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METAL STAMPING, PRESSING AND COATING INDUSTRY

1965

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METAL STAMPING, PRESSING AND COATING INDUSTRY

1965

For statistical purposes the industry titled Metal Stamping, Pressing and Coating Industry in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in manufacturing sheet metal products such as metal stamping for automobiles and for purposes such as bottle caps, heel caps, metal lath and metal boxes. Also included are establishments primarily engaged in manufacturing pressed metal products such as kitchen utensils, hospital and similar utensils and containers. This industry also includes establishments primarily engaged in coating metal and metal products, such as vitreous enamelware, galvanizing and electroplating except plating with precious metals (Industry 382). It also includes establishments primarily engaged in manufacturing tin cans and other tinware, and sheet metal products such as metal awnings, heating ducts, roofing and eaves trough. Establishments primarily engaged in tinsmithing and sheet metal work on construction projects are classified in Industry No. 421—Special-Trade Contractors. Establishments primarily engaged in making enamelled bathroom fixtures such as bath tubs and basins are included in Indus-

try No. 309—Miscellaneous Metal Fabricating Industries.

An analysis of the 1965 statistics for this industry indicates that the value of shipments of products of own manufacture increased by 14 per cent, the value of production increased by 15 per cent, the total cost of materials used in the fabrication of products of own manufacture increased by 15 per cent and value added increased by 14 per cent. The ratio of value of materials used to value of production was 54 per cent in 1964 and 1965.

Because of the nature and variety of products fabricated by firms classified to this industry it is difficult to arrive at an accurate estimate of the degree of specialization in the industry. Some of the products included under the all other category were mining machinery, materials handling equipment, automobile accessories, electronic equipment, screen plate, tools, dies and fixtures, screw machine products, tubular steel products, ventilating, exhaust and dust collecting equipment and aluminum extrusions.

SYMBOLS

The following standard symbols are used in Dominion Bureau of Statistics publications:

- .. figures not available.
- ... figures not appropriate or not applicable.
- nil or zero.
- amount too small to be expressed.
- p preliminary figures.
- r revised figures.
- x confidential to meet secrecy requirements of the Statistics Act.

TABLE 1. Principal Statistics, 1961-65

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		Employees		Value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1961													
Totals	542	15,555	33,327	66,417	4,603	206,878	390,834	180,689	164	692	21,156	99,603	191,311
1962													
Totals	582	17,793	37,971	77,909	5,117	245,611	443,386	196,099	181	749	23,606	111,880	205,233
1963													
Totals	574	18,256	39,243	81,593	5,395	267,531	482,998	213,222	159	670	24,024	116,016	221,954
1964													
Newfoundland	1	47	93	160	23	870	1,616	736	x	x	79	331	968
Prince Edward Island	1												
Nova Scotia	4												
New Brunswick	5												
Quebec	140	5,434	11,729	24,287	1,390	64,689	128,211	63,829	38	179	6,742	32,177	66,595
Ontario	341	11,433	24,669	52,631	3,711	187,699	335,480	146,560	104	442	14,949	75,380	150,486
Manitoba	27	836	1,719	3,257	175	7,242	14,904	7,569	3	11	1,114	4,896	8,076
Saskatchewan	11	361	758	1,412	55	3,926	7,445	3,498	x	x	475	2,001	3,796
Alberta	27	419	867	1,797	80	8,179	13,509	5,456	3	10	590	2,747	6,280
British Columbia	58	908	1,879	4,717	279	17,824	31,361	13,187	7	28	1,243	6,979	14,058
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	615	19,438	41,713	88,262	5,713	290,430	532,526	240,834	159	681	25,192	124,511	250,259
1965													
Newfoundland	1	78	155	296	32	1,323	2,528	1,275	2	4	120	523	1,622
Prince Edward Island	1												
Nova Scotia	5												
New Brunswick	4												
Quebec	158	6,249	13,453	28,822	1,591	71,141	144,979	73,327	45	203	7,789	38,158	76,643
Ontario	357	12,592	26,997	59,412	4,225	222,039	387,352	165,976	95	526	16,340	84,473	170,958
Manitoba	27	834	1,695	3,365	189	6,965	15,595	8,876	3	11	1,111	5,058	9,586
Saskatchewan	12	399	782	1,530	57	4,610	8,339	3,897	2	8	519	2,159	4,133
Alberta	27	449	937	1,929	92	9,293	15,341	6,052	1	6	626	2,957	7,223
British Columbia	61	1,077	2,170	5,800	293	19,524	34,918	15,646	6	25	1,420	8,215	16,811
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	653	21,678	46,191	101,155	6,478	334,895	609,052	275,049	154	784	27,925	141,543	286,975

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

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	
1964													
Under \$10,000	21	9	18	22	11	93	147	78	16	38	17	46	180
\$ 10,000 to \$ 24,999	54	50	101	149	29	323	950	609	48	167	69	204	617
25,000 " 49,999	60	175	353	603	52	736	2,235	1,459	48	230	217	745	1,474
50,000 " 99,999	89	469	954	1,775	151	2,462	6,560	3,975	29	138	612	2,394	4,209
100,000 " 199,999	78	775	1,580	3,021	291	4,070	10,826	6,574	11	70	1,009	4,190	6,786
200,000 " 499,999	147	3,290	6,857	12,341	871	20,292	47,990	27,430	6	31	4,118	17,292	28,668
500,000 " 999,999	70	2,552	5,561	10,372	663	22,772	47,113	23,637	—	—	3,193	14,589	24,796
1,000,000 " 4,999,999	74	6,309	13,609	27,284	1,844	81,910	157,867	75,367	1	7	8,253	38,970	79,433
5,000,000 and over	22	5,809	12,680	32,696	1,802	157,771	258,837	101,704	—	—	7,536	44,679	104,164
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	168	1,401	(68)
Totals	615	19,438	41,713	88,262	5,713	290,430	532,526	240,834	159	681	25,192	124,511	250,259
1965													
Under \$10,000	20	6	12	17	4	46	148	101	16	44	7	18	101
\$ 10,000 to \$ 24,999	40	40	80	131	17	248	716	453	33	116	55	169	453
25,000 " 49,999	59	144	288	519	55	718	2,165	1,408	42	229	187	678	1,425
50,000 " 99,999	99	511	1,039	1,948	150	2,460	6,928	4,401	41	225	655	2,561	4,404
100,000 " 199,999	99	950	1,949	3,754	343	5,468	14,024	8,446	17	91	1,239	5,286	9,359
200,000 " 499,999	144	3,389	7,071	13,386	949	18,904	47,781	28,604	2	12	4,153	18,196	29,688
500,000 " 999,999	90	3,236	6,919	13,532	840	30,676	62,953	32,130	2	18	3,980	18,754	33,916
1,000,000 " 4,999,999	76	6,382	13,555	28,079	1,964	87,562	164,946	77,932	1	49	8,289	39,900	83,955
5,000,000 and over	26	7,020	15,278	39,789	2,157	188,813	309,392	121,576	—	—	9,188	54,574	123,745
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	172	1,406	(70)
Totals	653	21,678	46,191	101,155	6,478	334,895	609,052	275,049	154	784	27,925	141,543	286,976

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

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	
1964													
Under \$10,000	43	21	42	57	20	233	474	257	36	105	31	86	359
\$ 10,000 to \$ 24,999	61	100	203	320	36	621	1,606	964	48	195	133	423	1,080
25,000 " 49,999	97	420	847	1,530	143	2,602	6,280	3,539	49	234	551	2,048	3,609
50,000 " 99,999	93	764	1,554	2,979	264	6,004	12,691	6,482	19	109	998	4,106	6,713
100,000 " 199,999	104	1,762	3,628	6,696	467	14,473	29,492	14,896	6	31	2,247	9,489	16,083
200,000 " 499,999	127	4,266	9,157	17,121	1,142	35,544	75,367	39,223	—	—	5,384	24,210	41,645
500,000 " 999,999	40	2,812	6,201	11,433	762	36,160	64,424	27,628	1	7	3,409	15,283	28,216
1,000,000 " 4,999,999	45	6,738	14,466	32,285	2,147	124,146	222,594	98,122	—	—	9,267	48,169	101,792
5,000,000 and over	5	2,555	5,615	15,842	731	70,648	119,598	49,723	—	—	3,004	19,297	50,830
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	168	1,401	(68)
Totals	615	19,438	41,713	88,262	5,713	290,430	532,526	240,834	159	681	25,192	124,511	250,259
1965													
Under \$10,000	36	13	26	42	8	155	388	219	30	90	17	52	219
\$ 10,000 to \$ 24,999	58	93	186	319	39	649	1,681	998	42	184	129	432	1,006
25,000 " 49,999	99	422	847	1,564	135	2,700	6,322	3,593	49	270	543	2,056	3,649
50,000 " 99,999	117	995	2,042	3,800	318	8,421	17,296	8,607	28	161	1,293	5,302	9,044
100,000 " 199,999	94	1,562	3,235	6,097	466	12,466	26,466	13,996	2	12	1,954	8,672	15,513
200,000 " 499,999	143	4,647	9,828	19,270	1,279	39,194	84,089	44,563	2	18	5,794	26,814	47,301
500,000 " 999,999	48	3,024	6,514	12,974	847	38,025	69,684	31,949	1	49	3,769	17,736	35,055
1,000,000 " 4,999,999	49	6,858	14,586	31,539	2,316	109,727	205,036	97,310	—	—	9,266	46,494	100,853
5,000,000 and over	9	4,064	8,926	25,551	1,070	123,559	198,088	73,813	—	—	4,988	32,578	74,304
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	172	1,406	(70)
Totals	653	21,678	46,191	101,155	6,478	334,895	609,052	275,049	154	784	27,925	141,543	286,976

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

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
1964													
Under \$10,000	42	20	40	54	19	183	467	266	36	105	24	62	266
\$ 10,000 to \$ 24,999	60	94	188	300	34	557	1,531	954	48	195	126	398	967
25,000 " 49,999	94	399	803	1,457	138	2,470	5,992	3,400	47	221	518	1,917	3,413
50,000 " 99,999	95	775	1,577	3,029	270	5,454	12,147	6,503	21	122	1,012	4,157	6,704
100,000 " 199,999	101	1,690	3,488	6,365	451	14,419	28,732	14,111	6	31	2,135	8,941	14,846
200,000 " 499,999	122	3,985	8,570	15,904	1,065	29,369	65,719	35,985	—	—	4,973	22,083	36,843
500,000 " 999,999	51	3,182	6,966	13,027	857	43,184	75,746	31,769	1	7	3,965	18,086	34,666
1,000,000 " 4,999,999	45	6,738	14,466	32,285	2,147	124,146	222,594	98,122	—	—	9,267	48,169	101,792
5,000,000 and over	5	2,555	5,615	15,842	731	70,648	119,598	49,723	—	—	3,004	19,297	50,830
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	168	1,401	(68)
Totals	615	19,438	41,713	88,262	5,713	290,430	532,526	240,834	159	681	25,192	124,511	250,259
1965													
Under \$10,000	36	13	26	42	8	155	388	219	30	90	17	52	219
\$ 10,000 to \$ 24,999	58	93	186	319	39	649	1,681	998	42	184	129	432	1,006
25,000 " 49,999	99	422	845	1,561	133	2,657	6,318	3,609	53	289	541	2,040	3,622
50,000 " 99,999	108	925	1,902	3,551	298	6,709	14,694	7,864	24	142	1,169	4,766	7,921
100,000 " 199,999	95	1,513	3,138	5,853	445	12,836	26,500	13,492	2	12	1,892	8,267	13,989
200,000 " 499,999	142	4,531	9,565	18,586	1,258	35,897	78,815	42,537	2	18	5,627	25,745	44,035
500,000 " 999,999	54	3,110	6,701	13,534	886	39,802	72,521	32,983	1	49	3,822	18,279	36,398
1,000,000 " 4,999,999	52	7,007	14,902	32,158	2,339	112,630	210,046	99,535	—	—	9,568	47,977	105,152
5,000,000 and over	9	4,064	8,926	25,551	1,070	123,559	198,088	73,813	—	—	4,988	32,578	74,704
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	172	1,406	(70)
Totals	653	21,678	46,191	101,155	6,478	334,895	609,052	275,049	154	784	27,925	141,543	286,975

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

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
1964													
Under 5 employed	117	142	286	478	69	1,352	3,250	1,846	93	337	188	644	1,864
5 - 14 employed	186	1,132	2,313	4,416	409	10,905	22,540	11,542	59	305	1,512	6,295	12,424
15 - 49 "	188	4,104	8,701	16,800	1,159	41,249	83,558	42,123	6	32	5,347	24,428	44,442
50 - 99 "	66	3,634	7,964	14,816	1,082	41,917	78,099	35,253	1	7	4,306	19,468	36,535
100 - 199 "	37	3,801	8,108	15,536	1,178	51,164	100,539	48,997	—	—	5,110	22,913	51,455
200 - 499 "	16	4,169	8,899	21,314	1,113	79,629	134,961	56,042	—	—	5,504	30,203	57,229
500 employed and over	5	2,456	5,442	14,902	702	64,214	109,580	45,031	—	—	3,057	19,158	46,376
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	168	1,401	(68)
Totals	615	19,438	41,713	88,262	5,713	290,430	532,526	240,834	159	681	25,192	124,511	250,259
1965													
Under 5 employed	109	130	260	471	64	1,199	3,096	1,855	84	346	171	617	1,864
5 - 14 employed	204	1,295	2,643	5,131	434	11,295	24,766	13,332	64	356	1,697	7,204	13,897
15 - 49 "	198	4,342	9,152	18,260	1,352	47,565	94,562	47,052	3	15	5,524	26,152	50,663
50 - 99 "	83	4,541	9,783	19,173	1,228	49,833	95,806	45,938	3	67	5,509	25,575	47,986
100 - 199 "	35	3,713	7,993	16,017	1,315	56,159	106,755	51,112	—	—	4,908	23,242	54,441
200 - 499 "	17	4,152	8,821	21,698	1,282	87,712	146,828	60,047	—	—	5,642	31,423	61,032
500 employed and over	7	3,505	7,539	20,404	803	81,133	137,239	55,712	—	—	4,302	25,925	57,161
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	172	1,406	(70)
Totals	653	21,678	46,191	101,155	6,478	334,895	609,052	275,049	154	784	27,925	141,543	286,975

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

Type of organization	Establishments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000			\$'000
1964													
Individual ownerships	81	177	354	611	58	950	2,503	1,510	82	338	188	649	1,530
Partnerships	36	233	485	818	71	1,644	3,798	2,102	77	344	253	912	2,104
Incorporated companies	498	19,028	40,874	86,833	5,583	287,836	526,226	237,222	...	...	24,583	121,548	246,693
Co-operatives													
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	168	1,401	(68)
Totals	615	19,438	41,713	88,262	5,713	290,430	532,526	240,834	159	681	25,192	124,511	250,259
1965													
Individual ownerships	76	177	354	620	50	980	2,568	1,575	75	330	193	677	1,586
Partnerships	38	263	526	1,001	78	2,355	5,064	2,665	79	454	301	1,158	2,709
Incorporated companies	539	21,238	45,310	99,534	6,350	331,560	601,420	270,809	...	...	27,259	138,302	282,749
Co-operatives .....	—	—	—	—	—	—	—	—	...	...	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	172	1,406	(70)
Totals	653	21,678	46,191	101,155	6,478	334,895	609,052	275,049	154	784	27,925	141,543	286,975

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

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1964	1965	1964	1965	1964	1965
	\$'000					
Output						
1. Shipments and other revenue	532,526	609,052	51,571	56,903	584,097	665,954
Inventories—Goods of own manufacture:						
Add closing—Goods in process	19,360	21,697	...	...	19,360	21,697
Finished goods	28,678	33,745	...	...	28,678	33,745
Deduct opening—Goods in process	15,965	19,357	...	...	15,965	19,357
Finished goods	27,623	28,714	...	...	27,623	28,714
2. Net inventory change	4,450	7,371	...	...	4,450	7,371
3. Gross output (1 + 2)	536,976	616,423	51,571	56,903	588,547	673,325
Input						
4. Purchases of goods not of own manufacture .....	...	...	40,699	44,515	40,699	44,515
Inventories—Goods not of own manufacture:						
Add opening .....	...	...	5,459	6,296	5,459	6,296
Deduct closing .....	...	...	6,089	7,947	6,089	7,947
5. Cost of goods sold (not of own manufacture) .....	...	...	40,069	42,864	40,069	42,864
6. Materials, supplies, etc.	290,430	334,895	2,077	2,112	292,507	337,007
7. Fuel and electricity	5,713	6,478	...	...	5,713	6,478
8. Gross input (5 + 6 + 7)	296,143	341,373	42,146	44,976	338,289	386,349
Value added (3 - 8)	240,834	275,049	9,425	11,927	250,259	286,975

TABLE 8. Employment and Payroll, 1964 and 1965

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 distrib- ution	Total
	Manufacturing		Other								Manufacturing	Other			
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female						Manufacturing	Other
	number										\$'000				
1964															
Newfoundland	45	2	—	—	12	6	11	3	68	11	160	—	108	63	331
Prince Edward Island															
Nova Scotia															
New Brunswick															
Quebec	5,036	398	25	—	705	237	295	46	6,061	681	24,287	193	5,608	2,089	32,177
Ontario	9,828	1,605	14	1	1,747	821	812	121	12,401	2,548	52,631	65	16,489	6,195	75,380
Manitoba	825	11	—	—	186	62	25	6	1,036	78	3,257	—	1,464	175	4,896
Saskatchewan	357	4	—	—	83	19	10	2	450	25	1,412	—	506	83	2,001
Alberta	410	9	1	—	98	27	39	6	548	42	1,797	4	651	295	2,747
British Columbia	883	25	14	—	182	73	56	10	1,135	108	4,717	93	1,679	490	6,979
Yukon and Northwest Terri- tories	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	17,384	2,054	54	1	3,013	1,245	1,248	193	21,699	3,493	88,262	354	26,505	9,390	124,511
1965															
Newfoundland	76	2	—	—	19	8	12	3	107	13	296	—	152	75	523
Prince Edward Island															
Nova Scotia															
New Brunswick															
Quebec	5,821	428	10	—	887	261	319	63	7,037	752	28,822	73	6,714	2,549	38,158
Ontario	10,839	1,753	9	—	1,937	891	789	122	13,574	2,766	59,412	33	18,390	6,638	84,473
Manitoba	824	10	—	—	185	65	22	5	1,031	80	3,365	—	1,541	153	5,058
Saskatchewan	395	4	—	—	85	22	11	2	491	28	1,530	—	536	93	2,159
Alberta	440	9	1	—	94	31	44	7	579	47	1,929	6	721	301	2,957
British Columbia	1,047	30	5	—	188	70	70	10	1,310	110	5,800	36	1,831	547	8,215
Yukon and Northwest Terri- tories	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	19,442	2,236	25	—	3,395	1,348	1,267	212	24,129	3,796	101,155	148	29,885	10,355	141,543

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

Month	1964		1965	
	Male	Female	Male	Female
number				
Establishments reporting monthly detail (large establishments only):				
January	14,025	1,743	15,947	1,864
February	14,051	1,791	15,941	1,893
March	14,606	1,838	16,463	1,964
April	14,821	1,887	16,743	1,995
May	15,361	1,890	17,427	2,022
June	15,969	1,881	18,075	2,014
July	15,415	1,763	17,852	1,930
August	15,832	1,805	17,989	1,957
September	15,819	1,795	17,604	2,014
October	15,608	1,798	17,162	2,005
November	15,405	1,775	17,120	1,995
December	14,914	1,745	16,510	1,928
Averages	15,150	1,812	17,084	1,966
Establishments reporting annual averages (small establishments only)	2,234	242	2,358	270
Average for all establishments	17,384	2,054	19,442	2,236

TABLE 10. Inventories, 1965

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	77	119	52	247	143	390
Prince Edward Island						
Nova Scotia						
New Brunswick						
Quebec	9,584	5,443	8,021	23,047	1,413	24,461
Ontario	24,834	10,377	17,242	52,453	3,777	56,230
Manitoba	1,863	690	768	3,321	124	3,445
Saskatchewan	845	215	218	1,279	28	1,306
Alberta	1,169	445	917	2,531	374	2,905
British Columbia	1,513	2,068	1,497	5,079	438	5,517
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	39,885	19,357	28,714	87,957	6,296	94,253
Closing:						
Newfoundland	100	197	76	373	106	478
Prince Edward Island						
Nova Scotia						
New Brunswick						
Quebec	10,125	4,962	9,581	24,668	1,751	26,419
Ontario	26,789	12,688	19,819	59,296	4,931	64,227
Manitoba	2,313	878	1,013	4,205	178	4,383
Saskatchewan	1,279	349	310	1,938	39	1,977
Alberta	1,554	489	968	3,012	379	3,391
British Columbia	1,797	2,133	1,977	5,907	562	6,470
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	43,957	21,697	33,745	99,399	7,947	107,346

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

Description	1964		1965	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Large establishments reporting commodity detail:				
Bituminous coal:				
(a) From Canadian mines	ton	4,595	58	4,564
(b) Imported	"	9,595	128	9,471
Sub-bituminous coal (from Alberta mines only)	"	239	3	306
Anthracite coal	"	171	3	328
Lignite coal	"	—	—	—
Coke	"	—	—	—
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	1,588,836	622	1,588,581
Fuel oil including kerosene or coal oil	"	5,842,910	654	6,377,968
Wood	cord	—	—	—
Gas:				
(a) Liquefied petroleum gases	Imp. gal.	196,925	49	209,339
(b) Other manufactured gas	M cu. ft.	—	—	—
(c) Natural gas	"	1,570,131	1,293	1,955,639
Other fuel .....	...	...	28	...
Electricity purchased	kwh.	187,278,125	2,081	206,559,888
Steam purchased .....	...	...	106	...
2. Small establishments not reporting commodity detail:				
Estimate for fuel and electricity .....	...	688	...	700
3. All establishments:				
Total fuel and electricity used .....	...	5,713	...	6,478

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

Description		1964		1965	
		Quantity	Cost	Quantity	Cost
			\$'000		\$'000
1. Materials used:					
Iron and steel:					
Bars	ton	13,886	2,216	12,352	1,900
Plates	"	30,652	5,056	39,304	5,950
Sheets:					
Black	"	238,788	37,400	280,663	43,558
Galvanized	"	158,328	29,566	204,948	37,165
Tin plate	"	369,992	66,263	355,331	71,427
Strip	"	36,229	6,363	28,547	5,129
Structural shapes	"	5,728	1,192	11,014	1,929
Wire	"	2,453	479	2,730	545
Pipe, tubes and fittings	"	..	1,262	..	1,360
Alloy steel in all forms:					
Carbon and alloy steel, including tool steel:					
Billets, bars and rods	"	..	199	..	131
Other shapes	"	..	1,024	..	1,279
Stainless:					
Billets, bars and rods	"	..	1,385	..	863
Sheets	"	..	4,390	..	4,393
Other shapes	"	..	1,579	..	1,912
Other iron and steel	"	..	3,465	..	6,697
Non-ferrous metals:					
Aluminum:					
Castings	pound	223,321	129	1,002,995	535
Sheet	"	19,618,251	7,330	27,567,085	10,575
Other forms	"	20,634,299	7,472	29,543,165	10,423
Brass and bronze	"	2,059,367	1,027	2,520,191	1,383
Copper:					
Sheet	"	506,423	287	1,209,454	627
Wire	"	77,976	43	87,715	49
Other	"	308,531	177	315,915	227
Lead	"	532,099	74	782,597	133
Nickel	"	403,213	419	574,856	556
Tin	"	24,237	36	19,244	34
Zinc	"	6,437,818	946	8,998,155	1,486
Solders	"	2,588,794	949	3,837,370	1,499
Other non-ferrous metals	"	..	281	..	399
Other materials:					
Lumber	M ft. b.m.	10,562	1,014	12,911	1,286
Frit for enamelling	pound	2,345,038	470	2,648,027	468
Muriatic acid	"	1,255,085	42	1,391,512	50
Paints, oils and varnishes	"	..	5,722	..	6,775
Cork discs	"	..	512	..	433
Ammonium chloride	pound	134,356	13	182,878	18
Sulphuric acid, 100%	"	1,836,762	43	2,883,482	65
All other materials and components used ¹	"	..	85,375	..	94,576
2. Containers and other packaging materials and supplies used .....		..	5,460	..	6,244
3. Operating, maintenance and repair supplies used (excluding fuel) .....		..	8,579	..	10,278
4. Amount paid out to others for work done on materials owned by establishments .....		..	2,190	..	2,537
Totals .....		..	290,430	..	334,895

¹ No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$13,389,807 in 1964 and \$13,719,473 in 1965.

TABLE 13. Shipments of Goods of Own Manufacture, 1964 and 1965

Description	1964		1965	
	Quantity	Value \$'000	Quantity	Value \$'000
1. Products:				
Barrels and drums, steel:				
Repeat shippers	¹	¹	¹	¹
One-time shippers	No.			
Bottle caps, metal	1, 272, 332	6, 379	1, 629, 230	7, 786 ✓
Cans, metal (food and non-food)	15, 245	..	16, 081
Culvert pipe	ton	129, 459	..	142, 823
Dairy supplies:	64, 092	21, 266	88, 421	26, 302
Cream and milk cans	¹	..	¹
Other	¹	..	168 ✓
Galvanized ware (pails, washtubs, etc; but not garbage and ash cans)	1, 469	..	951 ✓
Garbage and ash cans	1, 540	..	3, 235 ✓
Hardware and tools	8, 946	..	11, 600 ✓
Heating equipment:				
Pipe and elbows (furnace and stove)	6, 532	..	5, 985
Tank heaters for domestic water supply	6, 752	..	6, 306
Other heating equipment (range boilers, stoves, etc.)	5, 695	..	4, 818
Kitchen equipment for cafeterias, restaurants, etc.	12, 330	..	13, 377
Kitchenware, household (vitreous enamelled aluminum and stainless steel)	8, 822	..	10, 027
Maple syrup equipment:				
Evaporators (complete sets of pans)	148	..	143
Furnaces	14	..	19
Other	89	..	20
Poultry supplies (incubators, brooders, etc.)	110	..	1
Signs metal (including enamelled signs)	1, 053	..	1, 080
Spinnings, all metals (n.e.s.)	2, 247	..	599
Stampings, all metals (n.e.s.)	27, 192	..	37, 251
Steel office furniture	736	..	1, 908
Tanks:				
Pressure and vacuum	1, 058	..	1, 230
Storage and processing	6, 379	..	7, 442
Other	6, 080	..	6, 115
Tinware, japanned or not	4, 074	..	3, 287
Architectural and ornamental metal work	1, 838	..	4, 144
Metal door frames	797	..	956
Flooring, open steel	2, 522	..	3, 256
Lockers and shelving	3, 055	..	3, 897
Metal lath and corner bead	3, 264	..	3, 146
Metal mouldings and trim	433	..	352
Partitions, aluminum and steel	934	..	1, 304
Roof deck	8, 855	..	¹
Roof drainage equipment:				
Steel	1, 949	..	1, 576
Other	645	..	693
Sheets, roofing and siding:				
Aluminum	7, 122	..	8, 021
Steel	9, 343	..	8, 034
Ventilators, including ducts	7, 183	..	9, 780
Windows, excluding combination storm and screen	¹	..	1, 845
Windows, other (combination storm and screen)	483	..	329
Prefabricated or portable metal buildings, complete units (in sections or panels) and pre-fabricated exterior metal panels (curtain wall sandwich panels and single faced panels)	11, 392	..	9, 911
Panels, parts or sections for prefabricated buildings, not sold as a complete unit	¹	..	1
Amount received for custom anodizing	2, 064	..	2, 486
Amount received for custom electroplating	21, 702	..	24, 937
Amount received for custom enamelling	1, 185	..	981
Amount received for custom work and repairs, n.e.s.	5, 165	..	6, 543
All other products	167, 401	..	207, 056
2. Amount received in payment for work done on materials and products owned by others	3, 136	..	3, 112
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above	(1, 523)	..	(1, 894)
Net adjustment for establishments receiving progress payments	(37)	..	-
Total adjusted value of shipments and work done	532, 526	..	609, 052

¹ Included with "All other products".

TABLE 14. Shipments of Selected Goods of Own Manufacture - All Industries, 1964 and 1965

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

A. Metal Cans, 1956 - 65

Year	Value	Year	Value
	\$'000		\$'000
1956	90,188	1961	109,578 ¹
1957	97,521	1962 ²	122,680
1958	107,125	1963	123,734 ¹
1959	114,098	1964	130,565 ¹
1960	108,520	1965	147,634

B. Steel Barrels and Drums,³ 1956 - 65

Year	Repeat shippers		One-time shippers	
	Number	Value \$'000	Number	Value \$'000
1956	160,753	1,353	1,269,304	3,569
1957 ⁴	87,633	844	1,104,869	3,984
1958	51,504	524	1,112,810	4,410
1959	38,000	382	1,449,689	5,506
1960	87,174	730	1,040,164	4,488
1961	79,670	640	1,127,230	4,725
1962	77,868	744	1,441,649	5,731
1963	415,351	2,271	1,280,973 ¹	5,633 ¹
1964	x	x	1,319,335	6,326
1965	x	x	1,766,384	8,108

C. Metal Lath and Corner Bead, 1956 - 65

Year	Value	Year	Value
	\$'000		\$'000
1956	4,299	1961	4,118
1957	4,136	1962	4,439
1958	4,691	1963	4,416
1959	4,450	1964	4,365
1960	3,963	1965	4,422

D. Metal Bottle Caps, 1956 - 65

Year	Value	Year	Value
	\$'000		\$'000
1956	13,130	1961	17,201
1957	13,990	1962	17,389
1958	14,491	1963	15,904
1959	15,700	1964	15,245
1960	15,924	1965	16,081

E. Sheet Metal Culvert Pipe, 1956 - 65

Year	Quantity	Value	Year	Quantity	Value
	tons	\$'000		tons	\$'000
1956	57,800	19,188	1961	64,130	20,026
1957	56,100	18,786	1962	66,317	20,490 ¹
1958	59,600	19,634	1963	63,432	19,332
1959	66,300	21,296	1964	68,804	22,570
1960	54,720	17,314	1965	93,544	27,770

See footnotes at end of table.

TABLE 14. Shipments of Selected Goods of Own Manufacture—All Industries, 1964 and 1965—Concluded

F. Roof Drainage Equipment, 1956 - 65

Year	Value	Year	Value
	\$'000		\$'000
1956	3,485	1961	2,845
1957	2,694	1962	2,728
1958	2,957	1963	2,750
1959	2,704	1964	2,893
1960	3,162	1965	2,273

G. Aluminum and Stainless Steel Kitchenware⁵, 1956-65

Year	Value		Year	Value	
	Aluminum	Stainless steel		Aluminum	Stainless steel
	\$'000			\$'000	
1956	6,263	1,666	1961	4,830	1,817
1957	6,802	1,964	1962	5,719	2,340
1958	7,293	2,388	1963	5,763	3,429
1959	6,409	2,029	1964	7,027	4,092
1960	5,707	1,675	1965	7,399	4,748

II. Galvanized Sheets, 1956 - 65

Year	Tonnage sold	Value	Year	Tonnage sold	Value
		\$'000			\$'000
1956	206,000	34,194	1961	328,000	54,738
1957	170,000	28,893	1962	358,000	59,240
1958	192,000	32,636	1963	382,000	63,895
1959	299,000	51,265	1964	469,087	77,758
1960	275,000	46,710	1965	513,320	87,497

I. Stove and Furnace Pipe, 1956 - 65

Year	Value	Year	Value
	\$'000		\$'000
1956	3,228	1961	6,050
1957	3,812	1962	4,990
1958	3,970	1963	6,009
1959	5,063	1964	7,053
1960	5,179	1965	6,430

J. Aluminum and Steel Roofing and Siding, 1960 - 65

Year	Value			
	Aluminum		Steel	
	\$'000			
1960	7,782		7,275	
1961	12,282		5,998	
1962	13,827		6,489	
1963	16,130		9,035	
1964	18,234		9,447	
	Roofing		Siding	
	Aluminum	Steel	Aluminum	Steel
	\$'000		\$'000	
1965	4,083	4,251	14,403	3,789

¹ The totals for 1961 and following years do not include cans made for one use by cans from previously classified to this country and, as a result, are not exactly comparable with totals for years previous to 1961.

² Includes aluminum cans as of 1962.

⁹ Not including drums made by some companies for their own use only.

* Starting with 1957, steel barrels and drums were defined as being over 10 Imperial gallons capacity. Repeat shippers were defined as being made of 10 gauge material or heavier while one-time shippers were defined as being made 18-24 gauge material, but including 28 gauge asphalt drums. Data prior to 1957 were not so defined and, as a result, are not strictly comparable with later years.

* Refer to Catalogue No. 47-211 "Jewellery and Silverware". Table 14 for "All industry totals on other kitchenware".

List of Establishments classified to this Industry, 1965

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

Name	Location
Newfoundland:	
Armco Drainage & Metal Products of Canada Ltd.	Bishop's Falls
Prince Edward Island:	
Charlottetown Metal Products Ltd.	Allen St., Charlottetown
Nova Scotia:	
Drew Metals Limited	Truro
Gulf Steel Ltd.	Sydney Mines
Maritime Cans Ltd.	Woodside Industrial Park, Dartmouth
Waldale Ltd.	Amherst
Zenith Electroplating Ltd.	Dartmouth
New Brunswick:	
Armco Drainage & Metal Products of Canada Ltd.	Sackville
Flanagan's Sheet Metal Works	768 York St., Fredericton
Jules Grondines Reg'd.	24 Waterloo St., Saint John
Leger Metal Workers Ltd.	277 St. George St., Moncton
Quebec:	
A.R. Lite Mfg. Co. Ltd.	1300 Valleyfield St., St-Vincent-de-Paul, Montreal 40
Accessories Manufacturers Limited	595 St-Rémi St., Montreal
Acme Plating Ltd.	246 St. Jean, Longueuil
Aero-Guide Ltée	6600, rue Magloire, St-Leonard, Montreal
Alanco Limited	550 Davidson St., Montreal
Alfa Manufacturing & Designing Ind. Ltd.	2101 Chartier St., Dorval
Allied Enterprises Limited	655 Montée de Liesse St. Laurent
American Can Co. of Canada Ltd.	2065 Jeanne d'Arc St., Montreal
Armco Drainage & Metal Products of Canada Ltd.	Charny
Arrow Plating & Mfg. Ltd.	3800 Marien Ave., Montreal
Artnetwork Inc.	6120 Metropolitan Blvd. E., St. Leonard, Montreal
Art Steel Products Ltd.	Lafleche
Atlantic Dry Kiln Ltd.	95 Léonidan, Rimouski
Audet, J.E. Soudures Inc.	455-1ère Ave., Québec
Aviation Products Co.	400 Laurentien Blvd., St. Laurent
B. & L. Stamping Co. Ltd.	3831 Dickens St., St-Michel
Barrette & Bernard	320 Jacques-Cartier St., Gatineau
Belanger & Frère Enr.	159, rue de la Madone, Mont-Laurier
Bend Metal Finishers Ltd.	1565 Cabot St., Montreal
Brisette, J. Ltée & Aspiration Mfg. Co. Ltd.	1002, boul. Rosemont, Montreal
Brock Steel Corp. Ltd.	4255 Hogan St., Montreal
Can Truss Connectors Inc.	St-Antoine-des-Laurentides
Canadian Aquarium Co.	1397 Torrance St., Montreal
Canadian Artistic Dies Inc.	400 Minto St., Sherbrooke
Canadian Crown Cork Company Limited	695 Dollard St., Lasalle
Canadian Kitchen & Sheet Metal Works Inc.	105 Port Royal, Montreal
Cantin, H.E. Enr.	Champigny
Cassidy & Maillard Ltd.	1156 Papineau St., Montreal
Cassils & Co.	111 Port St., Montreal
Central Duct Work Reg'd.	197 St. Jacques, St. Jean
Chatham Art Metal Works Ltd.	781 Chatham St., Montreal
Cie Jacob Inc.	9900, rue de Martigny, Montreal
City-Wide Plating Co. Ltd.	1185 Hickson, Verdun
Colford, John, Sheet Metal Ltd.	2025 Fortin Blvd., Laval
Continental Can Company of Canada Limited	3455 Côte de Liesse Rd., St. Laurent
Cresswell-Pomeroy Ltd.	553 Léon Hamel St., Granby
Crown Cork & Seal Company Ltd.	10000 Meilleur St., Montreal
Custom Kitchen & Sheet Metal Works Ltd.	5641 de Castille, Montreal-nord
D. & L. Sheet Metal Works Reg'd.	1575 Taschereau Blvd., Ville Jacques-Cartier
Defender Metal Fabricators Ltd.	180 Victoria St., Lachine
Delormier Industries	9970 Paris St., Montreal-nord
De Nyjon Metal	82 St. Louis, Terrebonne
Desjardins, Bernard Ferblantier	10790 Lamoureux Montreal-nord
Dominion Tool & Metal Products Ltd.	929 Perrault Lane, Montreal
Empire Electro-Plating Works Ltd.	425 River St., Verdun
Engineering Products of Canada Ltd.	5053 Ontario St. E., Montreal
Equipements de cuisine-GH Kitchen Equipment	5340 de Castille, Montreal-nord
Expert Sheet Metal Works	3906 St. Lawrence Blvd., Montreal
Ferblanterie Générale Enr.	Etang Du Nord, Iles-de-la-Madeleine
Foisy, R. Ltd.	2140 Theodore St., Montreal
Forest, Roger Inc.	2404 Vimont St., Montreal
Foresteel Industries Ltd.	10705, boul. Henri-Bourassa, Montreal
Fortin, L.P. Enr.	2050 Amyot St., Montreal
Fournier Steel Work Ltd.	Black Lake
Garand & Thibault Inc.	250 Lee St., Québec
G.B. Welding Inc.	350, ave. des Perrons, Ville d'Auteuil
General Iron Works Co. Ltd.	6545 Magloire, St. Leonard, Montreal
General Metal Works Limited	127 Richer St., Ville St. Pierre
General Steel Wares Limited	2355 de Lisle St., Montreal
Gero Ltd.	7701-17th Ave., St-Michel
Gilbert Metal Specialite Enrg.	617 St. Remi, Montreal
Hamel & Guertin Limited	2665 Charlemagne St., Montreal
Hachelaga Metal Fabricators Inc.	1515 Bercy St., Montreal
Hotel & Restaurant Sheet Metal Works Inc.	33 Prince St., Montreal
Hull Ottawa Plating Ltd.	6 Morin St., Hull
Hunter Douglas Ltd.	2501 Trans-Canada Hwy Pointe-Claire
Hurtsteel Products Ltd.	391 Courtemanche St., Montreal East
Industrial Containers Limited	2069 Pigeon St., Ville LaSalle
Industrial Stampings Ltd.	Bromptonville

List of Establishments classified to this Industry, 1965 - Continued

Name	Location
Quebec - Concluded:	
Industries Blainville Enr.	127 St. Charles, Ste-Thérèse, Cté de Terrebonne
International Cooperage Co. of Canada Ltd.	Buckingham
Julien, Léo T. Inc.	St-Malo
Kitchen Specialities Inc.	4960 Courval, St. Laurent, Montreal
La Société Dramex Inc.	5035, rue Ontario-est., Montréal
Labelle Kitchen Equipment Co. Ltd.	10820 Alfred, Montreal-nord
Lachine Metal Works Reg'd.	925-14ème Ave., Lachine
Lamer & Côté Cie. Ltée	2260, rue Ste-Marguerite, Ville Jacques-Cartier
Lasalle Metal Caps Ltd.	1300 Olier St., Montreal
Laurentide Metal Stamping Ltd.	64 Boyer, St-Jérôme
Laurentide Restaurant Equipment Inc.	2136, Boul. Labelle, Village Lafontaine
Laval Sheet Metal Works Inc.	1870, boul. Labelle, Chomedey
L'Holr Inc.	225, rue St-Laurent, Lévis
Les Établissements Galvanarts Ltée	907 Cartier St., Trois-Rivières
Les Industries Mont-Blanc Ltée	213, rue St-Joseph, l'Assomption
Les Industries - Vari - Air Ltée	840 Salaberry, Laval
Lessnik Roofing & Sheet Metal Works	4136 St. Lawrence Blvd., Montreal
Levellé Mfg. Co.	8012-16th Ave., St-Michel, Montreal
Lilian - Russell Reg'd.	540 Beaudry St., Montreal 24
Limoges, Jean-Paul	974 St. Antoine St., St. Laurent
Longueuil Stamping & Metal Works Co.	146, chemin Chambly, Longueuil
Louiseville Générale Entreprise Enr.	Louiseville, Cté de Maskinongé
Lunn, G.J. Mfg. Co. Ltd.	106 Elmslie, LaSalle
Luxor Industries	7941 Dante St., St-Michel
Mahon Hardware Mfg. Co. Ltd.	5010 St. Patrick St., Montreal
MacDonald Drums Mfg. Corporation	23 du Moulin, Ville St-Pierre
Martin Steel Ltd.	2915 Sherbrooke St. E., Montreal
McGuire Mfg. Co. Ltd.	865 Montée de Liesse, St. Laurent
Metal Casting & Plating Co. Inc.	5701 Côte St-Paul Rd., Montreal
Metelec Mfg. Co.	118 Duvernay St., St-Jean
Mitchell Industries Ltd.	5350-13th Ave., Montreal
Mitchell, Robert Co. Ltd., The	350 Décarie Blvd., St-Laurent
Model Restaurant Equipment Inc.	5392 St. Lawrence Blvd., Montreal
Modern Metal Industries Inc.	2843 Gilford St., Montreal
Modern Plating Inc.	225 Cormier, Drummondville
Mohawk Industries	365 Beaubien St. W., Montreal
Montcalm Industries Ltd.	6865 de l'Épée Montreal
Montreal Platefab Ltd.	9751 Parkway Blvd., Ville d'Anjou
Montreal Roofing Mfg. Co. Ltd.	2125 St. Catherine St. E., Montreal
North American Food Ept. Mfg. Ltd.	10261 Garon St., Montreal Nord
Otterburn Sheet Metal Industries	490 Richelieu Blvd., St. Hilaire
P.M.L. Industries Reg'd.	8695-10th Ave., St-Michel, Montreal
Paterson, Wm. & Co. Inc.	555 Hays St., Montreal
Permagril, Ltée	987, boul. Laurier, St. Hilaire
Phydex Ltée	380 Fortin, Quebec
Plater's Inc.	2016 Richardson St., Montreal
Plating Industries Ltd.	3155-36e Rue, St-Michel
Premier Metal Housings Ltd.	6130 Côte de Liesse, Montreal
Presto Plating Reg'd.	1301 de Montigny St. E., Montreal
Produits d'Acier Phoenix-Steel Products Ltd.	9115, rue Rousseau, Montreal s.
Quebec Culvert Co. Ltd.	300 Canal Rd. Ville St-Pierre
R.J. Stamping Co. Ltd.	8001-18th Ave., St-Michel, Montreal
R.L. Metal Ltée	7956-151ème Ave., St-Michel, Montreal
R & M Metal Products	6585 Magloire St., St. Leonard, Montreal
Release Enterprises Co.	11400 Ste-Catherine-est., Montreal-est
Riverin, S.O. & Cie Ltée	475, rue Marcou, Québec-ouest
Riverside Plating Corp.	425 River St., Montreal
Robert Equipment Co. Ltd.	803, rue Richard, Joliette
Rogala, Joseph	100 Pratt St., Longueuil
Roll Up Aluminum Co. Ltd.	1035 Panneton St., Sherbrooke
St. Jean Roofing Inc.	400 St. Georges St., St-Jean
St. John's Metal Stamping Inc.	Boul. du Séminaire, St-Jean
St. Lawrence Sheet Metal Works	5437 St. Lawrence Blvd., Montreal
St. Paul Plating	351 Place Royale, Montreal
Savard Inc.	741 St. Vallier St. W., Quebec
Savard, Jean Inc.	1067 Amherst St., Montreal
Saxe Bros. Inc.	8025-17th Ave., St-Michel
Small Brothers Reg'd.	Dunham
Stainless Steel Industries Ltd. - Les Industries d'Acier inoxydable	2251 Wurtele St., Montreal
Talarco Limited	3726 St. Ambroise St., Montreal
Talbot Metal Inc.	10749 Racette St., Montreal-nord
Teknik, B.S. Inc.	Valcourt
Therrien & Frère Enrg.	631-6e Rue, Cap-de-la-Madeleine
Trans-Canada Industries Inc.	1207 Valleyfield St., St-Vincent-de-Paul, Montreal 40
Tremblay Metals	7042 Shelley St., St-Michel
Tripa Stamping & Mfg. Co. Inc.	11300-6th Ave., Rivières-des-Prairies
Tru-Way Sheet Metal Works Co. Ltd.	102 Jean Milot St., LaSalle
Unic Steel Products Ltd.	1382 Marie-Victorien Blvd., Jacques-Cartier
Union Screen Plate Co. of Canada Ltd., The	72 Queen St., Lennoxville
Union Screen Plate Co. of Canada Ltd., The (Montreal Plant)	Montreal
Vaccum Platers Inc.	151 Lagauchetière St. W., Montreal
Ventilateurs Lauzon Enr.	5344-13ème Ave., Montreal
Ventilating & Blow Pipe Co.	2225 Parthenais St., Montreal
Verdun Anodizing Inc.	3977 Verdun Ave., Verdun
Vic Aluminum Ware Ltd.	150 Louvain St. W., Montreal
Vic Metal Corp.	303 E. Notre-Dame, Victoriaville
Warmal Sheet Metals Inc.	994 South St., Cowansville
Westeel - Rosco Limited	335 Guy St., Montreal
Zimmcor Co.	2100 Remembrance Rd., Lachine

List of Establishments classified to this Industry, 1965 - Continued

Name	Location
Ontario:	
A & A Tool & Die Co.	83 Portland St., Mimico
A. & M. Mfg.	364 Grand Ave. E., Chatham
Abramovitz, Louis	49 Ossington Ave., Toronto
Abrex Specialty Coatings Ltd.	280 Wycraft Rd., Oakville
Acadian Platers Ltd.	315 Rexdale Blvd., Rexdale
Accurate Machine & Tool Ltd.	1844 Wilson Ave., Weston
Acme Electro Plating Co. Ltd.	282 Richmond St. E., Toronto
Acme Stainless Steel Works	1947 Mattawa Ave., Cooksville
Acme Steel Co. of Canada Ltd.	743 Warden Ave., Scarborough
Acrex Products Ltd.	76 McCulloch Ave., Rexdale
Acro Steel Products	129 Cartwright Ave., Toronto
Adap Sheet Metal & Roofing	89 Ashley St. Rear, Hamilton
Advance Gerrard Electric Plating Ltd.	175 Eileen Ave., Toronto
Airlume Manufacturing (Oshawa) Ltd.	15 Prince St., Oshawa
Ajax Precision Mfg. Co. Ltd.	37 Penn Drive, Weston
Alanco (Aurora) Limited	95 Dunning Ave., Aurora
Al-Brite Products Ltd.	1 Adam St., Kitchener
Alexander Metal Products (1965) Ltd.	1550 Laperriere Ave., Ottawa
Allbright Platers Ltd.	2289 Brant St. E., Hamilton
Alloy Platers Ltd.	1777 Weston Rd., Weston
Alloy & Steel Fabricators of Canada Ltd.	107 Crockford Blvd., Scarborough
Alpha Sheet Metal Co.	12 Fenmar Dr., Weston
Altron Fabricating Ltd.	370 Olivewood Rd., Toronto
Aluminum Goods Limited	158 Sterling Rd., Toronto
American Can Company of Canada Ltd.	Chatham
American Can Company of Canada Ltd. (Central End Enamel & Litho Div.)	391 Victoria Ave. N., Hamilton
American Can Company of Canada Ltd. (Coil Centre & Resorting Station)	391 Victoria Ave. N., Hamilton
American Can Company of Canada Ltd.	Simcoe
American Electro Platers	386 Bering Ave., Toronto
Anchor Cap and Closure Corp. of Canada Limited	275 Wallace Ave., Toronto
Anchor Metal Products	135 Logan Ave., Toronto
Anderson Mfg. Co.	3487 Dundas St. W., Toronto
Anti-Friction Enterprises Ltd.	400 Attwell Dr., Rexdale
Applebaum, B. Reg'd.	302 Murray St., Ottawa
Arad Co. Management Ltd.	452 Charles St., Windsor
Argosy Metal Mfg. Co.	611 Ossington Ave., Toronto
Arlington Mfg. Co.	945 Weston Rd., Toronto
Armco Drainage & Metal Products of Canada Ltd.	41 George St., Guelph
Artron Polishing & Plating Ltd.	2 Industrial St., Toronto
Astrochrome Crankshaft Toronto Ltd.	186 Hymus Rd., Scarborough
Atlas Manufacturing	1797 Benjamin Ave., Windsor
Autochrome Ltd.	520 Speers Rd., Oakville
Automatic Metal Stampings Co. Ltd.	34 Chancey Ave., Toronto
Aviation Metal Products	1790 Midland Ave., Scarborough
Barber-Coleman of Canada Ltd.	36 Colville Rd., Toronto
Babcock Mfg. Co.	75 Oak Ave., Hamilton
Bardeau Ltd.	158 Norfinch Dr., Downsview
Beach Industries Ltd.	80 Lorne St., Smiths Falls
Beadex Dry Wall Specialties Ltd.	42 Racine Rd., Rexdale
Beaver Electro Plating Co.	26 Cranfield Rd., Toronto
Bendal Machine Co. Ltd.	99 Kennedy Rd. S., Brampton
Bernadin of Canada Ltd.	413 Islington St. S., Toronto
Bevel Stamping Co. Ltd.	111 Oakdale Rd., Downsview
Boniface Sheet Metal	80 London N., Hamilton
Borden Co. Ltd., The	273 King St. W., Ingersoll
Brantford Mechanical Devices Ltd.	94 Grey St., Brantford
Bri-Cad Electro Platers Ltd.	253 Gerrard St. E., Rear, Toronto
Brimac Anodizing Ltd.	2482 Dufferin St., Toronto
Bristol Cadmium Plating Co. Ltd.	43 Advance Rd., Toronto
Britex Polishing Ltd.	122 Manville Rd., Scarborough
Brock Industries & Plating Ltd.	3-4th St., Welland
Broome, J. Ward Ltd.	2431 Weston Rd., Weston
Bruce Pressed Steel Products Ltd.	230 Richmond St., Toronto
Brunt Metal Products (Hwy. 27) Ltd.	235 Belfield Rd., Rexdale
Buckley's Sheet Metal Mfg. Ltd.	5 Granger Ave., Scarborough
Buffcraft Metal Polishing Co.	2482 Dufferin St., Toronto
Burford Sheet Metal Products Ltd.	Burford
Butler Metal Products Co. Ltd.	400 Guelph St., Preston
CPM Georgetown Ltd.	Norval
Calco Metal Mfg.	RR. No. 3, St. Thomas
Cametoid Limited	257 Fairhall St., Ajax
Canada Culvert Co. Ltd.	Osler St., London
Canadian Business Machines Ltd.	2485 Haines Rd., Cooksville
Canadian Calendar Metal Company	46 Hyde Ave., Toronto
Canadian Cannery Ltd.	117 Walker's Line, Burlington
Canadian Louver Damper Ltd.	177t Oxford St. E., London
Canadian Permacote Co.	700 Wellington St., Windsor
Canadian Rogers Eastern Ltd.	108 Vine Ave., Toronto
Carleton Culvert Co. Ltd.	Bells Corners
Carrière, Fred & Son	245 Bradley, Eastview
Century Engineering Co. Ltd.	7 Wabash Ave., Toronto
Chadwick's, Ralph Plating Works	98 Richmond St. E., Toronto
Chatham Plating Limited	Whitehall St., Chatham
Chicago Metallic Western Hemisphere Ltd.	30 Torlake Crescent, Toronto
Clark, John W. Ltd.	21 Six Point Rd., Toronto
Clemmer Industries (1964) Ltd.	446 Albert St., Waterloo
Coleman Metal Products W.A.,	14 Sable St., Toronto
Combinco Engineered Products Ltd. (Div. Easter Steel Products)	777 Laurel St., Preston

List of Establishments classified to this Industry, 1965 - Continued

Name	Location
Ontario - Continued:	
Comco Electroplating Co. Ltd., The	Uxbridge
Commando Chrome Plating Co. Ltd.	53 St. Julien St., London
Condor Manufacturing Company Ltd.	1810 Midland Ave., Scarborough
Conrad Metal Spinning Co.	18 Advance Rd., Toronto
Continental Can Co. of Canada Limited	3rd & Brimingham Sts., New Toronto
Continental Can Co. of Canada Ltd.	401 Richmond St. W., Toronto
Cornell Engineering Company Limited	47 Atomic Ave., Toronto
Cornell Plating Co. Ltd.	154 York St., Hamilton
Corrugated Pipe Co. Ltd.	182 Perth St., Stratford
Court Galvanizing Ltd.	138 Dawson Rd., Guelph
Crown Cork & Seal Company Limited	320 Carlaw Ave., Toronto
Crown Steel Prods.	2654 St. Clair Ave. W., Toronto
Custom Truck & Trailer Bodies	Kintore
D.S.L. Manufacturing	2528 Wharton Glen, Cooksville
Danor Mfg. Co. Ltd.	149 Parkdale Ave., Brockville
Dawson City Metal Finishers	124 Manville Rd., Scarborough
Decedar Brothers Ltd.	828 Forhan St., Wallaceburg
Demuth Products Canada Ltd.	419 Albert St., Waterloo
Depco Metal Products Ltd.	24 Buckingham St., Toronto
Dillon, W.E. Company Limited	2 Copeland St., Leaside, Toronto
Doerner, Frank & Sons Ltd.	115 Bridgeport Rd., Waterloo
Dominion Al-Chrome Corp. Ltd.	54 Carnforth Rd., Toronto
Dominion Electroplating Co.	277 William St., Midland
Doris Metals Ltd.	926 High St., Peterborough
Dovercourt Electro-Plating Co. Ltd.	304 Bridgeland Ave., Toronto
Dow, Thomas Electroplating Ltd.	327 North Vickers St., Fort William
Duggan, A.J. Co.	7 Millwick Dr., Weston
Dundas Sheet Metal Work Co.	459 College St. W., Toronto
Dupuis, C. Laurier	Pakenham
Dura-Chrome Ltd.	Wallaceburg
Durbucy, N. Sheet Metal	25 Musgrave Ave., Toronto
Duro Aluminum Ltd.	281 Birch Ave., Hamilton
Duro Metalware Limited	281 Birch Ave., Hamilton
Dynam Architectural Specialties Ltd.	119 McMaster Ave., Ajax
Earlscourt Sheet Metal Co. Ltd.	38 McCulloch Ave., Rexdale
East Side Plating Co. Ltd.	9100 Tecumseh Rd. E., Windsor
Ekco Products Co. (Canada) Ltd.	376 Birchmount Rd., Scarborough
Elan Tool & Die Ltd.	381 Park Ave. W., Chatham
El-Met-Parts Ltd.	55 Head St., Dundas
Elrose Steel Products	7 Elrose Ave., Weston
Embro Welding & Steel Fabricators Ltd.	Embro
Erie Metal Finishers Ltd.	95 Erie St., Ridgetown
Erno Mfg. Co. Ltd.	20 Halsey Ave., Toronto
Etmeco Limited	370 Munster Ave., Toronto
Everingham Bros. Ltd.	63 Advance Rd., Toronto
Ewing, Robert D. Metal Stampings	42 Hyde Park Ave., Hamilton
Expanded Metal Co. of Canada Ltd., The	66 Bartor Rd., Weston, Toronto
Fabricated Steel Products (Windsor) Ltd.	1537 Mercer St., Windsor
Fawcett Metal Products Ltd.	446 Albert St., Waterloo
Femko Metal Products Ltd.	6 Phoebe St., Toronto
Festival City Metal Fabricators	457 Douro St., Startford
Food Service (Div. of AMF Canada Ltd.)	125 Oxford St., Guelph
Ford Dickison Industries Ltd.	Brodhagen
Freeway Washer Limited	122 Judge Rd., Toronto
Frost Metal Products Ltd.	170 Chatham St., Hamilton
Galaxy Metal Enterprises Ltd.	113 McCormack St., Toronto
Gildon Metal Enterprises Ltd.	22 Enterprise Rd., Rexdale
Globe (Toronto) Mfg. Co. Ltd.	6 Halsey Ave., Toronto
Glosta Mfg. Co. Ltd.	121 Cavan St., Port Hope
Graham Sheet Metal Ltd.	285 Knoll St., Port Colborne
Grimsby Metal Products	84 Main, Grimsby
H. & E. Plating Ltd.	51 Comstock Rd., Scarborough
H. & M. Metal Finishing Ltd.	46 Kent St., Woodstock
Hallmark Platers	67-15th St., Toronto
Hamburt Mfg.	1829 Brigden Side Rd., Sarnia
Hamilton Aluminum Ware Co. Ltd.	13 Ferguson Ave. N., Hamilton
Hamilton Electro-Plating Co.	82 Queen St. N., Hamilton
Harth Industries Ltd.	Moore Ave., Galt
Hi-Lustre Limited	37 Wilson St. W., Perth
Hind Mfg. Co.	Bracebridge
Hogarta Galvanizing Ltd.	37 Mansion Ave., Toronto
Hogarth Platers Ltd.	37 Mansion Ave., Scarborough
Hollys Anodizing Service Ltd.	55 Milvan Drive, Weston
Holmes, G.M. & H.O. Limited	416 Main St., Port Arthur
Homer & Wilson Ltd.	1 Lancaster St., Hamilton
Hospital & Kitchen Equipment Co. Ltd.	450 Alliance Ave., Toronto
Hubbell, E.S. & Sons Ltd.	Thamesville
Hughes, L.G. Sheet Metal	180 Robert St. Rear, Toronto
Humber Sheet Metal	1062 Rexdale Blvd., Toronto
Hunter Drums Limited	1249 Advance Rd., Burlington
Hy-Grade Electro-Platers Ltd.	30 Hayes Ave., Guelph
Ideal Metal Stampings Ltd.	Ridgetown
Imperial Refractories & Equipment Ltd.	160 Roger St. E., Waterloo
Industrial Containers Ltd.	127 Burton St., Hamilton
Industrial Electro-Plating Ltd.	71 Rallside Rd., Don Mills
Industrial Platers (Div. of Hedgewick Enterprises Ltd.)	1276 McDougall Rd., Windsor
International Cooperation Co. of Canada Ltd.	Fort William
International Cooperation Co. of Canada Ltd.	370 Millenad Stoney Creek
International Silver Co. of Canada Ltd.	137 John St., Barrie
Irving Steel Ltd.	121 Avenue Rd., Galt

List of Establishments classified to this Industry, 1965 - Continued

Name	Location
Ontario - Continued:	
Jackson Metal Industries Ltd.	97 Frid St., Hamilton
Janco Sheet Metal Ltd.	605 Merton St., Toronto
Jeune Metal Products Ltd.	15 Janet Ave., Toronto
Johnstel Metal Products (Windsor) Ltd.	1628 Durham Place, Windsor
Jones Manufacturing Co. Ltd.	Stratford
Joseph, N.C. (Canada) Ltd.	1340 Portage Rd. N., Niagara Falls
Joyce & Smith Co. Ltd.	245 Catharine St. N., Hamilton
K.B.M. Tool & Manufacturing Co. Ltd.	34 Rivalda Rd., Weston
Kaiser Aluminum & Chemical Canada Ltd. (Kaiser Aluminum Co. Div.)	191 Achtowbee Rd., Scarborough
Kent Tool Ltd.	26 Main St., Markham
Kenhar Metal Fabricators	107 Kenhar Dr., Weston
Ketchum Mfg. Co. Ltd.	396 Berkley Ave., Ottawa
King Metal Products Ltd.	460 Industrial Ave., Woodstock
Kitchener Electronic Industries (1965) Ltd.	801 Ottawa St. S., Kitchener
Kool-Lite Aluminum Awning Co. Ltd.	2590 South Sheridan Way, Clarkson
Kraemer, Leo & Co. Ltd.	3 Hoffman St., Kitchener
Kuntz Electroplating Ltd.	261 Cressman Rd., Kitchener
L. & J. Plating Co. Ltd.	71 Wilkes Brantford
Lakehead Culvert Ltd.	493-16th Ave., Fort William
Leasidd Plating Ltd.	41 Granger Ave., Scarborough
Leigh Metal Products Ltd.	101 Brookside St., London
Lion Sheet Metal Mfg. Ltd.	47 Milford Ave., Toronto
Lockwood Manufacturing (Canada) Ltd.	360 Brock St., Brantford
London Industrial Plating Ltd.	284 Adelaide St. S., London
London & Petrolia Barrel Co. Ltd., The	763 Little Simcoe St., London
London Silverplating & Repairing	402 Ridout St. North, London
Loveridge & Weldon Ltd.	15 Finley Ave., Ajax
Luster Corporation of Canada Ltd., The	Dresden
Lustro Steel Products Co.	40 Holtby Ave., Brampton
M-S-M Electroplating Ltd.	3 Regina St. N., Waterloo
McDonald Sheet Metal Limited	1556 Industrial Ave., Preston
MacFarlane Engineering Co. Ltd.	2010 Dundas St. W., Toronto
MacKinnon & Urquhart	414 Brown's Line, Long Branch, Toronto
Magnetic Metals of Canada Ltd.	10 Spalding Dr., Brantford
Manufacturers Plating Co. Ltd.	666 Ellis St. W., Windsor
Manville Plating Company	127 Manville Rd., Scarborough
Maple Machine & Tool Co. Limited	104 Oakdale Rd., Downsview
Mastin, James Co. Ltd. (The)	371 Danforth Rd. Section D, Scarborough
McBride Mfg. Co. (Div. of Recto Ind. Ltd.)	4880 E. C. Row, Windsor
McDermott Metal Products Limited	124 Cartwright Ave., Toronto
McDonald, C.J. Co. Ltd.	344 Bering Ave., Toronto
McKechnie, John Tool & Stampings Ltd.	165 Eileen Ave., Toronto
Meaford Tank Co.	Meaford
Medland Enterprises	44 Dufflaw Rd., Toronto
Met-Plat Service Centre Ltd.	Point Edward
Metropolitan Metal Spinning Ltd.	2562 Stanfield Rd., Cooksville
Millbrook Industries Limited	Tupper St., Millbrook
Milne Steel Fabricating Co. Ltd.	150 Chatham St., Hamilton
Milrod, Ralph Metal Products Ltd.	131 McCormick St., Toronto
Mitchell, Ross Heating & Air Conditioning	36 Alice St., Brantford
Mitten Industries Galt Ltd.	Hespeller Rd., Galt
Modern Plating Co. Ltd.	288 Geary Ave., Toronto
Montgomery Metal Products Co. Ltd.	22 Taber Rd., Rexdale
Moyer & Diebel Metalcrafts Limited	Jordan Station
Mundet Cork & Insulation Limited	90 Clayson Rd., Weston
Munro Metal Products Limited	154 Oak Ave., Hamilton
Murphy Sheet Metal & Steel Fab. Ltd.	430 Franklin Blvd., Galt
National Hard Chrome Plating Co. Ltd.	99 Toryork Drive, Weston
National Steel Drum Ltd.	Petrolia
Natweld Steel Products Ltd.	42 Tabor Rd., Rexdale
Neo Chrome Ltd.	76 Mead Ave., Hamilton
Neo-Modern Roll & Engraving Ltd.	76 Mead Ave., Hamilton
Newman, S.H. Company Ltd.	65 Samor Rd., Toronto
Niagara Iron Works	260 Niagara St., Toronto
Norseman Welding Ltd.	2833 Dufferin St., Toronto
North American Containers Ltd.	John St. N., Aylmer
Northern Plating Co. Ltd.	37 Parliament St., Toronto
Ontario Culvert & Metal Prod. Ltd.	180 Columbia St., Waterloo
Ontario Sheet Metal Industries	127 Oak Ave., Thornhill
Operation Reliance Inc.	63 Torbarrie Rd., Downsview
Pacific Plating Limited	49 Milvan Drive, Weston
Patterson Plating Ltd.	77 Wade Ave., Toronto
Pedlar People Limited, The	519 Simcoe St. S., Oshawa
Peterborough Plating Co. Ltd.	685 Erskine Ave., Peterborough
Plaza Electro-Plating Ltd.	1167 Caledonia Rd., Toronto
Porcelain & Metal Products Ltd.	Orillia
Pratt, J. Murray Mfg. Co. Ltd., The	155 Tiffin Ave., Barrie
Precision Vacuum Products Ltd.	91 Oxford St., Toronto
Premier Tool & Die Ltd.	86 Tycos Drive, Toronto
Presto Bumper Service Ltd.	230 King St. E., Toronto
Preston Metal & Roofing Products Ltd.	1139 Industrial Rd., Preston
Price & Knott Mfg. Co. Ltd.	Chesterhill Rd., Port Union
Prince Edward Tinning Co.	Demorestville
Progressive Anodizers	41 Crockford Blvd., Scarborough
Provincial Alum. Awning Corp. Ltd.	2 Milwick Dr., Weston
Qualified Precision Finishers (Div. of Magna Electronics Corp. Ltd.)	41 Crockford Blvd., Scarborough
Rapid Plating Works	323 Queen St. East., Toronto
Rauscher Plating Ltd.	190 Water St. S., Galt
Rayco Stamping Products Ltd.	2249 S. Cameron Blvd., Windsor
Reeves & Heibin	30 de Grassi, Toronto

List of Establishments classified to this Industry, 1965 - Continued

Name	Location
Ontario - Concluded:	
Reininger, R. & Son Ltd.	114 Rainside Rd., Don Mills
Renfrew Electrical Co. Ltd.	349 Carlaw Ave., Toronto
Rheem Canada Ltd.	128 Barton St. W., Hamilton
Riecke Metal Products Canada Ltd.	77 Eastern Ave., Brampton
Riesinger & Schultes Ltd.	Markham
Rideau Aluminum & Steel Ltd.	1551 Michael St., MR No. 1, Ottawa
Rio Algom Mines Ltd.	569 Southworth St. S., Welland
Riverside Sheet Metals Ltd.	3306 Wyandotte St., Riverside
Robert Sheet Metal Co. Ltd.	192 Robert St., Hamilton
Robertson-Irwin Ltd. (Robertson Prod. Div.)	411 Parkdale Ave. W., Hamilton
Robertson & Irwin Ltd. (Robert Steel (Canada) Mfg. Div.)	411 Parkdale Ave. N., Hamilton
Rusmac Metal Polishing & Plating Co. Ltd.	48 B Camforth Rd., Toronto
St. Mary's Chrome Plating	St. Marys
Santana Products Ltd.	19 Jutland Rd., Toronto
Sarnia Tank & Vessel Co.	251 Campbell St., Sarnia
Sasco Tubes Limited	720 Tretheway Dr., Toronto
Scancraft Plating Ltd.	500 Kipling Ave. S., Toronto
Scarboro Sheet Metal Works	2207 Kingston Rd., Scarborough
Seal-Spout of Canada Ltd.	107 Howden Rd., Scarborough
Selkirk Metal Products (Eastern) Ltd.	130 W. Augusta Rd., Brockville
Seneca (St. Catharines) Mfg. Ltd.	RR. No. 4, St. Catharines
Signode Canada Limited	15 Ridgetop Rd., Scarborough
Simon's Eastern Mfg. Co. Ltd.	170 University Ave. W., Waterloo
Slater Steel Industries Ltd.	19 Guelph Ave., Hespeler
Soren Manufacturing Co. Ltd.	2825 Dufferin St., Toronto
Sovereign Housewares Ltd.	27 Hobson Ave., Toronto
Spun Metals Ltd.	36 Rivalda Rd., Weston
Stainless Steel Products Ltd. (Steel Strapping Div.)	53 Craig St., Brantford
Standard Plating Co.	289 Lyon St., Ottawa
Stanley Steel Co. Ltd.	57 Gerrard St., Hamilton
Star Electro-Plating Co. Ltd.	113 McCormack St., Toronto
Star Sheet Metal Mfg. Co.	1575 Dundas St. W., Toronto
Steel City Sheet Metal Co. Ltd.	246 Superior St., Hamilton
Sterling Electro-Plating Co. Ltd.	75 Millwick Dr., Weston
Sterling-Radiant Devices Co. Ltd.	175 Eileen Ave., Toronto
Stratford Sheet Metal Works	20 Corcoran St., Stratford
Suburban Awning Installations	1285 Parent Ave. Rear, Windsor
Sudbury Regent Plating Co. Ltd.	335 Regent St. S., Sudbury
Sun Polishing & Plating Co. Ltd.	1264 Queen St. W. Rear, Toronto
Sun Tool & Stamping Co. Ltd.	275 Eugenie St., Windsor
Superfinish Co. Ltd.	1203 Lawrence Ave. W., Toronto
Super Plating Co. Ltd.	230 Milvan Drive, Weston
Supreme Aluminum Industries Ltd.	3600 Danforth Ave., Scarborough
Supreme Anodizing Ltd.	3600 Danforth Ave., Scarborough
Supreme Metal Work & Stamping Co.	374 Spanton Ave., Ottawa
Swenco Manufacturing Co. Ltd.	151 Lucan St. Waterloo
Taman Industries Ltd.	Coldwater
Terkel Insulated Products Ltd.	700 Wellington Ave., Windsor
Textron Canada Ltd. (Canada Fanner Div.)	50 Frid St., Hamilton
Thor Industries Ltd.	75 Brown's Line, Toronto
Thorco Mfg. Ltd.	75 Brown's Line, Toronto
Thorn, W.J. Ltd.	1 Riverview Ave., London
Toronto Cadmium Plating & Tinning Co. Ltd.	190 Edwin Ave., Toronto
Toronto Kitchen Equip. Co. Ltd.	104 Cartwright Ave., Toronto
Toronto Plating Co.	32 Eastern Ave., Toronto
Tridon Manufacturing Ltd.	201 North Service Rd., Burlington
Tri-Sure Products Ltd.	264 Welland Ave., St. Catharines
Tudhope Specialties Ltd.	Colborne St. W., Orillia
Tweed Steel Works Eastern Ltd.	Tweed
Twin-Cee Co. Ltd.	20 Armstrong Ave., Georgetown
Tyrell, Evert	Oakville
Unimatic Ltd.	68 Densley Ave., Toronto
Union Screen Plate Co. of Canada Ltd.	Brampton
United-Carr Canada Ltd.	231 Gage Ave. N., Hamilton
United Electro-Platers	217 Lambton Ave., Toronto
Universal Handling Equipment Co.	100 Burland Cres., Hamilton
University Sheet Metal Products Ltd.	57 Chauncey Ave., Toronto
Vacuum Metalizing Limited	22 Camforth Rd., Toronto
Vent Rite Mfg.	140 St. Clarens Ave., Toronto
Volrath of Canada Ltd.	95 Vulcan Rd., Rexdale
Vulcan Containers (Canada) Ltd.	15 Bethridge Rd., Rexdale
Warbro Steel Ltd.	RR. No. 2, Williamsburg
Weber Sheet Metal Ltd. Joseph	135 First Ave., Simcoe
Webster, Thomas K. Ltd.	39 Vaughan St., Ottawa
West-End Plating Ltd.	1928 Mattawa Ave., Cooksville
We Steel & Rosco Ltd.	Atlantic Ave., Toronto
Wheeler & Bain Limited	142 Mutual St., Toronto
White, David Sheet Metal Products	1025 Dupont, Toronto
Wickware-Stackbin Ltd.	Perth
Wilkinson Chute (Canada) Ltd.	9 Dwight Ave., Toronto
Windsor Chrome-Plating Co. Ltd.	2700 Ovellette Ave., Windsor
Windsor Steel Fabricators Ltd.	920 Mercer St., Windsor
Wood, John Company Ltd.	101 Hanson St., Toronto
Wright, H.G. Mfg. Co. Ltd.	20 Jarvis St., Hamilton
Wright Line of Canada Ltd.	82 Industry St., Toronto
Wrought Iron Range Co. Ltd.	1360 Bloor St. W., Toronto
X-Pert Metal Finishing Ltd.	5 Harriet St., Hamilton
York Electro Plating Ltd.	51 Ormand St., Thorndale
Zenith Electroplating Ltd.	35 Shaft Rd., Rexdale

List of Establishments classified to this Industry, 1965 - Continued

Name	Location
Manitoba:	
Acme Metal Products Ltd.	400 Keewatin St., Winnipeg
Advance Sheet Metal Co.	130 McKenzie St., Winnipeg
Aluminum Safety Products Mfg.	598 Erin St., Winnipeg
Armco Drainage & Metal Products of Canada Ltd.	37 Higgins Ave., Winnipeg
Arnett Co. Ltd.	58 Robinson St., Winnipeg
Cadorth Plating Co. Ltd.	1438 Church Ave., Winnipeg
Canadian Corrugating & Stamping Company Ltd.	357 Archibald St., St. Boniface
Canadian Rogers Western Ltd.	1109 Winnipeg Ave., Winnipeg
Commercial Plating Ltd.	424 Kensington St., Winnipeg
Custom Sheet Metal Ltd.	254 Madison St., St. James
Elite Metal Products Ltd.	573 Talbot Ave., Winnipeg
Empire Sheet Metal Co. Ltd.	725 Madison St., St. James
Engel Sheet Metal	243 Jarvis Ave. W., Winnipeg
Great West Metal Products Ltd.	90-92 Alexander Ave., Winnipeg
Henn-Rich Manufacturing Ltd.	75 Archibald St., St. Boniface
Littleford Industries Ltd.	1760 Sargent Ave., Winnipeg
MacDonald Bros. Sheet Met. & Roofing Co. Ltd.	51 Aikins St., Winnipeg
Man-Men Industries Ltd.	1512 Wall St., Winnipeg
Master Metal Products Co. Ltd.	470 Union Ave., Winnipeg
Metal Industries Ltd.	11 A Hwy. North, Brandon
Precision Platers Ltd.	197 Watt St., Winnipeg
Provincial Metal & Heating Co.	425 Selkirk Ave., Winnipeg
Selkirk Metal Products Ltd.	625 Wall St., Winnipeg
Sheffield Silver Plating Co. Ltd.	510 Hargrave St. Winnipeg
Westeel-Rosco Limited	CNR Track & Desautel St., St. Boniface
Western Standard Fittings Ltd.	No. 2 Hwy., Fort Whyte
Wood, John Company Limited	1550 Dublin Ave., Winnipeg
Saskatchewan:	
Allied Heating Supply (1963) Ltd.	815 McKay St. S., Regina
Armco Drainage & Metal Prod. of Canada Ltd.	601 Broad St., Regina
Fulco Metal Products Ltd.	7th Ave. & Halifax St., Regina
Harding Industries Ltd.	2201 Faithful Ave., Saskatoon
Prairie Metal Products Ltd.	600 10th Ave. E., Regina
Saskatoon Bumper Electro Plating Ltd.	611 Avenue "O" S., Saskatoon
Saskatoon Venetian Blind Co.	633 Main St., Saskatoon
South Central Air Services	Box 51, Assiniboia
Simon's Metalworkers Ltd.	Rocanville
Westeel-Rosco Limited	1100 Scarth St., Regina
Westeel-Rosco Limited	Avef & 22nd St., Saskatoon
Zol Mark (Industries) Ltd.	1645 Osler St., Regina
Alberta:	
Armco Drainage & Metal Products of Canada Ltd.	9914-76th St., Edmonton
Barry Sheet Metal Company Limited	10171-98th St., Edmonton
Calgary Plating Works	1312-1st St. S.W., Calgary
Cone Water Heaters Ltd.	3616 Manchester Rd., Calgary
Continental Can Co. of Canada Ltd.	63rd Ave. & 88th St., Edmonton
Daam Galvanizing Co. Ltd.	RR 2, Edmonton
Ecco Heating Products Ltd.	9564-125 Ave., Edmonton
Edmonton Tinsmith Supplies Ltd.	8180-114th Ave., Edmonton
Expanded Metal Co. of Canada Ltd., The	10361-96th St., South Edmonton
Fairmont Plating (Alta) Ltd.	5625-103rd St., Edmonton
Industrial Plating Ltd.	9761-60th Ave., Edmonton
International Cooperage Co. of Canada Ltd.	Po Box 191, Lloydminster
McCready Products Ltd.	12603-123rd St., Edmonton
McKinley & Taylor Ltd.	11941-73rd St., Edmonton
Metal Fabricators & Roofing Limited	12509-124th St., Edmonton
Mid-West Aluminum Ltd.	Hanger 9, Municipal Airport, Edmonton
Regal Sheet Metal Ltd.	1135-11th St. S.E., Calgary
Rheem Canada Limited	Hwy. 16, Clover Bar
Robertsteel (Canada) Ltd.	12607-82nd St., Edmonton
Supreme Plating Ltd.	12740-126th Ave., Edmonton
Standard Metal Products Ltd.	1111-11th St. W.S., Calgary
Trim Specialties Ltd.	74 Ave. - 50th St., Edmonton
Westeel-Rosco Limited	1902-11th St. S.E., Calgary
Westeel-Rosco Limited	7900-115th Ave., Edmonton
Westeel-Rosco Limited	40th Ave. - 15th St. S.E., Calgary
Western Hand-Chrome Plating Co. Ltd.	5730-96th St., Edmonton
Westland Metals Ltd.	6805 Fairmount Dr., Calgary
British Columbia:	
A.A.A. Aluminum Products Ltd.	3959 E. Hastings, North Burnaby
A.B.C. Plating Co. Ltd.	2235 Triumph St., Vancouver
Ace Sheet Metal Works	Hwy. 16, Vanderhoof
American Can Co. of Canada Ltd.	611 Alexander St., Vancouver
Anderson Blowpipe Ltd.	1213 Mitchell Rd., Richmond
Armco Drainage & Metal Products of Canada Ltd.	8811 Laurel St., Vancouver
Associated Sheet Metal Products Ltd.	875 Viewfield Rd., Victoria
B.C. Bumper Platers Ltd.	1602 Venables St., Vancouver
B. & W. Industrial Metal Cleaners Ltd.	1131 East Hastings St., Vancouver
Bartlett Sheet Metal Works Ltd.	543 Powell St., Vancouver
Burgess Bead Ltd.	316 West 2nd St., North Vancouver
C & C Ventilation Ltd.	11763-97 A Avenue, North Surrey
City Sheet Metal Ltd.	1229 Clark Dr., Vancouver
Coast Coppersmith	1302 Powell St. Vancouver
Columbia Sheet Metal Products Ltd.	949 West 7th Ave., Vancouver

List of Establishments classified to this Industry. 1965 - Concluded

Name	Location
British Columbia - Concluded:	
Continental Can Co. of Canada Ltd.	6741 Cariboo Rd., Burnaby
Cranberry Sheet Metal Ltd.	6797 Cranberry St., Powell River
Expanded Metal Co. of Canada Ltd., The	Granville Island, Vancouver
Fairmont Plating Ltd.	5758 Beresford St., Burnaby
Fisher Metal Products Ltd.	170 Powell St., Vancouver
Grant, E.H. & Son Ltd.	76 East Cordova St., Vancouver
Harrison Sheet Metal Ltd.	3953 Pine St. S., Burnaby
Heatcraft Supplies Ltd.	291-3rd, Richmond
Hudson Plating Co. Ltd.	275 West 5th Ave., Vancouver
Hunt, F.W. Manufacturing Co.	5888 Beresford St., Burnaby
Industrial Chrome Co. Ltd.	844-4th Ave., Prince George
Industrial Galvanizing Ltd.	Granville Island, Vancouver
Kenmade Sheet Ltd.	24 West 7th Ave., Vancouver
Kent Metal Products Ltd.	1878 Kent St., Vancouver
Kingston Sheet Metal Works Ltd.	515 Pendray, Victoria
Knight, Allan Mfg. Co. Ltd.	7304 Buller Ave., Burnaby
Lincoln Steel Products Ltd.	807 Capstan Way, Richmond
Metalcraft (1963) Ltd.	4207 Fraser St., Vancouver
Metal & Wood Products (1958) Ltd.	43 East 3rd Ave., Vancouver
Model Sheet Metal Works Ltd.	2010 Douglas St., Victoria
Modern Die & Stamping Ltd.	1000 Parker St., Vancouver
Monarch Steelcraft Ltd.	1290 Boundary Rd., Vancouver
Northern Culverts & Metal Products Ltd.	P.O. Box 421, Prince George
Peterson Metal Products Ltd.	4045 East 2nd Ave., Burnaby
Port Metal Products Ltd.	610 East 5th Ave., Vancouver
Pre-Fab Shop Limited	412 Alpha Terrace, Victoria
Quest Metal Works Ltd.	871 Homer St., Vancouver
Reith Manufacturing	293-3rd, Richmond
Rupert Sheet Metal Ltd.	253 First Ave., E., Prince Rupert
Steveston Sheet Metal Works	223 No. 1 Rd., Steveston
Superior Plating Works Ltd.	731 Homer St., Vancouver
Surrey Sheet Metal	17562-56 A Ave., Cloverdale
Thom, W.A. Sheet Metal Works Ltd.	1770 West Georgia St., Vancouver
Tidy, D. Welders Ltd.	20151 Logan Ave., Box 1087, Langley
Terminal Sheet Metal Works Limited	609 Terminal Ave., Vancouver
Tri-Metal Fabricators Ltd.	3751 Napier St., Burnaby
United Industrial Plating Limited	356 West 1st Ave., Vancouver
Van Metal Products Ltd.	7445-19th St., South Burnaby
Victoria Plating	892 Devonshire Rd., Victoria
Weidon Metal Products	1350 East Georgia St., Vancouver
Westeel-Rosco Limited	8750 Ash St., Vancouver
Westeel-Rosco Limited	8449 Main St., Vancouver
Western Coastwise Ltd.	8194 Ontario St., Vancouver
Westland Metals Ltd.	1250 Glen Drive, Vancouver
Westmetco Sheet Metal Ltd.	706 Victoria St., New Westminster
Williamson, Stan Mfg. Co. Ltd.	7763 Edmonds St., New Westminster

CONCEPTS AND DEFINITIONS

Census of Manufactures

General

The Census of Manufactures is an annual mail survey covering Canada's Manufacturing Industries. It is based on the Standard Classification of Industries and full details concerning the system may be found in the Standard Industrial Classification manual, Catalogue No. 12-501 which is available from the Queen's Printer or the Dominion Bureau of Statistics. In summary, the Classification as it relates to the manufacturing industries provides for a breakdown into 140 industries arranged in 20 major industry groups. Of the 140 (3 digit) industries, 18 are further broken down into 55 (4 digit) sub classes. At the Canada level, principal statistics are collected and compiled for 176 separate industries. They cannot all be published separately by province, however, because of the confidential nature of the data in certain provinces.

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

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

The results of the Census are presented in some 135 publications. In addition to these annual industry publications there are annual summary reports for Canada and the provinces and special reports giving principal statistics by detailed geographic areas, by type of ownership and size of establishment. A special annual report covering the shipments of all manufactured commodities arranged in alphabetical order is also published.

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

Establishment

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

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

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

Each establishment is required to report on all the activities carried out within 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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