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INDUSTRIES

1965

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MISCELLANEOUS METAL FABRICATING INDUSTRIES

1965

For statistical purposes the industry titled Miscellaneous Metal Fabricating Industries in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in manufacturing metal products not elsewhere classified, such as weather stripping, guns, collapsible tubes, machinery fittings, plumber's goods (including enamelled plumbing fixtures), safes and vaults, and forgings such as chains, (except tire chains, see Industry No. 305 - Wire and Wire Products Manufacturers), anchors and axles. Also included are establishments primarily engaged in fabricating bars and rods for reinforcing concrete.

An analysis of the principal statistics for this industry indicates that the following changes occurred between 1964 and 1965. The value of shipments of products of own manufacture increased by 18 per cent, the value of production increased by 20 per cent and the total cost of materials used in products of own manufacture increased by 24 per cent. The ratio of cost of materials used to the value of production was 49 per cent for 1965 and 47 per cent for 1964. The ratio of value added to value of production was 51 per cent for 1964 and 50 per cent for 1965.

Because of the nature of the industry it is not possible to state the degree of specialization in the industry but some of the products included in the "all other" category were decorative metal and wire goods, fittings, expansion joints, automotive accessories, flexible tubing, home workshop tools, heating equipment, hydraulic equipment, steel strapping, decorative trim and materials handling equipment.

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	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		
1961													
Totals	331	10,978	22,680	43,993	4,006	95,269	218,745	118,023	94	368	13,249	66,442	122,839
1962													
Totals	338	11,781	24,413	48,550	4,389	108,320	243,538	133,675	88	362	16,283	72,377	137,479
1963													
Totals	343	12,469	26,407	53,212	4,569	123,032	265,142	141,196	89	372	16,627	77,209	147,255
1964													
Newfoundland	2	706	1,592	3,032	429	6,799	13,327	6,189	—	—	905	3,946	6,326
Prince Edward Island	—												
Nova Scotia	2												
New Brunswick	2												
Quebec	67	2,263	4,970	10,094	632	16,822	40,472	22,978	24	93	3,095	14,799	24,194
Ontario	241	9,384	19,900	42,261	3,629	107,961	225,813	117,324	62	318	12,468	60,923	121,432
Manitoba	15	491	1,007	2,020	137	8,030	14,118	5,193	10	34	663	3,001	5,581
Saskatchewan	5	73	146	285	20	383	963	563	x	x	95	489	899
Alberta	13	160	322	610	32	1,141	2,620	1,430	x	x	201	799	1,483
British Columbia	37	512	1,013	2,181	164	4,323	8,782	4,452	7	27	661	3,084	4,669
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	384	13,589	28,950	60,482	5,044	145,460	306,095	158,130	108	494	18,088	87,041	164,584
1965													
Newfoundland	2	836	1,902	3,789	489	8,747	17,034	8,519	—	—	1,047	4,839	9,110
Prince Edward Island	—												
Nova Scotia	2												
New Brunswick	2												
Quebec	69	2,476	5,505	11,713	714	21,061	46,045	26,194	21	86	3,350	16,867	27,250
Ontario	269	10,367	21,661	47,350	4,063	132,861	264,564	132,241	58	311	13,673	67,907	138,434
Manitoba	14	597	1,289	2,694	167	8,560	14,533	7,680	7	25	821	3,930	7,884
Saskatchewan	5	71	151	314	21	340	1,000	648	x	x	93	510	977
Alberta	14	187	386	764	45	1,449	3,120	1,624	x	x	230	989	1,716
British Columbia	45	628	1,247	3,081	208	6,856	13,462	6,801	6	28	803	4,162	7,177
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	422	15,162	32,141	69,706	5,707	179,874	359,758	183,888	96	470	20,017	99,204	192,546

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	16	3	6	7	4	36	110	72	14	33	5	14	72
\$ 10,000 to \$ 24,999	33	38	76	123	13	189	585	406	30	90	53	171	415
25,000 "	43	94	188	307	28	571	1,511	955	29	138	123	413	961
50,000 "	48	224	451	847	65	1,393	3,444	2,060	24	142	316	1,250	2,305
100,000 "	51	450	912	1,790	143	2,955	7,309	4,227	6	33	601	2,537	4,331
200,000 "	76	1,175	2,401	4,583	334	11,434	23,438	12,022	3	28	1,590	7,165	13,366
500,000 "	40	1,129	2,407	4,410	298	13,769	26,729	12,854	—	—	1,499	6,942	13,403
1,000,000 "	67	6,594	14,036	28,530	2,619	75,976	147,304	71,206	2	30	8,827	41,242	74,548
5,000,000 and over	10	3,882	8,472	19,885	1,540	39,136	95,666	54,329	—	—	5,074	27,306	55,184
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	384	13,589	28,950	60,482	5,044	145,460	306,095	158,130	108	494	18,088	87,041	164,584
1965													
Under \$10,000	13	2	4	6	4	30	91	57	11	25	4	10	57
\$ 10,000 to \$ 24,999	28	26	54	88	10	145	478	324	25	99	33	116	327
25,000 "	46	98	197	350	40	667	1,737	1,058	30	143	125	458	1,061
50,000 "	51	215	432	828	67	1,463	3,627	2,154	18	121	281	1,129	2,153
100,000 "	68	596	1,226	2,417	246	4,278	9,578	5,276	11	72	792	3,463	5,696
200,000 "	80	1,236	2,527	5,052	356	11,583	24,462	12,866	1	10	1,622	7,539	13,905
500,000 "	52	1,503	3,280	6,648	551	19,962	37,432	18,674	—	—	2,005	9,934	19,350
1,000,000 "	70	6,676	14,103	29,348	2,329	82,779	161,662	79,089	—	—	8,918	42,801	84,691
5,000,000 and over	14	4,810	10,317	24,969	2,104	58,966	120,692	64,390	—	—	6,200	33,506	65,325
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	37	248	(18)
Totals	422	15,162	32,141	69,706	5,707	179,874	359,758	183,888	96	470	20,017	99,204	192,546

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	25	8	16	21	6	85	225	133	21	51	13	38	135
\$ 10,000 to \$ 24,999	52	94	188	318	29	550	1,443	886	42	154	121	416	893
25,000 "	57	204	415	730	54	1,656	3,662	2,043	33	193	285	1,064	2,154
50,000 "	60	477	977	1,914	163	4,698	9,288	4,454	9	56	698	3,062	5,100
100,000 "	57	885	1,810	3,384	251	8,078	16,333	8,306	1	10	1,147	4,882	8,902
200,000 "	62	1,649	3,445	6,642	491	22,898	41,747	18,767	—	—	2,262	10,479	20,261
500,000 "	33	2,432	5,069	10,290	978	25,966	50,802	23,954	2	30	3,238	15,221	24,384
1,000,000 "	34	5,412	11,739	24,369	1,934	59,425	126,161	66,229	—	—	7,415	36,056	69,071
5,000,000 and over	4	2,428	5,289	12,814	1,138	22,103	56,434	33,357	—	—	2,909	15,824	33,684
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	384	13,589	28,950	60,482	5,044	145,460	306,095	158,130	108	494	18,088	87,041	164,584
1965													
Under \$10,000	23	9	20	30	7	86	232	137	17	45	13	42	139
\$ 10,000 to \$ 24,999	50	73	148	265	33	658	1,513	844	38	170	94	341	848
25,000 "	63	247	506	910	90	2,517	4,757	2,241	29	172	324	1,266	2,233
50,000 "	71	582	1,204	2,358	212	5,766	11,096	5,203	11	73	805	3,583	5,934
100,000 "	70	1,065	2,165	4,289	343	10,457	20,598	10,400	1	10	1,365	6,141	11,010
200,000 "	57	1,468	3,110	6,257	529	20,316	37,759	17,802	—	—	1,990	9,777	19,458
500,000 "	42	2,521	5,496	11,696	860	37,290	65,918	28,789	—	—	3,422	17,147	30,430
1,000,000 "	40	5,961	12,609	26,623	2,233	73,233	144,884	73,858	—	—	7,854	37,677	77,551
5,000,000 and over	6	3,236	6,883	17,278	1,401	29,551	73,003	44,615	—	—	4,113	22,982	44,991
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	37	248	(18)
Totals	422	15,162	32,141	69,706	5,707	179,874	359,758	183,888	96	470	20,017	99,204	192,546

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	25	8	16	21	6	85	225	133	21	51	13	38	135
\$ 10,000 to \$ 24,999	53	97	195	336	30	601	1,520	912	42	154	126	439	918
25,000 " 49,999	52	171	346	613	46	1,449	3,250	1,836	30	176	235	871	1,842
50,000 " 99,999	52	387	791	1,539	140	3,240	7,026	3,694	10	55	522	2,161	3,783
100,000 " 199,999	65	951	1,947	3,652	274	8,695	17,292	8,488	3	28	1,289	5,599	9,471
200,000 " 499,999	64	1,616	3,378	6,507	469	23,036	41,945	18,870	-	-	2,185	10,046	19,770
500,000 " 999,999	35	2,519	5,248	10,631	1,007	26,837	52,243	24,611	2	30	3,394	16,007	25,911
1,000,000 " 4,999,999	34	5,412	11,739	24,369	1,934	59,425	126,161	66,229	-	-	7,415	36,056	69,071
5,000,000 and over	4	2,428	5,289	12,814	1,138	22,103	56,434	33,357	-	-	2,909	15,824	33,684
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	384	13,589	28,950	60,482	5,044	145,460	306,095	158,130	108	494	18,088	87,041	164,584
1965													
Under \$10,000	22	8	18	28	7	83	220	129	17	45	11	37	129
\$ 10,000 to \$ 24,999	50	73	148	265	33	653	1,494	830	36	160	95	344	833
25,000 " 49,999	64	248	508	912	90	2,526	4,788	2,263	31	182	325	1,268	2,259
50,000 " 99,999	62	493	1,012	1,981	180	4,219	8,811	4,504	9	57	648	2,750	4,565
100,000 " 199,999	73	1,063	2,176	4,317	336	9,096	19,351	10,243	3	26	1,363	6,168	10,891
200,000 " 499,999	61	1,424	3,020	6,025	512	21,594	39,168	18,101	-	-	1,956	9,535	19,143
500,000 " 999,999	42	2,585	5,594	11,601	905	32,408	60,511	28,137	-	-	3,472	17,178	29,988
1,000,000 " 4,999,999	42	6,032	12,783	27,298	2,242	79,744	152,412	75,067	-	-	7,997	38,695	79,796
5,000,000 and over	6	3,236	6,883	17,278	1,401	29,551	73,003	44,615	-	-	4,113	22,982	44,961
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	37	248	(18)
Totals	422	15,162	32,141	69,706	5,707	179,874	359,758	183,888	96	470	20,017	99,204	192,546

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	102	139	279	476	58	1,292	3,256	1,968	82	339	190	690	1,995
5 - 14 employed	93	565	1,163	2,274	185	7,182	14,566	7,402	19	97	794	3,517	7,943
15 - 49 "	109	2,107	4,347	8,278	643	27,226	50,496	23,375	7	58	2,842	12,742	24,706
50 - 99 "	35	1,845	3,933	8,014	639	27,084	50,142	22,873	-	-	2,494	11,993	24,094
100-199 "	22	2,199	4,754	9,868	893	28,279	53,953	25,291	-	-	2,961	14,090	26,208
200-499 "	18	3,901	8,318	16,945	1,379	29,977	70,648	39,571	-	-	5,352	25,428	41,634
500 employed and over	5	2,833	6,156	14,626	1,247	24,419	63,036	37,650	-	-	3,455	18,582	38,003
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	384	13,589	28,950	60,482	5,044	145,460	306,095	158,130	108	494	18,088	87,041	164,584
1965													
Under 5 employed	96	128	260	462	65	1,382	3,244	1,830	70	321	173	662	1,850
5 - 14 employed	118	730	1,503	3,074	273	8,696	17,759	9,086	22	125	987	4,564	9,370
15 - 49 "	123	2,442	5,052	10,200	854	32,168	62,220	30,709	4	24	3,259	15,308	32,788
50 - 99 "	36	1,910	4,215	9,025	765	36,565	63,250	26,469	-	-	2,536	13,291	28,099
100-199 "	26	2,742	5,840	12,506	1,034	36,668	68,730	32,677	-	-	3,703	17,986	33,919
200-499 "	18	4,175	8,817	18,171	1,350	36,076	76,570	44,609	-	-	5,617	26,560	47,695
500 employed and over	5	3,035	6,455	16,269	1,365	28,320	65,985	38,508	-	-	3,705	20,587	38,844
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	37	248	(18)
Totals	422	15,162	32,141	69,706	5,707	179,874	359,758	183,888	96	470	20,017	99,204	192,546

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	49	122	244	463	37	868	2,090	1,207	53	240	129	492	1,207
Partnerships	27	188	252	463	56	1,500	2,819	1,381	55	254	131	542	1,456
Incorporated companies	308	13,349	28,453	59,556	4,951	143,093	301,185	155,542	...	...	17,828	86,007	161,922
Co-operatives													
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	384	13,589	28,950	60,482	5,044	145,460	306,095	158,130	108	494	18,088	87,041	164,584
1965													
Individual ownerships	51	93	188	350	36	853	1,928	1,044	52	244	97	360	1,045
Partnerships	19	62	124	229	23	511	1,191	659	44	226	66	244	692
Incorporated companies	352	15,007	31,829	69,127	5,648	178,509	356,639	182,186	...	...	19,817	98,353	190,827
Co-operatives .....	-	-	-	-	-	-	-	-	...	...	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	37	248	(18)
Totals	422	15,162	32,141	69,706	5,707	179,874	359,758	183,888	96	470	20,017	99,204	192,546

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	306,095	359,758	32,392	35,816	338,487	395,575
Inventories— Goods of own manufacture:						
Add closing— Goods in process	20,322	28,549	...	...	20,322	28,549
Finished goods	22,706	24,140	...	...	22,706	24,140
Deduct opening— Goods in process	19,205	20,543	...	...	19,205	20,543
Finished goods	21,284	22,436	...	...	21,284	22,436
2. Net inventory change	2,539	9,710	...	...	2,539	9,710
3. Gross output (1 + 2)	308,634	369,468	32,392	35,816	341,026	405,285
Input						
4. Purchases of goods not of own manufacture .....	...	...	25,038	26,528	25,038	26,528
Inventories— Goods not of own manufacture:						
Add opening .....	...	...	4,529	5,298	4,529	5,298
Deduct closing .....	...	...	5,176	6,514	5,176	6,514
5. Cost of goods sold (not of own manufacture) .....	...	...	24,391	25,312	24,391	25,312
6. Materials, supplies, etc.	145,460	179,874	1,547	1,847	147,007	181,721
7. Fuel and electricity	5,044	5,707	...	...	5,044	5,707
8. Gross input (5 + 6 + 7)	150,504	185,581	25,938	27,159	176,442	212,740
Value added (3 - 8)	158,130	183,888	6,454	8,657	164,584	192,546

TABLE 8. Employment and Payroll, 1964 and 1965

Year and province	Employees										Salaries and wages				
	Production and related workers				Administrative and office		Sales and distribution		Total		Production and related workers		Administrative and office	Sales and distribution	Total
	Manufacturing		Other								Manufacturing	Other			
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Manufacturing	Other			
number										\$'000					
1964															
Newfoundland															
Prince Edward Island															
Nova Scotia	692	14	-	-	115	48	21	15	828	77	3,032	-	738	176	3,946
New Brunswick															
Quebec	2,098	165	-	-	515	177	104	36	2,717	378	10,094	-	3,820	885	14,799
Ontario	8,272	1,112	2	-	1,659	734	584	105	10,517	1,951	42,261	7	14,387	4,268	60,923
Manitoba	485	6	-	-	130	29	13	-	628	35	2,020	-	887	94	3,001
Saskatchewan	73	-	-	-	15	6	1	-	89	6	285	-	196	8	489
Alberta	160	-	-	-	31	6	4	-	195	6	610	-	173	16	799
British Columbia	504	8	10	-	100	36	3	-	617	44	2,181	48	831	24	3,084
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	12,284	1,305	12	-	2,565	1,036	730	156	15,591	2,497	60,482	55	21,032	5,472	87,041
1965															
Newfoundland															
Prince Edward Island															
Nova Scotia	831	5	-	-	132	52	19	8	982	65	3,789	-	856	193	4,839
New Brunswick															
Quebec	2,293	183	-	-	560	181	99	34	2,952	398	11,713	-	4,244	910	16,867
Ontario	9,012	1,355	3	-	1,849	750	605	99	11,469	2,204	47,350	10	15,670	4,878	67,907
Manitoba	591	6	2	-	166	39	17	-	776	45	2,694	14	1,092	130	3,930
Saskatchewan	71	-	-	-	15	5	2	-	88	5	314	-	178	19	510
Alberta	185	2	-	-	33	7	3	-	221	9	764	-	212	13	989
British Columbia	616	12	7	-	114	41	12	1	749	54	3,081	39	972	70	4,162
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	13,599	1,563	12	-	2,869	1,075	757	142	17,237	2,780	69,706	63	23,223	6,213	99,204

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	10,561	1,215	11,355	1,422
February	10,830	1,242	11,546	1,432
March	11,104	1,222	11,719	1,472
April	11,115	1,219	11,852	1,447
May	11,362	1,206	12,153	1,526
June	11,448	1,209	12,614	1,605
July	11,191	1,159	12,562	1,428
August	11,238	1,225	12,865	1,444
September	11,131	1,224	12,836	1,455
October	11,154	1,216	12,900	1,478
November	11,123	1,222	12,959	1,509
December	11,068	1,197	12,862	1,520
Averages	11,128	1,212	12,368	1,480
Establishments reporting annual averages (small establishments only)	1,156	93	1,231	83
Average for all establishments	12,284	1,305	13,599	1,563

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	}	1,756	1,287	650	188	3,883
Prince Edward Island						
Nova Scotia						
New Brunswick						
Quebec	2,943	4,916	3,561	11,420	1,140	12,560
Ontario	19,373	11,838	17,027	48,238	3,503	51,741
Manitoba	2,644	2,012	317	4,974	136	5,110
Saskatchewan	36	4	47	86	106	192
Alberta	170	56	108	335	9	344
British Columbia	1,046	429	725	2,200	215	2,415
Yukon and Northwest Territories	-	-	-	-	-	-
Totals	27,968	20,543	22,436	70,947	5,298	76,245
Closing:						
Newfoundland	}	2,165	1,830	831	442	5,267
Prince Edward Island						
Nova Scotia						
New Brunswick						
Quebec	3,493	6,517	3,884	13,894	1,177	15,071
Ontario	24,692	15,849	17,796	58,337	4,377	62,715
Manitoba	3,358	3,673	531	7,562	154	7,716
Saskatchewan	31	6	52	90	143	233
Alberta	187	36	128	350	9	359
British Columbia	1,317	640	917	2,874	213	3,087
Yukon and Northwest Territories	-	-	-	-	-	-
Totals	35,243	28,549	24,140	87,932	6,514	94,446

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	3,168	40	2,317	29
(b) Imported	"	15,320	180	17,457	208
Sub-bituminous coal (from Alberta mines only)	"	-	-	-	-
Anthracite coal	"	-	-	-	-
Lignite coal	"	-	-	10	--
Coke	"	-	-	5	--
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	666,653	259	803,996	307
Fuel oil including kerosene or coal oil	"	10,068,480	1,121	10,924,157	1,226
Wood	cord	20	--	20	--
Gas:					
(a) Liquefied petroleum gases	Imp. gal.	69,576	22	77,721	24
(b) Other manufactured gas	M cu. ft.	-	-	-	-
(c) Natural gas	"	1,700,678	1,203	2,002,590	1,338
Other fuel .....		...	9	...	13
Electricity purchased	kwh.	156,651,741	1,823	193,490,942	2,026
Steam purchased .....		...	65	...	70
2. Small establishments not reporting commodity detail:					
Estimate for fuel and electricity .....		...	321	...	499
3. All establishments:					
Total fuel and electricity used .....		...	5,044	...	5,707

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

Description	1964		1965		
	Quantity	Cost	Quantity	Cost	
		\$'000		\$'000	
1. Materials used:					
Castings (rough and semi-finished received from foundry):					
Iron (gray and malleable)	ton	7,730	2,422	10,280	3,314
Steel	"	7,901	3,339	8,262	4,466
Iron:					
Pig iron	"	11,165	825	18,020	1,095
Steel:					
Bars and rods	"	227,203	28,969	269,819	34,676
Pipe and fittings	"	...	4,969	...	7,047
Plates	ton	21,636	4,076	23,780	4,321
Sheets:					
Black	"	8,499	1,327	12,908	1,984
Galvanized	"	3,216	620	3,585	702
Strip	"	3,951	843	4,746	987
Structural shapes	"	11,537	2,124	15,618	2,859
Wire	"	6,723	1,249	10,489	1,936
Alloy steel in all forms:					
Stainless:					
Billets, bars and rods	"	...	454	...	485
Other	"	...	4,713	...	7,419
Other alloy and tool steel (including carbon, alloy and high speed steels):					
Billets, bars and rods	"	...	1,741	...	1,573
Other	"	...	2,573	...	2,329
Scrap iron and steel:					
Purchased	ton	38,516	1,251	38,477	1,552
Own make (tonnage only)	"	24,472	...	9,199	...
Other iron and steel	"	...	2,075	...	2,501
Ferro-alloys	"	...	118	...	223
Non-ferrous metals:					
Aluminum:					
Castings	lb.	3,709,214	1,753	2,117,948	1,575
Sheet	"	983,319	550	1,469,136	767
Other forms	"	4,698,408	2,138	9,553,362	4,269
Brass and bronze	"	54,867,155	20,018	63,268,636	26,296
Copper:					
Sheet	"	699,234	366	657,174	376
Wire	"	401,223	205	378,671	210
Other forms	"	2,242,016	1,160	2,297,147	1,283
Lead	"	4,839,991	697	4,040,196	706
Nickel	"	146,590	151	179,834	175
Tin	"	236,302	335	239,638	403
Zinc	"	2,401,568	526	2,506,108	551
Babbitt metals and solders	"	190,070	169	249,355	187
Other non-ferrous metals	"	...	319	...	377
Paints, oils and varnishes	"	...	614	...	603
Foundry coke	ton	8,668	322	9,640	363
Foundry sands	"	30,782	363	38,650	478
Plumbago and graphite	lb.	694,110	29	837,430	32
Lumber	M bd. ft.	1,388	203	1,702	219
Firebrick and cupola blocks	"	...	164	...	175
Fireclay	ton	2,895	87	3,188	83
Core oil	Imp. gal.	37,538	48	34,683	51
All other materials and components used ¹	"	...	35,887	...	41,785
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			145,460		179,874

¹ No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$9,720,675 in 1964 and \$10,411,025 in 1965.

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

Description	1964		1965	
	Quantity	Value \$'000	Quantity	Value \$'000
1. Products:				
Agricultural implements .....	...	828	...	625
Castings, forgings and related products (including plumbers' brass and valves):				
Cast iron plumbing fixtures .....	...	1	...	1
Gas stops and gas curb stops .....	...	1	...	1
Hydrants	No. 9,152	1,873	9,948	2,065
Meters, gas	" 110,325	3,892	106,690	3,780
Plumbers' brass fittings (excluding solder fittings - See below) .....	...	23,373	...	19,957
Valves (excluding penstock valves) .....	...	29,945	...	39,029
Grey iron castings, including alloy and malleable .....	...	4,763	...	5,397
Non-ferrous castings, n.e.s. ....	...	3,625	...	3,551
Forgings, n.e.s.:				
Steel .....	...	31,120	...	34,433
Other forgings (non-ferrous, stainless steel, etc.) .....	...	3,486	...	3,302
Castings, forgings and related products, other .....	...	19,489	...	23,967
Architectural and ornamental metal work:				
Aluminium .....	...	1,223	...	1,210
Brass and bronze .....	...	58	...	33
Iron and steel .....	...	1,950	...	1,748
Stainless steel .....	...	162	...	173
Fabricated bar joists	2	2	2	2
Fabricated concrete reinforcing bar	ton 92,916	14,191	118,592	18,567
Piping, fabricated .....	...	4,271	...	4,851
Platework, fabricated, n.e.s. ....	...	1,017	...	1,446
Tanks .....	...	5,927	...	4,205
Fabricated and structural products, other .....	...	8,687	...	16,745
Hardware:				
Automatic screw machine products .....	...	357	...	2
Products other than automatic screw machine (bolts, nuts, rivets, screws) .....	...	5,861	...	7,218
Hardware, other .....	...	2,067	...	1,883
Heating equipment .....	...	3,295	...	9,451
Machinery .....	...	8,160	...	15,306
Miscellaneous products:				
Chains .....	...	2,752	...	4,192
Collapsible tubes, metal .....	...	4,807	...	4,713
Electro-plating racks .....	...	308	...	300
Fire extinguishers, hand-type .....	...	3,258	...	3,626
Lightning rods and supplies .....	...	282	...	301
Pipe fittings .....	...	9,040	...	9,652
Metal sponges or pads, not impregnated .....	...	921	...	1,074
Powder metallurgy products .....	...	1,245	...	1,740
Sanitary ware .....	...	21,633	...	19,285
Solder-type fittings .....	...	10,987	...	12,988
Spinnings, all metals .....	...	1,160	...	1,249
All other products .....	...	70,485	...	82,872
2. Amount received in payment for work done on materials and products owned by others..	...	2,284	...	1,569
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above	...	(2,690)	...	(2,777)
Net adjustment for establishments receiving progress payments .....	...	(5)	...	27
Total adjusted value of shipments and work done .....	...	306,095	...	359,758

¹ Included in "Castings, forgings and related products, other".

² Included in "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. Plumbers' Brass Fittings, 1964 and 1965

Product	Value	
	1964	1965
	\$'000	
Bath waste and overflows	1,394	1,315
Faucets, sink, lavatory and bath, and their combinations	7,054	7,116
Plumbing fixture trim	2,775	1,584
Stops	1,731	2,445
Traps	1,482	1,400
Tub-fillers, showers and combinations of same	2,904	2,761
Toilet tank fittings	2,145	1,592
Other brass plumbing fixtures	4,001	3,783
Totals	23,486	21,991
Solder type fittings	12,466	13,382

B. Hand-type Fire Extinguishers, 1956-65

Year	Value	Year	Value
	\$'000		\$'000
1956	2,912	1961	2,782
1957	2,649	1962	2,767
1958	2,386	1963	2,846
1959	2,234	1964	3,258
1960	2,876	1965	3,963

C. Hydrants, 1961-65.

Year	Number	Value
		\$'000
1961	14,478	2,446
1962	13,967	2,516
1963	13,143	2,349
1964	14,912	2,814
1965	16,152	3,075

D. Valves, 1964 and 1965

Type	Value	
	1964	1965
	\$'000	
Iron body (gate, globe, check, etc.)	12,189	14,810
Steel, including alloy steel (gate, globe, check, etc.)	10,755	11,765
Brass or bronze (gate, globe, check, etc.)	8,465	10,034
Automatic regulating valves	1,952	2,028
Radiator valves (all types)	541	...
Corporation brass (main and curb stops, etc.)	1,642	2,788
Valves, other	2,504	3,904

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:	
McNamara Industries Ltd.	Topsail Rd., St. John's
Pratt, J.C. Industries Ltd.	O'leary Ave., Peel St., St. John's
Nova Scotia:	
Dominion Steel & Coal Corp. Ltd., Trenton Steel Division	Trenton
Maritime Steel & Foundries, Limited	379 Glasgow St., New Glasgow
New Brunswick:	
McAvity, Div. Crane Canada Ltd.	168 Rothesay Ave., Saint John
St. Stephen Steel Company Ltd. (Maritime Steel & Foundry Ltd.)	St. Stephen
Québec:	
Acton Nipple Inc.	Actonvale
Alloy Manufacturing Ltd.	300 Canal Bank, (Dominion Industrial Bldg.) Ville St-Pierre
Aluminum Casting	219 B, rue Charron, Ville Lemoine
Aluminum Welding Co. Ltd.	5745 Place Turcot, Montreal
American Metals Spinning Ltd.	9947 Paris Ave., Montreal N.
Archambault, Ferronnerie Inc.	388 rue principale Farnham
Argo Co., The	716 St. James St. W. Montreal 1
Band T 1 Corp.	3600 Industrial Blvd., Montreal North
Bergeron, Vincent, Fonderie	410 rue Béland, Laurierville
Booth-Coulter Coppersmithing Co. Ltd.	283 Duke St., Montreal
Brass & Bronze Mfg. Co. Ltd.	6725 Park Ave., Montreal
Canadian Bronze Co. Limited	999 DeLorimier Ave., Montreal
Canadian "Cinch" Anchoring Systems Ltd.	2095 Madison Ave., Montreal
Canadian Mayer Sealing Devices Reg'd.	10775 Racette Ave., Montreal North
Canadian Safe & Vault	1450 Provincial St. Quebec 8
Canavan Explosion Venting Systems Ltd.	2140 Belgrave Ave., Montreal
Couture, Charles	St. Methode, Co. Frontenac
Crane Canada Ltd.	3800 St. Patrick, Montreal 9
Croname-MacDonald Limited	50 Taylor St., Waterloo
Cuthbert, W.R., & Co. Ltd.	47 Duke St., Montreal
Desroberts Inc.	2399 rue Royale, Trois-Rivières
Dominion Hat Block & Die Co.	7060 Alexandra St., Montreal 10
Dominion Joints	8019-13ième Ave., Ville St-Michel
Dominion Welding Engineering Co. Ltd.	10000 Bruxelles Ave., Montreal Nord
Dontar Chemicals Ltd.	15 St. Joseph St., Lachine
Dontar Chemicals Ltd.	Lasalle
Echafauds Laval Scaffolds	103 est Des commissaires, Montreal
Erectofast Scaffold Ltée	1420, boul. St-Elzear-ouest, Cité de Chocoma
Fayle Coppersmith Works Ltd.	2712 Mullins St., Montreal
Federal Weatherstrip Inc.	9478 Hamelin Ave., Montreal
Freeman Corporation	91 des Oblates St., Cap-de-la-Madeleine
Gaulin, Athanase	Principale, St-François Montmagny
G.D. Engineering Reg'd.	8692-9th Ave., Ville St-Michel
Golden Gate Mfg. Co. Ltd.	361 Youville St., Montreal
Guard-X Reg'd.	5877 Papineau Ave., Montreal
Hard & Metal Works	5625, rue St. Andre, Montreal
Industries "Armer" Industries	352, rue de l'Inspecteur, Montreal 1
Industries Couture Ltée	67 ouest, rue Jacques-Cartier Chicoutimi
Jenkins Bros. Ltd.	170 St. Joseph Blvd., Lachine
Justin Coffre-Fort Ltée	976 St. Paul St. W., Montreal
Kidde, Walter & Co. of Canada Ltd.	154 Oneida Dr., Pointe Claire
La Compagnie Morin & Fils Ltée	230-4ième Ave., Montmagny
La Métallurgie de St. Raphael Ltée	St-Raphael, Cté de Bellechasse
Lake shore Novelties Reg'd.	470 Victoria St., Lachine
Les coupe froid économiques inc.	8695-10ième Ave., Ville St-Michel
Les Produits d'Acier, Plane Tec. Ltée	9701, rue Forest, Montreal-Nord
Liberty Mfg. Co.	1090 Pratt Ave., Outremont, Montreal
Machinerie Ferclaud Inc.	19, rue Beattie, Chambly
Marois, Aurel	Montmagny
Mathieu, Renald	Wickham, Cté de Drummond
Modern Metal Spinning Reg'd.	4249 Frontenac St., Montreal
Molly Corp. of Canada Ltd.	804-90th Ave., Lasalle
Montebello Metal Ltd.	Montebello
Munico Ltd.	10670 Racette St., Montreal North
National Safe Work	St-Dominique, Cté de Bagot
Ouellette, O.J. Inc.	958, St-Dominique St., Montreal 34
Park Lane Products Reg'd.	8341, boul. Chateaufort, Ville d'Anjou
Peacock Bros. Ltd.	260 St. Patrick St., Ville LaSalle
Piper, Hiram L., Co. Ltd., The	555 St-Rémi St., Montreal
RCR Products Ltd.	6413 Azilda Ave., Ville d'Anjou, Montreal
Rockwell, Mfg. Co. of Canada Ltd.	Stirling Ave. LaSalle, Jacques-Cartier, Montreal
ROTO Tech-Smith Inc.	10221, boul. St-Laurent, Montreal
Roy, Irenée, Ltée	109, rue Dube Thetford Mines
Safety Equipment Co. Ltd.	2115 Old Orchard Ave., Montreal
Security Safes Ltd.	4345 Majeau St., Montreal 39
Spinning Craft Co. Ltd.	2126 de La Salle St., Montreal
Tubeband Welding Co.	2917 Sherbrooke St. East, Montreal 4
Universa Ltd.	400 des Laurentides, Brossard-Ouest
Ville Emard Metal Spinning Reg'd.	5701 Champs Coles-St-Paul, Montreal 70
Ontario:	
A-1 Steel Works	2381 Mountain Rd., Niagara Falls
Abel Metal Products Ltd.	1868 Mattawa Ave., Cooksville
Ace Alloys	59 Torbarrie Rd., Downsview
Ace Bronze Co. Ltd.	2 Holtby Ave., Brampton

List of Establishments classified to this Industry, 1965 - Continued

Name	Location
Ontario - Continued:	
Aerometal Products & Design Ltd.	195 Bentworth Ave., Toronto
Allied Heat Treat Ltd.	368 Munster Ave., Toronto
Almex Automotive Industries Ltd.	354 McRae Dr., Toronto
Altype Heat Treat. Industries Ltd.	3246 Wharton Way, Cooksville
Alward, R., & Son	Stratfordville
American Standard Prod. (Canada) Ltd.	1201 Dupont St., Toronto
Anchor Coupling Canada Ltd.	10 Edmonds St., Brantford
Anglo-Dutch Industries Ltd.	1659 Bayview Ave., Toronto 17
Apex Bolt Products of Canada Ltd.	28 Milford Ave., Toronto 15
Archibald, A.C. Sons	Holland St., Dundalk
Armson Iron Works Ltd.	1558 Howard St., Windsor
Armstrong Trophy Comp.	174 Spadina Ave., Toronto
Ascoelectric Limited	Hwy 53 West at Airport, Brantford
Automated Bldg. Comp'nents Inc.	50 Howden Rd., Scarborough
B & L Metal Products	1 First St., Elmira
B & W Heat Treating Ltd.	70 Borden Ave., Kitchener
Balley-Hunt Ltd.	151 Bentworth Ave., Toronto
Bernstein, K.	21 Kensington Ave., Toronto
Best Weather Strip Co. Ltd.	R.R. 7 Brantford
Bex Engineering Ltd.	40 Huxley Rd., Weston
Borg-Warner (Canada) Ltd (Cello Products Div.)	Box 37, Avenue Rd., Galt
Bouling Metals	1856 Brampton Ave., Hamilton
Brass Craft Canada Ltd.	650 Riverside Drive, Windsor
Brem Enterprises	4 Mansion Ave., Scarborough
Brighton Valve Company Limited	Prince Edward St., Brighton
Brooks Mfg. Co. Ltd.	366 Rogers Rd., Toronto
Bryan Chrome Products Ltd.	180 Milvan Dr., Weston
Buld Machine Tool Co. Ltd.	3096 Devon Rd., Windsor
C. And R. Metal Products Ltd.	1141 Kelly Lake Rd., Sudbury
Caumet & Hecla (Canadian) Ltd.	134 Nelson St. W., Brampton
Canada Block Co. Ltd., The	21 Rirdon St., St. Catharines
Canada Foundries and Forgings Ltd.	Empire St., Welland
Canada Foundries and Forgings Ltd.	Major St., Welland
Canada Valve & Hydrant Co. Ltd., The	Brantford
Canadian Advance Car Mover Co. Ltd.	145 Ross St., Welland
Canadian Arsenals Ltd.	1400 Lakeshore Rd., Toronto Twn. Peel
Canadian Brass Ltd.	415 Dundas St., Galt
Canadian Coupling & Fittings Ltd.	390 Second Ave., Simcoe
Canadian Funeral Supplies Ltd.	293 Mt. Pleasant Ave., London
Canadian General Filters Ltd.	39 Crockford Blvd., Scarborough
Canadian Ground-Support Ltd.	2291 Lasalle Blvd. Sudbury
Canadian Heat Treaters Ltd.	300 NewKirk Rd., Richmond Hill
Canadian Meter Co. Ltd.	10th Side Rd. & Front St., Milton
Canadian Name Plate Co. Ltd.	Midland
Canadian Pipe & Steel Fabricators	875 Eastern Ave., Toronto
Canadian Vac-Hyd. Processing Ltd.	1371 Speers Rd., Oakville
Canadian Westinghouse Co. Ltd.	Hwy 2, Cobourg Rd., Port Hope
Carhayes Ltd.	40 Clarence Rd., Brantford
Cello Products (Preston) Div. Borg-Warner (Canada) Ltd.	610 Bishop Rd., Preston
Central Welders & Black-Smiths Ltd.	R.R. 3, Rodney
Chamberlin Metal Weatherstrip Co. Ltd., The	11 Centre St., London
Chemical Valley Fabricating Co. Ltd.	Box 760, Sarnia
Chesley - Sames Ltd.	Hwy 3 Twp. Bosfield N. Essex
Chubb Mosler & Taylor Safes Ltd.	263 Queen St. E., Brampton
CLA-VAL Canada Ltd.	14 Dixie Rd., St. Catharines
Clark Kennedy & Co. Ltd.	931 Weston Rd., Toronto
Colbey Custom Fabricating Co. Ltd.	147 Hartzell Rd., St. Catharines
Columbus McKinnon Ltd.	580 Welland Ave E., St. Catharines
Con-A-Vap Limited	4627 Kingston Rd., West Hill
Coulter Copper & Brass Co. Ltd.	44 Coronet Rd., Toronto
Coupeco Limited	Valley Farm Rd., Pickering
Crane Canada Ltd.	Port Hope, Harbour
Crane Canada Ltd.	15 Crane Ave. Stratford
Crane Canada Ltd.	1757 Burlington St. E., Hamilton
Crawford Fittings (Canada) Ltd.	605 Kent Ave., Niagara Falls
Dart Union Co. of Canada Ltd.	8 Vansco Rd., Toronto
Delhi Ornamental Iron Works	642 James St. S., Delhi
DeZurik of Canada Ltd.	385 Franklin Blvd., Galt
Diamond Tool & Horse Shoe Co.	580 Front St. W., Toronto
Diebold of Canada Ltd.	258 Wallace Ave., Toronto
Dodd & Struthers Ltd.	1721 Moy Ave., Windsor
Domtinion Brake Shoe Co. Ltd.	256 Portage Road, Niagara Falls
Domtinion Cold Extrusions Ltd.	2480 Seminole St., Windsor
Domtinion Forge Co.	2480 Seminole St., Windsor
Domtinion Gasket & Manufacturing Co. Ltd. Acme iron Division	11 Bishop St., Toronto
Domtinion Lightning Rod Co. Ltd.	384 Mill St. W., Dundas
Domtinion Sink Ltd.	415 Albany Petrolia
Domtinion Welding Engineering Co. Ltd.	Keele St. N., Maple
Domus Engineering Co.	330 Geary Ave., Toronto
Electoweld Co. Ltd.	Speers Rd., & Third Line Oakville
Elkel Metal Products	465 Davis Dr., Newmarket
Emberley Enterprises Ltd.	57 Raleigh Ave., Scarborough
Emco Ltd.	1108 Dundas St., London
Express Metal Spinning Co.	6 Phoebe., Toronto
Fairbank Foundry	52 Clarkson Ave., Toronto
Falk Corp. of Canada Ltd., The	45 Disco Rd., Rexdale
Farris Brantford Ltd.	Shaver St. & Hwy 2, Brantford
Ferguson Tools Ltd.	8 Ripley Ave., Toronto
Ferrari Ornamental Co.	10 Hafis. Rd., Toronto
Flag Fire Equipment Ltd.	1680 Kildare Rd., Windsor
Flaherty Mfg. Co. Ltd.	76-78 Wellington St. N., Hamilton
Foley Foundry & Machine Co. Ltd.	25 Wallbridge Rd., Belleville

List of Establishments classified to this Industry, 1965 - Continued

Name	Location
Ontario - Continued:	
Freisen Reinforcing Steel Ltd.	87 Shorncliffe Rd., Toronto
Fyr Fyter Co. of Canada Ltd.	19 Victoria Crescent, Bramalea
Galt Brass Co. Ltd.	471 Dundas St., Galt
Galt British Forge Ltd.	204 Beverly St., Galt
Genbearco Limited	347 Olivewood Rd., Toronto
General Die & Machine Co. Ltd.	34 Major St., Welland
General Fire Extinguisher Corp. (Canada) Ltd., The	955 Huron Line, Windsor
General Impact Extrusion Mfg. Ltd.	191 Evans Ave., Toronto
Gilbert Steel Ltd.	Britannia Rd., Malton
Glitsch, Fritz W. & Sons (Canada) Ltd.	18 Dallas St., Uxbridge
Gottwels, W.H.A.	Markham Pd., RR No. 2, Scarborough
Great Lakes Forgings Ltd.	740 Matthew Brady Blvd., Riverside
Great Lakes Steel Products Ltd.	1276 Ellesmere Rd., Scarborough
Gregory Fasteners Ltd.	2 Meridian Rd., Rexdale
Grinnell Co. of Canada Ltd.	427 Lakeshore Blvd. W., Toronto
Guardian Mfg. Ltd.	10 Brock St., Brockville
H. & S. Commercial Heat Treat.	East main St., Welland
Harjohn Industries Ltd.	Grantham Ave., (Box 505) St. Catharines
Harris, J. & Son Ltd.	Greens Rd., Stoney Green
Hart, Will Ltd.	390 Progress Ave., Scarborough
Haun Drop Forge Co. Ltd.	Box 98, Welland
Hercules Shaft Splice Co.	167 Queen St., Stratford
Hike Metal Products Ltd.	R.R. #1, Wheatley
Hose Couplings Ltd.	Park Rd., Box 216, Simcoe
Imperial Rack & Mfg. Co. Ltd.	124 Clark Sideroad, London
Industrial Fabricators Ltd.	209 Tunnel St. Sarnia
Ithaca Gun Co. (Canada) Ltd.	Park St. E., Dunville
Jamaica Mfg. (Canada) Co. Ltd.	Prescott
James Bury Corporation	3671 Weston Rd., Weston
Jenson Fitting Mfg. Ltd.	298 Kipling Ave. S., Toronto
Jetco Manufacturing Ltd.	36 Milvan Dr., Weston
Josam Products Ltd.	130 Bermondsey Rd., Toronto
Judd, John Co.	2115 Midland Ave., Scarboro
K & K Reinforcing Steel Co. Ltd.	White Oak Rd., London
K.S.M. of Canada Limited	1090 Kipling Ave. N., Rexdale
Kaldoor Co. Ltd.	Wolcott Ave., Scarboro
Kee Klamp North America Ltd.	43 Gurney Crescent, Toronto
Keystone Valve (Canada) Ltd.	923 Oxford St., Toronto
Kilian Mfg. Ltd.	90 Queen Elizabeth Blvd., Toronto
Klassen Bronze Ltd.	70 Hincks St., New Hamburg
Koppers Products Ltd.	16 Taber Rd., Rexdale
Kuchyt Metal Works Ltd.	Petit Rd., Fort Erie
Kurly Kate (Canada) Ltd.	42 Gladstone Ave., Toronto
Ladish Co. of Canada Ltd.	Park Rd. N., Brantford
Lauder Brass Ltd.	107 TorYork Rd., Weston
Lestel Metals of Canada Ltd.	134 Dawson Rd., Guelph
Lewis & Co.	124 Manville Rd., Toronto
Lite Metal (Products) Ltd.	2597 Wharton Glen Rd., Cooksville
Lofthouse Brass Mfg. Co. Ltd.	Box 1409, 310 Hopkins St., Whitby
Luckock, Richard C.	527 Crawford St., Toronto
Lunkenheimer Morrison Canada Ltd.	276-78 King St. W., Toronto
Mackenzie Black Fabricating Co. Ltd.	267 Beckwith St., Corunna
Magcoa Ltd.	55 Penn. Dr., Weston
Magline of Canada Ltd.	Hwy #17, Renfrew
Manning Maxwell & Moore of Canada Ltd.	200 Avenue Rd., Galt
Marcon Custom Metals	489 Lancaster St. W., Bridgeport
Marshall Foundry	940 Assumption St., Windsor
Marson (Canada) Ltd.	29 Shaft Rd., Rexdale
Memorial Vase Co.	R.R. #3, Kitchener
Metal Bendings & Furniture Ltd.	43 Colville Rd., Toronto
Metal Closures (Canada) Ltd.	1190 Birchmount Rd., Scarborough
Metal Textile of Canada	126 Catherine St. N., Hamilton
Metro Engineering	35 Lucy Ave., Scarborough
Midland Equipment Co.	251 Raleigh Ave., Scarborough
Millard & Lumb Ltd.	King St. E., Kingston
Millman, Messrs. W.H. & Sons	36 Brydon Dr., Rexdale
Misco Fabricators of Canada Ltd.	954 Southworth St. S., Welland
Moeller Mfg. Co. (Canada) Ltd.	1760 Valley Way, Box 215, Niagara Falls
Monte Bello Metal Ltd.	1036 Aberdeen, Hawkesbury
Moore Air Equipment Ltd.	325 Hale St., London
Mount Dennis Welding Limited	1001 Weston Rd., Toronto
Mueller Ltd.	Clifford St., Sarnia
Myatt, E., Co. Ltd.	21 Carlaw Ave., Toronto
National Loose Leaf Devices Ltd.	43 Berial Rd., Toronto
Neosid (Canada) Ltd.	10 Vansco Rd., Toronto
Neptune Meters Ltd.	3526 Lakeshore Blvd. W., Toronto
Neuman Truck Body Limited	294½ Courtland Ave. E., Kitchener
Niagara Terrazzo Supplies Ltd.	46 Milford Ave., Toronto
Nicol Manufacturing Co.	32 Brydon Dr., Rexdale
North York Iron Works Co.	110 Milwick Dr., Weston
Northcott Instruments Ltd.	92 Ferguson St., Guelph
Oliver-Woods Metal Spinning Co.	8 Beaconsfield, Toronto
Otaco Limited	West St. S., Orillia
Parcoll Products Ltd.	St. Lawrence St., Winchester
Parkinson Cowan (Canada) Ltd.	830 Richmond St., Chatham
Par-Met Industries Ltd.	66 Crosby Ave., Richmond Hill
Peerless Plating Rack Co.	200 Bedford Rd., Toronto
Peninsula Fittings (St. Catharines) Ltd.	221-223 Bunting Rd., St. Catharines
Perth Metal Industries Ltd.	128 Monteith Ave. Stratford
Phillips, G.E., Ltd.	3293 Dufferin St., Toronto
Phillips Lightning Rod Co. Ltd.	32 Osborne Ave., Toronto
Phoenix Mfg. Co. (Div. R. & W. Heard Holdings Ltd.)	Fulton St. S., Milton

List of Establishments classified to this Industry, 1965 - Continued

Name	Location
Ontario - Concluded:	
Pinder Bros. Ltd.	2 Otonabee St. W., Willowdale
Pipe Coil Fabricators Ltd.	143 Bermondsey Rd., Toronto
Powco Steel Products Ltd.	24 Ingram Drive, Toronto
Prescon of Canada Ltd.	2237 Hurontario St., Cooksville
Preston Heat Treating Corp. Ltd.	753 Bishop St. N., Preston
Product Development & Design Co.	1624 A Queen St. E., Toronto
Production Assemblies	1849 Mattawa Ave., Cooksville
Pyrene Mfg. Co. of Canada Ltd.	777 Dundas St. E., Toronto
Queenston Welding & Mfg. Ltd.	637 Queenston Road, Hamilton
Reinforcing Steel Products Co.	200 New Toronto St., New Toronto
Reliance Steel Fabricators Ltd.	385 Salter Ave., Windsor
Reynolds Extrusion Co. Ltd.	160 West Lodge Ave., Toronto
Ric-Wil Co. of Canada Ltd., The	Wellington St. Opposite 3rd Ave., St. St. Thomas
Richmond Screw Anchor Co. of Canada Ltd.	34 Six Point Rd., Toronto
Roberts, Art. & Son Ltd.	1021 Barton St., Hamilton
Rockwell Mfg. Co. of Canada Ltd.	40 Wellington St., Guelph
Roder Properties Ltd.	Kindred Rd., Midland
Roper Steel Construction Co.	2902 Eglinton E., Scarborough
S.D.M. Thermalite Ltd.	45 Research Rd., Toronto
St. Clair Metal Processing Ltd.	Howard & Eugenie, Windsor
St. Lawrence Steel & Wire Co. Ltd.	Mill St., Gananoque
Salbrock Mfg.	Brock Rd. N., Pickering
Samuel Steel Strapping Limited	1578 Mattawa Ave., Cooksville
Selch, Walter E. & Co. Canada	53 Tycos Drive, Toronto
Sheridan Metal Products Ltd.	2528 Wharton Glen Ave., Cooksville
Simcoe Steel Fabricators Ltd.	RR. No. 3, Newmarket
Sinterings Ltd.	265 Edinburgh Rd., Guelph
Smith Valve Corp. of Canada Ltd.	3236 Wharton Way, Cooksville
Specialty Products (Guelph) Ltd.	35 Municipal St., Guelph
Stampco Industries Ltd.	1496 Concession Rd., Preston
Stanley Manufacturing Co. Ltd., The	Main St., Markham
Star Expansion Industries (1963) Ltd.	1061 The Queensway, Toronto
Steel Co. of Canada Ltd.	Gananoque
Steel Improvement Co. Ltd.	265 Wellington St. W., Toronto
Steffler Metal Products Ltd.	74 River Rd. W., Kitchener
Sterling Faucet Canada Ltd.	61 Forsythe St., Oakville
Sun Tube of Canada Ltd.	145 Spruce St., Ottawa
Superior Concrete Accessories Canada Ltd.	230 Belfield Rd., Rexdale
TCC Design & MFG. Co.	234 McKenzie Ave., Ajax
Taco Heaters of Canada Ltd.	3090 Lenworth Dr., Cooksville
Taylor Associates	48 Ferguson Ave. S., Hamilton
Thamesville Metal Products Ltd.	Wallace St., Thamesville
Thompson Machine	254 Weldrick Rd., Richmond Hill
Thorold Welding Works Ltd.	183 Merritt, Merritt Ward, St. Catharines
Tonahawk Mfg.	70 Belfield Rd., Rexdale
Turner, Gordon Metal Spinning	134 Oxford St., Richmond Hill
Toronto Copper-smithing Co. Ltd.	220 Midwest Rd., Scarborough
Toronto Fitting & Foundry	365 Bering Ave., Toronto
Toronto Metal Spinning Ltd.	32 Eastern Ave., Toronto
Trans-Val Products Ltd.	1920 Mattawa Ave., Cooksville
Triangle Metal Spinning & Stamping Co.	618 Vaughan Rd., Toronto
Trimonex Manufacturing Co. Ltd.	12 Sable St., Toronto
True Temper Canada Ltd. (Shurly-Works)	Riordon St., St. Catharines
Tubco Lamp Parts Ltd.	47 Railside Rd., Don Mills
Tube Turns of Canada Ltd.	21 York St. Ridgetown
United Flexible Metallic Tubing (Canada) Ltd.	128 Centre St. E., Richmond Hill
Universal Metal Spinning Products	308 Adelaide St., Toronto
Up-Right Scaffolds Ltd.	120 Russett Ave., Oshawa
Valco Manufacturing Ltd.	7470 Tecumseh Rd. E., Windsor
Victoria Steel Products Ltd.	655 Lauzon Rd., Riverside
Victory Metal Works	767 Warden Ave., Scarborough
Wallaceburg Bail Chain Mfg. Co.	918 Dufferin Ave., Wallaceburg
Wallaceburg Brass Limited	1355 Wallace St., Wallaceburg
Wallaceburg-Singer Ltd.	Libby St., Wallaceburg
Walson Metal Works	26 Heltby, Brampton
Waterloo Spring Co. Ltd.	102 Breithaupt, Kitchener
Watts Regulator of Canada Ltd.	86 Rivalda Rd., Weston
Welco Precision Weights	161 Cope St., Hamilton
Welding Fittings & Flanges of Canada Ltd.	1675 Burlington St. E., Hamilton
Welland Metal Supplies Ltd.	208 Burgar St., Welland
Welmet Industries Ltd.	10 Kingsmill Ave., Guelph
Wessan Plumbing Ltd.	Believe Ave., Streetsville
West Brant Apiary Supplies	224 Colborne St. W., Brantford
Williamson, T.D., Canada Ltd.	271 Queen St. E., Brampton
Wilson, Robert J. Metal Products	93 Penn Dr., Weston
Winchester-Western (Canada) Limited	415 King St. W., Cobourg
Woodbine Metal Spinning Co.	1962 Gerrard St. E., Toronto
Yarmouth Metal Fabricators Ltd.	RR. No. 3 St. Thomas
Yarway Canada Ltd.	287 Speedvale Ave. W., Guelph
York Metal Spinning & Specialties Ltd.	35 Industrial Rd., Richmond Hill
Zowie Products	12 Ashland Ave., Toronto
Manitoba:	
Abesco Ltd.	44 Archibald St., St. Boniface
Aleo Equipment Ltd.	996 Pacific Ave., Winnipeg 17
Armour Metal Products Ltd.	661 Madison St., St. James
Canadian Bronze Co. Ltd.	15 Bury St., Winnipeg
Crown Steel Co. Ltd.	1137 Pacific Ave., Winnipeg
Klassen Bros.	421 Edison Ave., Winnipeg
Made-Well Mfg. Co.	Sifton
Manitoba Bridge & Engineering Works Ltd.	845 Logan Ave., Winnipeg

List of Establishments classified to this Industry, 1965 - Concluded

Name	Location
Manitoba - Concluded:	
Mercury Metal Products Ltd.	590 Pembina Hwy., Winnipeg
National Products Ltd.	Ottawa Ave & Watt St., Winnipeg
Pary Products Ltd.	496 Jarvis Ave., Winnipeg
Red River Chain	258 Kingsford Ave., Winnipeg
Rosedale Mfg.	1 Crocus W., Kildonan, Winnipeg
Swan Manufacturing Company	218 Alexander St., Winnipeg
Saskatchewan:	
Acme Industries Ltd.	182 Wall St., Saskatoon
East, John, Iron Works Ltd.	121 Ave., C. North, Saskatoon
Fudge's Industries	707 Broadway Ave., Moosomin
Regina Iron Works Ltd.	125-10th Ave. East, Regina
Westcon Forming & Concrete Products Ltd.	1801 Ontario Ave., Saskatoon
Alberta:	
Alta. Bend Ltd.	12,230-66th St., Edmonton
Bonny Brook Steel Ltd.	4011-15th St. S.E., Calgary
Canadian Bronze Co. Ltd.	1609-24th Ave. S.E., Calgary
Community Shopping Developments Ltd.	10426-95th St., Edmonton
Crane Canada Ltd.	801 Smelter Ave., Medicine Hat
Enoco Valve & Instrument Co.	10368-5th Ave., Edmonton
Gilchrist Engineering (Alberta) Ltd.	9720-60th Ave., Edmonton
Lethbridge Iron Works Co. Ltd.	120-1st Ave. S., Lethbridge
Moffat Engineering Co. Ltd.	1111-12th Ave. S.E., Calgary
Scott, S.F. Mfg. Co. Ltd.	766-14th St. S.W., Medicine Hat
Specialty Iron Works	Main St., Blackfalds
Textsteam Ltd.	6040-97 St., Edmonton
Wingspun Copper & Brass Ltd.	4303-17th Ave. S.E., Calgary
Witke Iron Works	2201-15th Ave. S.E., Medicine Hat
British Columbia:	
A & M Steel Craft Ltd.	8250-124th St., North Surrey
Advance Industries Ltd.	2034 W. 12th Ave., Vancouver
Advance Metalpres Products Ltd.	Granville Island, Vancouver
Alumaloc Mfg. Ltd.	367 Water St., Vancouver
Art Metal Spinning Co. Ltd.	3904 East 1st Ave., Burnaby
BC Chains Ltd.	1806 Granville St., Vancouver
Beaver Manufacturing Ltd.	26 W. 7th Ave., Vancouver
Bobbie Equipment & Welding Co. Ltd.	1915 Fir St., Vancouver
Brittain Steel Fabs. Ltd.	400 Ewen Ave., New Westminster
CA Manufacturing Ltd.	809 Capstan way, Richmond
C. & B. Heat Treating Ltd.	425 W. 6th Ave., Vancouver
Canada Chain & Forge Co. Ltd.	Granville Island, Vancouver
Capilano Metal Products Ltd.	250 Pemberton Ave., North Vancouver
Ellett Copper & Brass Co. Ltd.	92 West 2nd Ave., Vancouver
Edwards Welding Limited	727 Caledonia St., Victoria
Fair Field Fabricators Co. Ltd.	350 East Esplanade, North Vancouver
Fire Hood Manufacturers Ltd.	266 East Esplanade, North Vancouver
Geo Third & Son Ltd.	937 Main St., Vancouver
Hastings Brass Foundry Ltd.	236 Clark Drive, Vancouver
Jackson Scaffolding Ltd.	1848 West 1st Ave., Vancouver
Kamloops Steel Fabricators Ltd.	Indian Res.-Industrial Div., Kamloops
Lister Bolt & Chain Works Ltd.	301 West 5th Ave., Vancouver
McBain, A.J., Ltd.	1968 W. Georgia St., Vancouver
McLeod & Norquay Ltd.	520 Raymur Ave., Vancouver
Maure, Paul, Welding	400 Ewen Ave., New Westminster
Metal Distributors Ltd.	7220 Government Rd., North Burnaby, Vancouver
Micon Products Ltd.	Granville Island, Vancouver
Motor Specialty Manufacturers Ltd.	475 Clark Drive, Vancouver
Pacantic Products Ltd.	1329 Pemberton Ave., N. Vancouver
Pacific Aluminum House Ltd.	54 E. 3rd Ave., Vancouver
Pacific Pipe & Flume Ltd.	165 Okanagan Ave. E., Penticton
Peace River Cable Service Ltd.	Dawson Creek
Polygon Designers & Metal Fabricators	7450 Mission Ave., Burnaby
Premier Engineering & Iron Works Ltd.	7231 Greenford St., Burnaby
Rain Bird Sprinkler Mfg. Co. (Canada) Ltd.	44 East Cordova St., Vancouver
Ross & Howard Iron Works Co. Ltd.	Ft. Woodland Drive., Vancouver
Rovang, Wg. & Associated Inc.	1621 Railway St., North Vancouver
Samco Engineering Ltd.	911 Beckwith Rd., Richmond
Singer Valve Co. Ltd.	872 Derwent Way New Westminster
Spin Craft Mfg. Co.	1599 Venables St., Vancouver
Thompson Foy Ltd.	Rear 1845 W. Georgia St., Vancouver
Tidy Steel-Fab	12195 Musqueam Dr., North Surrey
Wesgar Industries Ltd.	110 Fell Ave., North Vancouver
Western Corrosion	882 E. Cordova St., Vancouver
Wilfro Mfg. Co. Ltd.	3940 Charles St. N., Burnaby

CONCEPTS AND DEFINITIONS

Census of Manufactures

General

The Census of Manufactures is an annual mail survey covering Canada's Manufacturing Industries. It is based on the Standard Classification of Industries and full details concerning the system may be found in the Standard Industrial Classification manual, Catalogue No. 12-501 which is available from the Queen's Printer or the Dominion Bureau of Statistics. In summary, the Classification as it relates to the manufacturing industries provides for a breakdown into 140 industries arranged in 20 major industry groups. Of the 140 (3 digit) industries, 18 are further broken down into 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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