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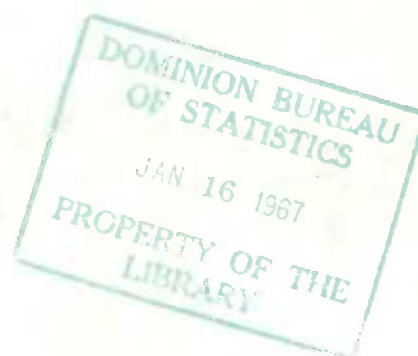


ORNAMENTAL AND ARCHITECTURAL METAL INDUSTRY

1964

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ORNAMENTAL AND ARCHITECTURAL METAL INDUSTRY

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For statistical purposes the industry titled Ornamental and Architectural Metal Industry in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in manufacturing ornamental metal work, stairs and staircases, fire escapes, grilles, railings, metal sash, doors and frames and metal partitions. Establishments included in this industry may install the products of their own manufacture but they are primarily engaged in fabrication. Establishments primarily engaged in the erection or installation of purchased fabricated metal products are included in Industry No. 421—Special-trade Contractors.

An analysis of the principal statistics indicates that there were 94 more firms included in this industry in 1964 in comparison with 1963. The total value of shipments of goods of own manufacture increased by 14 per cent, the value of materials used in production of goods of own manufacture increased by 12.3 per cent and the value of production increased by 13.5 per cent. The ratio of materials used to value of production was 47.1 per cent in 1964 in comparison to 47.6 per cent in 1963. Value added increased by 14.9 per cent in 1964 and the ratio of value added to production was 49 per cent in 1964. In 1963 this ratio was 48.6 per cent.

It should be noted that prior to 1964 some companies were including installation crews as part of their production and related employees but in view of the fact that installation was part of the final selling price it has been ruled that these employees are part of the manufacturing activity and this is where they have been included in 1964.

During 1964 Ornamental and Architectural products accounted for 97 per cent of the total value of shipments of the firms classified to this industry. Some of the other products shipped were cranes and hoisting systems, furniture, truck bodies, industrial ovens, aluminum extrusions, air conditioning units, trailers, transmission towers and highway guardrails.

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, 1961-64

Territory and province	Establishments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
	No.		'000			'000				\$'000		\$'000	
1961													
Totals	551	6,939	14,469	23,842	1,495	60,877	133,580	71,648	303	1,046	10,461	43,446	74,697
1962													
Totals	547	7,948	16,626	30,368	1,679	76,751	154,577	77,223	299	1,052	11,640	48,503	81,990
1963													
Newfoundland	4	x	x	x	x	x	x	x	—	—	x	x	x
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	9	83	181	236	16	676	1,402	703	x	x	136	441	725
New Brunswick	2	x	x	x	x	x	x	x	—	—	x	x	x
Quebec	199	2,670	5,560	9,789	541	24,268	48,119	23,687	121	464	3,631	14,566	24,084
Ontario	221	4,326	9,255	18,329	1,059	45,107	93,118	47,603	89	379	6,409	29,366	49,373
Manitoba	18	192	399	720	33	1,247	3,184	1,944	13	62	256	1,101	1,979
Saskatchewan	12	60	120	194	14	464	864	384	x	x	76	274	422
Alberta	32	1,013	2,072	3,811	118	12,011	18,229	6,183	13	57	1,325	5,363	9,219
British Columbia	50	408	820	1,967	97	4,352	8,868	4,473	27	98	560	2,812	4,652
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	547	8,792	18,488	35,177	1,886	88,374	174,427	85,359	269	1,085	12,459	54,155	90,854
1964													
Newfoundland	4	41	82	117	13	143	441	285	—	—	54	174	284
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	10	107	245	358	24	703	1,737	1,009	x	x	157	549	1,056
New Brunswick	4	18	36	48	3	137	306	167	x	x	29	91	167
Quebec	246	2,782	5,953	10,801	596	28,927	56,356	27,400	154	604	3,696	15,730	27,767
Ontario	250	4,572	9,925	20,298	1,217	51,496	106,529	54,169	97	411	6,611	31,781	56,720
Manitoba	21	241	486	883	37	1,574	4,054	2,428	11	43	334	1,372	2,477
Saskatchewan	13	65	137	234	20	547	1,112	588	5	17	86	331	599
Alberta	33	902	1,866	3,212	123	10,543	17,761	7,262	11	54	1,262	5,010	9,813
British Columbia	60	431	857	2,049	113	5,090	9,991	4,776	36	130	579	2,968	4,801
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	641	9,159	19,589	38,000	2,147	99,160	198,288	98,085	318	1,271	12,808	58,005	103,684

TABLE 2. Principal Statistics classified by Size Group based on Value of Shipments of Goods of Own Manufacture, 1963 and 1964

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1963													
Under \$10,000	24	4	9	10	5	67	198	128	26	64	4	10	128
\$ 10,000 to \$ 24,999	82	74	148	231	28	577	1,428	843	83	287	74	231	843
25,000 " 49,999	94	267	533	857	65	1,490	3,533	2,040	79	313	319	1,054	2,112
50,000 " 99,999	86	429	851	1,503	114	2,595	6,221	3,556	56	273	542	1,973	3,691
100,000 " 199,999	91	831	1,690	2,994	210	5,669	12,632	6,826	22	129	1,144	4,345	7,138
200,000 " 499,999	92	1,627	3,369	6,390	356	14,459	29,593	14,800	3	19	2,219	9,486	14,876
500,000 " 999,999	42	1,505	3,241	6,071	250	14,914	30,184	15,121	—	—	2,090	9,548	15,422
1,000,000 " 4,999,999	32	2,858	6,095	11,708	633	30,611	60,999	30,334	—	—	4,315	19,074	31,694
5,000,000 and over	4	1,197	2,552	5,412	224	17,993	29,639	11,711	—	—	1,748	8,413	14,951
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	4	20	(--)
Totals	547	8,792	18,488	35,177	1,886	88,374	174,427	85,359	269	1,085	12,459	54,155	90,854
1964													
Under \$10,000	63	5	10	14	10	147	403	245	64	139	5	14	245
\$ 10,000 to \$ 24,999	88	83	166	249	33	634	1,541	874	85	290	93	281	883
25,000 " 49,999	111	285	578	973	82	1,681	4,042	2,293	84	381	341	1,179	2,314
50,000 " 99,999	101	495	1,005	1,829	161	3,197	7,367	4,040	56	287	634	2,392	4,168
100,000 " 199,999	94	800	1,661	3,132	248	5,825	13,142	7,092	28	162	1,091	4,525	7,420
200,000 " 499,999	99	1,708	3,651	7,076	375	15,517	31,806	15,993	1	12	2,277	10,255	16,164
500,000 " 999,999	39	1,192	2,583	5,073	242	14,107	27,511	13,285	—	—	1,617	7,672	13,288
1,000,000 " 4,999,999	41	3,207	6,974	13,382	743	38,636	76,963	38,382	—	—	4,598	21,323	40,636
5,000,000 and over	5	1,384	2,960	6,272	251	19,415	35,512	15,881	—	—	2,152	10,365	18,567
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	641	9,159	13,589	38,000	2,147	99,160	198,288	98,085	318	1,271	12,808	58,005	103,684

TABLE 3. Principal Statistics classified by Size Group based on Manufacturing Value Added, 1963 and 1964

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1963													
Under \$10,000	64	31	63	91	16	325	782	445	68	196	31	91	444
\$ 10,000 to \$ 24,999	112	215	428	687	63	1,576	3,430	1,809	104	393	246	793	1,857
25,000 " 49,999	98	468	930	1,602	115	2,794	6,310	3,469	70	322	573	2,023	3,685
50,000 " 99,999	104	697	1,822	3,228	228	6,801	14,305	7,400	22	131	1,237	4,737	7,707
100,000 " 199,999	67	1,057	2,176	3,982	254	9,125	18,817	9,392	5	42	1,420	5,896	9,422
200,000 " 499,999	64	1,871	4,021	7,546	358	21,198	40,517	19,199	—	—	2,613	11,645	19,649
500,000 " 999,999	26	1,883	4,045	7,676	375	19,715	38,076	18,448	—	—	2,756	12,113	19,246
1,000,000 " 4,999,999	12	2,370	5,003	10,365	476	26,841	52,189	25,197	—	—	3,579	16,638	28,845
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	4	20	(--)
Totals	547	8,792	18,488	35,177	1,886	88,374	174,427	85,359	269	1,085	12,459	54,155	90,854
1964													
Under \$10,000	108	29	58	92	25	500	1,091	566	103	269	35	108	573
\$ 10,000 to \$ 24,999	142	303	615	972	99	2,097	4,614	2,422	119	484	358	1,170	2,445
25,000 " 49,999	112	531	1,083	1,972	176	3,440	7,898	4,250	65	332	680	2,571	4,376
50,000 " 99,999	90	747	1,545	2,859	241	6,665	13,432	6,481	28	161	1,049	4,310	6,861
100,000 " 199,999	86	1,302	2,712	5,358	300	12,803	24,966	11,985	3	25	1,725	7,801	12,152
200,000 " 499,999	58	1,697	3,753	7,141	326	17,771	35,856	17,954	—	—	2,250	10,437	17,991
500,000 " 999,999	29	1,803	3,884	7,303	375	22,516	42,495	19,728	—	—	2,608	11,726	21,477
1,000,000 " 4,999,999	16	2,747	5,940	12,303	603	33,369	67,936	34,698	—	—	4,103	19,882	38,110
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	641	9,159	19,589	38,000	2,147	99,160	198,288	98,085	318	1,271	12,808	58,005	103,684

TABLE 4. Principal Statistics classified by Size Group based on Total Value Added, 1963 and 1964

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1963													
Under \$10,000	64	31	63	91	16	325	782	445	68	196	31	91	444
\$ 10,000 to \$ 24,999	110	200	399	643	61	1,513	3,300	1,771	105	397	218	711	1,770
25,000 " 49,999	93	428	849	1,460	109	2,566	5,919	3,267	61	275	525	1,839	3,322
50,000 " 99,999	106	891	1,808	3,170	225	6,748	14,073	7,260	30	174	1,213	4,577	7,482
100,000 " 199,999	72	1,118	2,300	4,227	265	9,469	19,570	9,773	5	42	1,520	6,321	10,097
200,000 " 499,999	62	1,855	3,996	7,586	336	19,524	36,183	18,483	—	—	2,545	11,623	18,426
500,000 " 999,999	27	1,866	4,005	7,492	389	20,726	38,791	18,220	—	—	2,613	11,469	19,033
1,000,000 " 4,999,999	13	2,403	5,068	10,509	484	27,504	53,808	26,141	—	—	3,790	17,505	30,280
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	4	20	(--)
Totals	547	8,792	18,488	35,177	1,886	88,374	174,427	85,359	269	1,085	12,459	54,155	90,854
1964													
Under \$10,000	107	26	52	81	24	485	1,067	558	103	269	30	93	557
\$ 10,000 to \$ 24,999	139	293	594	935	97	2,011	4,441	2,338	117	474	347	1,126	2,350
25,000 " 49,999	111	508	1,037	1,894	165	3,343	7,661	4,122	64	319	645	2,430	4,171
50,000 " 99,999	89	697	1,431	2,664	224	5,703	12,193	6,232	31	164	954	3,911	8,304
100,000 " 199,999	92	1,387	2,893	5,641	332	14,227	26,945	12,486	3	25	1,866	8,335	12,974
200,000 " 499,999	57	1,662	3,670	7,001	319	16,909	34,514	17,481	—	—	2,205	10,218	17,509
500,000 " 999,999	28	1,714	3,701	6,948	361	21,640	40,265	18,334	—	—	2,356	10,580	19,048
1,000,000 " 4,999,999	18	2,872	6,211	12,836	625	34,843	71,201	36,534	—	—	4,405	21,313	40,771
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	641	9,159	19,589	38,000	2,147	99,160	198,288	98,085	318	1,271	12,808	58,005	103,684

TABLE 5. Principal Statistics classified by Size Group based on Total Employed, 1963 and 1964

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1963													
Under 5 employed	182	239	480	789	88	2,064	4,677	2,604	177	821	257	855	2,602
5- 14 employed	185	1,158	2,338	4,201	306	8,933	19,474	10,475	87	432	1,531	5,886	10,642
15- 49 "	126	2,472	5,170	9,399	529	24,077	47,515	22,877	5	31	3,378	14,150	23,360
50- 99 "	30	1,381	2,998	5,690	281	15,548	30,469	14,810	—	—	1,988	9,197	15,336
100-199 "	15	1,555	3,353	6,495	330	15,371	29,184	13,834	—	—	2,118	9,674	14,369
200-499 "	9	1,987	4,150	8,603	351	22,381	43,108	20,760	—	—	3,183	14,373	24,545
500 employed and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	4	20	(--)
Totals	547	8,792	18,488	35,177	1,886	88,374	174,427	85,359	269	1,085	12,459	54,155	90,854
1964													
Under 5 employed	252	304	618	1,051	131	2,751	6,258	3,385	229	782	353	1,237	3,400
5- 14 employed	201	1,228	2,530	4,828	389	9,897	21,709	11,409	87	470	1,614	6,850	11,491
15- 49 "	134	2,632	5,641	10,552	588	26,827	52,711	25,494	2	19	3,556	15,704	26,049
50- 99 "	28	1,367	3,014	5,997	289	17,333	32,897	15,410	—	—	1,858	9,046	15,787
100-199 "	19	1,929	4,101	7,702	390	21,080	42,421	21,664	—	—	2,719	12,267	23,575
200-499 "	7	1,699	3,685	7,870	359	21,272	42,291	20,722	—	—	2,708	13,102	23,383
500 employed and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	641	9,159	19,589	38,000	2,147	99,160	198,288	98,085	318	1,271	12,808	58,005	103,684

TABLE 6. Principal Statistics classified by Type of Organization, 1963 and 1964

Type of organization	Estab-lish-ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1963													
Individual ownerships	172	419	839	1,339	111	2,594	5,940	3,302	166	676	446	1,437	3,332
Partnerships	47	178	352	613	51	1,651	3,402	1,736	103	409	208	749	1,781
Incorporated companies	328	8,195	17,296	33,225	1,723	84,130	165,085	80,322	...	...	11,801	51,949	85,742
Co-operatives .....	—	—	—	—	—	—	—	—	...	...	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	4	20	(--)
Totals	547	8,792	18,488	35,177	1,886	88,374	174,427	85,359	269	1,085	12,459	54,155	90,854
1964													
Individual ownerships	232	450	918	1,624	156	3,241	7,349	3,965	232	915	475	1,707	3,996
Partnerships	40	130	262	494	48	1,038	2,477	1,391	86	356	140	522	1,417
Incorporated companies	369	8,579	18,409	35,882	1,942	94,882	188,461	92,729	...	...	12,193	55,776	98,271
Co-operatives .....	—	—	—	—	—	—	—	—	...	...	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	641	9,159	19,589	38,000	2,147	99,160	198,288	98,085	318	1,271	12,808	58,005	103,684

TABLE 7. Calculation of Output, Input and Value Added, 1963 and 1964

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1963	1964	1963	1964	1963	1964
	\$'000					
Output						
1. Shipments and other revenue	174,427	198,288	13,854	16,364	188,281	214,652
Inventories—Goods of own manufacture:						
Add closing—Goods in process	4,274	6,336	...	...	4,274	6,336
Finished goods	6,350	4,234	...	...	6,350	4,234
Deduct opening—Goods in process	3,890	5,047	...	...	3,690	5,047
Finished goods	5,741	4,419	...	...	5,741	4,419
2. Net inventory change	1,193	1,104	...	...	1,193	1,104
3. Gross output (1 + 2)	175,620	199,392	13,854	16,364	189,474	215,756
Input						
4. Purchases of goods not of own manufacture .....	...	...	7,607	10,265	7,807	10,265
Inventories—Goods not of own manufacture:						
Add opening .....	...	...	627	960	627	960
Deduct closing .....	...	...	1,008	1,300	1,008	1,300
5. Cost of goods sold (not of own manufacture) .....	...	...	7,426	9,925	7,426	9,925
6. Materials, supplies, etc.	88,374	99,160	933	839	89,307	99,999
7. Fuel and electricity	1,886	2,147	...	...	1,886	2,147
8. Gross input (5 + 6 + 7)	90,260	101,307	8,359	10,764	98,619	112,071
Value added (3 - 8)	85,359	98,085	5,495	5,599	90,854	103,684

TABLE 8. Employment and Payroll, 1963 and 1964

Year and province	Employees										Salaries and wages				
	Production and related workers				Adminis- trative and office		Sales and distribution		Total		Production and related workers		Adminis- trative and office	Sales and distri- bution	Total
	Manufacturing		Other												
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Manufac- turing	Other			
number										\$'000					
1963															
Newfoundland	x	x	—	—	x	x	x	—	x	x	x	—	x	x	x
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	82	1	14	—	22	8	9	—	127	9	236	52	117	36	441
New Brunswick	x	x	—	—	x	x	x	—	x	x	x	—	x	x	x
Quebec	2,636	34	85	—	486	132	233	25	3,440	191	9,789	340	3,202	1,236	14,566
Ontario	4,091	235	86	6	1,073	370	460	88	5,710	699	18,329	434	7,507	3,095	29,366
Manitoba	182	10	—	—	39	9	16	—	237	19	720	—	284	97	1,101
Saskatchewan	60	—	—	—	13	2	1	—	74	2	194	—	70	10	274
Alberta	976	37	9	—	177	63	59	4	1,221	104	3,811	40	1,172	339	5,363
British Columbia	403	5	—	—	95	24	32	1	530	30	1,967	—	637	208	2,812
Yukon and Northwest Terri- tories	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	8,469	323	194	6	1,915	611	823	118	11,401	1,058	35,177	866	13,038	5,074	54,155
1964															
Newfoundland	36	5	—	—	7	2	4	—	47	7	117	—	35	21	174
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	102	5	—	—	21	11	18	—	141	16	358	—	129	63	549
New Brunswick	18	—	—	—	2	3	6	—	26	3	48	—	20	23	91
Quebec	2,751	31	—	—	560	141	187	26	3,498	198	10,801	—	3,854	1,274	15,730
Ontario	4,329	243	2	—	1,061	392	507	77	5,899	712	20,298	10	7,940	3,534	31,781
Manitoba	234	7	—	—	52	17	24	—	310	24	883	—	348	141	1,372
Saskatchewan	63	2	—	—	15	3	3	—	81	5	234	—	84	12	331
Alberta	845	57	—	—	202	79	77	2	1,124	138	3,212	—	1,388	410	5,010
British Columbia	428	3	—	—	92	25	29	2	549	30	2,049	—	675	244	2,966
Yukon and Northwest Terri- tories	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	8,806	353	2	—	2,012	673	855	107	11,675	1,133	38,000	10	14,273	5,723	58,005

TABLE 9. Production and Related Workers, — Manufacturing Activity, 1963 and 1964

Month	1963		1964	
	Male	Female	Male	Female
	number			
Establishments reporting monthly detail (large establishments only):				
January	6,431	205	6,601	243
February	6,325	212	6,643	246
March	6,302	216	6,717	276
April	6,628	246	6,790	295
May	6,984	298	7,096	325
June	7,241	347	7,546	344
July	7,497	354	7,633	352
August	7,642	334	7,828	391
September	7,576	369	7,785	376
October	7,450	376	7,854	450
November	7,153	347	7,869	417
December	6,497	287	7,616	356
Averages	6,974	300	7,341	335
Establishments reporting annual averages (small establishments only)	1,495	23	1,465	18
Average for all establishments	8,469	323	8,806	353

TABLE 10. Inventories, 1964

Province	Manufacturing				Non-manufacturing	Total inventories
	Materials, supplies, etc.	Goods in process	Finished goods of own manufacture	Total	Products or materials purchased for resale	
book value \$'000						
Opening:						
Newfoundland	58	—	—	58	—	58
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	207	33	30	270	85	355
New Brunswick	22	6	6	34	—	34
Quebec	5,730	984	615	7,329	66	7,394
Ontario	9,395	3,474	3,265	16,134	781	16,916
Manitoba	502	205	28	736	25	761
Saskatchewan	102	20	3	125	3	127
Alberta	2,206	175	426	2,807	—	2,807
British Columbia	841	150	45	1,035	—	1,035
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	19,063	5,047	4,419	28,528	960	29,488
Closing:						
Newfoundland	39	—	—	39	—	39
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	197	27	36	259	66	326
New Brunswick	23	4	10	36	—	36
Quebec	6,289	1,557	610	8,456	95	8,551
Ontario	10,278	4,126	2,965	17,369	1,122	18,492
Manitoba	424	172	47	642	10	653
Saskatchewan	110	61	4	176	3	179
Alberta	2,928	255	513	3,697	3	3,699
British Columbia	932	133	49	1,115	—	1,115
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	21,220	6,336	4,234	31,789	1,300	33,089

TABLE 11. Purchased Fuel and Electricity Used in Manufacturing Activity, 1963 and 1964

Description	1963		1964	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Large establishments reporting commodity detail:				
Bituminous coal:				
(a) From Canadian mines	ton	166	147	2
(b) Imported	"	157	268	4
Sub-bituminous coal (from Alberta mines only)	"	—	—	—
Anthracite coal	"	79	82	2
Lignite coal	"	—	—	—
Coke	"	6	6	—
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	1,123,322	1,202,163	475
Fuel oil including kerosene or coal oil	"	1,773,860	1,707,817	244
Wood	cord	3	—	—
Gas:				
(a) Liquefied petroleum gases	Imp. gal.	13,682	15,007	5
(b) Other manufactured gas	M cu. ft.	—	—	—
(c) Natural gas	"	209,116	365,333	280
Other fuel .....		...	...	—
Electricity purchased	kwh.	44,368,020	49,658,786	627
Steam purchased .....		...	...	5
2. Small establishments not reporting commodity detail:				
Estimate for fuel and electricity		413	...	203
3. All establishments:				
Total fuel and electricity used		1,886	...	2,147

TABLE 12. Materials and Supplies - Manufacturing Activity, 1963 and 1964

Description		1963		1964	
		Quantity	Cost	Quantity	Cost
			\$'000		\$'000
1. Materials used:					
Castings (rough and semi-finished received from foundry):					
Iron (gray and malleable)	ton	956	197	1,156	232
Steel	"	215	61	1,427	307
Steel (except alloy):					
Bars	"	49,192	6,733	70,943	9,051
Plates	"	8,816	1,418	8,002	1,297
Sheets:					
Plain	"	30,315	5,003	39,186	6,132
Aluminized	"	146	25	181	32
Galvanized	"	15,119	2,572	20,244	3,864
Tinplate	"	199	33	78	14
Strip	"	6,834	746	5,339	860
Structural shapes (unfabricated)	"	27,655	5,112	38,938	6,921
Wire	"	817	163	836	183
Alloy steel in all forms:					
Stainless:					
Billets, bars and rods .....		...	128	...	227
Other .....		...	518	...	515
Other alloy and tool steel (including carbon, alloy and high speed steels):					
Billets, bars and rods .....		...	52	...	61
Other iron and steel .....		...	1,502	...	1,886
Non-ferrous metals:					
Aluminum:					
Castings	lb.	335,461	167	3,961,052	1,968
Extrusions	"	34,256,580	17,504	31,145,618	15,011
Sheet	"	7,265,066	3,042	11,484,188	4,917
Other forms	"	6,926,506	2,576	13,518,911	4,557
Brass and bronze	"	429,796	230	390,637	216
Copper:					
Sheet	"	19,176	12	11,605	7
Wire	"	8,250	5	6,890	5
Other forms	"	60,214	52	175,793	101
Lead	"	10,932	2	41,970	9
Tin	"	5,000	3	5,000	3
Zinc	"	58,000	26	40,231	16
Babbitt metal and solders	"	27,836	14	31,131	14
Other non-ferrous metals .....		...	4	...	10
Paints, oils and varnishes .....		...	601	...	708
Lumber	M bd. ft.	13,768	1,845	14,727	2,071
Frit, for enamelling	lb.	477,245	119	473,480	96
All other materials and components used ¹ .....		...	33,241	...	32,729
2. Containers and other packaging materials and supplies used					
		...	525	...	632
3. Operating, maintenance and repair supplies used (excluding fuel)					
		...	1,778	...	1,958
4. Amount paid out to others for work done on materials owned by establishments.....					
		...	2,363	...	2,551
Totals .....		...	88,374	...	99,160

¹ No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$10,155,600 in 1963 and \$11,563,877 in 1964.

TABLE 13. Shipments of Goods of Own Manufacture, 1963 and 1964

Description	Value	
	1963	1964
	\$'000	
1. Products:		
Architectural metal work:		
Aluminum	7,611	7,838
Brass and bronze	689	491
Iron and steel	32,067	40,091
Stainless steel	1,332	1,287
Awnings:		
Aluminum	1,458	1,177
Steel	1	1
Other	1	134
Doors, metal:		
Commercial and industrial:		
Aluminum	6,286	5,338
Steel	3,691	4,687
Other	463	2,295
Residential, including garage:		
Aluminum	2,449	2,251
Steel	1,825	1
Other	1	1
Metal combination screen and storm doors:		
Aluminum	8,291	8,698
Steel	557	269
Door frames, metal	2,171	3,067
Flooring, open steel	1,479	2,010
Lockers and shelving	458	956
Metal lath and corner bead	1	1
Partitions:		
Aluminum	140	157
Steel	3,601	4,257
Windows, excluding combination screen and storm:		
Aluminum	19,034	24,014
Steel	2,427	2,975
Windows, other (combination screen and storm):		
Aluminum	17,278	18,424
Steel	1,087	1
Window units, hermetically sealed	2,623	2,357
Panels, parts or sections for prefabricated buildings, not sold as complete units	1	1
Prefabricated and portable metal buildings, complete units (in sections or panels), (utility buildings, dwellings, garages, etc.)	12,599	12,393
Prefabricated exterior metal panels (curtain wall, sandwich panels and single faced panels)	4,187	3,821
Rolled formed sections	2,499	3,347
Window screens, with metal frames	881	720
Structural and architectural metal products, other	15,808	24,572
All other products	20,981	21,203
2. Amount received in payment for work done on materials and products owned by others	1,025	421
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above	(570)	(962)
Net adjustment for establishments receiving progress payments	-	-
Total adjusted value of shipments and work done	174,427	198,288

¹ Included with "Structural and architectural metal products, other".

TABLE 14. Shipments of Selected Goods of Own Manufacture - All Industries
(Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed)

A. Metal Windows, 1955-64
Residential, factory and commercial use

Year	Aluminum	Steel	Combination screen and storm		Hermetically sealed
			Aluminum	Steel	
			\$'000		
1955	12,304	2,903	5,686	720	1
1956	13,193	5,107	6,710	2	1
1957	19,441	4,931	7,399	2	1
1958	22,416	4,245	8,877	2	1
1959	22,152	4,036	12,051	2	1
1960	11,453	5,650	15,847	2	5,851
1961	17,663	4,378	15,147	2	9,394
1962	17,905	4,519	13,360	2	12,506
1963	19,785	3,802	17,631	2	14,108
1964	24,852	3,159	18,907	2	16,629

B. Prefabricated and Portable Metal Buildings and Prefabricated Panels, 1960-64

Year	Prefabricated and portable metal buildings, complete units (in sections or panels)	Prefabricated exterior metal panels (curtain wall, sandwich panels and single faced panels) ¹
	\$'000	
1960	7,355	6,411
1961	6,559	5,992
1962	12,200	7,812
1963	19,236	8,554
1964	18,095	9,771

C. Metal Doors, 1960-64

Year	Commercial and industrial including overhead		Residential including garage		Combination screen and storm	
	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel
	\$'000					
1960	2,248	5,431	1,208	2,610	8,050	287
1961	4,330	3,946	822	1,733	8,984	361
1962	7,089	4,556	888	1,627	7,407	576
1963	7,528	5,267	3,078	2,011	8,296	557
1964	6,707	6,026	2,271	1,040	8,773	307

D. Lockers, Shelving and Partitions, 1960-64

Year	Lockers and shelving	Partitions	
	Aluminum and steel	Aluminum and steel	Wood
	\$'000		
1960	9,445	6,276	..
1961	9,549	6,574	..
1962	12,298	7,646	..
1963	13,277	7,573	..
1964	13,316	7,303	1,595

¹ Included in other categories prior to 1960.

² Included in "Steel", column 2.

³ Includes panels, parts or sections for prefabricated buildings not sold as complete units.

List of Establishments classified to This Industry, 1964

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

Name	Location
Newfoundland:	
Coady's General and Ornamental Iron Works	2 George St., St. John's
Neal, Robert Ltd.	952 Pleasantville St., St. John's
Wall, Philip & Sons Ltd.	10 George St. E., John's
Westcott's Ltd.	Cove Rd., St. John's
Nova Scotia:	
Atlantic Metal Works	Enfield
Brine Aluminum Co. Ltd.	Main St., Trenton
D.H.I. Limited	Dartmouth
Glasgow Metals Ltd.	John St., New Glasgow
Ideal Aluminum Products Ltd.	2500 Agricola St., Halifax
Kingston Aluminum Products	81 School St., Middleton
Macleod, A.G.	150 Queen St., North Sydney
Roper Aluminum Products Ltd.	484 Windmill Rd., Dartmouth
Stott Aluminum Corp. Ltd.	Welton St., Sydney
Viscount Metal Products Ltd.	13 Poplar Grove, Halifax
New Brunswick:	
Brunswick Metal Products Ltd.	R.R. # 1, Lincoln
C. and F. Building Supply Ltd.	297 Collishaw St., Moncton
Levesque Metal Works Ltd.	Saint-Jacques
Sonier Ironcraft	55 Jean St., East Saint John
Quebec:	
A. A. L. Metal Inc.	378 Ste-Anne St., St-Jérôme
Acier Warren Steel Inc.	Ville Duberger
Aero Aluminum Inc.	1030 Pelletier St., Montreal N.
Alain, A. & Cie	197 St-André St., Québec
Alcon Matériaux de Construction Inc.	5527 de Castille St., Montreal-N.
A La Vieille Forge Enr.	St-Césaire
Albert, René	Villeneuve
Alfa Ornamental Metal Inc.	11667 Letellier St., Montreal
Alsco (Montreal) Incorporated	401 Courtemanche St., Montréal
Alumcraft Corp.	4405 Côte-de-Liesse Rd., Montréal
André & Bruno Metal Works Inc.	St-Laurent
Apex Win-Dor Limited	6045 Côte-de-Liesse Rd., St-Laurent
Arvisais, Marcel Inc.	715 St-Joseph Blvd., Hull
Atelier Boivin & Fils Enr.	Chicoutimi
Atelier Isabelle Enr.	590 Mélançon St., Drummondville
Atelier Raoul Desbiens Inc.	Chicoutimi
Atelier Tremblay et Fils Enr.	78 Bagot St., Bagotville
Au Fer Battu Enr.	St-Léonard
Au Dragon Forgé	Ste-Rose
Au Fer Forgé	St-Césaire
B.K. Ornamental Iron Work Reg'd.	685 Mercille Ave., St-Lambert
Beaudoin, Julien Ltée	Daveleyville
Beaver Iron Works Co.	1412 York Lane, Montréal
Beclawat (Canada) Limited	335 Laurentien Blvd. St-Laurent
Bédard, J.B.	187 de l'Espinay St., Québec
Bégin, Gaston	St-Louis
Béland, A.C.	Victoriaville
Bell Ornamental Works Ltd.	2870 Rouen St., Montréal
Bernard Industries Enr.	10414 Balzac St., Montréal
Besmetal Industries Inc.	Cap-Rouge
Bilodeau, Yvon	Stratford Centre
Blanchette, H. Ltée	1665 Laviolette St., Trois-Rivières
Bolar Foot Grill Ltd.	4362 Forest St., Montréal N.
Bolduc, Gaston	Ville Les Saules
Bolduc, H.	339-15th St., Québec
Bonhomme, Ernest & Fils	Valleyfield
Boudreau & Fils Enr.	657 St-Roch St., Trois-Rivières
Bou langer, Laurentin Fer Ornamental	Luceville
Brelc, Marlo	20-8th Ave. N., Sherbrooke
Brochu, J.R.	4670-18th Ave., Rosemont
Brome Iron Works	West Brome
Bros, R. & D. Ornamental Metal Work Ltd.	660-90th Ave., Ville LaSalle
Bumeda Steel Products Ltd.	5075 Fullum St., Montréal
Bumac Metal Products Ltd.	432 Greenoch Ave., Mount Royal
Camire, Donald Enr.	Ville Brossard
Carazato, E. Fer-Forgé-Soudure	St-Jean
Cardinal, Jos	Ste-Anne-de-Bellevue
Caron Ornamental Enr.	9802 Hochelaga St., Montréal
Champagne, Robert	46 Albert St., Sorel
Champlain Ornamental	Ste-Marthe
Charland Iron Works Co. Ltd.	2730 Charland St., Montréal
Charron, D. & P. Enr.	Ste-Thérèse
Châteauguay Fer Ornamental Enr.	Châteauguay
Chouinard, C. & Fils	Cap-de-la-Madeleine
Chishalm Aluminum Ltd.	Ville St-Pierre
Classic Ornamental Works Inc.	St-Léonard-de-Port-Maurice
Clerk Windows Ltd.	130 Bates Rd., Montréal
Cliche, Conrad Inc.	Victoriaville
Côté Fer Ornamental	St-Zéphirin
Coulombe Ornamental Iron Works Co.	7950-55th Ave., Rivière-des-Prairies
Coupe-Froid St-Georges Enr.	Ville St-Georges-Est

List of Establishments classified to This Industry, 1964 - Continued

Name	Location
Quebec - Continued:	
Couture & Bergeron Ltée	Chicoutimi
Dario, F. & Frères	8826 Crescent #5 Ville d'Anjou
De Senneville, A. Enr.	152 Wilfrid Hamel Blvd., Québec
Desjardins Welding Inc.	Chateauguay
Des Rosiers, Marcel	370 Blain St., St-Hilaire
Dominion Steel Works Ltd.	8020 - 14th Ave., St-Michel
Dominion Tank and Mech. Works	Rivière-des-Prairies
Dorval Ornamental Iron Reg'd.	580 O'Connell Ave., Dorval
Dosco Industries Ltd. (Truscon Steel Works)	6001 Irvin St., Ville LaSalle
Dozols St-Jean Limitée	2089 Sanquinet St., Montréal
Dubeau & LaPointe Ltée	Drummondville
Dubois & Frères Enr.	825, ruelle Lokwell, Québec
Dumas, Robert	Terrebonne
Duquette & Gariépy Enr.	St-Eustache
E.T. Screen & Glass Inc.	333-9th Ave. S., Sherbrooke
English, Charles Ltd.	91 King St., Montréal
Entreprises Canapés Ltée	Ville St-Michel
Etwell & MacDonald Ornamental Iron Reg'd.	Dorval
Excelum Aluminum Products Co. Ltd.	Pont Viau
F.T.S. Enr.	2187 Charlevoix St., Giffard
Faustin, A. Co. Limited	3325 Notre-Dame St. E., Montréal
Fenêtres & Vitraux C. & M. Ltée	2995 Sartelon St., Ville St-Laurent
Fer Forgé Dorion Enr.	Dorion
Fer Forgé Moderne Enr.	115 St-Paul St., Drummondville
Fer Ornamental Laurentian Enr.	Lafontaine
Fer Ornamental St-Félicien Enr.	St-Félicien
Fer Ornamental St-Pierre Enr.	Drummondville
Forge Laurentienne Ltée	St-Félix-de-Valois
Forge Marcel Roy Enr.	L'Assomption
Forge Moderne Inc.	206 Notre-Dame St., L'Epiphanie
Forge St-Vincent Enr.	St-Vincent-de-Paul
Fortier Fer Ornamental Enr.	St-Clothilde
Foscht & Liberatore	9981 Plaza Blvd., Montréal N.
Gagné & Fils	Jonquière
Gauthier, W. & Fils Fer Ornamental	Ste-Scholastique
Gauthier & Julien Ltée	Portneuf Station
General Roll Forming Co. Ltd.	193 Laval St., Granby
Godin, J.P. & Fils	920 Montcalm St., Sorel
H.A.Z. Aluminum Window Enr.	2540 Lyall St., Montréal
H & B Products Mfg. Co. Ltd.	15701 Sherbrooke St. E., Montréal
Harvey, Doug Ltd.	6045 Western St., Montréal
Hébert Fer Ornamental	1142 Hickson St., Verdun
Héroux, Lols & Fils Ltée	50 Mondor St., St-Hyacinthe
Hull Iron & Steel Works	185 Richer St., Hull
Industrial Iron Works	52 Delorimier St., Hull
J.D. Steel Works Co. Ltd.	3811 Dickens St., St-Michel
J.M. Aluminum Enr.	Laval-des-Rapides
Jacques Cartier Iron Works Ltd.	Ville Jacques-Cartier
Jelmini Angelo Inc.	395-10th Ave. St., Sherbrooke
Joyal, Jean-Yves Fer Ornamental	St-Majorique
Lachine Forge Enr.	629 George V St., Lachine
Labra-Door Ltd.	Rawdon
La Cie D'Exploitation d'Aluminium Ltée	12040 Lachapelle St., Montréal
La Cie de Fer Forgé Laurentides	Charlesbourg
Lacroix, Henri-Louis	Lac Mégantic
Lafond, Ephrem	St-Denis-sur-Richelieu
Lafond & Bergeron Cie Ltée	2454 Des Carrières St., Montréal
La Forge Artistique Enr.	Farham
La Forge d'Art	1665 Démonigny St. E., Montréal
La Forge du Nord Enr.	128 Grande Côte St., St-Eustache
La Forge Longueuil Enr.	Longueuil
La Forge Moderne Enr.	Cap-de-la-Madeleine
La Forge Parrot	258 St-Denis St., St. Lambert
Langlois, L. Fer Ornamental	Valleyfield
Lapinière Structural Steel Reg'd.	St-Hubert
Larouche, Georges	Amqui
Larouche, Willie Fer Ornamental	40 Léonidas St., Rimouski
Larue, Gérard	53 St-Paul St., Sorel
LaSalle Welding Inc.	2000 Falardeau St., Montréal
Laurentide Metal Inc.	1680 Dorchester St. N., Québec
Lauzière Fer Ornamental Enr.	St-Jean
Lavergne Industries Enr.	1281-7th Ave., Grand-Mère
La Vieille Forge	Rouyn
La Vieille Forge Enr.	389 Cartier St., Chicoutimi
Lavoie, Victorien	Jonquière
Leclerc & Leclerc Enr.	Giffard
Les Entreprises J. Perrault Inc.	8752-8th Ave., St-Michel
Les Frères Lebrun Ltée	3065 Royal Blvd., Trois-Rivières
Les Feronniers	Hauterive
Les Industries Super-Métal Inc.	655 Bertrand Blvd., Québec W.
Les Produits Desco Ltée	St-Jean
Les Profiles d'Aluminium du Saguenay Ltée	23 Père Honorat St., Chicoutimi
L'Islet Ornamental Enr.	L'Isletville
Locweld & Forge Products (1961) Ltd.	1545 Cabot St., Montréal
Lord & Fils Cie Limitée	2691 Delormier St., Jacques-Cartier
M.G. Architectural Iron Works	343 A Galt Ave., Verdun
M. & M. Manufacturing Inc.	3618 Louis Veillot St., Montréal
M. & S. Metal Works Reg'd.	St-Hyacinthe
Maheux, Gédéon	St-Joseph-de-Beauce
Main Iron Works Limited	4881 St. Lawrence Blvd., Montréal

List of Establishments classified to This Industry, 1964 - Continued

Name	Location
Quebec - Continued:	
Marchand, Adéland Ltée	1124 St-Valier St. E., Québec
Marcotte Steel Works Enr.	Magog
Martineau, Paul-Eugène	St-David
Max Ornamental Iron Works Ltd.	10120 Place Hôtel-de-Ville, Montréal N.
Mayo Aluminum Limited	Gatineau
Messely & Fils Inc.	495-2nd Ave., Québec
Metro Door Co. Ltd.	Ste-Geneviève
Metro Steel & Iron Works Reg'd.	8175 Durocher St., Montréal
Metropole Ornamental Iron Works Ltd.	4850 Forest St., Montréal N.
Miami Ornamental Enr.	Ville Brossard
Milbern Window Ltd.	5701 Côte-St-Paul Rd., Montréal
Modern Iron Works Ltd.	9655 St-Urbain St., Montréal
Molina Fer Ornamental Ltée	St-Léonard-de-Port-Maurice
Monière & Frères	8511 Chateaubriand St., Montréal
Montcalm & Langlois Enr.	Drummondville
Montreal Forged Products	6900 Papineau St., Montréal
Montreal Iron Works Corp.	4405 Côte-Liesse Rd., Montréal
Montreal Ornamental Metal Work	10645 Lamoureux St., Montréal N.
National Ornamental Iron Works	2327 Déloir St., Montréal
Noel Ornamental Enr.	St-Rémi
Olympic Aluminum Mfg. Ltd.	129 Van Horne St., Montréal
Ornamental Metal & Machine Works Ltd.	4405 Côte-de-Liesse Rd., Montréal
Par Metal Enr.	380 Joly St., Québec
Paré R. Ornamental Iron Products	7355 Lévesque St., Ville d'Anjou
Pelchat, J.G.	St-Romuald
Pelchat, André	606 Cowie St., Granby
Perrault, Paul-Emile	1378 De La Terrière St., Trois-Rivières
Picard, W & Fils Enr.	Ste-Louise
Pitre & Fils	Boucherville
Pointe-Claire Ornamental Iron Works	22B St-Joachim St., Pointe-Claire
Poulin, J.A. & Fils	950 Panneton St., Sherbrooke
Poulin J.B. Inc.	150-5th St., Québec
Prescott Iron Works Ltd.	10050 Plaza St., Montréal-Nord
Prevost, A. & D. Ltd.	305-12th Ave., Richelieu
Prodal Inc.	St-Eustache
Prompt Ornamental Metal Works	2075 Théodore St., Montréal
R.M.P. Québec Limited	102 Elmstie St., LaSalle
Racine, Léon, Enr.	261 Christophe Colomb St. E., Québec
Raymond Manufacturing Co. Ltd.	475 Metropolitain Blvd., Lachine
Reno Metal Specialities Ltd.	8577 10th Ave., St-Michel
Rivard, Fabien	2050 Cartier St., St-Hyacinthe
Robitaille, Jacques	Orsainville
Rodrigue, A.	Plessisville
Rodrigue & Frère Ornamental Ltée	36 Dorchester St. S., Québec
Roy Fernando, Fer Ornamental	Laval-des-Rapides
S. & P. Ornamental Iron Work	6525 Lafayette Blvd., Duvernay
Saguenay Decoration	Bagotville
Serafini Ornamental Works Red'g.	214 Bourget St., Montreal
Sergerie Fer Ornamental	Ste-Ursule
Shalvin Co.	550-104th St., Shawinigan
Sherbrooke Structural Industries Co. Inc.	390-10th Ave., Sherbrooke
Silverman Architectural Iron Work	4134 Colonial Ave., Montreal
Silverman Architectural Iron Works	4324 Colonial Ave., Montréal
South Ornamental & Iron Work	5840 Kimber Blvd., St-Hubert
St-Arnaud & Fils Fer Ornamental	771-11th Ave., Grand'Mère
St-Denis Ornamental	3460 Industrial St., Montreal
St-Eustache Ornamental Iron Works	St-Eustache
St-Germain & Perrault Fer Ornamental	5365 Henri Julien St., Montréal
St. George Metal Inc.	St-Georges E.
St. Hilaire-Fernando	1234 Vincent Massey St., Québec
St-Michel Ornamental Inc.	9960 Paris St., Montreal
St-Michel Overhead Door Enr.	St-Michel
St-Pierre Ornamental	St-Jean-Port-Joli
Standard Iron Works Ltd.	442 Beaumont Ave., Montréal
Stuart Bros. Ornamental Iron Works	Laval-Ouest
Therrien & Frères Inc.	343-10th Ave. S., Sherbrooke
Thibault, L.S. Philippe	Bale-St-Paul
Tracy Metal Enr.	Tracy
Tremblay, Adéodat	Hauterive
Tremblay, Jacques Fer Ornamental	59 St-Joseph Blvd., Hull
Tremblay, Rosario	Alma
Trigor Metal Inc.	4405 Chamblay Rd., St-Hubert
Tri-Steel Fabricators Ltd.	12 Des Seigneurs St., Montréal
Trotier Metal Inc.	Ste-Anne-de-la-Pérade
Tru-Seal Mfg. Inc.	7970-56th Ave., Montréal
Ungava Steel Ind. Ltd.	Rivière des Prairies
Unicel Inc.	4146 Majeau St., Montréal
United Metal Works Reg'd.	431 St-Joseph St., Lachine
Universal Ornamental Steel Works Reg'd.	St-Léonard-de-Port-Maurice
Valley Forge Iron Work Co. Ltd.	9950 London St., Montréal
Valley Steel & Architectural Iron Work Co.	Valleyfield
Vendome Metal Works	4340 Hogan St., Montréal
V.D. General Metal Works Ltd.	9484 Hamelin St., Montréal
Verdun Ornamental Iron Works Ltd.	1146 Hickson St., Verdun
Victor General Contractors	2137 Bleury St., Montréal
Victoria Ornamental Metal Works	8975 Park Ave., Montréal
Ville Emard Ornamental Iron Works Reg'd.	6363 Jogues St., Montréal
Ville LaSalle Welding	7708 George St., LaSalle
Warner Weathermaster Limited	Ste-Rose

List of Establishments classified to This Industry, 1964 - Continued

Name	Location
Quebec - Concluded:	
Waverly Ornamental Works Limited	7010 Marconi Ave., Montréal
Wellington Metal Inc.	4902 Gouin St. E., Montréal N.
Westeel Products Limited	4107 Richelieu St., Montréal
Windoors, Inc.	10625 Georges Pichet St., Montréal N.
Wilson, J.T. & Co. Limited	4755 Industrial Blvd., Montréal
Ontario:	
A.A.A. Ornamental Iron Co.	65 Wolseley St., Toronto
Ace Ornamental Iron & Metal Products	475 Queen St. E., Toronto
Acme Iron Co.	11 Bishop St., Toronto
Adams, S.D. Welded Products Ltd.	Sackville Rd., Sault Ste Marie
Adanac Ornamental Iron Works Ltd.	836 Upper James St., Hamilton
Advance Railing Co.	74 Niagara St., Toronto
Aerloc Aluminum Products Ltd.	Dundas
Ahmac Aluminum Products Ltd.	Sunnyhorst & Idiewilde Sts., Fruitland
Air Master of Canada Ltd.	49 Metcalf St., St. Thomas
Air Shade Aluminum Products Ltd.	Napanee
Albern Aluminum Mfg. Co.	1300 Ellsmere Rd., Scarborough
Albis Iron & Steel	37 Cosentino Dr., Scarborough
Al-Mould Mfg. Co. Ltd.	Kennedy Rd., Unionville
Alumacraft Mfg. Co.	3346 Dundas St. W., Toronto
Aluminum Window Manufacturing Ltd.	34 Penn Dr., Weston
Architectural Aluminum Co. Ltd.	1015 York Blvd., Burlington
Arco Iron & Fence Co. Ltd.	455 Barton St. E., Stoney Creek
Art Fixtures & Metal Co. Ltd.	197-30th St., Toronto
Art Wire & Iron Co. Limited	3 Carlaw Ave., Toronto
Artistic Railings	99 Milvan Dr., Weston
Astro Ornamental Welding	950 Howard Ave., Windsor
Atlas Window Co.	2507 Wharton Glen Ave., Cooksville
Ayr Welding	Ayr
Bell, P. Graham Associates Limited	Armstrong Ave., Georgetown
Berry, Stanley Ltd.	Wingham
Bestway Aluminum Windows & Doors	29 Musgrave St., Toronto
Borden Metal Products (Canada) Ltd.	Beeton
Border Cities Wire & Iron Ltd.	961 Walker Rd., Windsor
Both, Ltd.	7 A. Kelfield St., Rexdale
Braun, A.J. Mfg. Ltd.	285 Victoria Ave., Kitchener
Brockhouse, J. & Co. (Canada) Ltd.	542 Evans Ave., Toronto
Butler Mfg. Co. (Canada) Ltd.	3455 Queen Elizabeth Way, Burlington
C.B. Wrought Iron Mfg. Ltd.	154 Bentworth Ave., Toronto
C.S. Construction Specialties Ltd.	895 Thermal Rd., Port Credit
Cameron Windows (Aluminum) Limited	142 Kennedy Rd. S., Brampton
Camsteel Limited	909 Dixon Rd., Toronto
Canadian Crittall Metal Window Limited	685 Warden Ave., Scarborough
Canadian Door Co.	30 Eugene St., Toronto
Canadian Met-Craft Industries Ltd.	366 King St. N. Waterloo
Canadian Ornamental Iron Co. Ltd.	77, Rivalda Rd., Weston
Canadian Panels Ltd.	25 Newbridge Rd., Toronto
Canadian Pittsburg Ltd. (Metal Fabrication Div.)	1155 Wellington Rd. S., London
Carleton Iron Works Ltd.	91 Young St., Ottawa
Casewin Co. Limited	Portland & Windsor Sts., Mimico
Central Steel Fabricators Ltd.	5 Gertrude St., Hamilton
Central Steel Works	241 Lansdowne St. E., Peterborough
Central Welding Works	1267 Fisher St., North Bay
Chatham Venetian Blind	650 Grand Ave. E., Chatham
China Plating & Ornamental Iron Works	68 Railroad Ave., Sault Ste. Marie
Clark's Custom Metal Mfg.	247 Berwick St., Caledonia
Cleland Metal Products Ltd.	464 Welland Ave., St. Catharines
Cleland Iron Works Ltd.	Russell and Bagot Sts., Kingston
Clines Ornamental Iron Works	Victoria Ave., Stevensville
Columbus Ornamental Steel	245 Bering Ave., Toronto
Commercial Alum. Products Ltd.	130 Oakdale Rd., Downsview
Compo-Miracle Products (Canada) Ltd.	Tilbury
Continental Railing Co.	1166 Dundas St. W., Toronto
Crawford Manufacturing	178 Forward Ave., Ottawa
Cronier, Jack Iron Works	53 Young St., Ottawa
Cunningham & Lea Limited	681 Warden Ave., Scarborough
Custom Ornamental Iron & Fence Co. Ltd.	357 South St., Windsor
D.H.I. Limited	6 Holtby Ave., Brampton
Daycan Limited	20 Brydon Dr., Rexdale
Dayside Industries Ltd.	2258 Mountainside Dr., Burlington
Delux Aluminum Products Ltd.	Agincourt
Devon Metal Products Ltd.	192 Geary Ave., Toronto
Dezen Aluminum Windows & Doors	31 Windsor St., Toronto
Diamond Windows & Doors Mfg. Co. Ltd.	165 Geary Ave., Toronto
Dilibero, Nick Iron Works	414 Bridge St., Niagara Falls
Direct Supply Mfg. (Port Arthur) Ltd.	561 - 10th Ave., Port Arthur
Dominion Aluminum Fabricating Ltd.	36 Coronet Rd., Toronto
Dominion Iron & Welding-Works	1551 Michael St., Ottawa
Donald Iron Works	29 Lewis St., Port Erie
Donn Products (Canada) Ltd.	140 Rebecca St., Oakville
Dorvue Aluminum Industries Ltd.	124 Cartwright Ave., Toronto
Downsview Iron Work Ltd.	147 Oakdale Rd., Downsview
Dual Temp Products Limited	604 Dundas St., Woodstock
Dumont Aluminum Limited, The	709 Main St. W., Hamilton
Dunco Limited	1 Hafis Rd., Toronto
Dundas Iron & Steel Limited	58 Fieldway Rd., Toronto
Duo Temp (Niagara) Ltd.	105 Merrit St., St. Catharines
Durable Aluminum Greenhouse Co.	917 Upper James St., Hamilton
Dunaglas Industries Ltd.	1160 Albert Rd., Windsor

List of Establishments classified to This Industry, 1964 - Continued

Name	Location
Ontario - Continued:	
Eastview Iron Works	72 Ste-Cécile St., Eastview
Eberhard & Shives Ltd.	625 Maitland St., London
Edmor Manufacturing Ltd.	10 Gall Grove Ave., Weston
Emery Glass & Aluminum Ltd.	2400 Finch Ave. W., Weston
Etobicoke Ironworks Ltd.	157 Rivalda Rd., Weston
Everlast Storm Co.	7 Kelfield St., Rexdale
Fashion Grilles Limited	70 Colville Rd., Toronto
Ferro Structural Steel (Toronto) Ltd.	Georgetown
Fisher & Ludlaw (Canada) Ltd.	737 Church St., Toronto
Flangekamp of Canada Ltd.	72 Vine St., St. Catharines
Fleetway Aluminum Mfg. Co. Ltd.	1557 St. Laurent Blvd., Ottawa
Fleming, S.W. & Co. Ltd.	49 Howden Rd., Scarborough
Fort Aluminum Ind. Ltd.	Collens Bay
Four Seasons Aluminum Products Ltd.	62 Calville Ave., Toronto
Frank, G.R. Metal Works	554 Montrose Rd., Niagara Falls
Freeman & Son	893 Yonge St., Toronto
Gartner Steel Products Mfg.	Industrial Rd., Preston
Gem Aluminum Mfg. Co. Ltd.	1170 Dundas St. W., Toronto
General Metalcraft	Belmont
Glencoe Steel Fabricators	Glencoe
Golden Triangle Bldg. Supply Ltd.	276 Maple Ave., Kitchener
Grand Valley Ornamental	Prince Charles Rd., Cainsville
Guard-All Aluminum Products Ltd.	34 Belvia Rd., Toronto
Gunsch, Otto	1054 Margaret St., London
H. & B. Enterprise (Canada) Limited	58 Crockford Blvd., Scarborough
H. & K. Steel Fabricating Ltd.	2380 Haines Rd., Cooksville
Hamilton Guild of Metal crafts Ltd., The	110 Queen St. N., Hamilton
Hamilton Ornamental Iron Works Ltd.	99 Clinton St., Hamilton
Harrison Metal Works Ltd.	Midland
Hauseman Limited	25 Mallard Rd., Don Mills
Higging Homeshield Limited	134 Park Lawn Rd., Toronto
Hildebrandt Iron Works	107½ Welland Ave., St. Catharines
Hodgsons Steel & Iron Works	Kalar Rd., Niagara Falls
Holtrop's Steel & Iron Works	Mount Hope
Ideal Aluminum Products	30 Eugene St., Toronto
Ideal Ornamental Metal Craft	45 Southport, Toronto
Imperial Steel	Winona
Jacquemain & Sons Ltd., G.V.	29 Kelfield Rd., Etobicoke
Jalwin Sales Limited	234 Norseman St., Toronto
Jensen Welding & Steel Supply Ltd.	66 Russett Ave., Oshawa
Jet Metal Products Limited	38 Milvan Dr., Weston
K.W. Ornamental Iron Works	25 Weber St. N., Waterloo
Kah, Philip	192 Lansdowne Ave., Kingville
Kaiser Aluminum & Chemical Corp.	191 Ashtonbee Rd., Scarborough
Kawneer Co., Canada Limited	1051 Ellsmere Rd., Scarborough
Kendall Bronze & Ironworks Limited	2481 Dufferin St., Toronto
Kern, D. Ornamental Iron Works	5 King St. E., Catham
Kinnear Manufacturing Co. of Canada Ltd.	360 Montrose St. N., Preston
Kitchener Forging Co.	612 Victoria St. N., Kitchener
Kromek Steel	230 Bloor Lane Sudbury
L.S. & Dick Co. Ltd.	2536 Dougall Ave., Windsor
Lamb Industries of Canada Ltd.	6161 Tecumseh Rd., Windsor
Lanark Sheet Metal Works Ltd.	17 Tangiers Rd., Downsview
Lau, Ed. Iron Works Ltd.	115 Whitney, Kitchener
Leaside Iron & Ornamental Co. Ltd.	71 Howden Rd., Scarborough
Leesan & Baxter	75 - 32nd St., Toronto
Luckmor Ornamental Iron Works	4097 Sheppard E., Scarborough
MacFaydens Real Seal Industries	2824 Danforth Ave., Toronto
Macotta Co. of Canada Limited	1190 Kipling Ave. N., Rexdale
Maier Iron Works	47 Maple Ave., Thornhill
Mantis Metal Mfg. Ltd.	1120 Dubeau St., Cyrville
Maple Leaf Iron Works	7 Maple Ave., Richvale
Master Seal Sash Ltd.	Cainsville
Metalsmiths Co. Ltd.	110 Laird Dr., Toronto
Metro Metal Craft	282 Raleigh Ave., Scarborough
Model Railing Ltd.	118 Manville Rd., Scarborough
Modern Craft (Ontario) Ltd.	8 Bermondsey Rd., Toronto
Modern Ornamental Iron Works	16 Macallum St., Hamilton
Modern Railings & Metal Craft Ltd.	58 Hymus Rd., Scarborough
Modern Steel & Iron Works (Niagara) Ltd.	Clark & Robinson Sts., Niagara Falls
Nash Aluminum Ltd.	95 Athol St. E., Oshawa
Newtonbrook Iron Works	Gormley
Norris Iron Works Ltd., The	818 Eastern Ave., Toronto
Northern Ornamental Iron Works	388 Pine St. S., Timmins
Northwestern Sheet Metal Works Co. Ltd.	400 A Hopewell Ave., Toronto
Nothof, E. & Sons	145 Albert St., London
Ontario Railings Co.	7 Magnificent Rd., Toronto
Ornamental Iron	Cataraugit
Oshawa T.V. Supply Limited	361 Gibbons St., Oshawa
Ottawa Iron Works Ltd.	256 McArthur Rd., Eastview
Pengelly Iron Works Limited, The	47 Rivalda Rd., Weston
Peninsula Iron Works (Div. of Norm Crawford Enterprises Ltd.)	1654 Glenholme Ave., Niagara Falls
Penn Metal Products Co.	67 Penn Dr., Weston
Pickering Ornamental Iron Co.	Station Rd., Pickering
Praesto Aluminum Products Ltd.	Brantford
Precision Seal Mfg. Ltd.	288 Bridgeland Ave., Toronto
Prince Metal Works	222 Mavety St., Toronto
Queensway Iron Works	5 Sinclair St., Toronto

List of Establishments classified to This Industry, 1964 - Continued

Name	Location
Ontario - Concluded:	
R.M.P. Industries Ltd.	1180 Caledonia Rd., Toronto
R.D.K. Aluminum Limited	Baden
Ralph's Ornamental Iron Works	2 Dunbar Ave., Hamilton
Ray Twist Ornamental Ironcraft	230 Vancouver St., London
Ray Welding Co. Ltd.	15 Fisher St., Toronto
Rebmec Ind. Ltd.	234 Birmingham St., Toronto
Regina Ornamental Iron Works Co.	17 Toro Rd., Downview
Rexdale Iron Works	41 Shaft Rd., Rexdale
Reycan Aluminum Building Products Ltd.	3605 Weston Rd., Weston
Richards-Wilcox Co., (Div. of General Products Mfg. Corp. Ltd.)	2 Terrace St., London
Riverside Fabrication & Welders	Riverside
Rocca Ornamental Iron Ltd.	950 Middlegate Rd., Cooksville
Rocket Sheet Metal Co. Ltd.	983 Rangeview Rd., Port Credit
Rolled Metal Products Ltd.	33 Jenet Ave., Toronto
Roman Railings Co. Ltd.	147 Oakdale Rd., Downsview
Romat Ornamental Iron Ltd.	111 Toryork Dr., Weston
Romsteel Limited	909 Dixon Rd., Weston
Roslyn Metal Products Ltd.	772 Warden Ave., Scarborough
Rowe Bros. & Co. (Canada) Ltd.	Hunt St., Ajax
Rusco of Canada Ltd.	750 Warden Ave., Scarborough
Samia Window Mart Ltd.	356 Christina St. S., Sarnia
Sawicki, William	St. George
Sentinel Aluminum Products Co. Ltd.	150 Railside Rd., Don Mills
Sherwood, P.A. Windows Ltd.	26 Advance Rd., Toronto
Shower Door of Canada (Div. of R.S. Titchell Sales Co. Ltd.)	3422 Bathurst St., Toronto
Shullys Automatic Heating & Cooling Co. Ltd.	73 Wingold Ave., Toronto
Smith Steel Fabricating Company	2576 St. Clair Ave. W., Toronto
Soneca Steel & Iron Works Ltd.	Grimsby
Spencer Steel Ltd.	1145 Western Rd., London
Stafford's Aluminum Ltd.	12 Tabr Rd., Rexdale
Star Aluminum Products	1281 Queen St. W., Toronto
Steelcraft Mfg. Co. of Canada Ltd.	Malton
Sterling Factories of Canada Ltd.	11 Lewis St., Fort Erie
Storm Seal Aluminum Limited	Hwy. #2, Brantford
Streamline Metalcraft Co. Ltd.	142 A Bentworth Ave., Toronto
Sudbury Steel Construction Ltd.	2273 LaSalle Blvd., Sudbury
Superior Railing	10 Hastings Ave., Toronto
T.J.C. Home Products Limited	1530 Weston Rd., Weston
Taylor Garage Doors of Canada Ltd.	35 Challenge Rd., Rexdale
Taymouth Industries Ltd.	42 Queen Elizabeth Blvd., Toronto
Thermotex of Canada	8 Toryork Dr., Toronto
Tip Top Aluminum Products Ltd.	1327 Marlin Grove Rd., Rexdale
Tope, G. & Son	Jordon
Toronto Louver Products Ltd.	12 Le Page Court, Downsview
Toronto Steel Fabricators	2215 Midland Ave., Scarborough
Toronto Window Mfg. Co. Ltd.	165 Centre St., Richmond Hill
Trudel & McAdam Ltd.	37 Greenfell Cr., Ottawa
Twin-Lock Iron Works Ltd.	279 Oakdale Ave., St. Catharines
Universal Sections & Mouldings Ltd.	100 Canadian Rd., Scarborough
United Fabricators Ltd.	2057 Oxford St. E., London
United Steel Corp. Ltd.	89 Torlake Crescent, Toronto
Vampco Aluminum Products Ltd.	456 Albert St., Strathroy
Vandenfelt Metal Works Ltd.	1090 Dubeau St., Cyrville
Ventil-Aire Limited	2696 St. Clair Ave. W., Toronto
Venus Aluminum Products Ltd.	11 A Thom Ave., Scarborough
Veme - Lyons Metal Industries	3 Meadow Lane, Dundas
Viceroy Aluminum Limited	Guelph
Voight, & Son	769 Little Simcoe St., London
Walter's Welding & Iron Works Ltd.	1016 Upper Wellington St., Hamilton
Weatheright Aluminum Storms	1963 Islington Ave. N., Humber Summit
Weather-Seal Manufacturing Ltd.	1149 Kennedy Rd., Scarborough
Weldcraft Company	164 Charing Cross, Brantford
Welders Ornamental	341 Lake St., St. Catharines
Wellington Welderies Limited	15 Alma St. S., Guelph
Wenger, E.	718 Ossington Ave., Toronto
Weston Metal Fabricators Limited	17 Belfield Rd., Rexdale
Weston Ornamental Iron Works Ltd.	1331 Martingrave Rd., Rexdale
Weston Steel Products Ltd.	30 Brydon Dr., Rexdale
Wilby Iron Works Ltd.	50 Church St., Weston
Willoughby, Mel	R.R. #2, Sault Ste-Marie
Win-Door Storms Ltd.	332 Horner Ave., Toronto
Window Design Ltd.	63 Jefferson Ave., Toronto
Windsor Metal Masters	2370 Central Ave., Windsor
Wonder Window	1602 Halg Blvd., Port Credit
World Steel Co. (Canada) Ltd.	Michigan Ave., Point Edward
Wrought Iron Ornamental Works	2388 B Lake Shore Blvd. W., Toronto
Wrought Iron Products	Clarke Side Rd., London
Young, K.C. & Sons	1185 Roselawn Ave., Toronto
Z-Bar Door of Canada Ltd.	1776 Midland Ave., Scarborough
Manitoba:	
Atlas Industries	Brandon
Daycan Limited	592 Roseberry St., St. James
Dominion Bronze Limited	1111 Chevrier Blvd., Winnipeg
Dominion Bronze Limited (Window Div.)	1111 Chevrier Blvd., Winnipeg

List of Establishments classified to This Industry, 1964 - Continued

Name	Location
Manitoba - Concluded:	
Dorsch Iron Works	St. Charles
Dorwin Industries (1964) Ltd.	1524 Erin St., Winnipeg
Empire Iron Works Ltd.	1001 Jarvis St., Winnipeg
General Machine & Welding Limited	St. Boniface
Henry's Iron Works	2619 Henderson Hwy., Winnipeg
Humphrey Products of Winnipeg Ltd.	611 Ferry Rd., Winnipeg
Kings Ornamental Iron Works	1898 Main St., Winnipeg
Mayfair Windows Ltd.	493 Madison St., St. James
Norwesto Aluminum Products	20 Beecher Ave., Old Kildonan
Pero Sales Ltd.	1000 Powell Ave., Winnipeg
Reimer Overhead Doors	Steinbach
Shodor Industries	763 Portage Ave., Winnipeg
Tatra Ornamental Iron Works	111 Burnett Ave., North Kildonan
Watsons Iron & Wire Works	711 Maryland St., Winnipeg
Western Tools and Industries (1960) Ltd.	St. Boniface
Wolfe's Iron Works Ltd.	291 Sherbrooke St., Winnipeg
Wrought Iron Products	634 Erin St., Winnipeg
Saskatchewan:	
Alglaze Manufacturing Ltd.	28 - 4th Ave. N.W., Swift Current
Aluminum & Allied Products Ltd.	Moose Jaw
Alumiseal Limited	805 Ave. P. South, Saskatoon
Crown Iron Co. Ltd.	1539 Elliott St., Regina
Futurama Windows (Sask.) Co. Ltd.	630 - 10th St. E., Saskatoon
Humphrey Aluminum Products	154 Albert St., Regina
Ivans Iron Railings	1464 McIntyre St., Regina
Macco Aluminum Products	Swift Current
Modern Iron Products	140 Avenue C. South, Saskatoon
Nutana Iron Works	620 Main St., Saskatoon
Ornamental Iron Works	640 Ave. M. South, Saskatoon
Stevens Aluminum Products Ltd.	634 - 10th St. E., Saskatoon
Wescab (Sask.) Ltd.	715 - 42nd St., Saskatoon
Alberta:	
Alberta Iron Works	11532 - 80th St., Edmonton
Alseco Carlton	5539 - 6th St. S.E., Calgary
Alum Awning & Window Products Ltd.	1802 - 1st St. N.W., Calgary
Anderson, Metalcraft Ltd.	10540 - 121st St., Edmonton
Art's Ironcraft	232 - 12th St. C. N., Lethbridge
Artistic Iron Works	3625 - 93rd St., Edmonton
Atco Industries Ltd.	1243 - 48th Ave. N.E., Calgary
Brays Ornamental Iron	829 - 2nd Ave. S.W., Calgary
C.K. Steel & Machinery Limited	4243 - 17th A St., Calgary
Custom Sun Screening Ltd.	1812 - 10th Ave. S.W., Calgary
Dominion Bronze Limited	14511 - 118th Ave., Edmonton
Edmonton Iron and Wire Works Ltd.	14505 - 122th Ave., Edmonton
General Tinning Co. Ltd.	10581 - 105th St., Edmonton
Gene's Welding & Fabrication	10411 - 95th St., Edmonton
Glenow Sash & Door Co. Ltd.	336 - 35th Ave. N.E., Calgary
Guido's Welding & Mfg.	1810 - 10th Ave., W. Calgary
Hollyview Aluminum Products Ltd.	11690 - 147th St., Edmonton
Humphrey Aluminum Windows Ltd.	7319 - 82nd Ave., Edmonton
Industrial Iron Works Ltd.	4020 Edmonton Trail, Calgary
Jacobs Ornamental Iron Works Ltd.	10565 - 114th St., Edmonton
Nu-Fold Doors of Canada Ltd.	9908 - 65th Ave., Edmonton
Prebult Mfg. Ltd.	Lethbridge
Precision Window & Awning	Red Deer
Quality Ornamental Iron Works Ltd.	4515 - 6th A St. N.E., Calgary
Schieve Aluminum Window & Door Ltd.	10115 - 81st Ave., Edmonton
South Side Ornamental Iron Works	7351 - 104th St., Edmonton
Universal Iron Works	201 - 3rd. S. W., Calgary
Wasu Custom Steel Mfg. Co. Ltd.	820 - 9th Ave. S.W., Calgary
Wemas Metal Manufacturing Co. Ltd.	616 - 35th Ave. N.E., Calgary
Western Aluminum Products Ltd.	2110 - 48th St. E., Calgary
Wescab Mfg. Ltd.	8910 - 125th Ave., Edmonton
Western Ornamental Iron Works	240 - 3rd Ave. S. E., Calgary
Zeidler Aluminum Products (Div. of W.R. Zeidler (1962) Ltd.)	10203 - 86th Ave., Edmonton
British Columbia:	
A.B.C. Iron Works	430 W. 5th Ave., Vancouver
Accurate Ornamental Iron Works	234 E. 4th Ave., Vancouver
All-Alume Greenhouses Ltd.	878 Anderson St., West Vancouver
Almetco Mfg. Corp. Ltd.	New Westminster
Art Iron Limited	Burnaby
B.C. Greenhouse Builders Ltd.	South Burnaby
B.C. Iron Art	Burnaby
Broadway Iron Works	1647 Kingsway, Vancouver
Chapmans Welding Shop	Courtenay
Clearbrook Ornamental Iron	Clearbrook
Cole's Iron Works	Gibsons
Crescent Iron Works	Haney
Custom Craft Ornamental Iron	North Surrey
Eckford Ironcraft	Cache Creek
Esquimalt General Repair Shop	614 Grenville Ave., Victoria

List of Establishments classified to This Industry, 1964 - Concluded

Name	Location
British Columbia - Concluded:	
European Iron Works	3869 Commercial Drive, Vancouver
Ever-Brite Aluminum Products Ltd.	1170 W-14th St., N. Vancouver
F.M. Artistic Iron Works	1575 Franklin St., Vancouver
Flexible Window Screens Co.	Richmond
General Iron Works	Langley
Helvetica Iron Works	Burnaby
Hollycraft Building Products Ltd.	New Westminster
Imperial Glass Ltd.	North Burnaby
Inlet Metal & Machining Co. Ltd.	105 Fell Ave., N. Vancouver
Ironcraft Art Metal Products Ltd.	1558 Cedar Hill Crossroad, Victoria
Ironcraft Company	1570 Boundary Rd., Vancouver
Island Ornamental Iron Works	Richmond
J.M. Iron Work	188 W. 21st Ave., Vancouver
Janzen Henry	Langley
Johnstone Fabricators Limited	1250 E. Pender St., Vancouver
Kamloops Ironcraft	Kamloops
Kenmar Ornamental Iron	Chilliwack
Kingsway Fireplace Appliances & Ornamental Metal Ltd.	996 Kingsway, Vancouver
Klenn. K.	R.R. 2 Cloverdale
Midway Wrought Iron Works	Prince George
N.K. Aluminum Products	North Kamloops
Northwest Iron Works Limited	1425 Clyde Ave., West Vancouver
Old Country Metal Craft	2948 Bridge St., Victoria
Ornamental Bronze Company Limited	1125 Vernon Drive, Vancouver
Pacific Welding & Metal Works Ltd.	5511 Roy St., North Burnaby
Pearson Wire & Iron Works Ltd.	2105 Franklin St., Vancouver 6
Penso Industries Ltd.	North Surrey
Pool-Patio & Iron Arts Supply	1422 Main St., North Vancouver
Rabco Industries Ltd.	1089 West Broadway, Vancouver
Reliance Windows Limited	950 S.W. Marine Drive, Vancouver
Riverside Iron Works Ltd.	1887 Marine Drive, North Vancouver
Royal City Welding & Iron Works Ltd.	New Westminster
Scandia Iron & Metal Works Ltd.	North Burnaby
Severson Ironworks	North Surrey
Starline Products Ltd.	White Rock
Surrey Ironworks Limited	North Surrey
Swan Metals Ltd.	652 E. Broadway, Vancouver
Swiss Canadian Ornamental Iron Ltd.	South Burnaby
Thompson Welding	2949 Bridge St., Victoria
Tony's Welding Shop	North Kamloops
Trojan Industries Ltd.	4 Huron St., Victoria
Tryson & Son Iron Works Ltd.	8975 Oak St., Vancouver 14
Weldcraft Company	North Burnaby
Wescraft Manufacturing Limited	2811 Douglas St., Victoria
Wescraft Windows Limited	North Burnaby

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 56 (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 140 publications. In addition to these annual industry publications there are annual summary reports for Canada and the provinces and special reports giving principal statistics by detailed geographic areas, by type of ownership and size of establishment. A special annual report covering the shipments of all manufactured commodities arranged in alphabetical order is also published.

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

Establishment

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

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

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

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

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

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

Head Offices and Auxiliary Units

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

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

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

(b) In the case of multi-establishment firms, the statistics for such offices and units are coded to the same industry as the establishments of the firm, when all establishments are in the same industry (3 or 4 digit). When establishments of

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

Employees

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

(d) Sales and distribution workers

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

(e) Total Employees

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

Working Owners or Partners

These are not now included in the statistics of employees and salaries and wages. There is some duplication in numbers when a person owns more than one establishment and is reported as a working owner on each Census return. Withdrawals of working owners 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 company-operated cafeterias and lunch counters and revenue from outside installation or construction work not related to the establishment's own products, sale of used materials (excluding sale of used fixed assets) research and development work, etc. As mentioned previously the figures do not include non-operating revenue such as rent, dividends, interest, etc.

Inventories

(a) Manufacturing activities

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

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

(b) Non-manufacturing activities

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

Value Added

(a) By manufacturing activities

Figures are compiled by deducting the cost of 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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