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HARDWARE, TOOL AND CUTLERY MANUFACTURERS

1965

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HARDWARE, TOOL AND CUTLERY MANUFACTURERS

1965

For statistical purposes the industry titled Hardware, Tool and Cutlery Manufacturers in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in manufacturing edge and hand tools, cutlery and hardware. Important products of this industry are axes; chisels; dies and other metalworking tools; hammers, shovels, hoes, rakes, files, saws, builders' hardware, marine hardware, non-electric razors and blades, table and kitchen cutlery and a miscellaneous group of products usually known under the term "hardware" and not elsewhere classified. This industry also includes establishments primarily engaged in manufacturing bits, drills and other cutting tools for machines or for power-driven hand tools. Establishments primarily engaged in the manufacture of sterling silver or silver-plated cutlery are classified in Industry No. 382—Jewellery and Silverware Manufacturers, those primarily engaged in the manufacture of machine tools or of power-driven hand tools in Industry No. 315—Miscellaneous Machinery and Equipment Manufacturers, and those primarily engaged in manufacturing machinists' precision tools in Industry No. 381—Scientific and Professional Equipment Manufacturers.

An examination of the principal statistics for this industry indicates that the value of shipments increased by 8.9 per cent, the cost of materials used by 11.8 per cent and the value of production increased by 8.7 per cent. The ratio of materials used to value of production was 37.5 per cent whereas in 1964 it was 38.5 per cent of the value of production. Value added on products of own manufacture increased by 6.8 per cent.

The value of shipments of hardware tool and cutlery items as reported by the firms classified to this industry represented 78 per cent of their total value of shipments. Some of the non hardware items reported were aircraft parts, stampings, bathroom fixtures, hoists and parts, moulds, die sets, automotive stampings and forgings and outboard motors.

SYMBOLS

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

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

TABLE 1. Principal Statistics, 1961-65

Year and province	Establishments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
	No.		'000							\$'000			\$'000
1961													
Totals	306	6,889	14,958	26,979	1,524	37,133	113,327	75,700	95	429	9,135	39,860	78,196
1962													
Totals	331	7,714	17,039	30,784	1,666	47,683	131,563	84,015	117	558	10,223	45,096	87,270
1963													
Totals	351	8,434	18,488	34,837	1,792	57,418	152,705	96,193	107	547	11,112	51,157	99,634
1964													
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	2	x	x	x	x	x	x	x	—	—	x	x	x
New Brunswick	—	—	—	—	—	—	—	—	—	—	—	—	—
Quebec	89	2,133	4,569	8,214	417	17,563	44,146	26,576	37	164	2,867	12,550	26,858
Ontario	279	7,336	16,092	32,056	1,459	48,148	128,101	80,874	99	513	9,373	44,973	84,307
Manitoba	5	42	88	146	9	299	682	364	x	x	52	197	380
Saskatchewan	—	—	—	—	—	—	—	—	—	—	—	—	—
Alberta	7	x	x	x	x	x	x	x	x	x	x	x	x
British Columbia	15	479	1,014	2,025	124	4,474	12,000	7,484	x	x	734	3,456	7,837
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	397	10,056	21,898	42,708	2,018	70,698	185,710	115,869	140	689	13,110	61,534	119,983
1965													
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	2	x	x	x	x	x	x	x	—	—	x	x	x
New Brunswick	—	—	—	—	—	—	—	—	—	—	—	—	—
Quebec	92	2,216	4,703	8,715	476	19,989	49,430	29,325	38	191	2,928	13,140	29,644
Ontario	301	7,652	16,673	34,876	1,643	54,282	141,493	87,792	92	547	9,858	49,175	92,122
Manitoba	5	35	77	122	7	284	703	388	x	x	45	174	390
Saskatchewan	—	—	—	—	—	—	—	—	—	—	—	—	—
Alberta	7	x	x	x	x	x	x	x	x	x	x	x	x
British Columbia	16	419	865	1,803	104	4,273	9,780	5,643	x	x	651	3,331	5,783
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	423	10,393	22,463	45,784	2,238	79,050	202,180	123,692	133	747	13,570	66,177	128,487

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	11	1	2	2	2	20	67	45	11	26	2	4	45
\$ 10,000 to \$ 24,999	47	51	100	156	16	256	806	542	50	172	65	198	553
25,000 " 49,999	59	156	313	543	37	722	2,138	1,384	41	243	193	695	1,387
50,000 " 99,999	67	409	822	1,595	64	1,553	4,986	3,395	32	199	507	2,067	3,445
100,000 " 199,999	60	667	1,360	2,597	125	2,888	8,376	5,366	5	44	822	3,521	5,449
200,000 " 499,999	69	1,482	3,188	6,292	260	7,711	22,027	14,367	1	4	1,890	8,915	14,818
500,000 " 999,999	35	1,537	3,355	6,578	289	8,971	24,206	15,079	—	—	1,981	9,459	16,194
1,000,000 " 4,999,999	46	5,203	11,503	22,208	1,080	38,578	100,212	62,711	—	—	6,726	31,706	64,733
5,000,000 and over	3	550	1,255	2,736	146	9,998	22,891	12,983	—	—	924	4,969	13,360
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	397	10,036	21,898	42,708	2,018	70,698	185,710	115,869	140	689	13,110	61,534	119,983
1965													
Under \$10,000	10	3	6	8	2	20	76	54	10	28	4	10	54
\$ 10,000 to \$ 24,999	45	55	111	178	15	231	811	575	39	168	69	220	586
25,000 " 49,999	68	181	366	662	43	785	2,522	1,720	50	298	222	834	1,722
50,000 " 99,999	72	413	838	1,694	82	1,580	5,218	3,595	28	197	517	2,232	3,669
100,000 " 199,999	69	724	1,498	3,091	141	2,985	9,476	6,415	6	56	909	4,194	6,510
200,000 " 499,999	67	1,295	2,846	5,686	264	7,536	21,237	13,699	—	—	1,676	8,080	14,047
500,000 " 999,999	40	1,543	3,391	7,032	328	9,951	27,218	17,368	—	—	1,998	10,190	18,242
1,000,000 " 4,999,999	46	4,739	10,193	20,117	1,079	38,809	92,613	54,015	—	—	6,141	29,221	56,793
5,000,000 and over	6	1,440	3,213	7,316	285	17,154	43,009	26,251	—	—	1,980	10,844	26,864
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	54	352	—
Totals	423	10,393	22,463	45,784	2,238	79,050	202,180	123,692	133	747	13,570	66,177	128,487

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	27	8	14	17	7	118	290	168	31	87	12	26	171
\$ 10,000 to \$ 24,999	70	128	256	426	32	668	1,891	1,194	53	225	164	557	1,207
25,000 " 49,999	55	245	491	888	51	1,091	3,134	2,007	40	260	298	1,130	2,050
50,000 " 99,999	75	648	1,318	2,565	116	2,724	8,177	5,341	14	103	813	3,504	5,429
100,000 " 199,999	54	832	1,732	3,391	146	5,375	13,164	7,804	2	14	1,098	4,949	8,158
200,000 " 499,999	59	1,888	4,133	7,815	334	11,859	30,471	18,526	—	—	2,393	11,223	19,527
500,000 " 999,999	29	1,944	4,278	8,092	381	14,704	34,819	19,680	—	—	2,382	11,099	19,913
1,000,000 " 4,999,999	28	4,363	9,676	19,515	951	34,159	93,764	61,149	—	—	5,959	29,047	63,527
5,000,000 and over													
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	397	10,056	21,898	42,708	2,018	70,698	185,710	115,869	140	689	13,110	61,534	119,983
1965													
Under \$10,000	22	11	22	29	5	68	219	147	22	69	13	33	147
\$ 10,000 to \$ 24,999	76	134	271	462	38	864	2,276	1,395	53	267	174	615	1,435
25,000 " 49,999	66	265	534	1,051	51	1,286	3,711	2,420	42	264	330	1,353	2,498
50,000 " 99,999	77	669	1,366	2,754	139	2,688	8,313	5,526	16	147	829	3,671	5,579
100,000 " 199,999	63	887	1,914	3,815	178	5,563	14,744	9,093	—	—	1,156	5,527	9,235
200,000 " 499,999	59	1,841	4,013	7,988	341	13,029	32,554	19,693	—	—	2,333	11,230	20,342
500,000 " 999,999	31	1,998	4,528	9,280	454	15,067	35,912	20,870	—	—	2,534	12,961	22,159
1,000,000 " 4,999,999	29	4,588	9,815	20,405	1,031	40,485	104,452	64,548	—	—	6,147	30,486	77,965
5,000,000 and over													
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	54	352	—
Totals	423	10,393	22,463	45,784	2,238	79,050	202,180	123,692	133	747	13,570	66,177	128,487

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	27	8	14	17	7	118	290	168	31	87	12	26	171
\$ 10,000 to \$ 24,999	69	123	246	409	32	658	1,854	1,170	53	225	158	538	1,180
25,000 " 49,999	55	247	495	890	51	1,063	3,096	1,995	40	260	299	1,120	2,013
50,000 " 99,999	74	629	1,278	2,494	113	2,696	7,996	5,184	14	103	790	3,407	5,273
100,000 " 199,999	54	861	1,795	3,463	151	5,350	13,005	7,643	2	14	1,074	4,799	7,718
200,000 " 499,999	59	1,822	4,016	7,629	298	11,323	29,502	18,214	—	—	2,318	10,848	18,812
500,000 " 999,999	31	2,002	4,380	8,291	416	15,331	36,203	20,346	—	—	2,509	11,750	21,290
1,000,000 " 4,999,999	28	4,363	9,676	19,515	951	34,159	93,764	61,149	—	—	5,950	29,047	63,527
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	397	10,056	21,898	42,708	2,018	70,698	185,710	115,869	140	689	13,110	61,534	119,983
1965													
Under \$10,000	22	11	22	29	5	68	219	147	22	69	13	33	147
\$ 10,000 to \$ 24,999	75	132	267	455	38	756	2,147	1,374	53	267	171	606	1,384
25,000 " 49,999	63	253	510	1,000	48	1,204	3,505	2,291	40	253	313	1,272	2,297
50,000 " 99,999	80	678	1,386	2,796	141	2,755	8,435	5,591	18	159	837	3,700	5,695
100,000 " 199,999	61	831	1,792	3,585	163	5,385	14,070	8,627	—	—	1,088	5,239	8,733
200,000 " 499,999	60	1,839	3,992	7,947	337	12,661	31,895	19,334	—	—	2,296	10,988	19,680
500,000 " 999,999	31	1,876	4,296	8,848	425	13,753	34,129	20,336	—	—	2,376	12,258	21,141
1,000,000 " 4,999,999	31	4,773	10,198	21,123	1,080	42,468	107,779	65,993	—	—	6,422	31,729	69,411
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	54	352	—
Totals	423	10,393	22,463	45,784	2,238	79,050	202,180	123,692	133	747	13,570	66,177	128,487

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	133	265	448	43	939	2,525	1,553	94	395	174	596	1,568
5- 14 employed	122	783	1,602	3,092	153	4,364	11,893	3,440	44	280	1,006	4,299	7,543
15- 49 "	103	2,108	4,583	9,111	378	13,632	35,930	22,064	2	14	2,686	12,983	22,744
50- 99 "	37	2,117	4,671	8,779	416	12,598	33,538	20,620	—	—	2,624	12,147	21,541
100-199 "	22	2,431	5,222	10,185	546	19,413	47,686	28,827	—	—	3,296	15,372	30,496
200-499 "	11	2,484	5,556	11,094	483	19,752	54,138	35,366	—	—	3,324	16,137	36,091
500 employed and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	397	10,056	21,898	42,708	2,018	70,698	185,710	115,869	140	689	13,110	61,534	119,983
1965													
Under 5 employed	112	173	350	638	46	1,326	3,410	2,078	84	416	222	826	2,120
5- 14 employed	137	891	1,832	3,811	197	4,553	13,481	8,788	47	317	1,144	5,237	8,946
15- 49 "	104	2,170	4,727	9,470	442	15,410	39,293	24,033	2	14	2,752	13,462	24,491
50- 99 "	37	2,176	4,899	9,867	449	13,193	35,263	22,271	—	—	2,697	13,542	23,509
100-199 "	21	2,255	4,837	9,811	520	19,349	45,550	25,880	—	—	3,076	14,816	27,827
200-499 "	12	2,728	5,817	12,186	584	25,219	65,184	40,643	—	—	3,625	17,943	41,594
500 employed and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	54	352	—
Totals	423	10,393	22,463	45,784	2,238	79,050	202,180	123,692	133	747	13,570	66,177	128,487

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	68	186	371	685	39	764	2,378	1,586	69	363	193	708	1,584
Partnerships	35	77	157	291	23	481	1,470	982	71	326	81	304	984
Incorporated companies	294	9,793	21,370	41,732	1,956	69,454	181,862	113,302	...	...	12,836	60,522	117,415
Co-operatives													
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	397	10,056	21,898	42,708	2,018	70,698	185,710	115,869	140	689	13,110	61,534	119,983
1965													
Individual ownerships	75	174	350	648	37	675	2,406	1,716	73	415	180	670	1,716
Partnerships	32	116	243	493	47	555	1,892	1,293	60	332	127	554	1,311
Incorporated companies	316	10,103	21,869	44,643	2,153	77,820	197,881	120,683	...	...	13,209	64,601	125,460
Co-operatives .....	-	-	-	-	-	-	-	-	...	...	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	54	352	-
Totals	423	10,393	22,463	45,784	2,238	79,050	202,180	123,692	133	747	13,570	66,177	128,487

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	185,710	202,180	21,577	22,299	207,287	224,479
Inventories—Goods of own manufacture:						
Add closing—Goods in process	12,872	14,730	...	...	12,872	14,730
Finished goods	12,748	13,871	...	...	12,748	13,871
Deduct opening—Goods in process	11,496	13,262	...	...	11,496	13,262
Finished goods	11,248	12,538	...	...	11,248	12,538
2. Net inventory change	2,876	2,801	...	...	2,876	2,801
3. Gross output (1 + 2)	188,586	204,981	21,577	22,299	210,163	227,280
Input						
4. Purchases of goods not of own manufacture .....	...	...	16,942	16,885	16,942	16,885
Inventories—Goods not of own manufacture:						
Add opening .....	...	...	2,923	3,368	2,923	3,368
Deduct closing .....	...	...	3,348	3,857	3,348	3,857
5. Cost of goods sold (not of own manufacture) .....	...	...	16,517	16,396	16,517	16,396
6. Materials, supplies, etc.	70,698	79,050	947	1,108	71,645	80,158
7. Fuel and electricity	2,018	2,238	...	...	2,018	2,238
8. Gross input (5 + 6 + 7)	72,716	81,288	17,464	17,504	90,180	98,792
Value added (3 - 8)	115,869	123,692	4,114	4,795	119,983	128,487

TABLE 8. Employment and Payroll, 1964 and 1965

Year and province	Employees										Salaries and wages				
	Production and related workers				Adminis- trative and office		Sales and distribution		Total		Production and related workers		Admin- istrative and office	Sales and distrib- ution	Total
	Manufacturing		Other								Manufac- turing	Other			
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female			Manufac- turing	Other	
	number										\$'000				
1964															
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	x	x	-	-	x	x	-	-	x	x	x	-	x	-	x
New Brunswick	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec	1,764	369	-	-	330	142	219	43	2,313	554	8,214	-	2,625	1,711	12,550
Ontario	6,180	1,156	8	-	957	546	414	112	7,559	1,814	32,056	35	9,637	3,245	44,973
Manitoba	40	2	-	-	5	3	1	1	46	6	146	-	42	8	197
Saskatchewan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta	x	x	-	-	x	x	-	-	x	x	x	-	x	-	x
British Columbia	363	116	8	4	93	51	79	20	543	191	2,025	59	779	593	3,456
Yukon and Northwest Terri- tories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	8,411	1,645	16	4	1,398	747	713	176	10,538	2,572	42,708	94	13,174	5,558	61,534
1965															
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	x	x	-	-	x	x	-	-	x	x	x	-	x	-	x
New Brunswick	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec	1,854	362	-	-	343	154	177	38	2,374	554	8,715	-	2,961	1,463	13,140
Ontario	6,410	1,242	5	3	1,029	594	475	100	7,919	1,939	34,876	27	10,470	3,802	49,175
Manitoba	34	1	-	-	6	2	1	1	41	4	122	-	43	8	174
Saskatchewan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta	x	x	-	-	x	x	-	-	x	x	x	-	x	-	x
British Columbia	297	122	9	5	84	39	81	14	471	180	1,803	68	736	725	3,331
Yukon and Northwest Terri- tories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	8,663	1,730	14	8	1,474	794	734	153	10,885	2,685	45,784	95	14,300	5,999	66,177

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	6,578	1,375	7,363	1,669
February	6,745	1,457	7,496	1,685
March	6,852	1,505	7,535	1,712
April	6,927	1,550	7,502	1,706
May	7,074	1,574	7,586	1,696
June	7,221	1,642	7,659	1,659
July	7,139	1,601	7,491	1,616
August	7,173	1,622	7,477	1,678
September	6,960	1,614	7,513	1,676
October	7,204	1,610	7,419	1,664
November	7,141	1,637	7,511	1,690
December	7,113	1,617	7,525	1,662
Averages	7,018	1,571	7,511	1,680
Establishments reporting annual averages (small establishments only)	1,393	74	1,152	50
Average for all establishments	8,411	1,645	8,663	1,730

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	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	x	x	x	x	—	x
New Brunswick	—	—	—	—	—	—
Quebec	4,835	2,173	3,907	10,916	656	11,572
Ontario	8,755	10,241	8,178	27,174	2,670	29,843
Manitoba	153	24	40	217	—	217
Saskatchewan	—	—	—	—	—	—
Alberta	x	x	x	x	—	x
British Columbia	911	809	372	2,092	42	2,133
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	14,722	13,262	12,538	40,523	3,368	43,890
Closing:						
Newfoundland	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	x	x	x	x	—	x
New Brunswick	—	—	—	—	—	—
Quebec	5,165	2,317	4,123	11,605	882	12,487
Ontario	9,635	11,416	9,226	30,277	2,924	33,202
Manitoba	125	26	14	166	—	166
Saskatchewan	—	—	—	—	—	—
Alberta	x	x	x	x	—	x
British Columbia	1,177	955	465	2,597	50	2,647
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	16,172	14,730	13,871	44,773	3,857	48,630

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	2,126	1,512	17
(b) Imported	"	3,227	1,848	27
Sub-bituminous coal (from Alberta mines only)	"	—	—	—
Anthracite coal	"	302	301	6
Lignite coal	"	—	—	—
Coke	"	—	—	—
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	362,286	470,561	201
Fuel oil including kerosene or coal oil	"	2,128,345	2,275,516	294
Wood	cord	—	—	—
Gas:				
(a) Liquefied petroleum gases	Imp. gal.	78,046	81,072	23
(b) Other manufactured gas	M cu. ft.	—	—	—
(c) Natural gas	"	381,652	458,922	441
Other fuel .....	...	4	...	4
Electricity purchased	kwh.	67,718,554	71,418,216	965
Steam purchased .....	...	15	...	14
2. Small establishments not reporting commodity detail:				
Estimate for fuel and electricity .....	...	249	...	249
3. All establishments:				
Total fuel and electricity used .....	...	2,018	...	2,238

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

Description	1964		1965	
	Quantity	Cost \$'000	Quantity	Cost \$'000
1. Materials used:				
Iron and steel:				
Castings:				
Iron (gray and malleable)	ton	865	427	1,889
Steel	"	1,673	312	3,017
Pig iron	"	127	9	136
Bars and rods	"	13,092	1,962	16,019
Plates	"	3,331	609	3,591
Sheets:				
Plain	"	21,549	3,096	22,523
Galvanized	"	1,712	270	4,352
Tin plate	"	236	51	209
Strip	"	11,407	2,990	12,530
Structural shapes	"	387	95	313
Wires	"	1,551	354	1,827
Alloy steel:				
Stainless:				
Billets, bars and rods .....		...	256	...
Other stainless .....		...	2,322	...
Other alloy and steel (including carbon, alloy and highspeed steels):				
Billets, bars and rods .....		...	5,106	...
Other .....		...	2,289	...
Scrap iron and steel:				
Purchased	ton	5	--	--
Own make	"	--	12	...
All other iron and steel .....		...	2,357	...
Non-ferrous metals:				
Aluminum:				
Castings	lb.	169,857	81	264,350
Sheet	"	546,416	245	775,637
Other	"	2,841,994	1,301	1,290,749
Bronze and brass	"	2,434,621	1,161	3,251,567
Copper:				
Sheet	"	4,500	2	145,802
Wire	"	11,800	6	10,835
Other forms	"	38,387	23	192,741
Lead	"	16,085	3	38,951
Nickel	"	57,763	36	85,373
Tin	"	1,150	1	600
Zinc	"	3,853,624	613	4,464,383
Other non-ferrous .....		...	199	...
Other materials:				
Handles .....		...	831	...
Paints, oils and varnishes .....		...	157	...
Lumber	M ft. b.m.	1,055	106	1,108
All other materials and components used ¹ .....		...	33,226	...
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 .....		...	70,898	...

¹ No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$6,086,808 in 1964 and \$4,876,278 in 1965.

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

Description	1964		1965	
	Quantity	Value	Quantity	Value
	number	\$'000	number	\$'000
1. Products:				
Safety razors and blades, steel table cutlery, scissors, army knives etc. ....	...	11,891	...	15,270
Hardware:				
Automobile .....	...	3,376	...	5,136
Builders' and shelf .....	...	27,443	...	28,545
Furniture and cabinet .....	...	8,317	...	8,530
Trunk and suitcase .....	...	346	...	386
Other hardware .....	...	10,379	...	9,071
Hand implements:				
Axes and hatchets	1	1	1	1
Canthooks, peavies and pikepoles	104,306	339	65,380	605
Spades, shovels and scoops	1,136,468	2,564	1	1
Other hand implements .....	...	3,557	...	6,378
Tungsten carbide products:				
Tools, including masonry drills .....	...	2,522	...	2,576
Dies .....	...	1,031	...	995
Other products (tips or blanks and rock drill bits) .....	...	3,414	...	4,175
Tools, hand and small:				
Automotive tools (hand and power-driven) .....	...	1,562	...	2,017
Carpenters' and mechanics', including files .....	...	11,245	...	13,990
Jigs and fixtures .....	...	3,378	...	4,127
Machine knives .....	...	2,287	...	2,019
Drills, taps, bits, reamers, punches and threading dies (including screw plates) .....	...	5,417	...	1
Milling cutters .....	...	1,103	...	1
Other tools .....	...	3,742	...	10,516
Miscellaneous:				
Bolts, nuts, rivets, washers, screws and allied products .....	...	1,761	...	2,090
Casters, other than glass .....	...	1,182	...	1,480
Dies for drawing, cutting or stamping .....	...	22,768	...	19,871
Saws, metal-cutting, including circular, band and hacksaw blades (hand and power) .....	...	3,462	...	3,379
Saws, wood-cutting, and parts .....	...	11,606	...	10,068
Received from custom and repair work .....	...	2,145	...	1,122
All other products .....	...	38,632	...	47,319
2. Amount received in payment for work done on materials and products owned by others .....	...	702	...	3,024
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above .....	...	(462)	...	(519)
Net adjustment for establishments receiving progress payments .....	...	—	...	—
Total adjusted value of shipments and work done .....	...	185,710	...	202,180

¹ Confidential, included with "Other hand implements."

² Confidential, included with "Other tools".

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. Hardware, 1964 and 1965

	Value	
	1964	1965
	\$'000	
Builders' and shelf	29,649	30,494
Marine and rigging	1,459	1,326
Pole line (except insulators)	13,828	13,533
Automobile	19,522	25,594
Furniture and cabinet	8,896	8,362
Trunk and suitcase	346	386
Other	11,758	13,154
Totals	85,658	93,349

TABLE 14. Shipments of Selected Goods of Own Manufacture - All Industries - Continued
B. Wood-cutting Saws, 1964 and 1965

	Value	
	1964	1965
	\$'000	
Power saws:		
Circular (blades only)	2,238	2,040
Band (blades only)	1,145	1,058
Drag and gang (blades only)	1	1
Crosscut Saws	211	186
Web saws	1	1
Hand-saws	1,472	737
Parts for above, including saw-teeth	2,981	1,534
Totals	7,247	5,555

C. Power Chain Saws and Parts, 1961 - 65

Year	Saws		Parts
	Number	Value	Value
		\$'000	\$'000
1961	85,488	6,337	3,981
1962	103,736	6,769	6,183
1963	99,886	8,169	6,627
1964	118,335	10,362	8,951
1965	130,700	10,887	8,598

D. Axes and Hatchets, 1955 - 65

Year	Number	Value	Year	Number	Value
	'000	\$'000		'000	\$'000
1955	504	893	1961	253	600
1956	512	1,013	1962	289	679
1957	406	881	1963	283	728
1958	324	722	1964 .....	..	..
1959	310	705	1965 .....	..	..
1960	325	780			

E. Spades and Shovels, 1955 - 65

Year	Number	Value	Year	Number	Value
	'000	\$'000		'000	\$'000
1955	1,054	1,695	1961	779	1,894
1956	1,134	2,182	1962	1,053	2,396
1957	815	1,733	1963	1,227	2,527
1958	1,158	2,438	1964	1,136	2,564
1959	1,106	2,420	1965 .....	..	..
1960	1,055	2,072			

See footnote at end of table.

TABLE 14. Shipments of Selected Goods of Own Manufacture - All Industries - Concluded
F. Forks, Rakes, Hoes and Peavies, 1955 - 65

Year	Forks		Rakes		Hoes		Peavies, canthooks and pike poles
	Number	Value	Number	Value	Number	Value	
	'000	\$'000	'000	\$'000	'000	\$'000	\$'000
1955	281	418	296	313	211	225	487
1956	301	478	331	377	209	238	561
1957	264	468	314	504	153	216	302
1958	216	481	132	213	120	183	232
1959	148	275	282	514	139	253	224
1960	167	293	255	473	116	212	309
1961	163	301	301	548	119	212	289
1962	194	343	367	654	125	222	304
1963	230	409	438	779	157	279	367
1964 .....	..	..	..	..	..	..	..
1965 .....	..	..	..	..	..	..	..

G. Small tools,² 1964 and 1965

	Value	
	1964	1965
	\$'000	
Carpenters' and mechanics', including files	12,892	17,937
Machine knives	2,287	2,019
Drills, taps, bits, reamers, punches, and threading dies (including screw-plates)	5,513	6,014
Milling cutters	1,103	3
Gauges (plug, ring, snap, thread, etc.)	243	326
Other tools, jigs and fixtures	16,114	24,369
Totals	38,152	50,665

H. Miscellaneous Steel Cutlery,⁴ 1955 - 65

Year	Value	Year	Value
	\$'000		\$'000
1955	2,568	1961	2,885
1956	3,245	1962	3,638
1957	2,757	1963	3,099
1958	2,622	1964	3,667
1959	2,518	1965	4,536
1960	2,249		

¹ Included with "Parts for above, including saw-teeth".

² Does not include pneumatic or electric tools.

³ Included with "Other tools, jigs and fixtures".

⁴ Includes paring knives, bread-knives, army utility knives, scissors, unplated table cutlery, etc. Sterling silver and silver-plated ware not included.

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
Nova Scotia:	
Grohmann Knives Limited	Pictou
Morrison, H.K. & Sons Ltd.	Mount Uniacke
Quebec:	
Abaco Productions Tool & Die Making	3905 Industrial Blvd., Montreal North
Aéro Mécanique Ltée	1, ave Dery, Quebec 5
Almet Findings Limited	433 St. Martin, Montreal 3
Atlas Mould & Die Ltd.	24 Mount Royal Ave. W., Montreal
Poisvert, J.R. & Cie Ltée	Grandes Piles
Brassard, M.A.	6581 Park Ave., Montreal
Brunner & Lay (Canada) Ltd.	2280-43rd. Ave., Lachine
Canada Tools Reg'd.	Rawdon
Canadian Cutting Dies Reg'd.	2 A Third Ave., Quebec 3

List of Establishments classified to this Industry, 1965 - Continued

Name	Location
Quebec - Concluded:	
Canadian Die-Cutters Co. Reg'd	2143 St. Patrick St., Montreal
Canadian Tool Engineering Co.	10320 Pelletier St., Montreal 39
Canadian Wire, Die Works Ltd.	2825 Jacques Hertel St., Montreal 20
Canuel, Onézine	St-Ulric, de Matane
Capitol Industries Ltd.	5680 Fullum St., Montreal
City Steel Rule Dies	9103 Iberville St., St-Michel
Colonial Tool & Dies Reg'd.	7990 15ième Avenue, St-Michel
Cosmos Cutting Dies Inc.	2180 l'Espérance St., Montréal
Denman Engraving Reg'd.	360 Recollet St., Montréal
Dacan Co.	5910 Park Ave., Montreal
Diamond Productions Co. of Canada	740 St. Maurice Blvd., Montreal
Diemakers Ltd.	145 Graveline St., St-Laurent
Dominion Lock Co. Ltd.	7301 Decarie Blvd., Montreal
Dorval Precision Works Ltd.	6625, rue Magloire, St-Léonard de Port-Maurice
Drummond Die & Stamping Reg'd.	Drummondville
Dubé Metal Works	5828 St. André, St., Montreal
Dumco Metal Products Co. Ltd.	10780 St. Hubert St., Montreal
Dynamic	9615 Papineau St., Montreal
Eastern Cutting Die Co.	20 Lagachetière E., Montreal
Economy Steel Rule Dies Ltd.	957 Amherst St., Montreal 24
Empire Cutlery Ltd.	333 Broadway St., Montreal East
Easty Limited	Bedford
Evans Rule Mfg. Co. Ltd.	5653 Paré St., Town of Mount Royal
Francana Ltée	7925 Danté St., Ville St-Michel
Fuller Tool Co. Ltd.	4480 Côte de Liesse Rd., Montreal 9
Furniss Clarke & Co. Limited	10713 Racette Blvd., Montreal North
G.R.S. Tool & Die Inc.	4230 Hogan St., Montreal
Garant Incorporated	St-François de Montmagny
Gauvreau & Fils Ltée	R.R. 2, Douville
Gillette of Canada Ltd.	5450 Côte de Liesse Rd., Town of Mount Royal
Girard Yvon	1950 Duvernay St., St-Hyacinthe
Glo-Hill Corp.	425 River St., Verdun
Gordy Tool & Die Works Ltd.	1865 Fortin Blvd., Chomedey
Gunjian Manufacturing Co.	5908 A Park Ave., Montreal
Hamelin Engraving Reg'd.	4591 Brébeuf St., Montreal
Ideal Builders Hardware Corp.	860-9th Ave., Lasalle
Jewel Bearings Ltd.	Ste-Foy
K & K Tool Limited	115 Duvernay St., St. Jean
Lacal Industries Ltd.	45 St. Joseph St., Lachne
La Compagnie Des Scies "Champion" Ltée	764, rue St-Vallier-Ouest, Québec
La Manufacture de Manches Bouvert & Cie Ltée	Grandes Piles
Le Page Brothers Company	1540 Craig St. E. Montreal 24
Les Produits Diamantés Pilon Ltée	Rouyn
London Steel Rule Die Company Ltd.	3555 Metropolitan Blvd, E., Montreal
Maple Leaf Cutlery Co. Ltd.	11341 Sherbrooke St. E, Montreal East
Maska Pulleys Enr.	Ste-Claire
Métallurgie St. Raymond Co. Ltd.	368, rue St-Gilbert, St-Marc-des-Carrières
Metal Rousseau Métal Inc.	St-Jean Port-Joli
Metal Works Ltd.	425 River St., Verdun, Montreal 19
Modern Tool & Machinery	1150 Rte. Marie Victorin, Longueuil
Montreal Die Works Ltd.	4215 Gascon Ave., Montreal 34
Montreal Hardware Mfg. Co. Limited, The	2567 Notre-Dame St. E., Montreal 24
Montreal Mould Makers Ltd.	896 Montée de Liesse, Montreal
Montreal Scale Works Reg'd.	1195 Church, St., Verdun
Montreal Stamping Tool & Dies Casting	10310 Pelletier St., Montreal North
North Star Engineering Products	2285 Ekers Ave., Montreal 26
Plourde, Philippe	Kénogami
Precision Steel Rule Dies Ltd.	7945-17th. Ave., St-Michel
Progressive Tool & Die Markers Reg'd.	9292 Meilleur St., Montreal
Proto Metal Specialties Ltd.	2525 Blanchard Ave., Montreal
Rapid Steel Rule Die	5973 Molson St., Montreal
Reliable Engraving Inc.	649 Notre-Dame St. West-Montreal 3
Richard, A. Ltée	Berthierville
Rivard, P.C. Enr.	4877-6th Ave., Rosemont, Montreal
Rose Dies Co. Ltd.	716 St.James St.W., Montreal
Sands of Canada (Div. of Harmon Machine (Canada) Ltd.)	7975-17th Ave., Ville St-Michel
Security Hardware Co.	2158 Montgomery St., Montreal 1
Service Technique Outillage Production	5710, rue Donahue Ville St-Laurent
Sharp Precision Tool & Die Co. Ltd.	980 St. Paul St. W., Montreal
Sign Erection Hardware Reg'd.	Cap-Santé
Simonds Canada Saw Co. Limited	Granby
Stanley Works of Canada Ltd., The	Roxton Pond
Swacan Saw Co.	8215 rue Pascal Gagnon, Montreal
Threepoint Products	6779 Waverly St., Montreal 8
Tool & Die Precision Works Ltd.	730 Notre-Dame W., Montreal
U.T.D. Corp. (Butterfield Div.)	Rock Island
Unique Sash Balance Co. Ltd.	7590-19 Ave., Ville St-Michel
United Cutting Dies Ltd.	Fort Chambly
United Metals & Plastics Co.	800-7e Ave., Pte-aux-Trembles
Universal Machine Tools Reg'd.	9240, rue Hochelaga, Montreal 5
Von Duprin Ltd.	903 Simard St., Chambly
Walters Axe Co. Ltd.	85 Front St., Hull
W. and W. Precision Machinery Co. Ltd.	745 St-Maurice, Montreal

Ontario:

A-1 Tool Die Ltd.	76 Sherry Rd., Scarborough
A and F Tool and Stampings	1790, Midland Ave., Scarborough
Acmetrack Ltd.	290 Carlingview Drive, Rexdale
Advance Metal Industries Ltd.	133 Dundas St., Kitchener
Advanced Wire Die Ltd.	614 First St., London
Amerock Ltd.	Meaford
Anchor Machine & Mfg. Ltd.	1200 Lakeshore Rd., Port Credit

List of Establishments classified to this Industry, 1965 - Continued

Name	Location
Ontario - Continued	
Animal Trap Co. of America	1781 Ellen Ave., Niagra Falls
Applied Engineering	51 Cranfield Rd., Toronto 16
Arrow Tool Die Mould Making & Stamping Mfg. Co.	27 Greenaway Ave., Hamilton
Arrow Tools Ltd.	1501 Crawford Ave., Windsor
Art Die Cutting Co.	135 Bentworth Ave., Toronto
Asco Mfg. Ltd.	109 Oakdale Rd., Downsview
Ashman Industries Limited	43 Glen Rd., Hamilton
Atlantic Tool & Mfg.	6534 Kingston Rd., West Hill
Atom (Admiral Tool Machinery) Corp. Ltd.	Mt. Pleasant
Aurora Tool & Mfg. Co. Ltd.	1030-8th Line, Oakville
B. of Boring Co. Ltd.	700 Wellington Ave., Windsor
Barker-Thorne Ltd.	120 Tycos Dr., Toronto 19
Barrie Tool & Die Co.	325 Tiffin St. Barrie
Beatty Machine & Tool Works Ltd.	103 Crockford Blvd., Scarborough
Bernzomatic Ltd.	36 Caledonia Rd., Toronto 10
Bilston Limited	121 Laird Dr., Leaside
Binder Tool & Mold Ltd.	2930 College St., Windsor
Bomba Diamond Tools	120-9 Barbados Blvd., Scarborough
Bond Engineering Works Limited	16 Munition St., Toronto 2
Bonmar Tool & Die Co.	26 Rutherford Rd., Brampton
Border Tool & Die Ltd.	2946 Walker Rd., Windsor
Bowman Machine & Tool Co.	210 Water St. S., Galt
Brampton Design & Mfg. Co.	32 Haggert Ave. N., Brampton
Brant Printcut Ltd.	86 Parliament St., Toronto
Brusco Tool & Die Co.	122 Manville Rd., Scarborough
Bryant Pattern & Mfg. Co. Ltd.	225 Eugenie St., Windsor
Brydon Brass Mfg. Co. Ltd.	Brydon Dr. & Rexdale Blvd., Rexdale
Budd Machine Tool Co. Ltd.	3064 Devon Rd., Windsor
Burgess Machine & Tool Ltd.	Wallaceburg
Burlington Metals & Plastics Co.	589 Cannon St. E., Hamilton
C.P. Tool & Die Co.	Woodbridge
Calahogie Metal Products	Calahogie
Canada Casters Limited	344 Dundas St., Woodstock
Canada Illinois Tools Limited	75 Scarsdale Rd., Don Mills
Canada Tool Co. (Galt) Ltd.	103 Queen St., Hespeler
Canadian Desmond-Stephen Mfg. Co.	252 Gibson Ave. N. (Rear), Hamilton
Canadian Drop Die Co. Ltd.	Leamington
Canadian Engineering & Tool Co. Ltd. (Plant 1)	2265 South Cameron Blvd., Windsor
Canadian Engineering & Tool Company Limited (Plant 2) ..	6th Line, Oakville
Canadian General Electric Co. Ltd.	1199 Landsdowne Ave., Toronto 4
Canadian Indexable Cutting Tools Ltd.	90 Oakdale Rd., Downsview
Canadian Landis Machine Co. Ltd.	Welland
Canadian Tap & Die Co. Ltd.	27 York Place, Galt
Canadian Warren-Pink Div. of Dominion Chain Co. Ltd.	Ontario & Carlton, St. Catharines
C. and T. Tool & Machine Co.	420 Chambers St., Peterborough
Canam Tools (Windsor) Ltd.	1603 Highland Ave., Windsor
Centerline (Windsor) Ltd.	2801 Howard Ave., Windsor
Champion Tool & Die Co.	130 Clark Side Rd., London
Chapal Engineering & Sales Co. Ltd.	25 Sawyer Rd., Hamilton
Chroy Steel Rule Dies	126 Sinnot Rd., Scarborough
Cochrane Tool & Design Ltd.	425 Midwest Rd., Scarborough
College Tool and Die	1571 Keele St., Toronto 9
Colonial Tool Company Div. of Ex-Cell-O Corp. of Canada Ltd.	1691 Walker Rd., Windsor
Consolidated Tool Ltd.	310 Hopkins St., Whitby
Coppick J.T., Industries Ltd.	34 Torlake Cres., Toronto
Crescent Tool & Die Ltd.	1951 Huron Line., Windsor
Crowdertrack Ltd.	Clarkson
Custom Diemakers Ltd.	447 Birchmount Rd., Scarborough
Custom Dies	49 Glen Rd., Hamilton
Dafew Stampings Ltd.	53 Hymus Rd., Scarborough
D. and D. Steel Rule Dies & Carton Co.	1122 Castlefield Ave., Toronto 10
Darnell Corp. of Canada Ltd.	7 Staffordshire Place, Toronto 14
Davies Canada Ltd., G.W.	95 Brown Line, Toronto
Delta Tooling & Mfg. Co. Ltd.	105 Kenhar Rd., Weston
Densmore Tool & Die Works Ltd.	2 Hiscott St., St. Catharines
Dependable Tool & Machine Parts	435 Midwest Rd., Scarborough
Dieco Mould & Tool Co.	108 McDougall St., Windsor
Dieomatic Metal Products Ltd.	385 Ohio Road, Richmond Hill
Diver, J.E. (Steel Rule Dies)	499 Hill St., London
Diwalt Industries Ltd.	100 Bridgeland Ave., Toronto
Do All Canada Ltd.	10 Meridian Rd., Rexdale
Dominion Twist Drill Limited	1880 Assumption St., Windsor
Don Reaume Ltd.	1505 Crawford Ave., Windsor
Dooley Mfg. Co. Ltd.	47 A Colville Rd., Toronto 15
Door-ware Limited	20 Estate Drive, Scarborough
Dreher, J. Estate	127 Moore St., Waterloo
E.G.M. Machine Products Ltd.	123 McCormack St., Toronto
E.T.F. Tools Limited	21 Woodburn Ave., St. Catharines
E.W. Tool and Die	389 A Davis Rd., Oakville
Eagle Precision Tool Ltd.	565 West St., Brantford
Economy Die Makers	56 Esplanade St. E., Toronto 1
Electromac Ltd.	4085 Ambassador Dr., Windsor
Emmons Tool & Die Co. Ltd.	19 Bertrand Ave., Scarborough
Etho Engraving	R.R. 6, Aylmer
Experimental Tool & Mfg. Co.	72 Colville Road, Toronto 15
Export Tool & Mfg. Co. Ltd.	21 Haas Rd., Rexdale
Extrusion Machine Co. Ltd.	67 Blake St., Toronto 6
F.B. Tool and Die Ltd.	237 North Vine St., St. Catharines
Falcon Tool & Die Co. Ltd.	3238 Marentette Rd., Windsor
F. and K. Mfg. Co.	302 Bridgeland Ave., Toronto 19
Faultless Casters Ltd.	163 King St., Stratford
Ferrum Metal Mfg. Co.	844 Caledonia Rd., Toronto

List of Establishments classified to this Industry, 1965 - Continued

Name	Location
Ontario - Continued:	
Firth Brown Tools (Canada) Ltd.	115 Dundas St., Galt
Firth-Stirling (Canada) Ltd.	435 Spalding Drive, Brantford
Fowler, J.H. Ltd.	2 Currah Rd., St. Thomas
Frank Tool & Die Co. Ltd., The	1439 Legion Rd., Burlington
Fraser Tool Engineering Co.	Galt
Furniture Hardware Ltd.	39 Edgar Ave., Weston
G and A Hardware Manufacturers Ltd.	190-7 Milvran Dr., Weston
Galt Knife Company Limited, The	99 State St., Galt
G and S Metals & Mfg. Agents	2770 Howard Ave., Windsor
General Productions Devices	40 Barbados Blvd., Scarboro
Glider Guard Mfg. Co. Ltd.	1151 Tecumseh Rd., W., Windsor
Globe Stamping Co. Ltd.	232 Madison Ave., Kitchener
Gray Forgings & Stamping Ltd.	710 St. Clarens Ave., Toronto 4
Grims by Custom Tooling Shop	345, Barton St., Stoney Creek
Guenther Industries	2130 Queensway Rd., Burlington
H. and S. Machine	34 Alice St., Brantford
H.S. Special Machines	44 Advance Rd., Toronto
Hagar Hinge Canada Ltd.	771 Wilson Ave., Kitchener
Hahn Brass Ltd.	New Hamburg
Hailman, J.C. Mfg. Co. Ltd.	80 Alpine Rd., Kitchener
Hamilton Mould Tool & Die Co.	5 Merchison Ave., Hamilton
Harmac Industries (Whitby) Ltd.	Whitby
Hay, Peter, Knife Co. Limited, The	43 Victoria Ave., Galt
Hel-Lo Tooling & Mfg. Ltd.	2032 Robin Dr., Clarkson
Hercules Tool & Die Limited	1695 Turner Rd., Windsor
Hi-Grade Die & Tool Ltd.	Weiland
Hilco Gauge Mfg. Co. Ltd.	38 Chauncey Ave., Toronto 18
Hollymade Hardware Mfg. Co.	77 Carling view Dr., Toronto
Horland Engineering Co.	399 Vancouver St., London
Ideal Mould Corp. Ltd.	674 E.C. Row Ave., Windsor
Impact Tool & Manufacturing Ltd.	42 Spalding Dr., Brantford
Imperial Tool & Die Ltd.	1335 Martingrove Rd., Rexdale
Independent Extrusion Die Co. Ltd.	39 Cosentino Dr., Scarborough
Index Machine & Tool (Windsor) Ltd.	3161 Lloyd George St. Windsor
Industrial Moulds Co.	1875 Leslie St., Don Mills
Industrial Tool, Div. of J.S. Davis Ltd.	Bloor St. W., Oshawa
International Engineering Co.	289 Sumach St., Toronto 2
International Hardware Co. of Can. (1963) Ltd.	180 Coleman St., Belleville
International Tool Limited	Sandwich Postal Station, Windsor
Irwin-Bender Tool Co. Ltd., The	3146 Lenworth Dr., Cooksville
J. & C. Tool & Die Ltd.	1197 Laurendeau St., Windsor
Jebco Industries	887 D'Arcy St. N., Cobourg
Jobbhorn Manufacturing Ltd.	11-17 Brock St., Hamilton
K.N.G. Engineering	499 Hill St., London
K. and A. Tool & Die Co.	315 Devonshire Rd., Windsor
Kardam Manufacturing	2536 Dougall Rd., Windsor
Kelter Mould and Die Ltd., J.	212 Superior St., Hamilton
Kennametal Tool & Mfg. Co. Ltd.	371 Sherman Ave., N., Hamilton
Kent Enterprises	41 Kenhar Drive, Weston
Kevro Crafts & Industries Ltd.	Bldg. No. 1, North 777 Warden Ave., Scarborough
Kincaid Machine & Tool Co.	1469 Crawford St., Windsor
Kincort Cutting Tools Ltd.	4 Kincort St., Toronto 15
Kirkhurst Industries Ltd.	1872 Mattawa Ave., Cooksville
Kot Tool & Die Co. Ltd.	29 Morley St., Hamilton
Krawczyk, L.	115 Melrose Ave., Kitchener
L.C.N. Closers of Canada Ltd.	Port Credit
Ladore & Co. Ltd.	354 Chilver Rd., Windsor
L. and B. Tool & Mfg. Ltd.	76 North Queen St., Toronto
Larsen & Shaw Limited	Walkerton
Law & Aderson Limited	3822 Sandwich St. W., Windsor
Leadercraft Ltd.	2091 Bufferin St., Toronto 10
Ledco Limited	161 Ottawa St. S., Kitchener
Len's Tool & Mould	108 McDougall Ave., Windsor
Lenco Welding Accessories Ltd.	1660 Durham Place Windsor
Lewis Tool & Die Ltd.	67 Wyndham St., Guelph
"Little Lakes" Machine & Tool Co.	R.R. 4, Stratford
Lufkin Rule Co. of Canada Ltd.	164 Innisfil St., Barrie
M. & B. Precision Products Ltd.	Petrie St., St. Catharines
Mallory Hardware Products Ltd.	Blenheim
Manger, W.H.	574 Pierre Ave., Windsor
Maple Leaf Mould, Tool & Die Co.	61 Sanford Ave. N., Hamilton
Maple Leaf Tool & Die Co.	40 Wellington Ave., Oshawa
Markham Tool & Stamping	Markham
Master Mechanical Design & Mfg. Ltd.	139 Wendell Ave., Weston
Master Steel Rule Dies	85 Jonesville Cr., Toronto 16
Matfar Tool and Die	19 Chauncey St., Toronto
McKinney Skillcraft Ltd.	1209 King St. W., Toronto 3
McPhail Tool & Die	Sombra
McPherson, David	73 Jarwick Dr., Scarborough
Metro Tool Co. Ltd.	4880 E.C. Row Ave., Windsor
Mozzik Tool & Dies Works-of-Canada Ltd.	21 Gregory Dr. W., Chatham
Modern Caster Co. Ltd.	Concord
Monarch Machine & Tool Co.	825 Tecumseh Rd. W., Windsor
Mooring Tool & Engineering	3 Frances St., Hamilton
National Cutlery Limited	29 Medulla Ave., Toronto 18
National Hardware Specialties Ltd.	Dresden
National Steel Rule Dies Ltd.	310 1/2 Crockett St., Hamilton
National Tool Distributors Ltd.	Preston
National Trading & Manufacturing Ltd.	338 Bering Ave., Toronto 18
Nex Era Tool & Die Work	149 Rivalda Rd., Weston
Nicholson File Co. of Canada Ltd.	Port Hope
Niekleson Tool & Die Co. Ltd.	203 Queen St. W., Hamilton

List of Establishments classified to this Industry, 1965 - Continued

Name	Location
Ontario - Continued:	
Nickleson Tool & Die Co. Ltd.	1562 Windsor Ave., Windsor
North American Silversmiths Ltd.	250 Emerson Ave., Toronto
Nova Dies & Metal Stampings	338 Bering Ave., Toronto 18
Omark Industries of Canada Ltd.	505 Edinburgh Rd. N., Guelph
Ontario Die Company, Ltd.	119 Roger St., Waterloo
Onward Hardware Ltd.	842 Victoria St. N., Kitchener
Ottawa Die & Cutting Industry	1384 Bank St., Ottawa
Paragon Tools Ltd.	4050 Malden Rd., Windsor
Peelco Engineering	1590 Dundas Hwy. E., Cooksville
Plymouth Tool & Stamping Ltd.	54 Crockford Blvd., Scarborough
Porter, H.K., Co. (Canada) Ltd. (Disston Division)	Acton
Power-Pak Products Canada Ltd.	5 Granger Ave., Scarborough
Precision Engraving Co. Ltd.	34 Densley Ave., Toronto
Precision Machine Co.	1620 Barton St. E., Hamilton
Prisma Tool & Die Co.	Currah Rd., St. Thomas
Pressed Steel Prod. Co.	2474 Central Ave., Windsor
Progress Precision Machinery & Tool Co.	128 Judge St., Toronto
Progressive Tools Ltd.	34 Densley Ave., Toronto
Proto Tools of Canada Ltd.	1764 Oxford St., London
Punch Craft Tools Ltd.	144 Skyway Ave., Rexdale
Quality Tool & Die Co. Ltd.	19 Jutland Rd., Toronto 18
RWD Tool Industries Ltd.	55A Wardlow Ave., Downsview
Ramset Fasteners	11-15 La Plante Ave., Toronto 2
Raytech Industries Ltd.	87 Kipling Ave. S., Toronto 18
Reed J.D. Machine Ltd.	120 Prince Charles Rd., Brantford
Regal Tap & Gauge Ltd.	24 Taber Rd., Rexdale
Rex Tool & Mould Ltd.	627 Tuscarora St., Windsor
Rice Tool & Die Ltd.	1439 Caroline St., Burlington
Richmond Hill Tool & Die	300 Enford Rd., Richmond Hill
Rixson of Canada Ltd.	43 Racine Rd., Rexdale
Romax Tool Co. Ltd.	40 Barbados Blvd., Scarborough
Rowika Industries Ltd.	Midland
Rulendo Mfg. & Equipment Ltd.	Barrie
Russell Tool & Die Ltd.	3 Industrial St. Chatham
Ruthard, E. Tools	R.R. 1, Gormley
Sabre Saw Chain (1963) Ltd.	618 Parkdale Ave. N., Hamilton
St. Clair Tool & Die Ltd.	Wallaceburg
Salco Corporation Ltd.	88-14th St., Toronto 14
Sands Tools Ltd.	265 Hughes Rd., Orillia
Sargent Hardware of Canada Ltd.	900 Water St., Peterborough
Schick Safety Razor Co.	149 Bartley Dr., Toronto 16
Schwebler Tool & Die	Preston
Seco Tool Co. Limited	90 Sherbourne St., Toronto 7
Semtec Ltd.	3500 Ontario St., Windsor
Service Machine & Tool	777 Caron St., Windsor
Shanfield Industries Limited	42 Parklawn Rd., Toronto 18
Shepherd Casters (Canada) Ltd.	91 Scarsdale Rd., Don Mills
Shurly-Dietrich-Atkins Company Limited	17 Glebe St., Galt
Sigma Tools Ltd.	251 Nantucket Blvd., Scarborough
Simpson, A. G., Co. Ltd.	733 Warden Ave., Scarborough
Skilcraft Steel Rule Dies Ltd.	22 Cranfield Rd., Toronto 16
Smith, C.C., Tool & Die Co.	425 Comstock Rd., Scarborough
Stanley Works of Canada Limited, The	65 Imperial St., Hamilton
Steel Master Tool Company Ltd.	Tecumseh Rd. East, Windsor
Stephan's Machine Shop	Tilbury
Stephen Tool & Die Ltd.	1015 Crawford Ave., Windsor
Superior Machine & Tool (Chatham) Ltd.	285 Inshes Ave., Chatham
Systematic Tool & Die Co. Ltd.	431 Carlingview Dr., Rexdale
T.S.M. Industries	2451 Dixie Rd., Cooksville
Taylor Die & Tool Mfg. Co. Ltd.	1111 Elias St., London
Taylor, J.A.M., Tool Co. Limited	145 Kipling Ave. S., Toronto 18
Techno Tool & Die Limited	729 Caron St., Windsor
Thack Mould & Mfg. Co. Ltd.	Quigley Rd., Hamilton
Tickins Industrial Products Ltd.	1066 Kipling Ave. N., Rexdale
Tober Tool & Machine Co.	49 Fina Cres., Toronto
Tools & Hardware Ltd.	112 Peter St. S., Orillia
Toronto Metal Specialties	80 Raleigh Ave., Scarborough
Toronto Mould Engineering Co.	40 Barbados Blvd., Scarborough
Toronto Tool & Stamping Co. Ltd.	1311 Queen St. E., Toronto 8
Trimatic Industries Ltd.	West Hill
Trisen Tool & Die Ltd.	2249 S. Cameron Blvd., Windsor
True Temper Canada Ltd.	Imperial St., Hamilton
True Temper Canada Ltd.	St. Catharines
Tru-Mold Ltd.	40 Brydon St., Rexdale
Turner Steel Rule Dies	777 Warden Ave., Scarboro
United Tool & Die	34 Chauncey Ave., Toronto 18
Universal Gravo-Plast Ltd.	9 Golden Gate Court, Scarborough
Universal Plastics	1659 Turner Rd., Windsor
Valliant Machine & Tool Co. Ltd.	7470 Tecumseh Rd., Windsor
Van Der Zwaag Moulds, Tools, Dies, R.	437 Albert St., Waterloo
Vandex Machine & Tool Co.	R.R. 3, London
Vanfore Ltd.	Arnold St., Wallaceburg
Vannatter, H.E., Ltd.	Wallaceburg
Vicom & Co. (Canada) Ltd.	Kingston
W.M. Tool Co.	572 Pierre Ave., Windsor
Wahl Clipper Corp. of Canada Ltd.	3967 Walker Rd., Windsor
Wallaceburg Engineering Co. Ltd.	Wallaceburg
Wallaceburg Tool & Mfg. Ltd.	Wallaceburg
Ward, Alfred, & Son Limited	44 Cathcart St., Hamilton
Waterloo Metal Stampings Ltd.	63 William St., Waterloo
Wehmeyer Machine & Tool Co.	322 Horner Ave., Toronto
Welker Industries Co. Ltd.	1 Adam St., Kitchener

List of Establishments classified to This Industry, 1963 - Concluded

Name	Location
Ontario - Concluded:	
Wentworth Mould & Die Co. Ltd.	99 Burton St., Hamilton
Werner Metal Products Ltd.	R.R. 1 Brantford
Wesson Cutting Tools Ltd.	6040 Indian Line, Malton
West Bend of Canada Ltd.	191 John St., Barrie
Weston Machine & Tool Limited	2121 Weston Rd., Weston
West Tool & Die Co.	1872 Mattawa Ave., Cooksville
Wheatley Manufacturing Ltd.	2590 Ouellette Ave., Windsor
White Eagle Tool & Die Co. Ltd.	2157 Huron Line, Windsor
Wickman, A.C. Ltd.	1425 The Queensway, Toronto 18
Wilkinson Sword (Canada) Ltd.	70 Dufflaw Ave., Toronto
Will-Tools Ltd.	2444-50 Haines Rd., Cooksville
Windsor Mold Ltd.	3236 Walker Rd., Windsor
Windsor Tool & Die, Div. of D & L Metals Ltd.	1680 Kildare Rd., Windsor
Wright Aluminum Co. Limited	95 Milvan Dr., Weston
Wright, Carl Edward Co.	142 Cross Ave., Oakville
Yale & Towne Inc.	Yale Crescent, St. Catharines
Zenith Tool & Die Ltd.	Georgetown
Zettel Manufacturing Ltd.	170 Borden Ave. S., Kitchener
Manitoba:	
Dyck, J.L. Mfg. Ltd.	455 Edisson Ave., North Kildonan
Kropp Tool & Die Ltd.	1096 Alexander Ave., Winnipeg 3
Pre Vue Company (Canada) Ltd.	1695 Sargent Ave., Winnipeg
Sigurdsons Ice Augers	Arnes
Universal Tool Grinding Co. Ltd.	719 Selkirk Ave., Winnipeg
Alberta:	
Barnard Tool & Die Works Ltd.	212-50th Ave. S.E., Calgary
Canada Bit Ltd.	15814-112 Ave., Edmonton
Micro Industries (Alberta) Ltd.	10348-70 Ave., Edmonton
"Midgit" Tool & Die Works Ltd.	7940 Coronet Rd., Edmonton
Space Tool & Specialty Works Ltd.	131-61 Ave. S.E., Calgary
Stamco Specialty Tool & Mfg. Co. Ltd.	10012-106 Ave., Edmonton
Tiger Torch Co.	Airdrie
British Columbia:	
Canadian Warren-Pink Ltd.	215 West 4th Ave., Vancouver 10
Dunn's Sharp Edge Service	112 Main St., Vancouver 4
Fried Industrial Research Ltd.	225 12th St., New Westminster
Granberg Industries Ltd.	5935 Hastings St., Vancouver
Hamadan Tool & Die Mfg. Ltd.	1675 Venables St., Vancouver 6
Kennametal of Canada Limited	759 Caledonia St., Victoria
L.G.M. Engineering Ltd.	65 East 3rd Ave., Vancouver
McLean Tool Manufacturing	2135 West 10th Ave., Vancouver 9
Porter, H.K. Co. (Canada) Ltd. (Diston Div.)	1100 W. 6th Ave., Vancouver
Richmond Engineering & Production Enterprise Ltd.	443 Vanguard Rd., Richmond
Robar Industries Ltd.	311 E. 6th Ave., Vancouver
Schlage Lock Co. of Canada Ltd.	1290 Marine Dr., North Vancouver
Shurly-Dietrich-Atkins Co. Ltd.	1642 Pandora St., Vancouver
Spear & Jackson (B.C.) Ltd.	6700 Rumble St., South Burnaby
Wahnrand Machine & Die Ltd.	4349 Dawson Ave., Burnaby
Weiser Lock Company of Canada Ltd.	7374 Hawthorne Ave., South 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.

(c) 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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