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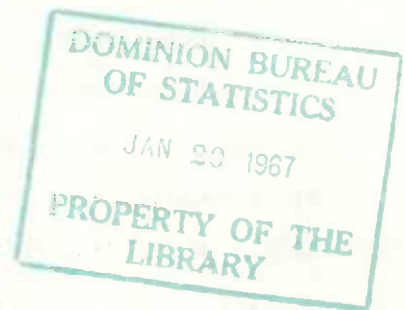
ANNUAL



MISCELLANEOUS METAL FABRICATING INDUSTRIES

1964

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A - Annual

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MISCELLANEOUS METAL FABRICATING INDUSTRIES

1964

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 1963 and 1964. The value of shipments of products of own manufacture increased by 15.5 per cent, the value of production increased by 14.8 per cent and the value of materials used in products of own manufacture increased by 18 per cent. The ratio of cost of materials to the value of production was 45.7 per cent for 1963 and 47 per cent for 1964. The ratio of value added to value of production was 52.5 for 1963 and 51 per cent for 1964.

The increase in the cost of materials used appears to be partially due to an increase in the unit costs of the more important materials used.

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 and decorative trim.

There were 41 additional establishments included in this industry in 1964.

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 electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
No.		'000			\$'000				\$'000		\$'000		
1961													
Totals	331	10,978	22,680	43,993	4,006	95,269	218,745	118,023	94	388	15,249	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													
Newfoundland	1	645	1,418	2,626	348	4,830	10,612	5,223	-	-	804	3,441	5,495
Prince Edward Island	-												
Nova Scotia	2												
New Brunswick	2												
Quebec	56	1,999	4,394	8,567	582	14,421	37,032	22,520	12	43	2,773	13,189	23,774
Ontario	216	8,708	18,324	37,380	3,336	91,118	193,755	100,498	57	258	11,564	53,877	104,160
Manitoba	12	428	894	1,812	113	6,842	12,162	6,868	11	32	598	2,752	7,008
Saskatchewan	6	77	172	338	27	992	1,619	660	x	x	110	549	1,091
Alberta	11	143	286	548	28	931	2,141	1,216	x	x	180	701	1,297
British Columbia	37	469	918	1,941	136	3,899	7,821	4,211	x	x	598	2,701	4,429
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
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	583	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

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	14	6	11	11	2	28	87	51	11	22	7	14	51
\$ 10,000 to \$ 24,999	30	38	77	112	5	183	527	340	24	92	49	148	355
25,000 " 49,999	34	83	168	270	27	457	1,199	715	21	93	116	372	757
50,000 " 99,999	42	203	407	740	66	1,182	2,917	1,715	22	98	276	1,073	1,942
100,000 " 199,999	59	529	1,095	1,987	165	3,596	8,524	4,802	8	37	719	2,923	5,098
200,000 " 499,999	55	909	1,860	3,346	229	8,113	17,370	9,281	1	6	1,210	5,249	10,529
500,000 " 999,999	43	1,320	2,839	5,286	515	15,595	30,731	14,829	-	-	1,771	8,041	15,072
1,000,000 " 4,999,999	57	5,725	12,282	23,883	2,162	65,169	125,849	59,585	2	25	7,715	35,022	62,715
5,000,000 and over	9	3,656	7,667	17,577	1,398	28,709	77,937	49,878	-	-	4,764	24,368	50,736
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
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													
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 " 49,999	43	94	188	307	28	571	1,511	955	29	138	123	413	961
50,000 " 99,999	48	224	451	847	65	1,393	3,444	2,060	24	142	316	1,250	2,305
100,000 " 199,999	51	450	912	1,790	143	2,955	7,309	4,227	6	33	601	2,537	4,331
200,000 " 499,999	76	1,175	2,401	4,583	334	11,434	23,438	12,022	3	28	1,590	7,165	13,366
500,000 " 999,999	40	1,129	2,407	4,410	298	13,769	26,729	12,854	-	-	1,499	6,942	13,403
1,000,000 " 4,999,999	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	19,865	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

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	25	20	39	49	3	120	270	140	17	41	26	65	169
\$ 10,000 to \$ 24,999	47	93	192	300	27	501	1,305	792	34	151	126	421	894
25,000 " 49,999	43	173	352	622	56	1,581	3,123	1,502	28	120	240	897	1,628
50,000 " 99,999	56	461	946	1,759	158	4,073	8,226	4,038	7	28	641	2,589	4,333
100,000 " 199,999	49	713	1,454	2,491	176	5,930	12,754	6,729	1	6	942	3,850	7,383
200,000 " 499,999	56	1,514	3,242	6,216	479	20,487	37,806	17,077	2	25	2,025	9,435	18,096
500,000 " 999,999	36	2,760	5,956	11,202	1,168	33,182	59,581	26,200	-	-	3,678	16,941	27,416
1,000,000 " 4,999,999	27	4,368	9,218	18,895	1,444	37,736	92,112	54,823	-	-	6,149	28,482	57,079
5,000,000 and over	4	2,367	5,007	11,677	1,058	19,423	49,965	29,895	-	-	2,800	14,529	30,258
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
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													
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 " 49,999	57	204	415	730	54	1,656	3,662	2,043	33	193	285	1,064	2,154
50,000 " 99,999	60	477	977	1,914	163	4,698	9,288	4,454	9	56	698	3,062	5,100
100,000 " 199,999	57	885	1,810	3,384	251	8,078	16,333	8,306	1	10	1,147	4,882	8,902
200,000 " 499,999	62	1,649	3,445	6,642	491	22,898	41,747	18,767	-	-	2,262	10,479	20,261
500,000 " 999,999	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 " 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

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	22	14	27	33	2	74	196	114	17	41	17	40	115
\$ 10,000 to \$ 24,999	46	81	165	250	26	479	1,236	738	32	143	110	350	765
25,000 "	44	170	345	593	55	1,577	3,110	1,484	30	129	234	830	1,531
50,000 "	56	445	920	1,720	156	4,425	8,487	3,971	7	28	608	2,459	4,110
100,000 "	45	658	1,336	2,304	161	4,718	10,620	5,819	1	8	865	3,482	6,292
200,000 "	62	1,566	3,341	6,366	487	21,350	39,539	17,932	2	25	2,110	9,790	19,039
500,000 "	36	2,717	5,853	10,955	1,145	32,361	57,978	25,432	-	-	3,512	15,694	26,472
1,000,000 "	28	4,453	9,410	19,315	1,481	38,624	94,010	55,812	-	-	6,371	30,036	58,674
5,000,000 and over	4	2,367	5,007	11,677	1,058	19,423	49,965	29,895	-	-	2,800	14,529	30,258
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...
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													
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 "	52	171	346	613	46	1,449	3,250	1,636	30	176	235	871	1,842
50,000 "	52	387	791	1,539	140	3,240	7,026	3,694	10	55	522	2,161	3,783
100,000 "	65	951	1,947	3,652	274	8,695	17,292	8,488	3	28	1,289	5,599	9,471
200,000 "	64	1,616	3,378	6,507	469	23,036	41,945	18,870	-	-	2,185	10,046	19,770
500,000 "	35	2,519	5,248	10,631	1,007	28,827	52,243	24,611	2	30	3,394	16,007	25,911
1,000,000 "	34	5,412	11,739	24,369	1,934	59,425	126,161	66,229	-	-	7,415	38,056	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

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	83	118	240	386	45	1,207	2,833	1,593	52	199	166	582	1,645
5- 14 employed	99	627	1,291	2,359	239	7,396	15,477	8,029	31	133	873	3,589	8,498
15- 49 "	86	1,794	3,750	6,983	551	22,593	42,418	19,492	6	39	2,397	10,529	20,622
50- 99 "	29	1,490	3,263	6,117	477	23,900	42,133	18,338	-	-	2,006	9,308	19,324
100-199 "	26	2,573	5,524	10,764	1,116	25,737	52,493	26,257	-	-	3,391	15,053	26,790
200-499 "	16	3,500	7,332	14,926	1,083	22,775	59,823	37,591	-	-	4,994	23,619	40,118
500 employed and over	4	2,367	5,007	11,677	1,058	19,423	49,985	29,895	-	-	2,800	14,529	30,258
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...
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													
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	83,036	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

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	44	128	257	406	28	899	1,974	1,058	48	194	137	427	1,057
Partnerships	18	84	199	301	38	992	1,896	871	41	178	96	377	891
Incorporated companies	281	12,257	25,951	52,505	4,504	121,142	261,272	139,267	...	...	16,394	76,405	145,307
Co-operatives .....	-	-	-	-	-	-	-	-	...	...	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
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													
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

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	265,142	306,095	26,005	32,392	291,147	338,487
Inventories—Goods of own manufacture:						
A Add closing—Goods in process	19,328	20,322	...	...	19,328	20,322
Finished goods	18,940	22,706	...	...	18,940	22,706
Deduct opening—Goods in process	16,341	19,205	...	...	16,341	19,205
Finished goods	18,271	21,284	...	...	18,271	21,284
2. Net inventory change	3,656	2,539	...	...	3,656	2,539
3. Gross output (1 + 2)	268,798	308,634	26,005	32,392	294,803	341,026
Input						
4. Purchases of goods not of own manufacture .....	...	...	19,227	25,038	19,227	25,038
Inventories—Goods not of own manufacture:						
Add opening .....	...	...	4,184	4,529	4,184	4,529
Deduct closing .....	...	...	4,648	5,176	4,648	5,176
5. Cost of goods sold (not of own manufacture) .....	...	...	18,763	24,391	18,763	24,391
6. Materials, supplies, etc.	123,032	145,460	1,182	1,547	124,214	147,007
7. Fuel and electricity	4,569	5,044	...	...	4,569	5,044
8. Gross input (5 + 6 + 7)	127,601	150,504	19,945	25,938	147,546	176,442
Value added (3 - 8)	141,196	158,130	6,060	6,454	147,255	164,584

TABLE 8. Employment and Payroll, 1963 and 1964

Year and province	Employees										Salaries and wages				
	Production and related workers				Adminis- trative and office		Sales and distribution		Total		Production and related workers		Adminis- trative and office	Sales and distri- bution	Total
	Manufacturing		Other		Male	Female	Male	Female	Male	Female	Manufac- turing	Other			
	Male	Female	Male	Female											
	number										\$'000				
1963															
Newfoundland															
Prince Edward Island															
Nova Scotia															
New Brunswick															
Quebec	1,832	167	-	1	454	174	110	35	2,396	377	8,567	1	3,749	872	13,189
Ontario	7,675	1,033	1	1	1,568	654	536	96	9,780	1,784	37,380	4	12,681	3,812	53,877
Manitoba	422	6	-	-	127	29	14	-	563	35	1,812	-	850	90	2,752
Saskatchewan	77	-	-	-	22	8	3	-	102	8	338	-	196	15	549
Alberta	143	-	1	-	30	6	-	-	174	6	548	4	149	-	701
British Columbia	463	6	-	-	92	33	4	-	559	39	1,941	-	738	23	2,701
Yukon and Northwest Terri- tories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	11,238	1,231	2	2	2,390	934	687	143	14,317	2,310	53,212	9	18,976	5,012	77,209
1964															
Newfoundland															
Prince Edward Island															
Nova Scotia															
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	495	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 Terri- tories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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

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	9,568	1,147	10,561	1,215
February	9,676	1,145	10,630	1,242
March	9,640	1,156	11,104	1,222
April	9,957	1,148	11,115	1,219
May	10,080	1,165	11,362	1,206
June	10,381	1,177	11,448	1,209
July	10,346	1,228	11,191	1,159
August	10,358	1,181	11,238	1,225
September	10,556	1,200	11,131	1,224
October	10,371	1,171	11,154	1,216
November	10,316	1,144	11,123	1,222
December	10,287	1,119	11,088	1,197
Averages	10,145	1,161	11,128	1,212
Establishments reporting annual averages (small establishments only)	1,093	70	1,156	93
Average for all establishments	11,238	1,231	12,284	1,305

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						
Prince Edward Island						
Nova Scotia	1,324	1,172	676	3,172	169	3,341
New Brunswick						
Quebec	2,253	4,575	3,957	10,785	1,141	11,926
Ontario	17,086	10,142	15,679	42,907	2,972	45,879
Manitoba	1,963	2,789	152	4,904	52	4,956
Saskatchewan	35	3	41	78	132	211
Alberta	99	64	114	277	9	286
British Columbia	841	461	666	1,968	53	2,021
Yukon and Northwest Territories	-	-	-	-	-	-
Totals	23,602	19,205	21,284	64,091	4,529	68,620
Closing:						
Newfoundland						
Prince Edward Island						
Nova Scotia	1,756	1,288	650	3,694	188	3,882
New Brunswick						
Quebec	3,130	4,938	3,555	11,623	1,149	12,771
Ontario	19,057	11,706	17,217	47,980	3,611	51,591
Manitoba	2,649	1,876	307	4,832	62	4,894
Saskatchewan	32	4	43	79	106	185
Alberta	150	74	88	312	9	321
British Columbia	1,041	438	846	2,325	51	2,376
Yukon and Northwest Territories	-	-	-	-	-	-
Totals	27,816	20,322	22,706	70,644	5,176	76,021

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	3,313	54	3,168	40
(b) Imported	"	14,380	171	15,320	180
Sub-bituminous coal (from Alberta mines only)	"	-	-	-	-
Anthracite coal	"	-	-	-	-
Lignite coal	"	-	-	-	-
Coke	"	205	10	-	-
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	536,851	202	666,653	259
Fuel oil including kerosene or coal oil	"	6,902,170	1,021	10,068,480	1,121
Wood	cord	72	1	20	--
Gas:					
(a) Liquefied petroleum gases	Imp. gal.	99,913	28	69,576	22
(b) Other manufactured gas	M cu. ft.	1,084	1	-	-
(c) Natural gas	"	1,395,047	1,015	1,700,678	1,203
Other fuel .....	...	...	-	...	9
Electricity purchased	kwh.	147,732,084	1,697	156,651,741	1,823
Steam purchased .....	...	...	67	...	65
2. Small establishments not reporting commodity detail:					
Estimate for fuel and electricity .....	...	...	304	...	321
3. All establishments:					
Total fuel and electricity used .....	...	...	4,569	...	5,044

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

Description	1963		1964	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Materials used:				
Castings (rough and semi-finished received from foundry):				
Iron (gray and malleable)	ton 7,730	2,314	7,730	2,422
Steel	" 5,618	2,816	7,901	3,339
Iron:				
Pig iron	" 8,598	660	11,165	825
Steel:				
Bars and rods	" 175,778	22,645	227,203	28,969
Pipe and fittings	"	6,058	"	4,705
Plates	ton 12,351	2,045	21,836	4,076
Sheets:				
Black	" 11,887	2,297	8,499	1,327
Galvanized	" 2,753	525	3,216	620
Strip	" 3,067	663	3,951	843
Structural shapes	" 7,235	1,285	11,537	2,124
Wire	" 6,442	1,118	6,723	1,249
Alloy steel in all forms:				
Stainless:				
Billets, bars and rods	"	486	"	454
Other	"	4,304	"	4,713
Other alloy and tool steel (including carbon, alloy and high speed steels):				
Billets, bars and rods	"	1,616	"	1,741
Other	"	791	"	2,573
Scrap iron and steel:				
Purchased	ton 33,413	1,207	38,516	1,251
Own make (tonnage only)	" 24,261	...	24,472	...
Other iron and steel	"	2,502	"	2,075
Ferro-alloys	"	110	"	118
Non-ferrous metals:				
Aluminum:				
Castings	lb. 1,385,911	875	3,709,214	1,753
Sheet	" 1,017,288	558	983,319	550
Other forms	" 6,221,560	2,517	4,698,408	2,138
Brass and bronze	" 50,811,154	17,219	54,867,155	20,018
Copper:				
Sheet	" 928,390	451	699,234	366
Wire	" 380,648	184	401,223	205
Other forms	" 1,887,318	902	2,242,016	1,160
Lead	" 4,581,401	522	4,839,991	697
Nickel	" 390,403	455	146,590	151
Tin	" 202,714	237	236,802	335
Zinc	" 2,395,845	553	2,401,568	526
Babbitt metals and solders	" 195,246	133	190,070	169
Other non-ferrous metals	"	81	"	319
Paints, oils and varnishes	"	379	"	614
Foundry coke	ton 8,301	302	8,668	322
Foundry sands	" 28,506	371	30,782	363
Plumbago and graphite	lb. 880,600	36	694,110	29
Lumber	M bd. ft. 1,586	151	1,386	203
Firebrick and cupola blocks	"	133	"	164
Fireclay	ton 3,075	89	2,895	87
Core oil	Imp. gal. 34,818	51	37,538	48
All other materials and components used ¹	"	30,084	"	35,887
2. Containers and other packaging materials and supplies used		1,925		2,508
3. Operating, maintenance and repair supplies used (excluding fuel)		7,277		8,167
4. Amount paid out to others for work done on materials owned by establishments		4,103		5,260
Totals		123,032		145,460

¹ No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$8,787,066 in 1963 and \$9,720,675 in 1964.

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

Description	1963		1964	
	Quantity	Value \$'000	Quantity	Value \$'000
1. Products:				
Agricultural implements .....	...	912	...	828
Castings, forgings and related products (including plumbers' brass and valves):				
Cast iron plumbing fixtures .....	...	760	...	1
Gas stops and gas curb stops .....	...	1,064	...	1
Hydrants	No. 8,329	1,152	9,152	1,873
Meters, gas	" 103,150	3,678	110,325	3,892
Plumbers' brass fittings (excluding solder fittings - See below) .....	...	18,264	...	23,373
Valves (excluding penstock valves) .....	...	29,030	...	29,945
Grey iron castings, including alloy and malleable .....	...	3,877	...	4,763
Non-ferrous castings, n.e.s. ....	...	2,490	...	3,625
Forgings, n.e.s.:				
Steel .....	...	26,721	...	31,120
Other forgings (non-ferrous, stainless steel, etc.) .....	...	2,594	...	3,486
Castings, forgings and related products, other .....	...	16,121	...	19,489
Architectural and ornamental metal work:				
Aluminium .....	...	416	...	1,223
Brass and bronze .....	...	10	...	58
Iron and steel .....	...	1,169	...	1,950
Stainless steel .....	...	141	...	162
Fabricated bar joists	ton 70	27	²	²
Fabricated concrete reinforcing bar	" 76,697	11,892	92,916	14,491
Piping, fabricated .....	...	5,290	...	4,371
Platwork, fabricated, n.e.s. ....	...	1,024	...	1,017
Tanks .....	...	3,598	...	5,927
Fabricated and structural products, other .....	...	10,038	...	8,687
Hardware:				
Automatic screw machine products .....	...	234	...	357
Products other than automatic screw machine (bolts, nuts, rivets, screws) .....	...	5,109	...	5,861
Hardware, other .....	...	1,818	...	2,067
Heating equipment .....	...	1,628	...	3,295
Machinery .....	...	6,751	...	8,160
Miscellaneous products:				
Chains .....	...	2,552	...	2,752
Collapsible tubes, metal .....	...	4,087	...	4,807
Electro-plating racks .....	...	445	...	308
Fire extinguishers, hand-type .....	...	2,846	...	3,258
Lightning rods and supplies .....	...	254	...	282
Pipe fittings .....	...	7,682	...	9,040
Metal sponges or pads, not impregnated .....	...	821	...	921
Powder metallurgy products .....	...	924	...	1,245
Sanitary ware .....	...	28,896	...	21,633
Solder-type fittings .....	...	10,763	...	10,987
Spinnings, all metals .....	...	1,364	...	1,160
All other products .....	...	48,740	...	70,485
2. Amount received in payment for work done on materials and products owned by others ...	...	1,121	...	2,284
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above	...	(2,072)	...	(2,690)
Net adjustment for establishments receiving progress payments .....	...	476	...	(5)
Total adjusted value of shipments and work done .....	...	265,142	...	306,095

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, 1963 and 1964

Product	Value	
	1963	1964
	\$'000	
Bath waste and overflows	1,120	1,394
Faucets, sink, lavatory and bath, and their combinations	5,807	7,054
Plumbing fixture trim	2,174	2,775
Stops	1,396	1,731
Traps	1,165	1,482
Tub-fillers, showers and combinations of same	2,164	2,904
Toilet tank fittings	1,667	2,145
Other brass plumbing fixtures	3,440	4,001
Totals	18,933	23,486
Solder type fittings	11,004	12,466

B. Hand-type Fire Extinguishers, 1955-64

Year	Value	Year	Value
	\$'000		\$'000
1955	2,890	1960	2,876
1956	2,912	1961	2,782
1957	2,649	1962	2,767
1958	2,386	1963	2,846
1959	2,234	1964	3,258

C. Hydrants, 1960-64

Year	Number	Value
		\$'000
1960	11,298	1,913
1961	14,478	2,446
1962	13,967	2,516
1963	13,143	2,349
1964	14,912	2,814

D. Valves, 1963 and 1964

Type	Value	
	1963	1964
	\$'000	
Iron body (gate, globe, check, etc.)	11,016	12,189
Steel, including alloy steel (gate, globe, check, etc.)	10,152	10,755
Brass or bronze (gate, globe, check, etc.)	7,849	8,465
Automatic regulating valves	1,535	1,952
Radiator valves (all types)	317	541
Corporation brass (main and curb stops, etc.)	2,388	1,642
Valves, other	2,084	2,504

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:	
McNamara Industries Ltd.	Box 910, St. John's
Pratt, J.C. Industries Ltd.	Box 1268, St. John's
Nova Scotia:	
Dominion Steel & Coal Corp. Ltd., Trenton Steel Division	Trenton
Maritime Steel & Foundries, Limited	New Glasgow
New Brunswick:	
McAvity, Div. Crane Canada Ltd.	Box 700, Saint John
St. Stephen Steel Company Ltd. (Maritime Steel & Foundry Ltd.)	St. Stephen
Québec:	
Acton Nipple Inc.	Actonvale
Alloy Manufacturing Ltd.	Ville St-Pierre, (Dominion Industrial Bldg.)
Aluminum Casting	219 B rue Charron, Ville Lemoine
American Metals Spinning Ltd.	9947 Paris Ave., Montreal N.
Archambault, Ferronnerie Inc.	Farnham
Argo Co., The	716 St. James St. W, Montreal I
Band T I Corp.	3600 Industrial Blvd., Montreal North
Bergeron, Vincent, Fonderie	410 rue Béland, Laurierville
Booth-Couiter Coppersmithing Co. Ltd.	997 Smith 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
Crane Canada Ltd.	Box 2700 rue St-Laurent, Montreal 9
Croname-MacDonald Limited	Waterloo
Crown Welding Co.	Box 113, St-Henri St., Montreal 20
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 North
Domtar Chemicals Ltd.	15 St. Joseph St., Lachine
Domtar Chemicals Ltd.	Lasalle
Economic Weatherstrip	8695 - 10th Ave., Ville St-Michel
Erectofast Seaffold Ltée	1420, boul. St-Elzéar-ouest, Cté de Chomedey
Fayle Coppersmith Works Ltd.	910 Smith St., Montreal
Farris Industries Canada Ltd.	1150 Marie-Victorin Blvd., Jacques-Cartier, Montreal
Federal Weatherstrip Inc.	9478 Hamelin Ave., Montreal
Freeman Corporation	Cap-de-la-Madeleine
Gaulin, Athanase	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.	5875 Papineau Ave., Montreal
Hard & Metal Works	5780 Boyer St., Montreal
Horizon Metal Products Ltd.	5765 Paré St., Montreal
Industries "Armer" Industries	352, rue de l'Inspecteur, Montreal I
Industries Couture Ltée	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 & Pils Ltée	60 - 4th Ave., Montmagny
La Métallurgie de St. Raphael Ltée	St-Raphaël, Cté de Bellechasse
Lake shore Novelities Reg'd.	470 Victoria St., Lachine
Liberty Mfg. Co.	1090 Pratt Ave., Outremont, Montreal
L'Islet Metal Inc.	C.P. 129, Drummondville
Marois, Arel	Montmagny
Mathieu, Renald	Wickham, Cté de Drummond
Metallogy Inc.	10770 Jean-Meunier St., Montreal 39
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.	985 St. Dominique St., Montreal 34
Park Lane Products Reg'd.	144 Meunier St., Pont-Viau
Peacock Bros. Ltd.	260 St. Patrick St., Ville LaSalle
Piper, Hiram L., Co. Ltd., The	555 St-Rémi St., Montreal
Rockwell Mfg. Co. of Canada Ltd.	Box 978, Montreal
Roy, Irénée, Ltée	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.	Limoulin, C.P. 129, Québec 3
Ville Emard Metal Spinning Reg'd.	5701 Chemin Côte-St-Paul, Montreal 20
Ontario:	
A-1 Steel Works	2391 Mountain Rd., Niagara Falls
Ace Alloys	59 Torbarrie Rd., Downsview
Acrow-Richmond Ltd.	34 Six Point Rd., Toronto
Aerometal Products & Design Ltd.	7 King St. East, Toronto

List of Establishments classified to This Industry, 1964 - Continued

Name	Location
Ontario - Continued:	
Albrecht Bros. Reinforcing Steel Service	970 Guelph St., Kitchener
Aljon Products Ltd.	424 Birchmount Rd., Scarborough
Allied Heat Treat Ltd.	368 Munster Ave., Toronto
Allsteel Rolled Products Ltd.	100 Canadian Rd., Scarborough
Alward, R., & Son	Straffordville
American Standard Prod. (Canada) Ltd.	1201 Dupont St., Toronto
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
Automated Bldg. Comp'n'ts Inc.	50 Howden Rd., Scarborough
B & L Metal Products	Elmira
B & W Heat Treating Ltd.	70 Borden Ave., Kitchener
Bernstein, K.	21 Kensington Ave., Toronto
Best Weather Strip Co. Ltd.	R.R. 7 Brantford
Bex Engineering Ltd.	40 Huxley Rd., Weston
Bouling Metals	562 Parkdale Ave., Hamilton
Brass Craft Canada Ltd.	650 Riverside Drive, Windsor
Brem Enterprises	2562 Stanfield Rd., Cooksville
Brighton Valve Company Limited	Brighton
Brooks Mfg. Co. Ltd.	366 Rogers Rd., Toronto
Bryan Chrome Products Ltd.	180 Milvan Dr., Weston
Budd Machine Tool Co. Ltd.	825 Tecumseh Rd. W., Windsor
C. And R. Metal Products Ltd.	1141 Kelly Lake Rd., Sudbury
Calumet & Hecla (Canadian) Ltd.	134 Nelson St. W., Brampton
Canada Block Co. Ltd., The	21 Riordon 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 Arsenal Ltd.	Box 717, Ottawa 4
Canadian Brass Ltd.	Galt
Canadian Coupling & Fittings Ltd.	Simcoe
Canadian Funeral Supplies Ltd.	11 Galewood Dr., Weston
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.	Milton
Canadian Name Plate Co. Ltd.	Midland
Canadian Pipe & Steel Fabricators	160 Duchess St., Toronto
Canadian Steel Improvement	289 Homer Ave., Toronto
Canadian Vac-Hyd. Processing Ltd.	1371 Speers Rd., Oakville
Canadian Westinghouse Co. Ltd.	Port Hope
Carhayes Ltd.	Box 820, Brantford
Cello Products Ltd.	Galt
Chamberlin Metal Weatherstrip Co. Ltd., The	11 Centre St., London
Chemical Vailey Fabricating Co. Ltd.	Box 760, Samia
Chesley - Sames Ltd.	Essex
Chubb Mosler & Taylor Safes Ltd.	263 Queen St. E., Brampton
Colbey Custom Fabricating Co. Ltd.	147 Hartzell Rd., St. Catharines
Columbus McKinnon Ltd.	Ontario St., St. Catharines
Commercial Heat Treating Ltd.	81 Milvan Dr., Weston
Con-A-Vap Limited	Box 133, Toronto 17
Coulter Copper & Brass Co. Ltd.	44 Coronet Rd., Toronto
CoupcO Limited	Valley Farm Rd., Pickering
Crane Canada Ltd.	Port Hope
Crane Canada Ltd.	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	256 James St. S., Delhi
DeZurik of Canada Ltd.	Box 1300, 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
Dominion Brake Shoe Co. Ltd.	256 Portage Road, Niagara Falls
Dominion Forge Co.	2480 Seminole St., Windsor
Dominion Lighting Rod Co. Ltd.	Dundas
Dominion Sink Ltd.	Petrolia
Dominion Welding Engineering Co. Ltd.	2805 Dufferin St., Toronto
Domus Engineering Co.	330 Geary Ave., Toronto
East York Metal Co. Ltd.	51 Comstock Rd., Scarborough
Electoweld Co. Ltd.	Speers Rd., & Third Line Oakville
Elkel Metal Products	50 Main St. N., 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
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
Franklin Metal Products	202 Pelham Rd., St. Catharines
Fyr Fyter Co. of Canada Ltd.	19 Victoria Crescent, Bramalea
Galt Brass Co. Ltd.	Galt (P.O. Box 37)
Galt British Forge Ltd.	204 Beverley St., Galt
Genbearco Limited	370 Olivewood Road, Toronto
General Die & Machine Co. Ltd.	Box 455, Welland
General Fire Extinguisher Corp. (Canada) Ltd., The	955 Huron Line, Windsor
General Impact Extrusion Mfg. Ltd.	191 Evans Ave., Toronto

List of Establishments classified to This Industry, 1964 - Continued

Name	Location
Ontario - Continued:	
Gilbert Steel Ltd.	Britannia Rd., Malton
Glitsch, Fritz W. & Sons (Canada) Ltd.	Uxbridge
Gottweis, W.H.A.	Markham Rd., RR No. 2, Scarborough
Great Lakes Forgings Ltd.	740 Matthew Brady Blvd., Riverside
Great Lakes Steel Products Ltd.	49 Lucy Ave., Scarborough
Gregory Fasteners Ltd.	25 Kelfield St., Rexdale
Grinnell Co. of Canada Ltd.	427 Lakeshore Blvd. W., Toronto
Guardian Mfg. Ltd.	Brockville
H. & S. Commercial Heat Treat	Welland
Harjohn Industries Ltd.	Grantham Ave., (Box 505) St. Catharines
Harris, J. & Son Ltd.	171 Brant St., Hamilton
Hart, Will Ltd.	92 Sinnott Rd., Scarborough
Haun Drop Forge Co. Ltd.	Box 98, Welland
Hercules Shaft Splice Co.	167 Queen St., Stratford
High Precision Brass Ltd.	181 Gerrard St. E., Toronto
Hike Metal Products Ltd.	Wheatley
Hose Couplings Ltd.	Box 216, Simcoe
Imperial Rack & Mfg. Co. Ltd.	124 Clark Sideroad, London
Industrial Fabricators Ltd.	Box 293, Sarnia
Ithaca Gun Co. (Canada) Ltd.	Park St. E., Dunville
Jamaica Mfg. (Canada) Co. Ltd.	Prescott
Jensen Fitting Mfg. Ltd.	298 Kipling Ave. S., Toronto
Josam Products Ltd.	130 Bermondsey Rd., Toronto
Judd, John Co.	Brock Rd. N., Pickering
K.S.M. of Canada Limited	1090 Kipling Ave. N., Rexdale
Kaldoor Mfg. & Sales Co.	43 Boulton Ave., Toronto 8
Kee Klamp North America Ltd.	43 Gurney Crescent, Toronto
Keystone Valve (Canada) Ltd.	923 Oxford St., Toronto
Killian Mfg. Ltd.	90 Queen Elizabeth Blvd., Toronto
Kitchen Installations Ltd.	Kindred Rd., Midland
Klassen Bronze Ltd.	New Hamburg
Koppers Products Ltd.	16 Taber Rd., Rexdale
Kuchyt Metal Works Ltd.	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
Lofthouse Brass Mfg. Co. Ltd.	Box 1409, Whitby
Luckock, Richard C.	527 Crawford St., Toronto
Magcoa Ltd.	55 Penn. Dr., Weston
Magline of Canada Ltd.	Renfrew
Manning Maxwell & Moore of Canada Ltd.	200 Avenue Rd., Galt
Marcon Custom Metals	Bridgeport
Marson (Canada) Ltd.	29 Shaft Rd., Rexdale
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
Midland Equipment Co.	251 Raleigh Ave., Scarborough
Millard & Lumb Ltd.	Box 87, Kingston
Millman, Messrs. W.H. & Sons	36 Brydon Rd., Rexdale
Misco Fabricators of Canada Ltd.	Welland
Modern Handling Methods Ltd.	Dundas
Moeller Mfg. Co. (Canada) Ltd.	Box 215, Niagara Falls
Moore Air Equipment Ltd.	325 Hale St., London
Morrison, James Brass Mfg. Co. Ltd.	276 King St. W., Toronto
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 Bertal Rd., Toronto
Neosid (Canada) Ltd.	10 Vansco Rd., Toronto
Neptune Meters Ltd.	3526 Lakeshore Blvd. W., Toronto
Niagara Terrazzo Supplies Ltd.	46 Mildord Ave., Toronto
Nicol Manufacturing Co.	32 Brydon Dr., Rexdale
North York Iron Works Co.	110 Millwick 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.	Winchester
Parkinson Cowan (Canada) Ltd.	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.	Box 154, 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.)	Milton
Pinder Bros. Ltd.	2 Otonabee St. W., Willowdale
Pipe Coil Fabricators Ltd.	143 Bermondsey Rd., Toronto
Powco Steel Products Ltd.	24 Ingram Drive, Toronto
Preston Heat Treating Corp. Ltd.	Preston
Product Development & Design Co.	1493 A Dupont St., 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
Ric-Will Co. of Canada Ltd., The	St. Thomas
Roberts, Art. & Son Ltd.	1021 Barton St., Hamilton
Rockwell Mfg. Co. of Canada Ltd.	40 Wellington St., Guelph
Roper Steel Construction Co.	2902 Eglinton E., Scarborough
S.D.M. Thermalite Ltd.	45 Research Rd., Toronto

List of Establishments classified to This Industry, 1964 - Continued

Name	Location
Ontario - Concluded:	
St. Clair Metal Processing Ltd.	740 Matthew Brady Blvd., Riverside
St. Lawrence Steel & Wire Co. Ltd.	Gananoque
Salbrock Mfg.	Pickering
Samuel Steel Strapping Limited	2360 Dixie Rd., Cooksville
Selck, Walter E. & Co. Canada	53 Tycos Drive, Toronto
Shaw Flexible Tubes Ltd.	25 Bethridge Rd., Rexdale
Sinterings Ltd.	265 Edinburgh Rd., Guelph
Smith Valve Corp. of Canada Ltd.	1862 Mattawa Ave., Cooksville
Stampco Industries Ltd.	1496 Concession Rd., Preston
Stanley Manufacturing Co. Ltd., The	230 Bartley Drive, Toronto
Star Expansion Industries (1963) Ltd.	1061 The Queensway, Toronto
Steel Co. of Canada Ltd.	Gananoque
Steffler Metal Products Ltd.	74 River Rd. W., Kitchener
Sterling Faucet Canada Ltd.	Oakville (Box 16)
Sun Tube of Canada Ltd.	145 Spruce St., Ottawa
Superior Concrete Accessories Canada Ltd.	230 Belfield Rd., Rexdale
Taco Heaters of Canada Ltd.	3090 Lenworth Dr., Cooksville
Taylor Associates	48 Ferguson Ave. S., Hamilton
Thamesville Metal Products Ltd.	Thamesville
Thorold Welding Works Ltd.	183 Merritt, Merrittown Ward, St. Catharines
Tonner, Gordon Metal Spinning	134 Oxford St., Richmond Hill
Toronto Coppersmithing Co. Ltd.	80 Knox Ave., Toronto
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
Tubco Lamp Parts Ltd.	47 Rallside Rd., Don Mills
Tube Turns of Canada Ltd.	Rldgetown
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
Victoria Steel Products Ltd.	655 Lauzon Rd., Riverside
Victory Metal Works	767 Warden Ave., Scarborough
Wallaceburg Ball Chain Mfg. Co.	Wallaceburg
Wallaceburg Brass Limited	Wallaceburg
Wallaceburg-Singer Ltd.	Wallaceburg
Watson Metal Works	26 Holtby Ave., Brampton
Waterloo Spring Co. Ltd.	102 Breithaupt, Kitchener
Welco Precision Weights	161 Cope St., Hamilton
Welding Fittings & Flanges of Canada Ltd.	1675 Burlington St. E., Hamilton
Welland Metal Supplies Ltd.	208 Bugar St., Welland
Welland Vale Mfg. Co. Ltd.	Riordan St., St. Catharines
Welmet Industries Ltd.	10 Kingsmill Ave., Guelph
Wessan Plumbing Ltd.	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.	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
Alco Equipment Ltd.	Partridge & Aikins, West Kildonan, Winnipeg 17
Armour Metal Products Ltd.	661 Madison St., St. James
Canadian Bronze Co. Ltd.	13 Bury St., Winnipeg
Cowin Steel Co. Ltd.	1137 Pacific Ave., Winnipeg
Klassen Bros.	421 Edison Ave., Winnipeg
Krushel L. & Sons	Morden
Made-Well Mfg. Co.	Sifton
Manitoba Bridge & Engineering Works Ltd.	845 Logan Ave., Winnipeg
Mercury Metal Products Ltd.	590 Pembina Hwy., Winnipeg
National Products Ltd.	Watt 8 Ottawa, Winnipeg 15
Pary Products Ltd.	S.E. Andrews and Jarvis Sts., Winnipeg
Red River Chain	258 Kingsford Ave., Winnipeg
Rosedale Mfg.	348 Lansdowne Ave., Winnipeg
Swan Manufacturing Company	394 Alexander St., Winnipeg
Saskatchewan:	
Acme Industries Ltd.	182 Wall St., Saskatoon
East, John, Iron Works Ltd.	121 Ave. C. North, Saskatoon
Fudge's Industries	Moosomin
Regina Iron Works Ltd.	Box 785, 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.	Calgary
Community Shopping Developments Ltd.	10426-95th St., Edmonton
Crane Canada Ltd.	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

List of Establishments classified to This Industry, 1964 - Concluded

Name	Location
Alberta - Concluded:	
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	Blackfalds
Winspun Copper & Brass Ltd.	4303-17th Ave. S.E., Calgary
Wittke Iron Works	2201-15th Ave. S.E., Medicine Hat
British Columbia:	
Advance Industries Ltd.	2034 W. 12th Ave., Vancouver
Advance Metalpres Products Ltd.	Granville Island, Vancouver
Alumaloc	367 Water St., Vancouver
BC Chains Ltd.	1806 Granville St., Vancouver
Basco Mfg. Co. Ltd.	Campbell River
Bobble Equipment & Welding Co. Ltd.	1915 Fir St., Vancouver
Brittain Steel Fabs. Ltd.	400 Ewen Ave., New Westminster
CA Manufacturing Ltd.	1010 Seymour St., Vancouver
C. & B. Heat Treating Ltd.	425 W. 6th Ave., Vancouver
Canada Chain & Forge Co. Ltd.	Granville Island, Vancouver
Canadan Norwegian Chain Co. Ltd.	Granville Island, Vancouver
Capilano Metal Products Ltd.	260 Pemberton Ave., North Vancouver
Ellett Copper & Brass Co. Ltd.	92 West 2nd Ave., Vancouver
Edwards Welding Limited	737 Broughton St., Victoria
Hastings Brass Foundry Ltd.	236 Clark Drive, Vancouver
Jackson Scaffolding Ltd.	1848 West 1st Ave., Vancouver
Kamloops Steel Fabricators Ltd.	194 Victoria St. W., Kamloops
Lister Bolt & Chain Works Ltd.	301 West 5th Ave., Vancouver
McBain, A.J., Ltd.	1968 W. Georgia St., Vancouver
McLeod & Norquay Ltd.	2165 W. 10th Ave., Vancouver
McQuat Industries Ltd.	1500 Pemberton Ave., North Vancouver
Metal Distributors Ltd.	Box 2214, Vancouver
Micon Products Ltd.	Granville Island, Vancouver
Motor Specialty Manufacturers Ltd.	475 Clark Drive, Vancouver
Paceantic Products Ltd.	1329 Pemberton Ave., N. Vancouver
Pacific Aluminum House Ltd.	54 E. 3rd Ave., Vancouver
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.	40 East Cordova St., Vancouver
Ross & Howard Iron Works Co. Ltd.	Ft. Woodland Drive., 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 Industries	2469 Ottawa Ave., West Vancouver
Western Corrosion Engineering Ltd.	882 E. Cordova St., Vancouver
Wilfro Mfg. Co. Ltd.	880 Clark Drive, Vancouver 6

CONCEPTS AND DEFINITIONS

Census of Manufactures

General

The Census of Manufactures is an annual mail survey covering Canada's Manufacturing Industries. It is based on the Standard Classification of Industries and full details concerning the system may be found in the Standard Industrial Classification manual, Catalogue No. 12-501 which is available from the Queen's Printer or the Dominion Bureau of Statistics. In summary, the Classification as it relates to the manufacturing industries provides for a breakdown into 140 industries arranged in 20 major industry groups. Of the 140 (3 digit) industries, 18 are further broken down into 56 (4 digit) sub classes. At the Canada level, principal statistics are collected and compiled for 176 separate industries. They cannot all be published separately by province, however, because of the confidential nature of the data in certain provinces.

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

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

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

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

Establishment

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

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

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

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

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

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

Head Offices and Auxiliary Units

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

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

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

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

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

Employees

(a) Production and related workers – Manufacturing activities

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

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

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

(c) Administrative and office employees

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

(d) Sales and distribution workers

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

(e) Total Employees

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

Working Owners or Partners

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

Salaries and Wages

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

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

Fuel and Electricity

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

Materials and Supplies

(a) Manufacturing activities

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

(b) Non-manufacturing activities

1. Purchases for re-sale as such

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

2. Other materials and supplies used

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

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

Shipments

(a) General

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

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

(b) Shipments of goods of own manufacture

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

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

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

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

(c) Shipments of goods not of own manufacture

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

(d) Other revenue

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

Inventories

(a) Manufacturing activities

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

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

(b) Non-manufacturing activities

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

Value Added

(a) By manufacturing activities

Figures are compiled by deducting the cost of manufacturing materials, supplies, etc. and fuel and electricity consumed from the (value of shipments of goods of own manufacture adjusted for changes in the value of inventories of finished goods and goods in process).

(b) By non-manufacturing activities

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

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

(c) By Total activities

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

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MISCELLANEOUS METAL FABRICATING INDUSTRIES