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1964

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METAL STAMPING, PRESSING AND COATING INDUSTRY

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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 stampings 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 tin-smithing 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 Industry No. 309 - Miscellaneous Metal Fabricating Industries.

An analysis of the 1964 statistics for this industry indicates that the value of shipments of products of own manufacture and the value of production have increased by 10.4 per cent, the total value of materials used in the fabrication of products of own manufacture increased by 8.3 per cent and value added increased by 12.9 per cent. The ratio of value of materials used to value of production was 51 per cent in 1964 in comparison to 52 per cent in 1963 and the ratio of value added to production was 45 per cent in 1964 in comparison to 44 per cent in 1963.

It should be noted that 39 additional firms were included in this industry in 1964.

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, pulp and paper machinery, materials handling equipment, automobile accessories, electronic equipment, screen plate, tools, dies and fixtures, screw machine products and tubular steel products.

SYMBOLS

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

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

TABLE 1. Principal Statistics, 1961-64

Year and province	Establishments	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
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	203,233
1963													
Newfoundland	1	39	83	131	19	490	970	476	—	—	59	237	534
Prince Edward Island	1												
Nova Scotia	4												
New Brunswick	4	8	16	31	6	296	486	200	x	x	17	84	290
Quebec	128	4,804	10,490	21,697	1,261	60,556	112,999	51,544	39	181	6,010	28,877	53,631
Ontario	316	11,022	23,668	49,212	3,567	170,568	305,355	133,800	97	401	14,686	71,294	138,058
Manitoba	26	828	1,772	3,289	166	7,281	14,836	7,089	5	18	1,128	4,943	7,774
Saskatchewan	9	302	646	1,195	47	3,888	6,994	3,137	—	—	403	1,692	3,430
Alberta	27	381	787	1,653	77	7,693	13,043	5,367	x	x	539	2,486	5,669
British Columbia	58	872	1,780	4,384	252	16,758	28,314	11,608	13	56	1,182	6,402	12,367
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
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

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1963													
Under \$10,000	20	6	12	13	6	40	126	63	18	41	7	15	83
\$ 10,000 to \$ 24,999	51	48	96	134	27	314	829	499	51	171	59	165	499
25,000 " 49,999	48	148	301	491	49	599	1,757	1,129	39	173	176	580	1,138
50,000 " 99,999	79	461	936	1,705	164	2,064	5,591	3,437	30	162	571	2,166	3,462
100,000 " 199,999	88	884	1,794	3,319	268	5,125	12,394	7,266	18	96	1,165	4,735	7,774
200,000 " 499,999	129	2,929	6,091	10,651	821	16,188	40,157	23,419	2	19	3,639	14,753	24,489
500,000 " 999,999	70	2,580	5,595	10,086	678	23,658	47,969	23,939	1	7	3,251	14,434	25,390
1,000,000 " 4,999,999	73	6,418	13,775	27,744	2,006	90,346	167,438	75,766	—	—	8,766	41,323	80,333
5,000,000 and over	16	4,782	10,645	27,451	1,375	129,198	206,738	77,684	—	—	6,213	36,493	78,835
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	177	1,352	(48)
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													
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

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1963													
Under \$10,000	51	26	52	82	21	254	589	321	51	138	29	71	320
\$ 10,000 to \$ 24,999	50	96	192	313	38	533	1,399	837	40	171	121	388	838
25,000 " 49,999	79	387	781	1,381	141	2,208	5,117	2,823	39	195	487	1,769	2,858
50,000 " 99,999	90	725	1,483	2,682	250	6,442	12,701	6,158	19	97	953	3,845	6,631
100,000 " 199,999	110	2,024	4,115	7,407	560	11,887	28,105	15,977	9	62	2,565	10,451	16,871
200,000 " 499,999	108	3,706	7,960	14,336	1,021	35,643	69,274	33,323	—	—	4,643	20,221	35,190
500,000 " 999,999	42	2,776	6,088	11,614	731	41,813	72,015	29,122	1	7	3,584	16,562	30,485
1,000,000 " 4,999,999	40	6,516	14,067	30,695	2,036	104,012	188,817	84,387	—	—	9,160	45,735	88,271
5,000,000 and over	4	2,000	4,505	13,103	597	64,738	104,979	40,275	—	—	2,305	15,622	40,538
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	177	1,352	(48)
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													
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	101,799
5,000,000 and over	5	2,555	5,615	15,842	731	70,648	119,598	49,723	—	—	3,004	19,297	50,899
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

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1963													
Under \$10,000	51	26	52	62	21	254	589	321	51	138	29	71	320
\$ 10,000 to \$ 24,999	51	101	202	325	38	543	1,435	862	41	174	126	401	863
25,000 " 49,999	76	370	747	1,325	136	2,164	4,956	2,707	35	180	464	1,685	2,724
50,000 " 99,999	85	681	1,391	2,539	234	5,675	11,414	5,709	22	110	868	3,462	5,768
100,000 " 199,999	109	1,945	3,974	7,079	553	11,661	27,296	15,293	9	62	2,436	9,914	16,023
200,000 " 499,999	111	3,621	7,745	13,874	1,010	33,597	66,491	32,683	—	—	4,545	19,622	34,233
500,000 " 999,999	45	2,881	6,338	12,191	755	40,588	70,956	29,275	1	7	3,721	17,337	31,012
1,000,000 " 4,999,999	42	6,631	14,289	31,095	2,052	108,312	194,881	86,097	—	—	9,353	46,551	90,521
5,000,000 and over	4	2,000	4,505	13,103	597	64,738	104,979	40,275	—	—	2,305	15,622	40,538
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	177	1,352	(48)
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													
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

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1963													
Under 5 employed	100	109	218	339	61	878	2,143	1,228	89	296	135	423	1,227
5- 14 employed	178	1,125	2,290	4,158	391	11,801	22,949	11,122	65	337	1,461	5,843	11,708
15- 49 "	182	4,106	8,663	16,133	1,213	39,125	78,531	38,858	4	30	5,310	23,511	40,921
50- 99 "	61	3,213	6,930	12,914	980	43,590	77,420	33,104	1	7	4,069	18,125	34,648
100-199 "	30	3,046	6,530	12,205	898	32,228	69,056	35,787	—	—	4,078	17,920	38,187
200-499 "	19	4,644	10,008	23,271	1,238	91,128	147,647	56,902	—	—	6,387	33,760	58,902
500 employed and over	4	2,013	4,604	12,574	613	48,779	85,252	36,222	—	—	2,407	15,081	36,409
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	177	1,352	(48)
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													
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

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

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	
1963													
Individual ownerships	74	168	336	530	71	1,007	2,409	1,350	74	316	179	565	1,361
Partnerships	42	234	473	768	79	1,181	3,280	2,066	85	354	249	864	2,070
Incorporated companies	458	17,654	38,434	60,294	5,245	265,343	477,310	209,805	...	...	23,419	113,236	218,571
Co-operatives .....	—	—	—	—	—	—	—	—	...	...	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	177	1,352	(48)
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													
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	121,546	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

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

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1963	1964	1963	1964	1963	1964
\$'000						
Output						
1. Shipments and other revenue	482,998	532,526	51,748	51,571	534,746	584,097
Inventories—Goods of own manufacture:						
Add closing—Goods in process	15,455	19,360	...	...	15,455	19,360
Finished goods	30,593	28,676	...	...	30,593	28,678
Deduct opening—Goods in process	14,641	15,965	...	...	14,641	15,965
Finished goods	28,258	27,623	...	...	28,258	27,623
2. Net inventory change	3,149	4,450	...	...	3,149	4,450
3. Gross output (1 + 2)	486,147	536,976	51,748	51,571	537,895	588,547
Input						
4. Purchases of goods not of own manufacture .....	...	...	40,804	40,699	40,804	40,699
Inventories—Goods not of own manufacture:						
Add opening .....	...	...	5,679	5,459	5,679	5,459
Deduct closing .....	...	...	5,368	6,089	5,366	6,089
5. Cost of goods sold (not of own manufacture) .....	...	...	41,115	40,069	41,115	40,069
6. Materials, supplies, etc.	267,531	290,430	1,901	2,077	269,432	292,507
7. Fuel and electricity	5,395	5,713	...	...	5,395	5,713
8. Gross input (5 + 6 + 7)	272,926	296,143	43,016	42,146	315,942	338,289
Value added (3 - 8)	213,222	240,834	8,732	9,425	221,954	250,259

TABLE 8. Employment and Payroll, 1963 and 1964

Year and province	Employees										Salaries and wages					
	Production and related workers				Adminis- trative and office		Sales and distribution		Total		Production and related workers		Adminis- trative and office	Sales and distribution	Total	
	Manufacturing		Other													
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Manufac- turing	Other				
	number										\$'000					
1963																
Newfoundland	}															
Prince Edward Island		33	6	—	—	15	4	1	—	49	10	131	—	97	9	237
Nova Scotia																
New Brunswick		8	—	—	—	2	1	4	2	14	3	31	—	21	32	84
Quebec		4,431	373	30	—	663	211	253	49	5,377	633	21,697	190	5,214	1,776	28,877
Ontario		9,502	1,520	32	6	1,780	868	842	136	12,156	2,530	49,212	161	15,872	6,048	71,294
Manitoba		819	9	—	—	204	65	25	6	1,048	80	3,289	—	1,478	175	4,943
Saskatchewan		297	5	—	—	72	18	9	2	378	25	1,195	—	430	67	1,692
Alberta		374	7	—	—	94	25	32	7	500	39	1,653	—	601	233	2,486
British Columbia		836	36	22	—	169	61	49	9	1,076	106	4,384	108	1,483	427	6,402
Yukon and Northwest Terri- tories		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals		16,300	1,956	84	6	2,999	1,253	1,215	211	20,598	3,426	81,593	460	25,196	8,767	116,016
1964																
Newfoundland	}															
Prince Edward Island		45	2	—	—	12	6	11	3	68	11	160	—	108	63	331
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

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

Month	1963		1964	
	Male	Female	Male	Female
number				
Establishments reporting monthly detail (large establishments only):				
January	13,137	1,569	14,025	1,743
February	13,248	1,581	14,051	1,791
March	13,549	1,644	14,606	1,838
April	13,827	1,651	14,821	1,867
May	14,254	1,723	15,361	1,690
June	14,811	1,740	15,969	1,881
July	14,533	1,665	15,415	1,763
August	14,873	1,661	15,832	1,805
September	14,441	1,640	15,819	1,795
October	14,225	1,597	15,808	1,798
November	13,794	1,612	15,405	1,775
December	13,072	1,582	14,914	1,745
Averages	13,988	1,644	15,150	1,812
Establishments reporting annual averages (small establishments only)				
Average for all establishments	2,312	312	2,234	242
Average for all establishments				
	16,300	1,956	17,384	2,054

TABLE 10. Inventories, 1964

Province	Manufacturing				Non-manufacturing	Total inventories
	Materials, supplies, etc.	Goods in process	Finished goods of own manufacture	Total	Products or materials purchased for resale	
book value \$'000						
Opening:						
Newfoundland	77	99	59	234	142	376
Prince Edward Island						
Nova Scotia						
New Brunswick						
Quebec	6,632	4,233	7,742	18,606	1,239	19,846
Ontario	19,931	8,134	16,831	44,896	3,280	48,176
Manitoba	1,747	714	613	3,074	129	3,203
Saskatchewan	846	218	231	1,293	45	1,339
Alberta	1,000	431	744	2,176	348	2,524
British Columbia	1,019	2,138	1,403	4,559	275	4,834
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	31,251	15,965	27,623	74,840	5,459	80,299
Closing:						
Newfoundland	76	119	52	247	143	391
Prince Edward Island						
Nova Scotia						
New Brunswick						
Quebec	9,257	5,439	8,233	22,929	1,449	24,378
Ontario	23,695	10,377	17,078	51,150	3,493	54,643
Manitoba	1,820	679	730	3,229	116	3,345
Saskatchewan	832	216	265	1,313	43	1,356
Alberta	1,190	500	881	2,571	408	2,980
British Columbia	1,511	2,031	1,439	4,981	436	5,417
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	38,382	19,360	28,678	86,421	6,089	92,509

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

Description	1963		1964	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Large establishments reporting commodity detail:				
Bituminous coal:				
(a) From Canadian mines	ton	4,835	62	4,595
(b) Imported	"	10,545	134	9,595
Sub-bituminous coal (from Alberta mines only)	"	268	4	239
Anthracite coal	"	449	7	171
Lignite coal	"	—	—	—
Coke	"	—	—	—
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	1,385,688	529	1,588,836
Fuel oil including kerosene or coal oil	"	5,961,106	652	5,842,910
Wood	cord	206	4	—
Gas:				
(a) Liquefied petroleum gases	Imp. gal.	144,533	37	196,925
(b) Other manufactured gas	M cu. ft.	—	—	—
(c) Natural gas	"	1,357,621	1,180	1,570,131
Other fuel .....	...	...	2	28
Electricity purchased	kwh.	174,460,942	1,925	187,278,125
Steam purchased .....	...	...	93	106
2. Small establishments not reporting commodity detail:				
Estimate for fuel and electricity .....	...	767	...	688
3. All establishments:				
Total fuel and electricity used .....	...	5,395	...	5,713

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

Description		1963		1964	
		Quantity	Cost \$'000	Quantity	Cost \$'000
1. Materials used:					
Iron and steel:					
Bars	ton	11,100	1,855	13,886	2,216
Plates	"	26,803	4,103	30,652	5,058
Sheets:					
Black	"	200,307	31,193	235,788	37,400
Galvanized	"	150,266	27,700	158,328	29,566
Tin plate	"	352,040	63,269	369,992	66,263
Strip	"	25,087	4,471	36,229	6,363
Structural shapes	"	6,417	1,093	5,728	1,192
Wire	"	2,751	557	2,453	479
Pipe, tubes and fittings .....		..	731	..	1,262
Alloy steel in all forms:					
Carbon and alloy steel, including tool steel:					
Billets, bars and rods .....		..	136	..	199
Other shapes .....		..	1,045	..	1,024
Stainless:					
Billets, bars and rods .....		..	269	..	1,385
Sheets .....		..	5,875	..	4,390
Other shapes .....		..	797	..	1,579
Other iron and steel .....		..	3,848	..	3,465
Non-ferrous metals:					
Aluminum:					
Castings	pound	188,777	77	223,321	129
Sheet	"	20,604,680	8,049	19,618,251	7,330
Other forms	"	17,808,910	6,409	20,634,299	7,472
Brass and bronze	"	1,814,158	872	2,059,367	1,027
Copper:					
Sheet	"	697,786	349	506,423	287
Wire	"	107,470	60	77,976	43
Other	"	345,054	198	308,531	177
Lead	"	612,784	72	532,099	74
Nickel	"	391,547	431	403,213	419
Tin	"	29,066	36	24,237	36
Zinc	"	7,087,947	937	6,437,818	946
Solders	"	2,409,865	631	3,931,864	949
Other non-ferrous metals .....		..	177	..	281
Other materials:					
Lumber	M ft. b.m.	4,520	442	10,562	1,014
Frit for enamelling	pound	2,398,614	472	2,345,038	470
Muriatic acid	"	1,251,916	40	1,255,085	42
Paints, oils and varnishes .....		...	5,528	...	5,722
Cork discs .....		...	652	...	512
Ammonium chloride	pound	142,618	14	134,356	13
Sulphuric acid, 100%	"	1,828,604	42	1,836,762	43
All other materials and components used ¹ .....		...	80,592	...	85,375
2. Containers and other packaging materials and supplies used					
3. Operating, maintenance and repair supplies used (excluding fuel)					
4. Amount paid out to others for work done on materials owned by establishments.....					
Totals					

¹ No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$13,375,493 in 1963 and \$13,389,807 in 1964.

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

Description	1963		1964	
	Quantity	Value \$'000	Quantity	Value \$'000
1. Products:				
Barrels and drums, steel:				
Repeat shippers	No. 415,351	2,271	¹ ..	¹ ..
One-time shippers	1,252,973	5,565	1,272,332	6,379
Bottle caps - Metal	15,904	..	15,245
Cans, metal (food and non-food)	122,323	..	129,459
Culvert pipe	ton 59,662	18,129	64,092	21,266
Dairy supplies:				
Cream and milk cans	591	..	¹ ..
Other	304	..	¹ ..
Galvanized ware (pails, washtubs, etc; but not garbage and ash cans)	1,754	..	1,469
Garbage and ash cans	1,393	..	1,540
Hardware and tools	6,445	..	8,946
Heating equipment:				
Pipe and elbows (furnace and stove)	5,380	..	6,532
Tank heaters for domestic water supply	No. 125,932	6,831	..	6,752
Other heating equipment (range boilers, stoves, etc.)	5,031	..	5,695
Kitchen equipment for cafeterias, restaurants, etc.	11,460	..	12,330
Kitchenware, household (vitreous enamelled aluminum and stainless steel)	7,783	..	8,822
Maple syrup equipment:				
Evaporators (complete sets of pans)	174	..	148
Furnaces	30	..	14
Other	240	..	89
Poultry supplies (incubators, brooders, etc.)	165	..	110
Signs metal (including enamelled signs)	1,123	..	1,053
Spinnings, all metals (n.e.s.)	402	..	2,247
Stampings, all metals (n.e.s.)	23,756	..	27,192
Steel office furniture	28	..	780
Tanks:				
Pressure and vacuum	1,142	..	1,159
Storage and processing	4,629	..	6,370
Other	7,278	..	6,330
Tinware, japanned or not	2,172	..	4,076
Architectural and ornamental metal work	1,737	..	1,773
Metal door frames	1,261	..	797
Flooring, open steel	1,834	..	2,522
Lockers and shelving	4,050	..	3,055
Metal lath and corner bead	3,317	..	3,264
Metal mouldings and trim	213	..	433
Partitions, aluminum and steel	1,762	..	934
Roof deck	8,864	..	8,855
Roof drainage equipment:				
Steel	2,242	..	1,949
Other	498	..	645
Sheets, roofing and siding:				
Aluminum	11,093	..	7,122
Steel	8,482	..	9,343
Ventilators, including ducts	6,571	..	7,163
Windows, excluding combination storm and screen	921	..	¹ ..
Windows, other (combination storm and screen)	353	..	483
Prefabricated or portable metal buildings, complete units (in sections or panels) and prefabricated exterior metal panels (curtain wall sandwich panels and single faced panels)	9,334	..	11,392
Panels, parts or sections for prefabricated buildings, not sold as a complete unit	¹ ..	..	¹ ..
Amount received for custom anodizing	1,937	..	2,064
Amount received for custom electroplating	19,134	..	21,702
Amount received for custom enamelling	955	..	1,185
Amount received for custom work and repairs, n.e.s.	2,985	..	5,165
All other products	141,030	..	167,401
2. Amount received in payment for work done on materials and products owned by others	3,314	..	3,136
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above	(1,190)	..	(1,523)
Net adjustment for establishments receiving progress payments	(4)	..	(37)
Total adjusted value of shipments and work done	482,998	..	532,526

¹ Included with all other products.

TABLE 14. Shipments of Selected Goods of Own Manufacture - All Industries
(Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed)
A. Metal Cans, 1955 - 64

Year	Value	Year	Value
	\$'000		\$'000
1955	88,559	1960	108,520
1956	90,188	1961	109,578 ¹
1957	97,521	1962 ²	122,680
1958	107,125	1963	123,734 ^f
1959	114,098	1964	128,087

B. Steel Barrels and Drums, 1955 - 64

Year	Repeat shippers		One-time shippers	
	Number	Value	Number	Value
		\$'000		\$'000
1955	123,530	909	1,019,297	3,200
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 ^f	5,633 ^f
1964	x	x	1,319,335	6,326

C. Metal Lath and Corner Bead, 1955 - 64

Year	Value	Year	Value
	\$'000		\$'000
1955	3,664	1960	3,963
1956	4,299	1961	4,118
1957	4,136	1962	4,439
1958	4,691	1963	4,416
1959	4,450	1964	4,360

D. Metal Bottle Caps, 1955 - 64

Year	Value	Year	Value
	\$'000		\$'000
1955	12,172	1960	15,924
1956	13,130	1961	17,201
1957	13,990	1962	17,389
1958	14,491	1963	15,904
1959	15,700	1964	15,245

E. Sheet Metal Culvert Pipe, 1955 - 64

Year	Quantity	Value	Year	Quantity	Value
	tons	\$'000		tons	\$'000
1955	46,000	14,526	1960	54,720	17,314
1956	57,800	19,188	1961	64,130	20,026
1957	56,100	18,786	1962	66,317	20,490 ^f
1958	59,600	19,634	1963	63,432	19,332
1959	66,300	21,296	1964	68,804	22,570

See footnotes at end of table.

TABLE 14. Shipments of Selected Goods of Own Manufacture - All industries - Concluded
F. Roof Drainage Equipment, 1955-64

Year	Value	Year	Value
	\$'000		\$'000
1955	3,426	1960	3,162
1956	3,485	1961	2,845
1957	2,694	1962	2,728
1958	2,957	1963	2,750
1959	2,704	1964	2,893

G. Aluminum and Stainless Steel Kitchenware¹, 1955-64

Year	Value		Year	Value	
	Aluminum	Stainless steel		Aluminum	Stainless steel
	\$'000			\$'000	
1955	6,831	1,413	1960	5,707	1,675
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

H. Galvanized Sheets, 1955-64

Year	Tonnage sold	Value	Year	Tonnage sold	Value
		\$'000			\$'000
1955	156,000	25,426	1960	275,000	46,710
1956	206,000	34,194	1961	328,000	54,738
1957	170,000	28,893	1962	358,000	59,246
1958	192,000	32,636	1963	382,000	63,895
1959	299,000	51,265	1964	469,087	77,758

I. Stove and Furnace Pipe, 1955-64

Year	Value	Year	Value
	\$'000		\$'000
1955	2,279	1960	5,179
1956	3,228	1961	6,050
1957	3,812	1962	4,990
1958	3,970	1963	6,009
1959	5,063	1964	7,053

J. Aluminum and Steel Roofing and Siding, 1959-64

Year	Value	
	Aluminum	Steel
	\$'000	
1959	6,603	6,779
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

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

² Includes aluminum cans as of 1962.

³ Not including drums made by some companies for their own use only.

⁴ Starting with 1957, steel barrels and drums were defined as being over 10 Imperial gallons capacity. Repeat shippers were defined as being made of 16 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.

⁵ 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, 1964

(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
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
McDade, James	53 Dock St., Saint John
Quebec:	
A.R. Lite Mfg. Co.	1300 Valleyfield St., St-Vincent-de-Paul, Montreal 40
Accessories Manufacturers Limited	595 St-Rémi St., Montreal
Acme Plating Ltd.	Longueuil
Aero-Guide Ltée	6600, rue Magloire, St-Leonard
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
Arco Metals Inc.	7949 Dante Ave., Montreal
Armco Drainage & Metal Products of Canada Ltd.	Charny
Arrow Plating & Mfg. Ltd.	2165 de Montigny St. E., Montreal
Art-Bo Inc.	229, rue Rocheleau, Cap-de-la-Madeleine
Artnetwork Inc.	6120 Metropolitan Blvd. E., Montreal
Art Steel Products Ltd.	Lafleche
Atlantic Dry Kiln Ltd.	Rimouski
Audet, J.E. Soudures Inc.	455-1ère Ave., Québec
Auvents Richelieu Enr.	Iberville
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
Bélanger & Frère Enr.	159, rue de la Madone, Mont-Laurier
Brissette, J. Ltée	1002, boul. Rosemont, Montreal
Brock Steel Corp.	4305 Iberville 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.	Champligny
Cassidy & Mallard Ltd.	1156 Papineau St., Montreal
Cassils & Co.	111 Port St., Montreal
Central Duct Work Reg'd.	St. Jean
Chatham Art Metal Works Ltd.	781 Chatham St., Montreal
Cie Jubco Inc.	9900, rue de Martigny, Montreal
Circ-Etch Company Limited	865, Montée de Liesse, St-Laurent
City-Wide Plating Co. Ltd.	1185 Hickson, Verdun
Continental Can Company of Canada Limited	3455 Côte de Liesse Rd., St. Laurent
Cresswell-Pomeroy Ltd.	Granby
Crown Cork & Seal Company Ltd.	10,000 Mellleur St., Montreal
D. & L. Sheet Metal Works Reg'd.	1575 Taschereau Blvd., Ville Jacques-Cartier
Defender Metal Fabricators Ltd.	180 Victoria St., Lachine
Delorimier Industries	9970 Paris St., Montreal-nord
Desjardins, Bernard Ferblantier	Rivière-des-Prairies
Dupont Léon	St-Dominique
Eastern Industries Ltd.	Drummondville
Empire Electro-Plating Works Ltd.	425 River St., Verdun
Engineering Products of Canada Ltd.	5053 Ontario St. E., Montreal
Expert Sheet Metal Works	3906 St. Lawrence Blvd., Montreal
Ferblanterie Générale Enr.	Étang Du Nord, Magdalen Island
Foisy, R. Ltd.	2140 Theodore St., Montreal
Forest, Roger Inc.	2404 Vimont St., Montreal
Foresteel Industries Ltd.	Rivière-des-Prairies
Fortin, L.P. Enr.	2050 Amyot St., Montreal
Fournier Steel Work Ltd.	Black Lake
Garand & Thibault Inc.	250 Lee St., Quebec
G.B. Welding Inc.	350, ave. des Perrons, Ville d'Auteuil
General Iron Works Co. Ltd.	7733-18th Ave., Ville St-Michel
General Metal Works Limited	4021 A Cool St., Verdun
General Steel Wares Limited	2355 de Lisle St., Montreal
Gero Ltd.	7701-17th Ave., St-Michel
Hamel & Guertin Limited	2665 Charlemagne St., Montreal
Hochelaga Metal Fabricators Inc.	1515 Bercy St., Montreal
Hotel & Restaurant Sheet Metal Works Inc.	316 Youville Square, Montreal
Hull Ottawa Plating Ltd.	6 Morin St., Hull
Hunter Douglas Ltd.	Box 1000, Lachine
Hurtsteel Products Ltd.	391 Courtemanche St., Montreal East
Industrial Containers Limited	288 Lafleur Ave., Ville LaSalle
Industrial Stampings Ltd.	Bromptonville

List of Establishments classified to This Industry, 1964 - Continued

Name	Location
Quebec - Concluded:	
Industries Blainville Enr.	Ste-Thérèse, Cté de Terrebonne
International Buffing Kitchen Ware Specialties Reg'd.	5334 - 13th Ave., Montreal
International Cooperage Co. of Canada Ltd.	Buckingham
Julien, Léo T. Inc.	St-Malo
Kitchen Specialties Inc.	2195 Ekers Ave., Town of Mt. Royal
La Société Dramen Inc.	5035, rue Ontario-est., Montréal
Lamer & Côté Cie. Ltée	2260, rue Ste-Marguerite, Ville Jacques-Cartier
Lasalle Metal Caps Ltd.	1300 Oller St., Montreal
Laurentide Enamelers Ltd.	5661, rue de Lanaudière, Montréal
Laurentide Metal Stamping Ltd.	St-Jérôme
Laval Sheet Metal Works Inc.	1870, boul. Labelle, St-Martin
L'Hoir 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
Leveillé Mfg. Co.	8012-16th Ave., St-Michel
Lillian-Russell Reg'd.	540 Beaudry St., Montreal 24
Limoges, Jean-Paul	974 St. Antoine St., St. Laurent
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 Mill St., Ville St-Pierre
Martin Steel Ltd.	2915 Sherbrooke St. E., Montreal
Metal Casting & Plating Co. Inc.	5701 Côte St-Paul Rd., Montreal
Metelec Mfg. Co.	118 Duvernay St., St-Jean
Mitchell, Robert Co. Ltd., The	350 Décarie Blvd., St. Laurent
Modern Metal Industries Inc.	2843 Gifford St., Montreal
Modern Plating Inc.	Drummondville
Montreal Platefab Ltd.	5160 Paul-Pau St., Montreal 5
Montreal Roofing Mfg. Co. Ltd.	2125 St. Catherine St. E., Montreal
North American Food Eqpt. Mfg. Ltd.	10261 Garon St., Montreal North
Otterburn Sheet Metal Industries	Otterburn Heights
P.M.L. Industries Reg'd.	8695-10th Ave., St-Michel
Paterson, Wm. & Co. Inc.	555 Hays St., Montreal
Plater's Inc.	2016 Richardson St., Montreal
Plating Industries Ltd.	3155-36e Rue, St-Michel
Presto Plating Reg'd.	1301 Demontigny St. E., Montreal
Quebec Culvert Co.	Box 11, N.D.G. P.O. Stn., Montreal 28
R.J. Stamping Co. Ltd.	8001-18th Ave., St-Michel
R.L. Metal Ltée	7956-15th Ave., St-Michel
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
Rogala, Joseph	100 Pratt St., Longueuil
Roll Up Aluminum Co. Ltd.	1035 Panneton St., Sherbrooke
Rosco Metal Products Ltd.	355 Guy St., Montreal
St. Jean Roofing Inc.	400 St. Georges St., St-Jean
St. John Metal Stamping Reg'd.	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.	2251 Wurtele St., Montreal
Talarico Limited	3726 St. Ambroise St., Montreal
Talbot Metal Inc.	10749 Racette St., Montreal-North
Teknik, B.S. Inc.	Valcourt
Trans-Canada Industries Inc.	1207 Valleyfield St., St-Vincent-de-Paul, Montreal 40
Tremblay Metals	7042 Shelley St., St-Michel
Tripar Stamping & Mfg. Co. Inc.	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	Lennoxville
United Stamping Co. Ltd.	10747, rue Racette, Montreal-Nord
Vaccum Platers Inc.	151 Lagauchetière St. W., Montreal
Ventilateurs Lauzon Enr.	5344-13ème Ave., Montreal
Verdun Anodizing Inc.	3977 Verdun Ave., Verdun
Vtc Aluminum Ware Ltd.	150 Louvain St. W., Montreal
Vic Metal Inc.	Victoriaville
Warmal Sheet Metals Inc.	Cowansville
Zimmer Co.	2100 Remembrance Rd., Lachine
Ontario:	
A & A Tool & Dye Co.	83 Portland St., Mimico
A. & M. Mfg.	364 Grande Ave. E., Chatham
Abramovitz, Louis	49 Ossington Ave., Toronto
Acadian Platers Ltd.	315 Rexdale Blvd., Rexdale
Accurate Machine & Tool Ltd.	1844 Wilson Ave., Weston
Achex Products Ltd.	76 McCulloch St., Rexdale
Acme Electroplating Co. Ltd.	78 Duchess St., Toronto
Acme Stainless Steel Works	1947 Mattawa Ave., Cooksville
Acme Steel Co. of Canada Ltd.	743 Warden Ave., Scarborough
Adap Sheet Metal & Roofing	89 Ashley St. Rear, Hamilton
Advance Gerrard Electric Plating Ltd.	175 Elleen Ave., Toronto
Aero Steel Products	129 Cartwright Ave., Toronto
Airlume Manufacturing (Oshawa) Ltd.	15 Prince St., Oshawa
Ajax Precision Mfg. Co. Ltd.	37 Penn Drive, Weston
Alanco (Aurora) Limited	Aurora
Al-Brite Products Ltd.	1 Adam St., Kitchener
Alexander Metal Products Co. Ltd.	1550 Laperrière Ave., Ottawa

List of Establishments classified to This Industry, 1964 - Continued

Name	Location
Ontario - Continued:	
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.	144 Benworth Ave., Toronto
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.	177 McCormack Ave., Toronto
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	2 Industrial St., Toronto
Astrochrome Crankshaft Toronto Ltd.	186 Hymus Rd., Scarborough
Atlas Manufacturing	1797 Benjamin Ave., Windsor
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
Barker Poultry Equipment Co. Ltd.	3525 Mavis Rd., Cooksville
Beach Industries Ltd.	Smiths Falls
Beadex Dry Wall Specialties Ltd.	42 Racine Rd., Rexdale
Beaver Electro Plating Co.	26 Cranfield Rd., Toronto
Belfield Steel Products	70 Belfield Rd., Toronto (Rexdale)
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	Ingersoll
Brantford Mechanical Devices Ltd.	94 Grey St., Brantford
Br-Cad Electro Platers Ltd.	253 Guerrard St. E. Rear, Toronto
Brimac Arodizing 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
Browne, J. Ward Ltd.	2431 Weston Rd., Weston
Bruse Pressed Steel Products Ltd.	31 Britain St., Toronto
Brunt Metal Products (Hwy. 27) Ltd.	235 Belfield Rd., Rexdale
Buckley's Sheet Metal Mfg. Ltd.	5 Granger Ave., Scarborough
Burford Sheet Metal Ltd.	Burford
Butler Metal Products Co. Ltd.	Preston
Calco Metal Mfg.	RR. #3, St. Thomas
Cametoid Limited	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.	Burlington
Canadian Permacote Co.	408 Hanna St. E., 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	Chatham
Chicago Metallic Western Hemisphere Ltd.	30 Torlake Crescent, Toronto
Clark, John W. Ltd.	21 Six Point Rd., Toronto
Clemmer Industries Ltd.	446 Albert St., Waterloo
Coleman Metal Products	14 Sable St., Toronto
Columbia Metal Rolling Mills Ltd.	60 Enterprise Rd., Rexdale
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.	3565 Dundas St. W., 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.	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 & L Plating	126 Sinnott Rd., Scarborough
D.S.L. Manufacturing	2528 Wharton Glen, Cooksville
Danor Mfg. Co. Ltd.	Gorrie
Day, Simon Ltd.	15 Brydon Dr., Rexdale
Decedar Brothers Ltd.	Wallaceburg
Delmonte Eavestrough Co.	504 Victoria Ave., Windsor
Demuth Products Canada Ltd.	419 Albert St., Waterloo
Depco Metal Products Ltd.	24 Buckingham St., Toronto
Dillon, W.E. Company Limited	2 Copeland St., Toronto
Dominion Al-Chrome Corp. Ltd.	54 Carnforth Rd., Toronto
Dominion Electroplating Co.	Midland

List of Establishments classified to This Industry, 1964 - Continued

Name	Location
Ontario - Continued:	
Doris Metals Ltd.	Box 291, Peterborough
Dovercourt Electro-Plating Co. Ltd.	304 Bridgeland Ave., Toronto
Dow, Thomas Electroplating Ltd.	327 North Vickers St., Fort William
Dundas Sheet Metal Work Co.	459 College St. W., Toronto
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
East Side Plating Co. Ltd.	586 Ouellette Ave., Windsor
Ekco Products Co. (Canada) Ltd.	376 Birchmount Rd., Scarborough
Elan Tool & Die Ltd.	381 Park Ave. W., Chatham
El-Mech Manufacturing Ltd.	569 Southward St. S., Welland
El-Met-Parts Ltd.	Dundas
Elrose Steel Products	7 Elrose Ave., Weston
Embro Welding & Steel Fabricators Ltd.	Embro
Erno Mfg. Co. Ltd.	384 Dawes Rd., Toronto
Etmeco Limited	370 Munster Ave., Toronto
Everingham Bros. Ltd.	63 Advance Rd., Toronto
Ewing, Robert D. Metal Stampings	42 Hyde Park Ave., Hamilton
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., Stratford
Freeway Washer Limited	122 Judge Rd., Toronto
Frost Metal Products Ltd.	170 Chatham St., Hamilton
G. P. Metal Products Ltd.	82 Mack Ave., Scarborough
Gildon Metal Spinning Co.	111 Judge Rd., Toronto
Globe (Toronto) Mfg. Co. Ltd.	6 Halsey Ave., Toronto
Glosta Mfg. Co. Ltd.	Port Hope
Graham Sheet Metal Ltd.	Port Colborne
Grimsby Metal Products	Grimsby
Grosart Metal Products	1062 Nelson St., Oshawa
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
Hi-Lustre Limited	Perth
Hind Mfg. Co.	Bracebridge
Hogarth Platers Ltd.	37 Mansion Ave., Scarborough
Hollis Anodizing Service Ltd.	55 Milvan Drive, Weston
Holmes, G.M. & H.O. Limited	825 Fort William Rd., 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	15 Towns Rd., 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 Railside Rd., Don Mills
Industrial Platers (Windsor) Ltd.	2468 Ouellette Ave., Windsor
Inland Building Products Ltd.	100 Canadian Rd., Scarborough
International Cooperae Co. of Canada Ltd.	Fort William
International Cooperae Co. of Canada Ltd.	Stoney Creek
International Silver Co. of Canada Ltd.	Barrie
Jackson Metal Industries Ltd.	97 Frid St., Hamilton
Jeune Metal Products Ltd.	15 Jenet Ave., Toronto
Johnstel Metal Products (Div. Canada Ferro Co. 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 Ribalda Rd., Weston
Kent Buffing Specialty Ltd.	Lindsay
Kent Tool Ltd.	Markham
Ketchum Mfg. Co. Ltd.	396 Berkley Ave., Ottawa
King Metal Products Ltd.	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.	405 Nyberg St., Kitchener
L. & J. Plating Co. Ltd.	71 Wilkes Brantford
Lakehead Culvert Ltd.	493-16th Ave., Fort William
Leaside Plating Ltd.	41 Granger Ave., Scarborough
Leigh Metal Products Ltd.	101 Brookside St., London
Lion Sheet Metal Mfg. Ltd.	45 Densley 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
Luster Corporation of Canada Ltd., The	Dresden
Lustro Steel Products Co.	40 Holby Ave., Brampton
M.B.F. Industries	43 Colville Rd., Toronto
M-S-M Electroplating Ltd.	3 Regina St. N., Waterloo
McDonald Sheet Metal Limited	Preston
MacFarlane Engineering Co. Ltd.	2010 Dundas St. W., Toronto
MacKinnon & Urquhart	134 Brown's Line, Toronto
Magnetic Metals of Canada Ltd.	10 Spalding Dr., Brantford

List of Establishments classified to This Industry, 1964 - Continued

Name	Location
Ontario - Continued:	
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
Martin James Co. Ltd. (The)	371 Danforth Rd. Section D, Scarborough
McBride Mfg. Co. (Div. of Recto Ind. Ltd.)	2321 Edna St., Windsor
McDermott Metal Products Limited	124 Cartwright Ave., Toronto
McDonald, C.J. Co. Ltd.	344 Bering Ave., Toronto
McKeechie, John Tool & Stampings Ltd.	2720 Dundas St. W., 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	Millbrook
Milne Steel Fabricating Co. Ltd.	150 Chatham St., Hamilton
Milrod, Ralph Metal Products Ltd.	131 McCormick St., Toronto
Mitchell, Ross Heating & Air Conditioning	38 Alice St., Brantford
Mitten Industries Galt Ltd.	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 Clayton Rd., Weston
Munro Metal Products Limited	154 Oak Ave., Hamilton
Murphy Sheet Metal & Steel Fab. Ltd.	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.	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	Barrie
Precision Platers	520 Speers Rd., Oakville
Precision Vacuum Products Ltd.	91 Oxford St., Toronto
Premier Tool & Die Ltd.	66 Tycos Drive, Toronto
Presto Bumper Service Ltd.	230 King St. E., Toronto
Preston Metal & Roofing Products Ltd.	Preston
Price & Knott Mfg. Co. Ltd.	Box 160, Westhill
Prince Edward Tinning Co.	Demorestville
Pritchard Plating	9 Lambeth St., London
Progressive Platers Ltd.	41 Crockford Blvd., Scarborough
Provincial Alum. Awning Corp. Ltd.	955 Rosselawn Ave., Toronto
Qualified Precision Finishers	41 Crockford Blvd., Scarborough
Rapid Plating Works	323 Queen St. East, Toronto
Rauscher Plating Ltd.	190 Water St. S., Galt
Rayco Stamping Products Ltd.	383 Eugenie St., Windsor
Reeves & Helbein	30 de Grassi, Toronto
Reininger, R. & Son Ltd.	114 Railside 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
Rixinger & Schultes Ltd.	Markham
Rideau Aluminum & Steel Ltd.	1551 Michael St., MR #1, Ottawa
Riverside Sheet Metals Ltd.	3306 Wyandotte St., Riverside
Robert Steel Metal Co. Ltd.	192 Robert St., Hamilton
Robertson-Irwin Ltd.	411 Parkdale Ave. N., Hamilton
Robertsteel (Canada) Ltd.	413 Parkdale Ave. N., Hamilton
Rosco Metal Products Ltd.	1 Atlantic Ltd., Toronto
St. Mary's Chrome Plating	St. Marys
Sasco Tubes Limited	10 Tedder St., 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.	Brockville
Seneca (St. Catharines) Mfg. Ltd.	RR#4, St. Catharines
Sharp Sheet Metal Co. Ltd.	76 Millicent St., Toronto
Signode Canada Limited	15 Ridgetop Rd., Scarborough
Simon's Eastern Mfg. Co. Ltd.	170 University Ave. W., Waterloo
Slater Steel Industries Ltd.	Hespeler
Sol Friendly Sheet Metal Works Ltd.	16 Ryerson Rd., Toronto
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.	135 King George Rd., 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

List of Establishments classified to This Industry, 1964 - Continued

Name	Location
Ontario - Concluded:	
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 Sparton Ave., Ottawa
Taman Industries Ltd.	Coldwater
Terkel Insulated Products Ltd.	673 Wellington Ave., Windsor
Textron Canada Ltd. (Canada Fanner Div.)	50 Frid St., Hamilton
Thor Industries 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.	Box 5029, Burlington
Tri-Sure Products Ltd.	264 Welland Ave., St. Catharines
Tudhope Specialities Ltd.	Orillia
Turnball Elevator Ltd. (Eastern Steel Products Co. Div.)	777 Laurel St., Preston
Tweed Steel Works Eastern Ltd.	Tweed
Twin-Cee Co. Ltd.	Georgetown
Tyrell, Evert	Oakville
United-Carr Canada Ltd.	231 Gage Ave. N., Hamilton
United Electro-Platers	217 Lambton Ave., Toronto
Universal Handling Equipment Co.	610 Beach Rd., Hamilton
University Sheet Metal Products Ltd.	57 Chauncey Ave., Toronto
Vacuum Metalizing Limited	22 Carnforth Rd., Toronto
Vanguard Aluminum Mfg. Co.	575 Pierre Ave., Windsor
Vent Rite Mfg.	8 Newsham St., Toronto
Verral Metal Fabricators Div. of Magna Electronics Corp. Ltd.	22 Howden Rd., Scarborough
Vollcath of Canada Ltd.	95 Vulcan Rd., Rexdale
Vulcan Containers (Canada) Ltd.	15 Bethridge Rd., Texdale
War Bro Steel Ltd.	RR #2, Williamsburg
Weber Sheet Metal Ltd.	Simcoe
Webster, Thomas K. Ltd.	39 Vaughan St., Ottawa
West-End Plating Ltd.	1928 Mattawa Ave., Cooksville
Wheeler & Bain Limited	142 Mutual St., Toronto
White, David Sheet Metal Products	1025 Dupont, Toronto
Wickware-Stackbin Ltd.	Perth
Windsor Chrome-Plating Co. Ltd.	2700 Ouellette Ave., 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.	Thorold
Zenith Electroplating Ltd.	35 Shaft Rd., Rexdale
Manitoba:	
Acme Metal Products Ltd.	400 Keewatin St., Winnipeg
Advance Sheet Metal Co.	130 McKenzie St., Winnipeg
Armco Drainage & Metal Products of Canada Ltd.	37 Higgins Ave., Winnipeg
Arnett Co. Ltd.	Dufferin & Robinson Sts., 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 Manufacturing Co. Ltd.	725 Madison St., St. James
Engel Sheet Metal Mfg.	243 Jarvis Ave. W., Winnipeg
Great West Metal Products Ltd.	90 Alexander Ave., Winnipeg
Henn-Rich Manufacturing Ltd.	75 Archibald St., St. Boniface
Littleford Industries Ltd.	1760 Sargent Ave., Winnipeg
Man-Men Industries Ltd.	1512 Wall St., Winnipeg
Master Metal Products Co. Ltd.	470 Union Ave., Winnipeg
McDonald Bros. Sheet Metal & Roofing Co. Ltd.	51 Atkins St., Winnipeg
Metal Industries Ltd.	Brandon
Monarch Plating Co. Ltd.	250 McPhillips St., Winnipeg
Precision Platers Ltd.	197 Watt St., East Kildonan
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 Products Ltd.	Desautels St., St. Boniface
Western Standard Fittings Ltd.	Fort Whyte
Wood, John Company Limited	1550 Dublin Ave., Winnipeg
Saskatchewan:	
Allied Heating Supply (1963) Ltd.	3101 Railway 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.	2401 Faithful Ave., Saskatoon
Prairie Metal Products Ltd.	500-10th Ave. E., Regina
Saskatoon Bumper Electro Plating Ltd.	611 Avenue "C" S., Saskatoon
South Central Air Services	Assiniboia
Symon's Metalworkers Ltd.	Rocanville

List of Establishments classified to This Industry, 1964 - Concluded

Name	Location
Saskatchewan - Concluded:	
Westeel Products Ltd.	1100 Scarth St., Regina
Westeel Products Ltd.	Ave. F. & 22nd St., Saskatoon
Zol-Mark (Canada) Ltd.	1645 Osler St., Regina
Alberta:	
Alta. Aluminum Products Ltd.	13215 - 104th Ave., Edmonton
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.	10340 - 112th St., Edmonton
Edmonton Tinsmith Supplies Ltd.	8108 - 114th Ave., Edmonton
Expanded Metal Co. of Canada Ltd., The	Cooking Lake Trall, South Edmonton
Fairmont Plating (Alta) Ltd.	5625 - 103rd St., Edmonton
Hudson Plating Alta. Ltd.	4646 - 2nd St. S.E., Calgary
International Cooperaage Co. of Canada Ltd.	Lloydminster
McCready Products Ltd.	12603 - 123rd St., Edmonton
McKinley & Taylor Ltd.	11941 - 73rd St., Edmonton
Metal Fabricators & Roofing Limited	12509 - 124th St., Edmonton
Regal Sheet Metal Ltd.	1135 - 11th St. S.E., Calgary
Rheem Canada Limited	Clover Bar
Robertsteel (Canada) Ltd.	12697 - 82nd St., Edmonton
Rosco Metal Products Ltd.	40th Ave. & 15th St. E., Calgary
Standard Metal Products Ltd.	1111 - 11th St. W.S., Calgary
Trim Specialties Ltd.	8840 - 126th Ave., Edmonton
Westeel Products Ltd.	1902 - 11th St. E., Calgary
Westeel Products Ltd.	7900 - 115th Ave. E., Edmonton
Western Hand-Chrome Plating Co. Ltd.	5730 - 96th St., Edmonton
Western Sheet Metal Products	9338 - 56th St., Edmonton
Westland Metals Ltd.	5808 Fairmount Drive, Calgary
British Columbia:	
A.A.A. Aluminum Products Ltd.	3959 E. Hastings, North Burnaby
A.B.C. Plating Co. Ltd.	2235 Triumph St., Vancouver
Acc Sheet Metal Works	Vancouver
American Can Co. of Canada Ltd.	611 Alexander St., Vancouver
Armco Drainage & Metal Products of Canada Ltd.	8811 Laurel St., Vancouver
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.	132 Powell St., Vancouver
Bargess Bead Ltd.	316 West 2nd St., North Vancouver
Coast Coppersmiths	1302 Powell St., Vancouver
Columbia Sheet Metal Products Ltd.	949 West 7th Ave., Vancouver
Continental Can Co. of Canada Ltd.	Burnaby
Granberry Sheet Metal Ltd.	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
Hudson Plating Co. Ltd.	275 West 5th Ave., Vancouver
Hunt, F.W. Manufacturing Co.	5888 Beresford St., Burnaby
Industrial Chrome & Metalizing Ltd.	Prince George
Industrial Galvanizing Ltd.	Granville Island, Vancouver
Kenmade Sheet Metal 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 Builer Ave., Burnaby
McRae Metal Stamping Ltd.	5542 Mavis St., Burnaby
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
Monarch Steelcraft Ltd.	1290 Boundary Rd., Vancouver
Nelson Blower Co. Ltd.	580 West 6th Ave., Vancouver
Northern Culverts & Metal Products Ltd.	Prince George
Pacific Pipe & Flume Limited	Penticton
Peerless Metal Products Ltd.	Hammond
Peterson Metal Products Ltd.	4045 East 2nd Ave., Burnaby
Porcel Products Ltd.	3737 Napier St., Burnaby
Port Metal Products Ltd.	610 East 5th Ave., Vancouver
Quest Metal Works Ltd.	871 Homer St., Vancouver
Rosco Metal Products Ltd.	8750 Ash St., Vancouver
Rupert Sheet Metal Ltd.	Prince Rupert
Steveston Sheet Metal Works	Steveston
Superior Plating Works Ltd.	731 Homer St., Vancouver
Surrey Sheet Metal	Cloverdale
Thom, W.A. Sheet Metal Works Ltd.	1770 West Georgia St., Vancouver
Tidy, D. Welders Ltd.	15387 Fraser Hwy., North Surrey
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
Vancouver Island Platers	438 Kingston St., Victoria
Vancouver Plating Works Ltd.	1670 Pandora St., Vancouver
Vin Metal Products Ltd.	7445 - 19th St., South Burnaby
Victoria Plating	892 Devenshire Rd., Victoria
Vulcan Containers (Canada) Ltd.	New Westminster
Westeel Products Ltd.	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 56 (4 digit) sub classes. At the Canada level, principal statistics are collected and compiled for 176 separate industries. They cannot all be published separately by province, however, because of the confidential nature of the data in certain provinces.

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

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

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

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

Establishment

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

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

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

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

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

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

Head Offices and Auxiliary Units

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

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

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

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

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

Employees

(a) Production and related workers – Manufacturing activities

In addition to those engaged in production and assembling activities, they include those employed in storing, inspecting, handling, packing, warehousing, etc. They also include employees engaged in maintenance, repair, janitorial and watchman services and line supervisors (working foremen) engaged in similar work to that of the employees they supervise. For those establishments reporting on the "long" form, production and related workers engaged in manufacturing activity are reported as those receiving pay during the last pay period of each month, an average for the year being obtained by summing the monthly figures and dividing by 12. This procedure is followed even though the establishment did not operate in all months in order to arrive at equivalent annual full-time employment. The numbers are somewhat affected by turnover, in that employment is overstated when an employee changes employment during a pay period. In the case of those establishments reporting on the "short" form, respondents are requested to report average annual figures. The man-hours of production and related workers in manufacturing activity represent total man-hours paid (total hours at work during the calendar year plus hours not worked but nevertheless paid for, such as paid vacations, sick leave, statutory holidays, etc.). Data on man-hours are not collected from establishments reporting on the short form. Man-hours for these establishments are estimated on the basis of ratios derived from the 1958 census. During this census all establishments reported on the long form. In reporting overtime hours, respondents are requested to report only hours actually at work. It should be noted that the division of hours paid into production and related workers payrolls results in average hourly earnings and does not represent hourly wage rates which are collected and published by the Department of Labour and which are based on selected occupations.

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

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

(c) Administrative and office employees

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

(d) Sales and distribution workers

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

(e) Total Employees

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

Working Owners or Partners

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

Salaries and Wages

Salaries and wages refer to gross earnings of employees **before** deductions for income tax and employees contributions to social services such as sickness, accident and unemployment insurance, pensions, etc. They include all salaries, wages,

bonuses, profits shared with employees, the value of room and board where provided, commissions (paid to regular employees only) as well as any other allowance forming part of the worker's earnings. Payments for over-time are included. Figures on salaries and wages refer to the calendar year.

Fuel and Electricity

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

Materials and Supplies

(a) Manufacturing activities

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

(b) Non-manufacturing activities

1. Purchases for re-sale as such

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

2. Other materials and supplies used

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

purchased machinery and equipment. Also included is the cost of office supplies not chargeable to fixed assets accounts and the cost of such other items of materials and supplies used as food, beverages and supplies for establishment-operated cafeterias and lunch counters, first aid and medical supplies, laboratory supplies, etc.

Shipments

(a) General

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

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

(b) Shipments of goods of own manufacture

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

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

Shipments of goods of own manufacture of establishments which are coded to some other division of the Standard Industrial Classification (on the basis of principal activity) but which are engaged in manufacturing as a subsidiary activity

are collected by means of the Commodity questionnaire referred to earlier. Such shipments together with shipments of goods of own manufacture of establishments forming the universe of manufacturing industries are compiled and recorded in the various industry publications.

(c) Shipments of goods not of own manufacture

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

(d) Other revenue

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

Inventories

(a) Manufacturing activities

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

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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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