

CATALOGUE No. 43

41-221

ANNUAL



DOMINION BUREAU
OF STATISTICS

MAR 28 1966

PROPERTY OF THE
LIBRARY

ORNAMENTAL AND ARCHITECTURAL METAL INDUSTRY

1963

ANNUAL CENSUS
OF MANUFACTURES

Published by Authority of
The Minister of Trade and Commerce

DOMINION BUREAU OF STATISTICS
Industry Division

March 1966
6521-810

Price: 50 cents

PUBLICATIONS

In addition to the report, on this industry, the DBS publishes annual statistics on a number of related industries and current statistics on the more important commodities. Copies of reports provided in the following list are available from the Information and Public Relations Division of the DBS, Ottawa or from the Queen's Printer, Hull, P.Q.

Catalogue number	Title	Periodicity	Price	
			Per copy	Per year
31-001	Inventories, Shipments and Orders in Manufacturing Industries	A		\$3.00
31-201	General Review of the Manufacturing Industries of Canada	A		2.00
41-223	Boiler and Plate Works	A		.50
41-207	Fabricated Structural Metal Industry	A		.50
41-221	Ornamental and Architectural Metal Industry	A		.50
41-227	Metal Stamping, Pressing and Coating Industry	A		.50
41-216	Wire and Wire Products Manufacturers	A		.50
41-208	Hardware, Tool and Cutlery Manufacturers	A		.50
41-225	Heating Equipment Manufacturers	A		.50
42-207	Machine Shops	A		.50
41-228	Miscellaneous Metal Fabricating Industries	A		.50
65-004	Exports by Commodities	M	.75	7.50
65-007	Exports by Commodities	M	.75	7.50

A — Annual

M — Monthly

Remittances should be in the form of cheque or money order, made payable to the Receiver General of Canada and forwarded to the Information and Public Relations Division, Ottawa or to the Queen's Printer, Hull, P.Q.

ORNAMENTAL AND ARCHITECTURAL METAL INDUSTRY 1963

Data presented in this report under the heading of Ornamental and Architectural Metal Industry reflect implementation of the revised Standard Industrial Classification (S.I.C.) and the New Establishment Concept which are being used by the Dominion Bureau of Statistics in its compilation of industry statistics — See items "Standard Industrial Classification" and "Establishment" in the Explanatory Notes section of this report.

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.

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 A. Principal Statistics classified by Province, 1962 and 1963

Year 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		Total employees		Total 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	25,842	1,495	60,877	133,580	71,648	303	1,046	10,461	43,446	74,697
1962													
Newfoundland	4	172	343	496	31	1,181	2,435	1,256	8	27	271	857	1,279
Prince Edward Island	-												
Nova Scotia	11												
New Brunswick	1												
Quebec	195	2,360	5,013	8,583	416	20,486	40,668	19,623	131	417	3,146	12,642	20,050
Ontario	227	4,101	8,576	16,213	1,010	42,988	86,656	43,768	93	374	6,423	27,746	45,557
Manitoba	15	127	280	502	28	982	2,737	1,694	15	55	177	859	1,714
Saskatchewan	11	51	104	157	12	366	724	349	6	25	61	198	367
Alberta	32	765	1,564	2,781	97	6,736	13,286	6,506	15	55	1,047	3,844	8,992
British Columbia	51	372	744	1,636	85	4,013	8,071	4,027	32	98	515	2,358	4,030
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
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	16,329	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	116	12,011	18,229	6,163	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

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Under \$10,000	39	9	17	21	4	102	286	180	40	82	10	23	195
\$ 10,000 to \$ 24,999	84	96	195	270	23	589	1,380	766	82	232	109	296	791
25,000 " 49,999	92	276	562	828	55	1,407	3,299	1,845	79	311	327	986	1,962
50,000 " 99,999	86	432	859	1,464	96	2,738	6,086	3,271	68	254	567	1,946	3,354
100,000 " 199,999	91	855	1,757	3,125	203	6,284	13,182	6,684	24	127	1,175	4,501	7,179
200,000 " 499,999	76	1,337	2,732	5,029	307	11,429	23,546	12,035	6	45	1,914	7,898	12,167
500,000 " 999,999	40	1,392	2,822	5,261	268	13,275	28,260	15,088	—	—	1,980	6,685	15,062
1,000,000 " 4,999,999	34	2,794	6,088	11,078	593	31,052	61,266	29,639	—	—	4,349	18,836	30,955
5,000,000 and over	3	757	1,593	3,292	130	9,878	17,272	7,715	—	—	1,209	5,332	10,325
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	547	7,948	16,626	30,368	1,679	76,751	154,577	77,223	299	1,032	11,640	48,503	81,990
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

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies used	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Under \$10,000	93	67	144	220	19	598	1,217	590	90	219	76	262	770
\$ 10,000 to \$ 24,999	113	285	582	822	56	1,602	3,534	1,888	98	344	335	968	2,023
25,000 " 49,999	95	473	938	1,603	110	3,133	6,679	3,411	79	316	608	2,076	3,488
50,000 " 99,999	91	836	1,697	2,963	203	6,566	13,372	6,604	26	128	1,158	4,415	7,000
100,000 " 199,999	63	999	2,059	3,704	232	8,733	17,188	8,280	6	45	1,403	5,544	8,385
200,000 " 499,999	50	1,485	3,134	5,712	342	16,465	31,794	15,473	—	—	2,101	9,297	15,586
500,000 " 999,999	31	1,996	4,281	8,088	405	21,804	42,721	20,463	—	—	3,129	13,492	21,188
1,000,000 " 4,999,999	11	1,807	3,791	7,257	311	17,849	38,071	20,513	—	—	2,828	12,449	23,550
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	547	7,948	16,626	30,368	1,679	76,751	154,577	77,223	299	1,032	11,640	48,503	81,990
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	897	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	11,845	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

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Under \$10,000	89	43	86	123	17	445	1,024	562	86	211	47	131	571
\$ 10,000 to \$ 24,999	109	252	516	720	53	1,491	3,293	1,762	101	347	288	813	1,799
25,000 " 49,999	99	497	986	1,675	111	3,151	6,732	3,445	76	300	641	2,184	3,570
50,000 " 99,999	89	776	1,573	2,740	183	6,073	12,571	6,267	28	137	1,053	3,976	6,363
100,000 " 199,999	69	1,092	2,254	4,066	245	9,441	18,604	9,003	8	57	1,519	6,025	9,163
200,000 " 499,999	50	1,461	3,080	5,627	344	15,699	30,797	15,274	—	—	2,133	9,442	15,738
500,000 " 999,999	30	1,987	4,274	8,016	408	21,926	41,850	19,448	—	—	2,981	12,703	19,702
1,000,000 " 4,999,999	12	1,840	3,856	7,400	319	18,526	39,705	21,461	—	—	2,978	13,229	2,508
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...
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													
Under \$10,000	64	31	63	91	16	325	782	445	66	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	38,183	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

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Under 5 employed	184	218	448	665	62	1,918	4,179	2,214	174	519	245	749	2,253
5 - 14 employed	191	1,120	2,275	3,948	263	8,739	18,750	9,767	112	457	1,483	5,523	9,987
15 - 49 "	118	2,209	4,591	8,264	494	21,460	42,386	20,895	11	60	3,151	13,235	21,320
50 - 99 "	29	1,424	3,000	5,580	276	13,637	27,130	13,240	2	16	1,956	8,435	13,652
100 - 199 "	17	1,438	3,090	5,590	329	14,334	29,550	14,842	—	—	2,261	10,148	15,844
200 - 499 "	8	1,539	3,222	6,321	255	16,664	32,582	16,264	—	—	2,544	10,413	18,934
500 employed and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...
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													
Under 5 employed	182	239	480	789	88	2,064	4,677	2,604	177	621	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

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

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		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000			\$'000
1962													
Individual ownerships	179	396	790	1,264	92	2,602	5,672	2,986	178	599	429	1,363	3,044
Partnerships	53	239	497	766	58	1,780	3,790	1,952	121	453	302	930	2,016
Incorporated companies	315	7,313	15,339	28,338	1,530	72,369	145,115	72,286	...	...	10,909	46,210	76,930
Cooperatives .....	—	—	—	—	—	—	—	—	...	...	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
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													
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
Cooperatives .....	—	—	—	—	—	—	—	—	...	...	—	—	—
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

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

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1962	1963	1962	1963	1962	1963
	\$'000					
Output						
1. Shipments and other revenue	154,577	174,427	12,775	13,854	167,352	188,281
Inventories - Goods of own manufacture:						
Add closing - Goods in process	4,229	4,274	...	...	4,229	4,274
Finished goods	3,813	6,350	...	...	3,813	6,350
Less opening - Goods in process	3,808	3,690	...	...	3,808	3,690
Finished goods	3,157	5,741	...	...	3,157	5,741
2. Net inventory change	1,077	1,193	...	...	1,077	1,193
3. Gross output (1 + 2)	155,653	175,620	12,775	13,854	168,428	189,474
Input						
4. Purchases of goods not of own manufacture .....	...	...	7,012	7,807	7,012	7,807
Inventories - Goods not of own manufacture:						
Add opening .....	...	...	586	627	586	627
Less closing .....	...	...	543	1,006	543	1,008
5. Cost of goods sold (not of own manufacture) .....	...	...	7,055	7,426	7,055	7,426
6. Materials, supplies, components and semi-processed goods	76,751	88,374	953	933	77,704	89,307
7. Fuel and electricity	1,679	1,886	...	...	1,679	1,886
8. Gross input (5 + 6 + 7)	78,430	90,260	8,008	8,359	86,438	98,619
Census value added (3 - 8)	77,223	85,359	4,767	5,495	81,990	90,854

TABLE 3. Employment and Payroll, 1962 and 1963

Year and province	Employees										Salaries and wages					
	Production and related workers				Adminis- trative and office		Sales and distribution		Total employees		Production and related workers		Admin- istra- tive and office	Sales and distri- bution	Total salaries and wages	
	Manufacturing		Other								Manufacturing	Other				
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female						
	number										\$'000					
1962																
Newfoundland	}															
Prince Edward Island																
Nova Scotia		168	4	6	—	43	19	31	—	248	23	496	29	242	90	857
New Brunswick																
Quebec		2,335	25	96	—	428	103	146	13	3,005	141	8,583	452	2,782	824	12,642
Ontario		3,892	209	278	26	1,075	390	506	47	5,751	672	16,213	1,045	7,626	2,862	27,746
Manitoba		123	4	4	—	32	6	8	—	167	10	502	89	210	58	859
Saskatchewan		51	—	—	—	9	1	—	—	60	1	157	—	41	—	198
Alberta		719	46	—	—	173	37	60	12	952	95	2,781	—	836	227	3,844
British Columbia		367	5	—	—	83	24	35	1	485	30	1,636	—	539	183	2,358
Yukon and Northwest Terri- tories		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals		7,655	293	384	26	1,843	580	786	73	10,668	972	30,368	1,615	12,276	4,244	48,503
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

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

Month	Establishments reporting monthly detail			
	1962		1963	
	Male	Female	Male	Female
	number			
January	5,338	178	6,431	205
February	5,068	170	6,235	212
March	5,239	194	6,302	216
April	5,700	210	6,628	246
May	6,160	251	6,984	298
June	6,596	291	7,241	347
July	6,914	313	7,497	354
August	7,129	326	7,642	334
September	6,889	338	7,576	369
October	6,865	348	7,450	376
November	6,758	308	7,153	347
December	6,371	232	6,497	287
Average for establishments reporting monthly detail (collected only for large establishments) ..	6,250	265	6,974	300
Average for small establishments (only annual averages collected)	1,405	28	1,495	23
Average for all establishments	7,655	293	8,469	323

TABLE 4. Industry Inventories, 1963

Province	Manufacturing				Non-manufacturing	Total inventories
	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total manufacturing	Products or materials purchased for resale	
book value \$'000						
Opening:						
Newfoundland	x	—	x	x	—	x
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	200	15	37	253	64	317
New Brunswick	x	—	x	x	—	x
Quebec	3,899	683	1,569	6,151	88	6,239
Ontario	6,960	2,539	3,264	12,763	431	13,194
Manitoba	291	127	81	499	27	525
Saskatchewan	32	7	107	146	7	153
Alberta	2,275	154	391	2,821	9	2,830
British Columbia	508	165	254	927	2	929
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	14,203	3,690	5,741	23,634	627	24,262
Closing:						
Newfoundland	x	x	x	x	—	x
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	263	19	27	309	85	394
New Brunswick	x	x	x	x	—	x
Quebec	4,686	930	1,729	7,345	83	7,428
Ontario	8,216	2,866	3,590	14,672	797	15,469
Manitoba	283	156	91	530	25	555
Saskatchewan	33	4	107	145	6	150
Alberta	2,114	151	459	2,724	12	2,736
British Columbia	512	141	332	985	—	985
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	16,179	4,274	6,350	26,803	1,008	27,811

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

Description	1962		1963	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Large establishments which reported commodity detail:				
Bituminous coal:				
(a) From Canadian mines	ton	1,427	166	3
(b) Imported	"	—	157	3
Sub-bituminous coal (from Alberta mines only)	"	—	—	—
Anthracite coal	"	265	79	2
Lignite coal	"	—	—	—
Coke	"	200	6	—
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	1,118,862	1,123,322	467
Fuel oil including kerosene or coal oil	"	1,358,446	1,773,860	254
Wood	cord	—	3	—
Gas:				
(a) Liquefied petroleum gases	Imp. gal.	25,530	13,682	6
(b) Other manufactured gas	M cu.ft.	—	—	—
(c) Natural gas	"	241,307	209,116	183
Other fuel .....	...	22	...	16
Electricity purchased	kwh.	40,307,052	44,368,020	533
Steam purchased .....	...	8	...	6
2. Estimate for small establishments:				
Fuel and electricity .....	...	310	...	412
3. All establishments:				
Total fuel and electricity used .....	...	1,679	...	1,886

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

Description	1962		1963	
	Quantity	Cost \$'000	Quantity	Cost \$'000
1. Materials used:				
Castings (rough and semi-finished received from foundry):				
Iron (gray and malleable).....	ton	1,072	956	197
Steel.....	"	5,987	215	61
Steel (except alloy):				
Bars.....	"	26,430	49,192	6,733
Plates.....	"	4,983	8,816	1,418
Sheets:				
Plain.....	"	31,867	30,315	5,003
Aluminized.....	"	818	146	25
Galvanized.....	"	10,442	15,119	2,572
Tinplate.....	"	2,579	199	33
Strip.....	"	3,001	6,834	746
Structural shapes (unfabricated).....	"	20,249	27,655	5,112
Wire.....	"	621	817	163
Alloy steel in all forms:				
Stainless:				
Billets, bars and rods.....	...	288	...	128
Other.....	...	664	...	518
Other alloy and tool steel (including carbon, alloy and high speed steels):				
Billets, bars and rods.....	...	74	...	52
Other iron and steel.....	...	889	...	1,502
Non-ferrous metals:				
Aluminum:				
Castings.....	lb.	1,478,657	335,461	167
Extrusions.....	"	26,986,179	34,256,580	17,504
Sheet.....	"	4,134,001	7,265,066	3,042
Other forms.....	"	7,924,261	6,926,506	2,576
Brass and bronze.....	"	358,255	429,796	230
Copper:				
Sheet.....	"	40,344	19,176	12
Wire.....	"	8,000	8,250	5
Other forms.....	"	21,772	60,214	52
Lead.....	"	28,612	10,932	2
Tin.....	"	1,700	5,000	3
Zinc.....	"	24,000	38,000	26
Babbitt metal and solders.....	"	22,080	27,836	14
Other non-ferrous metals.....	...	20	...	4
Paints, oils and varnishes.....	...	547	...	601
Lumber.....	M bd. ft.	11,558	13,768	1,845
Frit, for enamelling.....	lb.	650,000	477,245	119
All other materials and components used ¹.....	...	31,857	...	33,241
2. Containers and other packaging materials and supplies used.....	...	547	...	525
3. Operating, maintenance and repair supplies used (excluding fuel).....	...	2,235	...	1,778
4. Amount paid out to others for work done on materials owned by establishments....	...	2,372	...	2,363
Totals.....	...	76,751	...	88,374

¹ No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$9,444,000 in 1962 and \$10,155,600 in 1963.

TABLE 7. Shipments of Goods of Own Manufacture, 1962 and 1963

Description	Value	
	1962	1963
	\$'000	
1. Products:		
Architectural metal work:		
Aluminum	5,738	7,611
Brass and bronze	356	689
Iron and steel	23,651	32,067
Stainless steel	1,781	1,332
Awnings:		
Aluminum	1,389	1,458
Steel	1	1
Other	1	1
Doors, metal:		
Commercial and industrial:		
Aluminum	6,463	6,286
Steel	1,777	3,691
Other	797	463
Residential, including garage:		
Aluminum	758	2,449
Steel	1	1,825
Other	1	1
Metal combination screen and storm doors:		
Aluminum	7,335	8,291
Steel	576	357
Door frames, metal	1,916	2,171
Flooring, open steel	1,411	1,479
Lockers and shelving	627	150
Metal lath and corner bead	1	1
Partitions:		
Aluminum	101	140
Steel	3,923	3,601
Windows, excluding combination screen and storm:		
Aluminum	17,703	19,034
Steel	2,809	2,427
Windows, other (combination screen and storm):		
Aluminum	13,098	17,278
Steel	897	1,087
Window units, hermetically sealed	2,195	2,623
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.)	8,552	12,599
Prefabricated exterior metal panels (curtain wall, sandwich panels and single faced panels)	3,526	4,187
Rolled formed sections	3,455	2,499
Window screens, with metal frames	580	881
Structural and architectural metal products, other	20,077 ^f	15,808
All other products	23,240 ^f	20,981
2. Amount received in payment for work done on materials and products owned by others	535	1,025
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above	(687)	(276)
Net adjustment for establishments receiving progress payments .....	...	...
Total adjusted value of shipments and work done	154,577	174,427

^f Included with "Structural and architectural metal products, other".

TABLE 8. 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, 1954 - 63
Residential, factory and commercial use

Year	Aluminum	Steel	Combination screen and storm		Hermetically sealed
			Aluminum	Steel	
			\$'000		
1954	7,192	3,414	4,098	628	1
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

B. Prefabricated and Portable Metal Buildings and Prefabricated Panels, 1960 - 63

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

C. Metal Doors, 1960 - 63

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

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, 1963

(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 Ltd.	2 George St., St. John's
Neal Limited, Robert	Fort Peppermell, St. John's
Wall and Sons Ltd., Philip	10 George St. E., St. John's
Westcott's Ltd.	Cove Rd., St. John's
Nova Scotia:	
Brine Aluminum Co. Ltd.	Main St., Trenton
Eastern Everseal of Amherst	Amherst
Glasgow Metals Ltd.	John St., New Glasgow
Ideal Aluminum Products Ltd.	102 Agricola St., Halifax
Kingston Aluminum Products	81 School St., Middleton
MacLeod, A.G.	150 Queen St., North Sydney
Metal Masters Limited	Bedford
Phillips Metal Products Ltd.	Dartmouth
Roper Aluminum Products	Windmill Rd., Dartmouth
Security Sash and Screen Maritimes Reg'd.	Wolfville
Stott Aluminum Corp. Ltd.	Welton St., Sydney
Viscount Metal Products Ltd.	13 Poplar Grove, Halifax
Weather Products Corp. of Canada Ltd.	Sydney
New Brunswick:	
Brunswick Metal Products Ltd.	Lincoln Rd., Lincoln
C. and F. Building Products Ltd.	321 Collishaw St., Moncton

List of Establishments classified to This Industry, 1963 - Continued

Name	Location
Quebec:	
A. A. L. Metal Inc.	378 Ste-Anne St., St-Jérôme
Acier Warren Steel Inc.	1845 St-Vallier St. O., Doberger
Aero Aluminum Inc.	1030 Pelletier St., Montréal Nord
Alain, A. & Cie	197 St-André St., Québec
A La Vieille Forge Enr.	St-Césaire
Albert, René	Villeneuve
Alco (Montreal) Incorporated	401 Courtemanche St., Montréal
Alumcraft Corp.	4405 Côte de Liesse Rd., Montréal
Aluminum Construction Inc.	57 St-Jacques St., Montréal
André & Bruno Metal Works Inc.	St-Laurent
Apex Win-Dor Limited	6045 Côte de Liesse Rd., St-Laurent
Architectural Iron Works Co. Ltd.	343 A Galt Ave., Montréal
Atelier Boivin & Fils Enrg.	Chicoutimi
Atelier Isabelle Enr.	590 Mélançon St., Drummondville
Atelier Raoul Desbiens	Chicoutimi
Atelier Tremblay et Fils Enrg.	78 Bagot St., Bagotville
Au Fer Battu Enr.	St-Léonard
Au Dragon Forgé	St-Rose
Au Fer Forgé	St-Césaire
Beaver Iron Works Co.	1412 York Lane, Montréal
Beclawat (Canada) Limited	335 Laurentien Blvd, St-Laurent
Bédard, J.B.	187 Lespinay St., Québec
Bégin, Gaston	St-Louis
Béland, A.C.	Victoriaville
Besmetal Industries Inc.	Cap-Rouge
Blanchette H. Ltée	1665 Lavolette St., Trois-Rivières
Bolar Foot Grill Ltd.	4362 Forest St., Montréal Nord
Bolduc H.	339 - 15th St., Québec
Bonhomme, Ernest & Fils	Valleyfield
Boudreau & Fils Enrg.	657 St-Roch St., Trois-Rivières
Boulanger Laurentin	Luceville
Brochu, J.P.	4670 - 18th Ave., Rosemont
Bros. R & D Ornamental Metal Work, Reg'd.	660 - 90th Ave., LaSalle
Bumeda Steel Products Ltd.	5075 Fullon St., Montréal
Burmac Metal Products Ltd.	432 Greenoch Ave., Mount Royal
Gamiré, Donald Enr.	Bille Brossard
Canadian Architectural Metal Works Ltd.	87 Vitre St., Montréal
Cardinal, Jos	Ste-Anne-de-Belleuve
Caron Ornamental Enrg.	9802 Hochelaga St., Montréal
Charland Iron Works Co. Ltd.	2730 Charland St., Montréal
Chisholm Aluminum Ltd.	Ville St-Pierre
Choquette A. & Fils. Enrg.	Cowansville
Classic Ornamental Works Inc.	6520 Magloire St., St-Léonard
Clerk Windows Ltd.	130 Bates Rd., Montréal
Cliche, Conrad Fer Ornamental	Victoriaville
Coulombe "Ornamental Iron Works Co.	7956 - 55th Ave., Rivières-des-Prairies
Couture & Bergeron Ltée	Chicoutimi
Cario, F. & Frères	8631 Detock St., Montréal
De Senneville Enr.	152 Hamel Blvd., Québec
Desjardins Welding Inc.	Chateaugay
Des Rosiers, Marcel	370 Blain St., St-Hilaire
Dominion Steel & Coal Corp.	LaSalle
Dominion Steel Works Reg'd.	8020 - 14th Ave., St-Michel
Dominion Tank and Mech. Works	Rivière-des-Prairies
Dorion Iron Works	71 Besner St., Dorion
Dorval Ornamental Iron Co.	580 O' Connell Ave., Dorval
Dozois St-Jean Limitée	2089 Sanquinet St., Montréal
Dubeau & LaPointe	Drummondville
Dubois & Frères Enrg.	825 Lockwell St., Québec
Dumas, Robert	Terrebonne
Duquette & Gariépy Inc.	St-Eustache
English, Charles Ltd.	91 King St., Montréal
Entreprises J.L. Parent Ltée	10425 Armand Lavergne St., Montréal Nord
Etwell & MacDonald Ornamental Iron Reg'd.	Valois
Excelum Aluminum Products Co., Ltd.	Pont Viau
F.T.S. Enr.	2187 Charlevoix St., Giffard
Fabien, Rivard	2050 Cartier St., St-Hyacinthe
Faustin A. Co. Limited	3325 Notre-Dame St. E., Montréal
Fenêtres Aluminum, H.A.Z. Aluminum Windows Reg'd.	2995 Sartelon St., Montréal
Fer Forgé Moderne	115 St-Paul St., Drummondville
Fer Ornamental Laurentian	Lafontaine
Filtralite All Weather Ltd.	LaSalle
Forge Laurentienne Limitée	St-Félix-de-Valois
Forge Moderne Inc.	206 Notre-Dame St., L'Epiphanie
Forge Ste-Madeleine Enr.	Ste-Madeleine
Forge St-Vincent Enr.	St-Vincent-de-Paul
Fortier Fer Ornamental Enr.	Ste-Clothilde
Foscht & Liberatore	9981 Plaza Blvd., Montréal Nord
Gagne & Fils	Jonquière
Gauthier & Julien Ltée	Portneuf
General Roll Forming Co. Ltd.	193 Laval St., Granby
Godin J.P. & Fils	920 Montcalm St., Sorel
H.A.Z. Aluminum Window Enrg.	2540 Lyall St., Montréal
H & B Products Mfg. Co. Ltd.	15701 Sherbrooke St. E., Montréal
Hébert Fer Ornamental	1142 Hickson St., Verdun
Héroux, Louis & Fils Ltée	50 Mondor St., St-Hyacinthe
Hull Iron & Steel Works	25 Mangin St., Hull
Iron Works Reg'd.	4324 Colonial St., Montréal
J.D. Steel Works Co. Limited	3811 Dickens St., St-Michel
Jacques Cartier Iron Works Reg'd.	Jacques Cartier
Velmini Angelo Inc.	395 - 10th Ave. S., Sherbrooke
Joyal, Jean-Yves Fer Ornamental	St-Majorique

List of Establishments classified to This Industry, 1963 - Continued

Name	Location
Quebec - Continued:	
Lachine Forge Reg'd.	629 Georges St., Lachine
Labra Door Ltd.	Rawdon
La Cie D'Exploitation d'Aluminium	12040 Lachapelle, St., Montréal
Lafond & Bergeron Cie Ltée	2454 Des Carrières St., Montréal
La Forge Artistique Enrg.	Fatham
La Forge d'Art	1665 Demontigny St., Montréal
La Forge du Nord Enrg.	128 Grande Cote St., St-Eustache
La Forge Moderne Enrg.	Cap-de-la-Madeleine
La Forge Ornementale	830 Salaberry St., Chomedey
La Forge Parrot	258 St-Denis St., St-Lambert
La Métallurgie Moderne Enrg.	390-10th Ave., Sherbrooke
Langlois Lucien Fer Ornemental	Beauharnois
Larouche, Wellie	40 Léonidas St., Rimouski
Lasalle Welding Inc.	2000 Kent St., Montréal
Lauziere Fer Ornemental	St-Jean
Lavergne Fer Ornemental Enrg.	1281-7th Ave., Grand-Mère
La Vieille Forge de Rouyn	4084 Larivière St., Rouyn
Leclerc & Leclerc Enrg.	Giffard
Le Fer Ornemental de St-Félicien Enr.	9 Lévesque Blvd., St-Félicien
Les Entreprises J. Perrault Inc.	7552-8th. Ave., St-Michel
Les Frères Lebrun Ltée	3065 Royal Blvd., Trois-Rivières
Les Ferronniers	Hauterive
Les Industries Nilo Limitée	Bois-des-Filion
Les Industries Super Metal Inc.	655 Bertrand Blvd., Québec
Les Produits Desco Ltée	St-Jean
Lessard & Blais Enrg.	805 Cavette Blvd., Thetford Mines
Locweld & Forge Products Ltd.	1545 Cabot St., Montréal
Lord & Fils Cie Limitée	2691 Délorimier St., Jacques-Cartier
M. & S. Metalworks Reg'd.	St-Hyacinthe
Main Iron Works Limited	4881 St. Lawrence Blvd., Montréal
Marchand Adélar, Ltée	1124 St-Valier St., Québec
Marcotte Steel Works	Magog
Martel, Conrad	Tracy
Mayo Aluminum Limited	Gatineau
Messely & Fils Enrg.	495-2nd Ave., Québec
Metal General Furniture Enrg.	St-Thérèse
Metro Door Co. Ltd.	Pierrefonds
Metropole Ornamental Iron Works Ltd.	4850 Forest St., Montréal Nord
Miami Ornamental Enrg.	Lafleche
Milbern Window Ltd.	5701 Côte St-Paul Rd., Montréal
Modern Iron Works Ltd.	9655 St-Urbain St., Montréal
Mollna, G.	St-Michel
Monière & Frères	8511 Chateaubriand St., Montréal
Montreal Forged Products Ltd.	6900 Papineau St., Montréal
Montreal Iron Works Corp.	4405 Côte de Liesse Rd., Montréal
Montreal Ornamental Metal Work	10645 Lamoureux St., Montréal Nord
National Blind & Windows Ltd.	St-Eustache
Noel Ornamental Enrg.	St-Rémi
Northern Ornamental Reg'd.	10621 Lamoureux St., Montréal
Olympic Aluminum Mfg. Ltd.	129 Van Home St., Montréal
Ornamental Metal & Machine Works Ltd.	4405 Côte de Liesse Rd., Montréal
P. & L. Ornamental Enrg.	Laval-des-Rapides
Par Metal Enrg.	380 Joly St., Québec
Paré R. Ornamental Iron Products	7355 Lévesque St., Anjou
Pelchat, André	606 Cowie St., Granby
Perrault, Paul-Emile	1398 De La Terrière St., Trois-Rivières
Picard, W & Fils Enr.	St-Louise
Pointe-Claire Ornamental Iron Works	22 St-Joachim St., Pointe-Claire
Poulin, J.A.	950 Panneton St., Sherbrooke
Poulin, J.B. Inc.	150-5th St., Québec
Prescott Iron Works Ltd.	10050 Plaza St., Montréal Nord
Prevost, A. & D.	305-12th Ave., Richelieu
Prompt Ornamental Metal Works	2075 Théodore St., Montréal
Racine Enrg. Leo	261 Christophe Colomb St. E., Québec
Raymond Manufacturing Co. Ltd.	475 Metropolitain Blvd., Lachine
Reno Metal Specialities	8577 10th Ave., St-Michel
Rodrigue, A.	Plessisville
Rodrigue & Frère Enr.	36 Dorchester St., Québec
Roy Fernando, Fer Ornemental	Laval-des-Rapides
Shalwin Co. Limited	550-104th St., Shawinigan Sud
Silverman Architectural Iron Works	4324 Colonial St., Montréal
Simplex Metal & Ornamental Works	4243 Jarry St., St-Léonard
South Ornamental & Iron Works	5840 Kimber Blvd., St-Laurent
St. Denis Ornamental	3460 Industrial St., Montréal
St-Eustache Ornamental Iron Works	St-Eustache
St-Germain & Perrault	5222 Des Erables St., Montréal
St. George Metal Works Inc.	St-Georges
St. Hilaire Fernando	1234 Vincent Massey St., Québec
St. Michel Overhead Door Reg'd.	St-Michel
Standard Iron Works Ltd.	442 Beaumont Ave., Montréal
Screen Glass Reg'd.	Sherbrooke
Stuart Bros. Ornamental Iron Works	Laval Ouest
Superior Window Company Limited	4475 Laurier Blvd., Douville
Therrien & Frères Inc.	343-10th Ave., Sherbrooke
Thibault, L.S. Philippe	Baie-St-Paul
Tremblay Adeodat	Hauterive
Tremblay, Rosario	Alma
Trigor Metal Inc.	4405 Chamblay Rd., St-Hubert
Tri-Steel Fabricators Ltd.	12 Des Seigneurs St., Montréal
Tri-Seal Mfg. Inc.	Pierrefonds
Ungava Steel Ind. Ltd.	4485 Industriel Blvd., Montréal
United Metal Works Reg'd.	431 St-Joseph St., Lachine

List of Establishments classified to This Industry, 1963 - Continued

Name	Location
Québec: - Concluded:	
Valley Forge Iron Works Co. Ltd.	9950 London 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	6363 Jogues St., Montréal
Ville LaSalle Welding Enrg.	7708 George St., LaSalle
Warner Weathermaster Limited	Ste-Rose
Waverly Ornamental Works Limited	7010 Marconi Ave., Montréal
Wellington Metal Enrg.	556 Sebastopol St., Montréal
Westeel Products Limited	4107 Richelieu St., Montréal
West End Iron Ornamental Enrg.	5930 D'Aragon St., Montréal
Windoors, Inc.	10625 Georges Pichet St., Montréal Nord
Wilson J.T. & Co. Limited	4755 Industrial Blvd., Montréal
Zoltan Iron Works	4597 Jeanne Mance St., Chomedey
Ontario:	
A.A.A. Ornamental Iron & Aluminum Co.	65 Wolseley St., Toronto
Acme Iron Co.	11 Bishop St., Toronto
Adams Welded Products Ltd., S.D.	Sackville Dr., Sault Ste Marie
Adanac Ornamental Iron Works Ltd.	836 Upper James St., Hamilton
Advance Railing Co.	89 Niagara St., Toronto
Aerloc Aluminum Products	Dundas
Ahmac Aluminum Products Ltd.	Sunnyhorst & Idlewilde Sts., Fruitland
Air Master of Canada Ltd.	49 Metcalfe St., St. Thomas
Air Swade Aluminum Products Ltd.	Napanee
Albern Aluminum Mfg. Co. Ltd.	1300 Ellsmere Rd., Scarborough
Albis Iron & Steel Products	35 Cosentino Dr., Scarborough
Almag Aluminum & Magnesium Ltd.	343 Munster Ave., Toronto
Alumacraft Mfg. Co.	3346 Dundas St. W., Toronto
Aluminum Combination Windows & Doors	21 Windsor St., Mimico
Aluminum Window Manufactures Ltd.	34 Penn Dr., Weston
Architectural Aluminum Co.	1015 York Blvd., Burlington
Arco Iron & Fence Co. Ltd.	455 Barton St. E., Stoney Creek
Art Wire & Iron Co. Limited	3 Carlaw Ave., Toronto
Artistic Railings	99 Milvan Dr., Weston
Atlas Window Co.	2507 Wharlon Glen Ave., Scarborough
Bell Building Products Co. Ltd.	126 Sinnott Rd., Scarborough
Bell, P. Graham Associates Limited	Armstrong Ave., Georgetown
Benarnol Ltd.	100 TorYork Dr., Woodbridge
Berry Door Co. Ltd.	Wingham
Bestway Aluminum	29 Musgrave Ave., Toronto
Borden Metal Products (Canada) Ltd.	Beeton
Border Cities Wire & Iron Ltd.	961 Walker Rd., Windsor
Both Aluminum Storms Co.	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.	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 Ave., 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 Pittsburgh Ind. Ltd.	1153 Wellington Rd. S., London
Casewin Co. Limited	Portland & Windsor Sts., Mimico
Central Ornamental Iron Works Ltd.	3 Gertrude St., Hamilton
Central Steel Works	241 Lansdowne St. E., Peterborough
Central Welding Works	1267 Fisher St., North Bay
Chatham Venetian Blind Co.	650 Grand Ave. E., Chatham
Christie Steel & Sheet Metal	241 Bridgeland Ave., Toronto
Citadel Industries	Kingston
Clark's Custom Metal Mfg.	247 Berwick St., Caledonia
Cleland Metal Products Ltd.	464 Welland Ave., St. Catharines
Cleland Iron Works (Kingston) Ltd.	Russell and Bagot Sts., Kingston
Clines Ornamental Iron Works	Victoria Ave., Stevensville
Columbus Ornamental Steel	245 Bering Ave., Toronto
Compo-Miracle Products (Canada) Ltd.	Tillbury
Continental Railing Co.	1166 Dundas St., Toronto
Crawford Manufacturing	178 Forward Ave., Ottawa
Cunningham & Lea Limited	681 Warden Ave., Scarborough
Custom Ornamental	357 South St., Windsor
D. & H. Iron Works	Crumlin Side Rd., London
D.H.I. Limited	6 Holtby Ave., Brampton
Daycan Limited	20 Brydon Rd., Rexdale
Dayside Industries Ltd.	2258 Mountainside Dr., Burlington
Delux Aluminum Products Ltd.	Agincourt
Devon Metal Products	3100 Danforth Ave., Scarborough
Diamond Window & Door Mfg. Co. Ltd.	165 Geary Ave., Toronto
Dilibero, Nick	414 Bridge St., Niagara Falls
Direct Supply & Mfg. Ltd.	561 - 10th Ave., Port Arthur
Dominion Aluminum Fabricating Ltd.	10 Jutland Rd., Toronto
Dominion Iron & Welding-Works Reg'd.	1551 Michael St. Ottawa
Donald Iron Works	29 Lewis St., Fort Erie
Dorvue Aluminum Industries Ltd.	124 Cartwright Ave., Toronto
Downsview Iron Works 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

List of Establishments Classified to This Industry, 1963 - Continued

Ontario - Continued:

Name	Location
Dundas Iron & Steel Limited	56 Fieldway Rd., Toronto
Duo Temp Niagara Ltd.	Merriton 105 Merrit St., St. Catharines
Eastview Iron Works	72 Ste-Cécile St., Eastview
Eberhard & Shives Ltd.	625 Maitland St., London
Edmor Manufacturing Co.	10 Gall Grove Ave., Weston
Etobicoke Ironworks Ltd.	157 Rivalda Rd., Weston
Everlast Aluminum Storm & Screen Co. Ltd.	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
Flangeklamp 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
Frank Metalworks G.R.	554 Montrose Rd., Niagara Falls
Freeman & Son	893 Yonge St., Toronto
Gem Aluminum Mfg. Co. Ltd.	1170 Dundas St. W., Toronto
Glencoe Steel Fabricator	Glencoe
Golden Triangle Bldg. Supply Ltd.	276 Maple Ave., Kitchener
Guard-All Aluminum Products	6 Ripley Ave., Toronto
H. & B. Enterprise (Canada) Limited	58 Crockford Blvd., Scarborough
H. & K. Steel Fabricating Co.	2380 Haines Rd., Cooksville
Hamilton The Guild of Metal crafts Ltd.	110 Queen St. N., Hamilton
Hamilton Ornamental Iron Works Ltd.	99 Clinton St., Hamilton
Harrison Metal Works	Midland
Hauserman Limited	25 Mailard Rd., Don Mills
Higgin 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
Houston Enterprises P.G.	49 Michigan Ave., Point Edward
Ideal Ornamental Metal Craft	45 Southport, Toronto
Imperial Aluminum Co.	Stevensville
Jacquemain & Sons Ltd., G.V.	29 Kelfield Rd., Rexdale
Jalwin Sales Limited	234 Norseman St., Toronto
Jensen Welding & Steel Supply Ltd.	227 Pearson 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., Kingsville
Kaiser Aluminum Co.	191 Ashtonbee Rd., Scarborough
Kawneer Canada Limited	1051 Ellsmere Rd., Scarborough
Randall Bronze & Ironwork Limited	2480 Dufferin St., Toronto
Kinnear Manufacturing Co. of Canada	360 Montrose St. N., Preston
Kitchener Forging Co.	612 Victoria St. N., Kitchener
L.S. & Dick Co. Ltd.	2536 Dougall Ave., Windsor
Lamb Industries of Canada Ltd.	6161 Tecumseh Rd., Windsor
Lanark Sheet Metal Works Ltd.	17 Tanglers Rd., Downsview
Lau Iron Works Ltd., Ed.	115 Whitney, Kitchener
Leaside Iron & Ornamental Co., Ltd.	71 Howden Rd., Scarborough
Leesan & Baxter	75-32nd St., Long Branch
MacFaydens Real Seal Industries Ltd.	70 Crockford Blvd., Scarborough
Macotta Co. of Canada Limited, The	1190 Kipling Ave. N., Rexdale
Maler Iron Works	47 Maple Ave., Thornhill
Master Seal Sash Ltd.	Cainsville
Metal Craft Co.	Pickering
Metalsmiths Co., Ltd.	110 Laird Dr., Toronto
Metro Metal Craft Co.	282 Raleigh Ave., Scarborough
Metro Railing Co. Ltd.	Palmerston
Model Railing Ltd.	118 Manville Rd., Scarborough
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
National Aluminum Products Co., Limited	Pickering
Newtonbrook Iron Works	Gormley
Niquette Frères	1900 Ogilvy Rd., Cyrville
Norris Iron Works Ltd., The	818 Eastern Ave., Toronto
Northwestern Sheet Metal Works Co. Ltd.	Toronto 400 A Hopewell Ave., Toronto
Nothof & Sons, E.	159 Albert St., London
Ontario Railings Co.	1266 Queen St. W., Toronto
Ottawa Iron Works Ltd.	256 McArthur Rd., Eastview
Pengelly Iron Works Limited, The	47 Rivalda Rd., Weston
Peninsula Iron Works & Crawford Springs	1654 Glenholme Ave., Niagara Falls
Penn Metal Products Co.	67 Penn Dr., Weston
Praesto Aluminum Products Ltd.	Brantford
Precision Seal Mfg. Ltd.	288 Bridgeland Ave., Toronto
Prince Metal Works	Toronto
Provincial Erectors	4 Kenneth Ave., London
Queensway Iron Works	5 Sinclair St., Toronto
R.M.P. Industries Ltd.	1180 Caledonia Rd., Toronto
R.D.K. Aluminum Limited	Baden
Ralphs Ornamental Iron Works	2 Dunbar Ave., Hamilton
Ray Twist Ornamental Ironcraft	230 Vancouver St., London
Rebmec Ind. Ltd.	234 Birmingham St., Toronto
Redi Steel Products Ltd.	2107 Midland Ave., Scarborough
Regina Ornamental Iron Works	17 Toro Rd., Downsview
Rexdale Iron Works	41 Shaft Rd., Rexdale
Richards-Wilcox Canadian Co., Ltd.	2 Terrace St., London
Riverside Fabrication & Welders	Riverside
Rosca Ornamental Iron Ltd.	950 Middlegate Rd., Cooksville
Rocket Sheet Metal Co. Ltd.	983 Rangeview Rd., Port Credit
Rogers Aluminum Products Ltd.	815 Erie St. E., Windsor
Roiled Metal Products Ltd.	50 Wade Ave., Toronto

List of Establishments classified to This Industry, 1963 - Continued

Name	Location
Ontario - Concluded:	
Romat Ornamental Iron Ltd.	111 Toryork Dr., 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
Sarnia Window Mart	356 Christina St. S., Sarnia
Security Products (Wallaceburg) Limited	Wallaceburg
Sentinel Aluminum Products Co. Ltd.	150 Rainside Rd., Don Mills
Sherwood Windows Limited, P.A.	26 Advance Rd., Toronto
Shullys Industries Ltd.	73 Wingold Ave., Toronto
Smith Steel Fabricating Company	2576 St. Clair Ave. W., Toronto
Soo Ornamental Iron Works	156 Goetz St., Sault Ste-Marie
Spencer Steel Ltd.	1145 Western Rd., London
Stafford's Aluminum Co. Ltd.	12 Taber Rd., Rexdale
Sterling Factories Canada (1958) Ltd.	41 Lewis St., Fort Erie
Storm Seal Aluminum Limited	Hwy. #2, Cainsville
Streamline Metalcraft Co. Ltd.	142 Bentworth Ave., Toronto
Sudbury Ornamental Iron Works Ltd.	2273 Lasalle Blvd., Sudbury
Summerset Glass & Aluminum Products	27 Lorraine Dr., Willowdale
Superior Railings	10 Hastings Ave., Toronto
T.J.C. Home Products Limited	1530 Weston Rd., Weston
Taylor Garage Doors of Canada	35 Challenge Rd., Rexdale
Taymouth Industries Ltd.	42 Queen Elizabeth Blvd., Toronto
Tip Top Aluminum Products Ltd.	1327 Marlin Grove Rd., Rexdale
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	456 Albert St., Strathroy
Vandenfelt Metal Works Ltd.	1090 Dubeau St., Cyrville
Verne - Lyons Metal Industries	3 Meadow Lane, Dundas
Viceroy Aluminum Limited	69 Huron St., Guelph
Voight, Gerhard & Son	769 Little Simcoe St., London
Walter's Welding & Iron Works	1016 Upper Wellington St., Hamilton
Weatheright Aluminum Storms	1963 Islington Ave. N., Humber Summit
Weather-Seal Manufacturing Co., Ltd.	1153 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.	34 Racine Rd., Rexdale
Weston Steel Products Ltd.	30 Brydon Dr., Rexdale
Wilby Iron Works	50 Church St., Weston
Willoughby, Mel	R.R. #2, Sault Ste-Marie
Window Design Ltd.	63 Jefferson Ave., Toronto
Windsor Metal Masters Ltd.	909 Maisonneville, Windsor
Winter Seal Windows (London) Limited	859 Valetta St., London
Wonder Window Mfg. Co.	1602 Hais Blvd., Port Credit
World Steel Co. (Canada) Ltd.	Michigan Ave., Point Edward
Wrought Iron Ornamental Works	106 Lake Shore Rd., Toronto
Wrought Iron Products	Clarke Side Rd., London
Young & Sons, K.C.	1185 Roselawn Ave., Toronto
Z-Bar Door of Canada Ltd.	38 Crockford Blvd., Scarborough
Manitoba:	
Atlas Industries	Brandon
Dominion Bronze Limited	1145 Pacific Ave., Winnipeg
Dorsch Iron Works	St. Charles
Dorwin Industries Ltd.	1524 Erin St., Winnipeg
Empire Ornamental Iron Works	R.R. 1, Winnipeg
General Machine & Welding Limited	St. Boniface
Henry's Iron Works	2619 Henderson Hwy., Winnipeg
Humphrey Products of Winnipeg Ltd.	611 Ferry Rd., Winnipeg
Mayfair Windows Ltd.	493 Madison St., St. James
Norwesto Aluminum Products	20 Beecher Ave., Winnipeg
Pero Sales Ltd.	677 Notre Dame St., Winnipeg
Reimer, Walter E.	Steinbach
Shower Door Specialties	763 Portage Ave., Winnipeg
Tatra Iron Works	111 Burnett Ave., Winnipeg
Watsons Iron & Wire Works	711 Maryland St., Winnipeg
Western Tools and Industries (1960) Ltd.	St. Boniface
Wolfe's Iron Works	291 Sherbrook St., Winnipeg
Wrought Iron Products	634 Erin St., Winnipeg
Saskatchewan:	
Alglaze Manufacturing	28 - 4th Ave. N.W., Swift Current
Aluminum & Allied Products Ltd.	Moose Jaw
Alumiseal Limited	805 Ave. P. South, Saskatoon
Crown Iron Railing Co. Ltd.	1539 Elliott St., Regina
Futurama Windows (Sask.) Co., Ltd.	630 - 10th St. E., Saskatoon
Humphrey Aluminum Windows	154 Albert 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. N. South, Saskatoon
Stevens Aluminum Products	634 - 10th St. E., Saskatoon
Western Cabinet (Sask.) Ltd.	715 - 42nd St., Saskatoon

List of Establishments Classified to This Industry, 1963 - Concluded

Name	Location
Alberta:	
Alberta Iron Works	10,635-95th St., Edmonton
Alberta Trailor Co. (1961) Ltd.	1243-48th Ave. N.E., Calgary
AlSCO Limited	5539-6th St. S.E., Calgary
Alum Awning & Window Products Ltd.	1802-1st St. N.W., Calgary
Anderson Metalcraft Ltd.	Edmonton
Artistic Iron Works	8755-82nd Ave., Edmonton
Brays Ornamental Iron	829-2nd Ave., Calgary
C.K. Steel & Machinery Limited	4243-17 A St., Calgary
Edmonton Iron and Wire Works Ltd.	10361-96 St., 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., Calgary
Guido's Welding	1810-10th Ave., Calgary
Hollyview Aluminum Products Ltd.	Winterburn
Humphrey Aluminum Windows Ltd.	7415-82nd Ave., Edmonton
Industrial Iron Works Ltd.	4020 Edmonton Trall, Calgary
Jacobs Ornamental Iron Works Ltd.	10565-114th St., Edmonton
Jensens Metal Works	4208-17th St., Calgary
Nu-Fold Doors of Canada Ltd.	9908-65th Ave., Edmonton
Prebuilt Mfg. Ltd.	Lethbridge
Precision Window & Awning	Red Deer
Quality Ornamental Iron Works Ltd.	4515-6A St. N.E., Calgary
Scandia Iron Works	50 Westview Drive, Calgary
Schlieve Aluminum Window & Door Ltd.	10115-81st Ave., Edmonton
South Side Ornamental Iron Works	8107-104th St., Edmonton
Steel & Machinery Ltd.	4243-17A St., Calgary
Universal Fancy Iron Works	201-3rd St. S.W., Calgary
Wasu Custom Steel Mfg. Co.	820-9th Ave. S.W., Calgary
Wemas Metal Manufacturing Co. Ltd.	616-35th Ave., Calgary
Western Aluminum Products Ltd.	2110-48 St. S.E., Calgary
Western Cabinet Ltd.	8910-125th Ave., Edmonton
Western Ornamental Iron Works	240-3rd Ave. E., Calgary
Zeidler Aluminum Products Ltd.	10203-86th Ave., Edmonton
British Columbia:	
A.B.C. Iron Works	430 W. 5th., Vancouver
Accurate Ornamental Iron Works	234 E. 4th Ave., Vancouver
Ail-Alume Greenhouses Ltd.	Vancouver
Almetco Mfg. Corp. Ltd.	New Westminster
Art Iron Limited	Burnaby
B.C. Iron Art	Burnaby
Broadway Iron Works	44E. Broadway, Vancouver
Chapmans Welding Shop	Courtney
Custom Craft Ornamental Iron	North Surrey
European Iron Works	3869 Commercial Drive, Vancouver
Ever-Brite Aluminum Products Ltd.	1170 W-14th St., N. Vancouver
Flexible Window Screens	Vancouver
General Iron Works	Langley
Hollycraft Building Products Ltd.	New Westminster
Imperial Glass Ltd.	North Burnaby
Inlet Metal & Machining Co. Ltd.	235 Pemberton Ave., N. Vancouver
Ironcraft Art Metal Products Ltd.	1558 Cedar Hill Crossing, Victoria
Ironcraft Company	1570 South Boundary Rd., North Burnaby
Island Ornamental Iron Works	Richmond
Janzen Henry	Langley
Johnstone Fabricators Limited	Granville Island, Vancouver
Kenmar Ornamental Iron	Chilliwack
Kingsway Fireplace Appliances & Ornamental Metal Ltd.	996 Kingsway St., Vancouver
Kienn, K.	R.R. 2 Cloverdale
Midway Wrought Iron Works	Prince George
N.K. Aluminum Products	North Kamloops
N.A.F.C.O. Manufacturing Co.	Port Coquitlam
Northwest Iron Works Limited	1425 Clyde Ave., West Vancouver
Ornamental Bronze Company Limited	1125 Vernon Drive, Vancouver
Pacific Welding & Metal Works Ltd.	5511 Roy St., North Burnaby
Pearson Wire & Iron Works (1941) Ltd.	2105 Franklin St., Vancouver 6
Penso Industries Ltd.	North Surrey
R.A.F.C.O. 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	New Westminster
Scandia Iron & Metal Works Ltd.	Burnaby
Severson Bros. Ironworks	North Surrey
Starline Products Ltd.	White Rock
Surrey Ironworks Limited	North Surrey
Swan Metals Ltd.	652 E. Broadway, Vancouver
Swiss Canadian Ornamental Ltd.	North Burnaby
Tony's Welding Shop	North Kamloops
Trojan Industries Ltd.	751 Discovery St., Victoria
Tryson & Son Iron Works Ltd.	8975 Oak St., Vancouver 14
Weldcraft Company	Burnaby
Wescraft Manufacturing Limited	2811 Douglas St., Victoria
Wescraft Windows Limited	North Burnaby
Western Wrought Iron Works	240 E. Esplanade, North Vancouver
Williamson, John M.	56 West 61st St., Vancouver
Volcan Metal Works Ltd.	Granville Island, Vancouver

CONCEPTS AND DEFINITIONS

Census of Manufactures

General

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

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

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

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

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

Establishment

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

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

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

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

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

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

Head Offices and Auxiliary Units

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

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

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

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

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

Employees

(a) Production and related workers — Manufacturing activity

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

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

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

(c) Administrative and office employees

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

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

(d) Sales and distribution workers

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

(e) Total Employees

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

Working Owners or Partners

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

Salaries and Wages

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

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

Fuel and Electricity

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

Materials and Supplies

(a) Manufacturing activities

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

(b) Non-manufacturing activities

1. Purchases for re-sale as such

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

2. Other materials and supplies used

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

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

Shipments

(a) General

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

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

(b) Shipments of goods of own manufacture

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

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

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

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

(c) Shipments of goods not of own manufacture

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

(d) Other revenue

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

Inventories

(a) Manufacturing activities

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

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

(b) Non-manufacturing activities

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

Value Added

(a) By manufacturing activities

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

(b) By non-manufacturing activities

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

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

(c) By Total activities

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

STATISTICS CANADA LIBRARY
BIBLIOTHEQUE STATISTIQUE CANADA



1010698290