,093 32,308 1,432,129 794,687 576,187 3,026,304	122,882 565,883 663,357 569,795 1,333,152 734,124 515,223 832,831	16,643 74,787 107,207 68,707 175,914 98.422 61,516 106,069
Heavy, including sheet piling, beams, angles, channels, tees, zees, etc., having one leg or web of 3" and over, and a thickness of 1/8" and over Light, including light shapes, angles, channels, etc., having a section smaller than that provided under previous item Total structural steel shapes 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 Bars for concrete reinforcing, including twisted and other deformed bars Long angle splice bars, tie plate bars and all other long rail joint bars Total hot-rolled bars Plates (excluding plate for pipes and tubes) Skelp¹ (hot and cold-rolled plate, sheets, strip and bars for pipes and tubes). Other hot-rolled sheets and strip including material for further cold reduction and all other hot-rolled forms B. Cold-rolled and coated products¹ Bars, cold-rolled and coated products, the luding cold-reduced sheets, black plate for tinning and other makes along a plane and all strip, but excluding cold-rolled	127,071 585,659 791,728 608,093 32,308 1.432,129 794,639 576,187 3,026,304 81,932 72,284	122,882 565,883 663,357 569,795 1,333,152 734,124 515,223 832,831 80,690 72,347	16,643 74,787 107,207 68,707 175,914 98,420 61,516 106,069
Heavy, including sheet piling, beams, angles, channels, tees, zees, etc., having one leg or web of 3" and over, and a thickness of 1/8" and over Light, including light shapes, angles, channels, etc., having a section smaller than that provided under previous item. Total structural steel shapes 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 Bars for concrete reinforcing, including twisted and other deformed bars Long angle splice bars, tie plate bars and all other long rail joint bars Total hot-rolled bars Plates (excluding plate for pipes and tubes) Skelp¹ (hot and cold-rolled plate, sheets, strip and bars for pipes and tubes) Other hot-rolled sheets and strip including material for further cold reduction and all other hot-rolled forms B. Cold-rolled and coated products¹ Bars, cold-rolled and cold-drawn Cold-rolled strip Other cold-rolled and coated products, including cold-reduced sheets, black plate for tinning and other neach all strip, tin plate, silicon sheet and strip, but excluding cold-rolled strip.	127,071 585,659 791,728 608,093 32,308 1.432,129 794,639 576,187 3,026,304 81,932 72,284	122,882 565,883 663,357 569,795 1,333,152 734,124 515,223 832,831 80,690 72,347	16,643 74,787 107,207 68,707 175,914 98.422 61,516 106,069

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

TABLE 14. Production¹ of Pig Iron and Sales¹ by Producers - All Industries, ¹ 1964 and 1965

	Total	Sales			
Grade	tonnage made	Quantity	Income from sales		
	net to	ons	\$'000		
1964					
Basic Foundry 3	5,668,176 436,374 446,285	76,509 453,191 301,043	4,373 20,284 18,137		
Totals	6,550,835	830,743	42,794		
1965					
Basic Foundry Malleable	6,315,576 492,610 271,253	98,817 491,956 318,849	5,736 22,170 18,034		
Totals	7,079,439	909, 622	45,940		

TABLE 15. Production of Pig Iron by Grades, 1956-65

Year	Basic	Foundry	Malleable	Total
		net to	ns	
956 957 958 959 ² 960 961 962 863 964	2,990,222 3,209,411 2,665,705 3,552,926 3,598,595 4,203,578 4,561,273 5,095,081 5,668,176 6,315,576	150,354 104,830 43,755 228,843 290,050 386,644 254,807 312,651 436,374	427,627 404,109 350,119 401,006 410,204 355,799 460,672 525,538 446,285	3,568,20; 3,718,35; 3,059,57; 4,182,77; 4,298,84; 4,946,02; 5,276,75; 5,933,27; 6,550,8%;

TABLE 16. Production of Pig Iron by Months, 1964 and 1965

	Month		1964			1965				
		For own use	For sale	Total	For own use	For sale	Total			
			net tons							
February March April May June July August September October November		481, 238 526, 103 487, 745 485, 636 441, 463 484, 257 484, 021 487, 101 436, 709 401, 755 498, 228	31, 293 29, 002 38, 786 72, 853 83, 746 104, 734 72, 065 91, 123 67, 328 78, 347 109, 380 57, 907	521,046 510,240 564,889 560,598 560,598 546,197 556,322 575,150 554,429 515,056 511,135 556,235	570, 243 479, 045 480, 724 447, 782 535, 688 503, 278 549, 090 574, 782 491, 364 516, 621 497, 202 513, 497	31, 433 34, 574 62, 015 88, 975 101, 461 89, 352 75, 907 59, 823 94, 380 97, 295 95, 332 74, 647	601,676 513,619 542,739 536,677 637,149 592,630 624,997 634,605 585,744 613,916 592,534 588,594			
two a d		5 703 915	836.764	6.540.679	6, 159, 686	905, 194	7,064,880			

TABLE 17, Sales of Pig Iron by Producers, 1956-65

Year	Tonnage sold	Income from sales	Year	Tonnage sold	Income from sales
	net tons	\$'000		net tons	\$'000
1956 1957 1958 1959	649,213 734,353 429,708 662,341 676,964	34,501 40,953 24,878 36,280 36,160	1961 1962 1963 1964 1965	783, 188 814 843 758, 513 830, 743 909, 622	39 964 42,97. 38,31 42,794 45,940

¹ See footnotes to Table 14.

Includes the output from smelting of titanium ores.
 Includes data from other industries which manufacture, as a secondary activity, the commodities listed here.
 Includes silvery pig.

Includes silvery pig.
 Commencing with 1959, Includes the output from smelting of titanium ores.

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 18, Stocks of Pig Iron at Year end by Producers in Canada, 1956-65

Year	Net tons	Year	Net tons
956	113,629	1961	369,547
957	233,569	1962	212,353
958	239,598	1963	197,630
959	246,742	1964	184,616
960	318,063	1965	102,360

Note: See also data in Table 14.

TABLE 19. Consumption of Pig Iron in Canada by Industries and by Regions, 1964 and 1965 (As Reported by Consumers)

	1964	1965
By industries	net	tons
Agricultural implements Boiler and plate works Electrical products Fabricated structural metal Hardware, tool and cuttery Heating equipment Iron and steel mills Iron foundries Miscellaneous metal fabricating Motor vehicles Motor vehicle parts and accessories Railroad rolling stock Shipbullding and repair Miscellaneous	6.792 433 6.983 500 127 6.066 5.678.060 180.062 18.744 27.729 2.911 36.622 15,911 440 79,194	7,444 493 9,403 536 136 4,689 6,180,721 221,711 222,407 18,020 20,686 12,480 369 93,886
Totals	6,064,614	6,592,981
By regions		
Atlantic Quebec. Dontario Prairies 3: itish Columbia	579,583 39,227 5,431,034 10,868 3,902	525,152 56,455 5,984,374 23,602 3,398
Canada	6,064,614	6,592,981

Note: Data in Table 19 by industry reflect classification in accordance with revised Standard Industrial Classification adopted in 1960 and the New Establishment Concept adopted in 1961.

TABLE 20. Blast Furnaces in Canada, 1963-65

Name of company		Number	Total	Number of days in blast			
	Location of plant	of stacks	annual capacity	1963	1964	1965	
			net tons				
Dominion Foundries & Steel Ltd.	Hamilton, Ont.	1 1 1 1	500,000 500,000 550,000	365 208 365	361 365 335	365 365 365	
	Totals	3	1,550,000	-	-	_	
Dominion Steel & Coal Corporation, Limited	Sydney, Nova Scotla	1 1	299,000 365,000	365 364	366 365	322 303	
	Totals	2	664,000	-	-	_	
Canadian Furnance Company, Limited	Port Colborne, Ont.	1	240,000	239	365	365	
	Totals	1	240,000	_	-		
The Steel Company of Canada, Limited	Hamilton	1 1 1 1	2,354,000	364 360 318 359	365 365 361 322	364 331 364 363	
	Totals	4	2,350,000	-	-	-	
Algoma Steet Corporation, Limited	Sault Ste, Marie, Ont.	1 1 1 1 1	350,000 225,000 750,000 800,000	340 363 365 330	314 363 366 359	363 362 362 322	
	Totals	4	2,125.000	-	-	-	
Totals for Canada		14	6,929,000		-	_	

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 403,200 tons pig iron per annum operated by Quebec Iron and Titanium Corporation at Sorel. Quebec.

2. Two electric furnaces used in direct reduction of iron ore rated at 110,000 tons pig iron per annum operated by the Consolidated Mining and Smelting Co. of Canada Ltd., Kimberley, British Columbia.

TABLE 21. Production of Steel Ingots and Steel Castings, and Sales by the Producers - All Industries, 1964 and 1965

	1964							
	Total tonnage of steel made (all kinds), including alioys	of Sales		tonnage of Sales tonnage of		tonnage of	Sa	les
		(all kinds), including	Quantity	Income from sales	steel made (all kinds), including alloys	Quantity	Income from sales	
	net	tons	\$'000	net to	ons	\$'000		
Steel ingots: Basic open-hearth ² Electric	8,119,811 847,707	80,980 131,899	5,230 18,901	8,785,476 1,117,883	140.894 118,762	9, 126 20, 126		
Totals, steel ingots	8,967,518	212,879	24,131	9,903,359	259, 656	29, 252		
Steel castings: Basic open-hearth Electric	1,351 159,590	148,787	69,334	251 164,732	155,232	77, 223		
Totals, steel castings	160, 941	148, 787	69, 334	164, 983	155, 232	77, 223		
Totals, steel ingots and castings	9, 128, 459	361,666	93,465	10,068,342	414,888	106, 475		
Alloy steel included in above: Ingots Castings	521,543 42,489	25.592 40,807	11,178 34,072	714,464 46,896	18,071 45,242	13,183 39,478		
Totals	564,032	66.399	45, 250	761, 360	63, 313	52, 661		

¹ Includes details from other industries which manufacture, as a secondary activity, the commodities listed here,
² Includes production from exygen vessels.

TABLE 22. Production of Steel Ingots and Steel Castings by Grades - All Industries, 1956-65

	Steel ingots			Total steel		
Year	Open-hearth ²	Electric	Open-hearth	Converter	Electric	ingots and castings
	net tons					
1956	4,628,777	551,644	32,107	307	88,367	5,301,20.
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	6,488,30
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
964	8,119.811	847,707	1,351	_	159,590	9,128,45
1965	8,785,476	1,117,883	251	-	164,732	10,068,342

¹ Includes details from other industries which manufacture, as a secondary activity, the commodities listed here. ² Includes production from oxygen vessels.

TABLE 23, Production of Steel Ingots and Steel Castings, by Months - All Industries, 1961-65

Month	1961	1961	1963	1964	1965	
	net tons					
January	457, 388	576,052	660, 215	719,039	831,170	
February	472, 409	533,788	590.780	714,465	742.137	
March	565,198	602,810	678,248	784,732	837,221	
April	554, 168	597,659	702,045	765,993	799,647	
Aay	562,067	603,154	753,625	799,077	894,343	
June	565, 244	598,708	681,288	755,232	844.360	
July	539,337	611,085	657,443	737, 995	845.269	
Augusi	582,961	651,274	700, 273	772, 432	875,118	
September	562,306	618,726	670, 246	748,344	823,749	
October	588,221	598,331	698,621	792.461	876,472	
Vovember	534,325	607,903	713,685	770,056	840,098	
December	482,700	573,985	683,810	770,937	819, 315	
Totals	6, 466, 324	7,173,475	8.190,279	9, 130, 763	10,028,899	

¹ 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 Table 15. 16 or 18 because of the preliminary status of monthly figures.

TABLE 24. Annual Production of Steel Ingots and Steel Castings, by Provinces - All Industries, 1956-65

Year	Nova Scotia	Quebec	Ontario	Manitoba and Saskatchewan	Alberta	British Columbia	Canada
				net tons			
.956	706, 264	131,266	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
959	674,226	120,274	4,905,424	98,954	56, 235	46,374	5,901,487
960	796,878	169,672	4,609,221	93,921	68,378	71,038	5,809,108
961	523,627	179,534	5,431,212	197,100	69,029	87,805	6,488,30
962	661,883	212,825	5, 965, 215	176,628	70,218	86,765	7,173,539
963	795,484	234.118	6,752,541	250,387	73,157	91,383	8,197,070
964	841,982	292, 180	7,581,251	243,581	77,167	92, 298	9, 128, 459
965	779,441	300,492	8,485,219	284,682	131,279	87,229	10,068,342

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

TABLE 25. Sales of Steel Ingots and Steel Castings by Producers - All Industries, 1956-65

Year	Tonnage sold	Income from sales	Year	Tonnage sold	Income from sales
	net tons	\$'000		net tons	\$1000
1956	164, 288	55,326	1961	370,060	61,587
1957	187,806	65,553	1962	376, 548	75,096
1958	105,251	42.581	1963	392,645	77,369
1959	298,249	59,005	1964	361,666	93,464
1960	312,989	59,192	1965	414,888	106,475

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

TABLE 26. Production of Alloy Steel Ingots and Castings - All Industries, 1956-65

Year	Ingots	Castings	Total	
	net tons			
956	218,611	27,774	246,385	
1957	213,101	29,110	242,211	
958	182,902	19,470	202,372	
1959	270, 991	22,936	293, 927	
960	237,393	24, 241	261,634	
1961	252,867	26, 268	279,135	
1962	321,708	32, 439	354, 147	
963	384,957	34, 534	419,491	
1964	503,901	42.489	546,390	
1965	714,464	46,896	761,360	

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

TABLE 27. Metal, Ore and Flux Charged to Steel Furnaces, 1956-65

Year	Pig iron	Ferro- manganese alloys ¹	Other ferro-alloys	Scrap iron and steel ²	Iron ore including sinter	Lime- stone	Dolomite	Fluorspar
				net t	ons			
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
19603	3,510,892	46,584	23,083	2,887,566	393,036	163,362	164,074	21,029
1961 3	4,056,763	52,116	20,788	3, 183, 533	405,893	137,424	194.054	24,310
9621	4,561,952	58,041	24,631	3,520,481	377, 431	182,058	203,862	33,824
1963	5,182,670	68.285	26,579	4,065,168	413,758	200,280	236,154	41,822
964	5,678,060	76,847	32,858	4,629,216°	349,008	255,570	255,377	41,533
1965	6,180,721	84,170	38,266	5,236,580	293, 836	323,416	250,754	37,399

Including spiegeleisen, sillospiegeleisen, ferromanganese (all grades) and sllicomanganese.

Developed from data reported monthly on Primary Iron and Steel.

(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 28. Steel Furnaces in Canada, December 31, 1964

	Туре	Number of units	Size	annual capacity
Nova Scotia:				tons
Dosco Steel Ltd., Sydney	O.H. O.H. Elec.	4 2 1	195 225 12	620, 000 450, 000 30, 000
Totals		7		1, 100, 000
Enamel and Heating Products Ltd., Amherst Maritime Steel Foundries Ltd., New Glasgow	Elec. Elec.	1	8 4	12,000 3, 00 0
Quebec:		4		
Atlas Steels Company, Div. of Rio Algom Mines Ltd., Tracy		1	60	70,000
Canadian Unitcast Steel Ltd., Sherbrooke Canadian Steel Foundries, Divn. of Hawker-Siddeley Canada Ltd., Montreal		2	25 30	3,600 61,500
	Elec. Elec.	1	4 2½	82,000
Totals		5	272	143, 500
Canadian Steel Wheel Ltd., Montreal		2	60	145, 800
Abex industries of Canada Ltd., Amsco Joliette Div., Joliette	Elec.	1 1	3 7	32,700
Totals		2		32,700
Dominion Engineering Works Ltd., Lachine	Elec.	1	5	} 15,000
	Elec.	1	15	,
Totals		2	- 05	15,000
Dosco Steel Ltd., Montreal Griffin Steel Foundries Ltd., St. Hyacinthe	Elec.	2 2	25 6 3	120,000 52,500
Lynn MacLeod Metallurgy Limited, Thetford mines Manganese Steel Castings Ltd., Sherbrooke Crucible Steel of Canada Ltd., Sorel	Eiec.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 5	6,000 1,800
Crucible Steel of Canada Ltd., Soret	Elec. Elec.	1	14 32	40, 000
Totals		3	_	40, 000
Sorei Steel Foundries Limited, Sorel		2	4 & 8	24.000
Ontario:			400	585 000
Algoma Steel Corporation Limited, Sault Ste. Marie	O.H.	2 3	180 360	575,000 575,000
Totals	Oxygen vessels	9	110	1, 450, 000 2, 600, 000
Atlas Steels Company, Div. of Rio Algom Mines Ltd., Welland		1	6	5, 400
Attas Steets Company, DIV. of Rio Algon mines Did., weitand	Elec. Elec.	1 2	10 30	9,000 69,600
	Elec. Elec. (Induction)	2	50	115, 200 800
Totals		7	446	200,000
Burlington Steel Co. Ltd., Hamilton	Elec.	2 2	21	128,000
Canada Electric Castings Ltd., Guelph Dominion Foundries and Steel Ltd., Hamilton	Elec.	1	2 2½	5,000
	Elec.	2 1 3	10 50 100	2,100,000
Totals	Oxygen vessels	7	100	2, 150, 850
Fahrallov Canada Limited, Orillia		7	1/4 - 2	16, 000
Ford Motor Co. of Canada Ltd., Windsor	Elec. Elec.	1 3	3 6½	63,000
Totals		4		63,000
The Indiana Steel Products Co. of Canada Ltd., Kitchener	Elec.	3 3	1/4, 1/2, 1 11/2, 13/4, 4	4,000
Black - Clawson - Kennedy Ltd., Owen Sound Lake Ontario Steel Co. Ltd., Whitby	Elec.	2	50	14,000 200,000
Neelon Steel Limited, Lebel Steel Co. of Canada Ltd., Hamilton	Elec. O.H.	1 4	6 115	18,000
	O.H. O.H.	5 4	190 315	4,000,000
	О.Н.	1	500	4 000 000
	111	14		4, 000, 000
Totals	Elec.	4	3/4, 2, 31/2, 6	1

TABLE 28. Steel Furnaces in Canada, December 31, 1965 - Concluded

	Туре	Number of units	Size	Total annual capacity
Maniloba:				tons
Manitoba Rolling Mills, Selkirk	O.H. Elec.	2	20	50,000
Telefo	Elec.	1	41/2	1
Totals Abex Industries of Canada Ltd., Amsco Joliette Div., Selkirk	-	4		108, 000
Abex industries of Canada Ltd., Amsco Jonette Div., Seikirk	Elec.	1	3 5	3,000 4,000
Totals	23.000	2		7, 000
Griffin Steel Foundries Limited, Transcona	Elec.	2	8	70,000
Suskatchewan:				70,000
interprovincial Steel and Pipe Corp. Ltd., Regina	Flec.	2	32	150,000
Alberta;				
Irving Industries (Foothilis Steel Foundry Div.) Ltd., Calgary	Elec. Elec.	1 1	11/2	5,800
Totals		2	_	5, 800
National Castings Ltd., Fort MacLeod Steel Company of Canada Ltd., Edmonton Quality Steel Foundries Ltd., Edmonton Western Canada Steel Limited, Calgary	Elec. Elec. Elec.	2 3 1 1	2½. 4 17½ 1½ 20	16,500 110,000 3,000 30,000
British Columbia:				
A-1 Steel and Iron Foundry Ltd., Vancouver	Elec.	1 1	1 2	4,820
Totals		2	_	4, 820
Consolidated Mining and Smeiting Company of Canada Ltd., Trail	Fiec. Elec.	1	3 1/2	3,600
Totals		2	_	3, 600
Reliance Foundry Co, Ltd., Vancouver	Fiec. Flec.	1 2	111/2	2,000 6,000
Totals		3	-	8, 000
Esco Ltd., Port Coquitlam Victoria Machinery Depot Co, Ltd., Vancouver CAE Summer Ltd., Vancouver Horton Steel Limited, Penticton Western Canada Steel Limited (Vancouver Steel Div.), Vancouver	Elec. Flec. Elec. Elec. Elec.	1 2 2 1	1½, 3 1, 1 30	4,600 3,000 2,000 2,200 90,000

TABLE 29. Summary of Steel Furnace Capacity, December 31, 1965

	Number of furnaces	Total annual capacity
		net tons
Basis open-hearth Daygen vessels Electric	30 6 97	6,331,500 3,550,000 1,916,270
Totals	133	1, 197, 770
Steel ingots: Basic open-hearth Oxygen vessels Electric	28 6 34	6, 270, 000 3, 550, 000 1, 434, 650
Totals	68	11, 254, 650
Steel castings	65	543, 120
Totals ingots and castings	133	11, 797, 770

TABLE 30. Summary of Steel Furnace Capacity, by Provinces, December 31, 1961-65

1962	1963 net tons	1964	1965
1,003,000		1 000 000 1	
1,003,000	1 002 000 1	1 000 000 1	
508,700 6,546,350 185,000 128,000 110,000 123,700	584, 350 7, 361, 990 185, 000 121, 600 112, 600 110, 700	1, 023, 000 636, 950 8, 634, 790 185, 000 128, 000 169, 800 131, 296	1, 115, 000 654, 900 9, 409, 350 185, 000 150, 000 165, 300 118, 220
	185,000 128,000 110,000	185,000 128,000 110,000 123,700 110,700 110,700	185,000 185,000 185,000 128,000 128,000 120,000 112,600 169,800 123,700 110,700 131,296

TABLE 31. Net Production¹ in Canada of Hot-rolled Steel Products, 1961-65

Item	1961	1962	1963	1964	1965		
	net tons						
Blooms, billets and slabs	318,258	309,723	314,412	312,806	367,219		
Rails	197, 416	233,067	342, 299	253,674	228,209		
Bars for rail fastenings	58,993	65,603	66,006	78,546	32,308		
Wire rods	356,574	356,262	389,745	442.023	433,482		
Structural shapes	329,572	462,442	509,646	560,606	585,659		
Bars	840,802	941,421	1,023,991	1,202,003	1,399,821		
Plates (excluding plates for pipes and tubes)	410,267	489,968	560,148	622,419	794,639		
Sheets, hoops, bands and strips (excluding skelp)	1,891,100	2,212,511 ^r	2,533,194	2,739,084	3,026,304		
Other hot-rolled forms (including hot-rolled skelp)	486,728	367,106	448,226	546,998	613,448		
Totals	4,889,710	5, 438, 103	6,187,667	6, 758, 159	7, 480, 089		

¹ Inter-mill shipments have been excluded.

TABLE 32. Alloy Steel Products Made and Sold by Rolling Mills, 1964 and 1965

	1964		1965		
	Tonnage made	Tonnage sold	Tonnage made	Tonnage sold	
	net tons				
Bars	197,024	194,390	215,059	205,613	
Other products, including plates, billets, forgings, sheet piling and wire rods, etc	112,082	102,877	121,899	107,103	
Total alloy steel	309, 106	297, 267	336,958	312, 715	

TABLE 33. Products Rolled from Axles, etc., 1964 and 1965

	1964		1965		
	Tonnage made	Tonnage sold	Tonnage made	Tonnage sold	
	net tons				
Bars	77,964	77,964	64,314	62,649	
Other products	35,139	36,604	31,473	28,193	
Totals	113, 103	114, 568	95, 787	90,842	

TABLE 34. Production and Factory Sales of Steel Rails, 1956-65

		Factory sales		
Year	Tonnage made	Tonnage sold	Income from sales	
	net to	ns	\$'000	
956	336,662	333,979	33,027	
957	393,926	383, 174	39,979	
958	365, 429	377,604	41,587	
959	286,989	286,419	31,637	
960	224, 306	223,033	25, 385	
961	197,416	190,760	21, 156	
962	233,067	225,683	25, 404	
963	342,299	334,422	35,707	
964	253,674	270,807	30,850	
965	228, 209	220,611	26.45	

TABLE 35. Production and Factory Sales of Finished Rail Fastenings, 1956-65

	Y = 0	Tie plates			Fish plates and splice bars		
			Factory sale			Factory Sales	
		Quantity made	Quantity	Income from sales	Quantity made	Quantity	Income from sales
		net	tons	\$'000	net	tons	\$'000
1956		88,590	86,592	10, 103	18 487	18,675	2,465
			80, 575	10, 148	17,022	16, 793	2,502
1000		50 110	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
1964		59,035	58,539	8,034	13,937	13,310	2,006
1965		43,399	43,799	6,272	5,590	5, 795	902

TABLE 36. Production and Factory Sales of Wire Rods of Iron or Steel, 1956-65

		Total	Factory sales		
	Year	tonnage made	Tonnage sold	Income from sales	
		net to	1S	\$'000	
: 956 ,		403,834	403,602	42,565	
067		291,300	292,563	34,408	
958		268,848	270 210	30,592	
459		382, 106	380, 132	46,182	
960		343,052	347,629	42,949	
96I		356,574	354,119	46,362	
962		356,262	354,412	46,010	
963		389,745	392,533	52,421	
964		442,023	446,509	58,888	
965		433,482	440, 178	59,239	

¹ Beginning with 1954, includes shipments transferred to own mills of producing firms.

TABLE 37. Production and Factory Sales of Blooms, Billets and Slabs, 1956-65

		Ex	Except for forging ¹			For forging ²		
	Year	Total	Factory sales		Total	Factory sales		
		tonnage made	Tonnage sold	Income from sales	tonnage made	Tonnage sold	income from sales	
		net to	ons	\$'000	net t	ons	\$'000	
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		3	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	
			311,849	26,599	203,048	185, 899	22, 231	
1.004			344,162	27,574	255,536	249,002	28,518	
1965			413,555	37,226	291,193	282,648	33,825	

Shipment to other Canadian Rolling mills are included. Includes blanks or pierced billets for seamless tubes, Not collected since 1957.

TABLE 38, Production and Factory Sales of Hot-rolled Bars of All Kinds, 1956 - 65

Year	Total tonnage	Factory sales		
Teal	made	Tonnage sold	Income from sales	
	net tor	ns	\$'000	
1956	947,979	795,675	112,281	
1957	865,533	718,864	107,391	
958	705,073	585,016	86,215	
959	949,865	795, 274	116,993	
960	807,775	723,753	105,903	
961	899,795	783,314	107,439	
962	1,007,024	838, 140	115,815	
963	1,089,997	936, 734	132,304	
	1,280,549	1,146,878	160,869	
965	1,399,821	1,233,152	175,914	

TABLE 39. Production and Factory Sales of Structural Steel Shapes, of All Kinds, 1956-65

Year	Total tonnage	Factory sales		
I tai	made	Tonnage sold	lncome from sales	
	net to	ns	\$'000	
1956	316,000	315,564	36,361	
1957	347,693	341,975	42,823	
958	217, 137	225,295	29, 140	
959	268,573	265, 194	34,528	
960	241,392	234,530	30,075	
961	329,572	318,664	40,412	
962	462,442	450,309	56,659	
963	509,646	496,334	62,370	
964	560,606	577,608	72,927	
965	585,659	565,883	74,809	

¹ 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 40, Production and Factory Sales of Steel Plate, 1956-65

	Total	Factory sales		
Year	tonnage made	Tonnage sold	Income from sales	
	net tons		\$'000	
956	326,208	319,666	36,936	
957	349,626	344,616	45,017	
958	230,309	226, 750	30,618	
959	416,099	408,835	53,394	
060	387,947	387,993	52,27	
061	410,267	403,080	57,542	
062	489,968	491,533	61,81	
063	560, 148	545,370	68,36	
064	622,419	621, 124	79,351	
965	794,639	734,124	98,420	

¹ Excludes plate for pipes and tubes.

TABLE 41. Factory Shipments of Ferro-alloys - All Industries, 1 1956 - 65

Your	Net tons	Year	Net tons
956	240,000	1961	118,000
957	204,000	1962	142,000
)58	113,000	1963	151,000
59	136,000	1964	162,000
960	138,000	1965	175,000

^{&#}x27;Includes shipments from other industries which manufacture these commodities, as a secondary activity.

TABLE 42. Production and Factory Shipments of Coke Oven Products: Iron and Steel Mills, 1965

	Quantity made (including amounts for own use)	Factory shipments		
Product		Quantity shipped	Value	
			\$'000	
Coke (including breeze)ton	3,899,014	300, 247	3,637	
Coke oven gas M cu. ft.	54,890,186	3,216,742	1,220	
TarImp, gal.	_	28,508,480	3,107	
Xylol	_	779, 256	279	
All other products	******************************	**********	3,399	
Total	4-4-4507333141818		11,642	

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 43. Coke Ovens: Iron and Steel Mills, December 31, 1965

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 -106 Wilputte ovens (837,927 tons), and 143 Koppers ovens (1,290,067 tons). In use - 105 Koppers ovens (850,000 tons).
Dominion Steel and Coal Corporation Limited, Sydney, Nova Scotia The Steel Company of Canada Limited, Hamilton, Ontario	In use - 114 Koppers Becker Underjet ovens (887,214 tons). In use - 191 Wilputte ovens (1,770,000 tons).

TABLE 44. Producers of Ferro-alloys, 1965

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
Electric Reduction Company of Canada, Limited	(a) Buckingham, Quebec, b) Varennes, Qué.	Ferrophosphorus
Exolon Company, The	Thorold, Ontario	Ferrosilicon (by-product)
Lionite Abrasives Limited	Niagara Falls, Ontario	Ferrosilicon (by-product)
Masterloy Products Ltd,		Ferrocolumbium, ferromolybdenum, ferrotung- sten, ferrovanadium
Norton Company	Chippawa, Ontario	Ferrosilicon (by-product)
Simends Canada Abrasiye Co., Limited	Arvida, Quebec	Ferrosilicon (by-product)
Union Carbide Camela Litt. (Meta. & Carbon Div.)		Ferrosilicon
	(b) Welland, Ontario	Ferrochrome, ferromanganese, silico mangane- se, ferrochrome-silicon

List of Establishments classified to this Industry, $19\,65$

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

Name	Location
Nova Scotia:	
Posco Steel Ltd.	Sydney
Enamel and Heating Products Ltd.	Amherst
Outland	
Quebec:	Joliette
Alex Industries of Canada Ltd. (Amsco Joliette Div.)	
Atlas Steels Company, Div. of Rio Algom Mines Ltd.	Montreal
Canadian Steel Foundries Ltd.	
Canadian Unitcast Steel Ltd.	
Chromium Mining and Smelting Corpn. Ltd.	
Crucible Steel of Canada Ltd.	
Dosco Steel Ltd.	
Dosco Steel Ltd,	
Lynn MacLeod Metallurgy Ltd.	
Manganese Steel Castings Ltd.	
Sorel Steel Foundries Ltd.	
Union Carbide Canada Ltd.	Beauharnois
Ontario:	
Atlas Steels Company, Div. of Rio Algom Mines Limited	Welland
Algoma Steel Corpn. Ltd., Steel Works Division	
Algoma Steel Corpn. Ltd., Canadian Furnace Division	
Canada Electric Castings Ltd.	
Canadian Drawn Steel Co., Ltd.	
Dominion Foundries and Steel Ltd.	
Fahralloy Canada Ltd.	
Indiana Steel Products Co. of Canada Ltd.	
Lake Ontario Steel Co. Ltd.	
Neelon Steel Ltd.	
Slater Steel Industries Ltd., Burlington Steel Co. Div.	
Stanley Steel Co., Ltd.	
Steel Co. of Canada Ltd., The	
Union Carbide Canada Ltd.	
Union Drawn Steel Co., Ltd.	
Welmet Industries Ltd.	Welland
Manitoba:	
Abex Industries of Canada Ltd. (Manitoba Steel Foundry Div.)	. Selkirk
Manitoba Rolling Mills Co. Ltd., Div. of Dominion Bridge Co. Ltd.	
4 Boots	
Alberta:	Calgary
Foothills Steel Foundry and Iron Works Ltd.	
Quality Steel Foundries Ltd.	
Steel Co. of Canada Ltd., The	Edmonton
British Columbia:	
A - 1 Steel and Iron Foundry Ltd.	Vancouver
Consolidated Mining and Smelting Co. of Canada Ltd.	
Esco Limited, Foundry Div.	
	Vancouver
Reliance Foundry Co. Ltd. Western Canada Steel Ltd.	

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 55 (4 digit) sub classes. At the Canada level, principal statistics are collected and compiled for 176 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 135 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 reports reflect the complete implementation of these changes and enable comparisons to be made back to and including 1961. 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 it's 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 activities

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. For those establishments reporting on the "long" form, 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. In the case of those establishments reporting on the "short" form, respondents are requested to report average annual figures. 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.). Data on man-hours are not collected from establishments reporting on the short form. Man-hours for these establishments are estimated on the basis of ratios derived from the 1958 census. During this census all establishments reported on the long form. 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, vicepresidents, 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 are 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 companyoperated 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 manufacturing materials, supplies, etc. and fuel and electricity consumed from the (value of shipments of goods of own manufacture 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 pur-

chased for re-sale) and the cost of non-manufacturing 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 output or 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 DBS publication Catalogue No. 61-202, "Survey of Production",

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