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HARDWARE, TOOL AND CUTLERY MANUFACTURERS

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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 22.7 per cent, the value of materials used by 25.7 per cent and the value of production increased by 21.3 per cent. The value of materials used represented 37.5 per cent of the value of production whereas in 1963 it represented 36 per cent of the value of production. Value added in products of own manufacture increased by 20 per cent and represented 62 per cent of the value of shipments of products of own manufacture.

The value of shipments of hardware tool and cutlery items as reported by the firms classified to this industry represented 80 per cent of the total value of shipments. Some of the non hardware items reported were aircraft parts, stampings, bathroom fixtures, electric organs, lift trucks, front-end loaders, electrical accessories and other machinery and parts.

It should be noted that there were 46 additional firms 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	Estab-lish-ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1961													
Totals	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	47,685	131,563	84,015	117	558	10,223	45,096	67,270
1963													
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	2	x	x	x	x	x	x	x	-	-	x	x	x
New Brunswick	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec	80	1,970	4,258	7,306	398	15,720	40,855	25,081	33	150	2,620	11,176	25,391
Ontario	243	6,023	13,348	25,773	1,297	37,550	102,048	65,544	69	375	7,849	37,052	68,490
Manitoba	5	42	84	145	9	274	643	365	x	x	52	192	371
Saskatchewan	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta	6	x	x	x	x	x	x	x	x	x	x	x	x
British Columbia	15	343	686	1,398	81	3,708	8,526	4,743	x	x	520	2,460	4,870
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
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

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	10	—	—	—	3	20	67	44	10	30	—	—	44
\$ 10,000 to \$ 24,999	38	36	72	115	15	214	662	447	32	136	49	162	454
25,000 " 49,999	57	177	355	607	40	721	2,130	1,415	40	234	218	770	1,419
50,000 " 99,999	50	324	656	1,210	61	1,070	3,565	2,479	23	135	406	1,592	2,499
100,000 " 199,999	64	731	1,531	2,829	151	3,191	9,336	6,186	2	12	931	3,959	6,304
200,000 " 499,999	62	1,358	2,909	5,461	264	7,340	20,335	13,059	—	—	1,750	7,807	13,555
500,000 " 999,999	34	1,576	3,574	6,704	300	8,541	23,754	15,390	—	—	2,016	9,611	16,176
1,000,000 " 4,999,999	36	4,232	9,391	17,912	958	36,322	92,856	57,172	—	—	5,742	27,256	59,183
5,000,000 and over													
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
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													
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	10,056	21,898	42,708	2,018	70,698	185,710	115,869	140	689	13,110	61,534	119,983

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	21	3	6	11	7	65	201	133	20	69	5	17	133
\$ 10,000 to \$ 24,999	56	96	192	307	27	566	1,502	929	45	208	124	405	941
25,000 " 49,999	53	227	454	808	56	992	2,790	1,804	35	224	280	1,044	1,832
50,000 " 99,999	66	608	1,241	2,223	122	2,772	7,470	4,722	7	46	772	3,093	4,803
100,000 " 199,999	58	921	1,953	3,578	190	5,518	13,908	8,409	—	—	1,225	5,283	8,755
200,000 " 499,999	52	1,735	3,773	6,983	309	9,943	27,012	17,231	—	—	2,244	10,225	18,208
500,000 " 999,999	25	1,721	3,847	7,102	388	11,753	29,532	17,756	—	—	2,171	10,179	18,283
1,000,000 " 4,999,999	20	3,123	7,023	13,825	693	25,808	70,289	45,209	—	—	4,291	20,912	46,681
5,000,000 and over													
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
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													
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

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	21	3	6	11	7	65	201	133	20	69	5	17	133
\$ 10,000 to \$ 24,999	55	93	186	298	26	563	1,481	912	45	208	119	387	916
25,000 " 49,999	54	228	456	812	58	947	2,775	1,830	35	224	283	1,054	1,847
50,000 " 99,999	63	583	1,187	2,104	118	2,701	7,105	4,423	7	46	737	2,914	4,466
100,000 " 199,999	59	938	1,988	3,675	192	5,437	13,872	8,459	—	—	1,192	5,186	8,539
200,000 " 499,999	51	1,672	3,670	6,690	269	10,565	26,905	16,157	—	—	2,152	9,636	16,693
500,000 " 999,999	26	1,643	3,659	6,702	375	10,439	27,340	17,214	—	—	2,098	9,704	18,027
1,000,000 " 4,999,999	22	3,274	7,337	14,545	748	26,702	73,024	47,065 ^f	—	—	4,526	22,260	49,012
5,000,000 and over													
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
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													
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	2,003	4,380	6,291	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

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	86	117	234	395	48	839	2,288	1,446	74	351	148	524	1,451
5- 14 employed	111	735	1,506	2,788	158	4,831	11,968	7,107	32	192	973	4,072	7,237
15- 49 "	93	1,885	4,026	7,590	361	9,672	28,262	18,633	1	4	2,447	10,976	19,290
50- 99 "	35	2,021	4,527	8,147	427	12,721	31,599	19,019	—	—	2,524	11,494	19,805
100-199 "	16	1,587	3,431	6,964	373	14,973	33,600	19,184	—	—	2,232	10,842	20,362
200-499 "	10	2,089	4,763	8,953	425	14,382	44,987	30,805	—	—	2,788	13,250	31,490
500 employed and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
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													
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

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	60	138	275	483	38	635	1,813	1,159	60	307	141	491	1,159
Partnerships	24	57	115	223	21	304	962	658	47	240	61	235	657
Incorporated companies	267	8,239	18,097	34,131	1,733	56,480	149,929	94,376	...	...	10,910	50,431	97,818
Co-operatives .....	—	—	—	—	—	—	—	—	...	...	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
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													
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	81,534	119,983

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	152,705	185,710	17,633	21,577	170,338	207,287
Inventories—Goods of own manufacture:						
Add closing—Goods in process	10,786	12,872	...	...	10,786	12,872
Finished goods	11,800	12,748	...	...	11,800	12,748
Deduct opening—Goods in process	8,909	11,496	...	...	8,909	11,496
Finished goods	10,977	11,248	...	...	10,977	11,248
2. Net inventory change	2,700	2,876	...	...	2,700	2,876
3. Gross output (1 + 2)	155,405	188,586	17,633	21,577	173,038	210,163
Input						
4. Purchases of goods not of own manufacture .....	...	...	13,893	16,942	13,893	16,942
Inventories—Goods not of own manufacture:						
Add opening .....	...	...	2,481	2,923	2,481	2,923
Deduct closing .....	...	...	2,897	3,348	2,897	3,348
5. Cost of goods sold (not of own manufacture) .....	...	...	13,477	16,517	13,477	16,517
6. Materials, supplies, etc.	57,418	70,698	715	947	58,133	71,645
7. Fuel and electricity	1,792	2,018	...	...	1,792	2,018
8. Gross input (5 + 6 + 7)	59,210	72,716	14,192	17,464	73,402	90,180
Value added (3 - 8)	96,193	115,869	3,441	4,114	99,634	119,983

TABLE 8. Employment and Payroll, 1963 and 1964

Year and province	Employees										Salaries and wages				
	Production and related workers				Administrative and office		Sales and distribution		Total		Production and related workers		Administrative and office	Sales and distribution	Total
	Manufacturing		Other												
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Manufacturing	Other			
number										\$'000					
1963															
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	x	x	—	—	x	x	x	x	x	x	x	—	x	x	x
New Brunswick	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Quebec	1,575	395	—	—	273	138	196	43	2,044	575	7,306	—	2,328	1,542	11,176
Ontario	5,168	855	8	—	886	506	341	85	6,403	1,446	25,773	33	8,599	2,648	37,052
Manitoba	40	2	—	—	5	3	1	1	46	6	145	—	39	8	192
Saskatchewan	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Alberta	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
British Columbia	261	62	6	5	76	40	45	5	388	132	1,396	45	658	359	2,460
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	7,100	1,334	14	5	1,250	692	583	134	8,947	2,165	34,837	78	11,686	4,556	51,157
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 Territories	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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

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	5,756	1,143	6,578	1,375
February	5,778	1,168	6,745	1,457
March	5,863	1,222	6,852	1,505
April	5,936	1,224	6,927	1,550
May	5,991	1,213	7,074	1,574
June	6,130	1,259	7,221	1,642
July	6,204	1,284	7,139	1,601
August	6,156	1,327	7,173	1,622
September	6,188	1,314	6,980	1,614
October	6,154	1,342	7,204	1,610
November	8,248	1,307	7,141	1,637
December	6,185	1,293	7,113	1,617
Averages	6,037	1,256	7,018	1,571
Establishments reporting annual averages (small establishments only)	1,063	78	1,393	74
Average for all establishments	7,100	1,334	8,411	1,645

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	x	x	x	x	—	x
New Brunswick	—	—	—	—	—	—
Quebec	4,098	1,943	3,737	9,779	500	10,279
Ontario	6,239	8,820	6,971	22,030	2,207	24,237
Manitoba	105	21	58	184	—	184
Saskatchewan	—	—	—	—	—	—
Alberta	x	x	x	x	—	x
British Columbia	1,220	699	450	2,369	216	2,584
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	11,695	11,496	11,248	34,440	2,923	37,363
Closing:						
Newfoundland	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	x	x	x	x	—	x
New Brunswick	—	—	—	—	—	—
Quebec	4,858	2,181	3,910	10,948	656	11,605
Ontario	7,933	10,021	8,151	26,105	2,541	28,646
Manitoba	157	26	42	225	—	225
Saskatchewan	—	—	—	—	—	—
Alberta	x	x	x	x	—	x
British Columbia	1,453	630	602	2,685	150	2,835
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	14,469	12,872	12,748	40,089	3,348	43,437

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	1,892	2,126	26
(b) Imported	"	4,538	3,227	50
Sub-bituminous coal (from Alberta mines only)	"	—	—	—
Anthracite coal	"	532	302	6
Lignite coal	"	—	—	—
Coke	"	5	—	—
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	296,999	362,286	148
Fuel oil including kerosene or coal oil	"	2,060,174	2,128,345	279
Wood	cord	—	—	—
Gas:				
(a) Liquefied petroleum gases	Imp. gal.	65,840	78,046	23
(b) Other manufactured gas	M cu. ft.	726	—	—
(c) Natural gas	"	270,436	381,652	361
Other fuel .....	...	3	...	4
Electricity purchased	kwh.	60,542,834	67,718,554	857
Steam purchased .....	...	15	...	15
2. Small establishments not reporting commodity detail:				
Estimate for fuel and electricity .....	...	218	...	249
3. All establishments:				
Total fuel and electricity used .....	...	1,792	...	2,018

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

Description		1963		1964	
		Quantity	Cost	Quantity	Cost
			\$'000		\$'000
1. Materials used:					
Iron and steel:					
Castings:					
Iron (gray and malleable)	ton	930	419	865	427
Steel	"	1,656	486	1,673	312
Pig iron	"	122	12	127	9
Bars and rods	"	11,961	1,745	13,092	1,962
Plates	"	5,701	916	3,331	609
Sheets:					
Plain	"	12,683	1,838	21,549	3,096
Galvanized	"	711	113	1,712	270
Tin plate	"	166	38	236	51
Strip	"	10,377	2,883	11,407	2,990
Structural shapes	"	295	69	387	95
Wire	"	1,285	292	1,551	354
Alloy steel:					
Stainless:					
Billets, bars and rods .....		...	130	...	256
Other stainless .....		...	484	...	2,322
Other alloy and tool steel (including carbon, alloy and highspeed steels):					
Billets, bars and rods .....		...	4,102	...	5,106
Other .....		...	1,690	...	2,289
Scrap iron and steel:					
Purchased	ton	-	-	5	-
Own make	"	836	...	-	...
All other iron and steel .....		...	2,249	...	2,357
Non-ferrous metals:					
Aluminum:					
Castings	lb.	101,612	52	369,657	81
Sheet	"	524,779	228	546,416	245
Other	"	1,672,732	806	2,841,994	1,301
Bronze and brass	"	3,054,254	1,261	2,434,621	1,161
Copper:					
Sheet	"	30,636	18	4,500	2
Wire	"	9,220	5	11,800	6
Other forms	"	40,645	26	38,387	23
Lead	"	16,577	2	16,085	3
Nickel	"	59,823	52	57,763	36
Tin	"	1,404	1	1,150	1
Zinc	"	3,398,758	595	3,853,624	613
Other non-ferrous .....		...	80	...	199
Other materials:					
Handles .....		...	633	...	831
Paints, oils and varnishes .....		...	122	...	157
Lumber	M ft. b.m.	704	73	1,055	106
All other materials and components used ¹ .....		...	26,673	...	33,226
2. Containers and other packaging materials and supplies used .....		...	2,076	...	2,507
3. Operating, maintenance and repair supplies used (excluding fuel) .....		...	3,301	...	4,149
4. Amount paid out to others for work done on materials owned by establishments .....		...	3,948	...	3,545
Totals .....		...	57,418	...	70,698

¹ No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$4,642,162 in 1963 and \$6,086,808 in 1964.

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

Description	1963		1964	
	Quantity	Value	Quantity	Value
		\$'000		\$'000
1. Products:				
Safety razors and blades, steel table cutlery, scissors, army knives etc. ....	...	10, 215	...	11, 891
Hardware:				
Automobile .....	...	3, 721	...	3, 376
Builders' and shelf .....	...	24, 260	...	27, 443
Furniture and cabinet .....	...	6, 839	...	8, 317
Trunk and suitcase .....	...	382	...	346
Other hardware .....	...	8, 727	...	10, 379
Hand implements:				
Axes and hatchets	No. 281, 999	697	¹	¹
Canthooks, peavies and pikepoles	94, 883	334	104, 306	339
Spades, shovels and scoops	1, 227, 007	2, 527	1, 136, 468	2, 564
Other hand implements .....	...	2, 180	...	3, 557
Tungsten carbide products:				
Tools, including masonry drills .....	...	2, 027	...	2, 522
Dies .....	...	931	...	1, 031
Other products (tips or blanks and rock drill bits) .....	...	2, 613	...	3, 414
Tools, hand and small:				
Automotive tools (hand and power-driven) .....	...	1, 548	...	1, 562
Carpenters' and mechanics', including files .....	...	10, 295	...	11, 245
Jigs and fixtures .....	...	2, 681	...	3, 378
Machine knives .....	...	2, 129	...	2, 287
Drills, taps, bits, reamers, punches and threading dies (including screw plates) .....	...	4, 160	...	5, 417
Milling cutters .....	...	986	...	1, 103
Other tools .....	...	3, 072	...	3, 742
Miscellaneous:				
Bolts, nuts, rivets, washers, screws and allied products .....	...	1, 505	...	1, 761
Castors, other than glass .....	...	1, 105	...	1, 181
Dies for drawing, cutting or stamping .....	...	17, 229	...	22, 400
Saws, metal-cutting, including circular, band and hacksaw blades (hand and power) .....	...	2, 897	...	3, 423
Saws, wood-cutting, and parts .....	...	8, 722	...	11, 000
Received from custom and repair work .....	...	613	...	2, 140
All other products .....	...	28, 694	...	38, 082
2. Amount received in payment for work done on materials and products owned by others .....	...	2, 091	...	702
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above .....	...	( 475)	...	(462)
Net adjustment for establishments receiving progress payments .....	...	-	...	-
Total adjusted value of shipments and work done .....	...	152, 705	...	185, 710

¹ Confidential, included with "other hand implements."

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, 1963 and 1964

	Value	
	1963	1964
Builders' and shelf	26, 231	29, 849
Marine and rigging	1, 441	1, 459
Pole line (except insulators)	12, 642	13, 828
Automobile	16, 072	19, 522
Furniture and cabinet	6, 863	8, 896
Trunk and suitcase	382	346
Other	11, 700	11, 758
Totals	75, 331	85, 658

TABLE 14. Shipments of Selected Goods of Own Manufacture - All Industries - Continued
B. Wood-cutting Saws, 1963 and 1964

	Value	
	1963	1964
	\$'000	
Power saws:		
Circular (blades only)	1,669	2,238
Band (blades only)	820	1,145
Drag and gang (blades only)	1	1
Crosscut saws	163	211
Web saws	1	1
Hand-saws	654	1,472
Parts for above, including saw-teeth	1,463	2,981
Totals	4,769	7,247

C. Power Chain Saws and Parts, 1961 - 64

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

D. Axes and Hatchets, 1955 - 64

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

E. Spades and Shovels, 1955 - 64

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

See footnote at end of table.

TABLE 14. Shipments of Selected Goods of Own Manufacture - All Industries - Concluded
F. Forks, Rakes, Hoes and Peavies, 1955-64

Year	Forks		Rakes		Hoes		Peavies, canthooks and pike poles
	Number	Value	Number	Value	Number	Value	
	'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 .....	..	..	..	..	..	..	..

G. Small tools,² 1963 and 1964

	Value	
	1963	1964
	\$'000	
Carpenters' and mechanics', including files	10,127	12,892
Machine knives	2,129	2,287
Drills, taps, bits, reamers, punches, and threading dies (including screw-plates)	4,160	5,513
Milling cutters	986	1,103
Gauges (plug, ring, snap, thread, etc.)	170	243
Other tools, jigs and fixtures	13,779	16,114
Totals	31,351	38,152

H. Miscellaneous Steel Cutlery,³ 1955-64

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

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

² Does not include pneumatic or electric tools.

³ 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, 1964

(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 Uniache
Quebec:	
Abaco Productions Tool & Die Making	3905 Industrial Blvd., Montreal North
Aéro Mécanique Ltée	1 Dery Ave., Quebec 5
Almet Findings Limited	433 St Martin, Montreal 3
Alpha Tool Corporation	4701 Rivard St., Montreal 34
Boisvert, J.R. & Cie Ltée	Grandes Piles
Brassard, N.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
Canadian Die-Cutters Co. Reg'd.	2143 St. Patrick, Montreal
Canadian Tool Engr. Co.	10320 Pelletier St., Montreal 39
Canadian Wire, Die Works Ltd.	2825 Jacques Hertel St., Montreal 20

List of Establishments classified to this Industry, 1964 - Continued

Name	Location
Quebec - Concluded:	
Canuel, Onézime	St. Ulric, Co. Matame
Capitol Industries Ltd.	5680 Fullum St., Montreal
City Steel Rule Dies	9103 Iberville St., St-Michel
Colonial Tool & Dies Reg'd	7990 151 ^{ère} Avenue, St-Michel
Cosmos Cutting Dies Inc.	2180 L'Espérance, Montreal 24
Denman Engraving Reg'd	360 Recollet St., Montréal
Diacun 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
Drummond Die & Stamping Reg'd	Drummondville
Dube Metal Works	5828 St. André, Montreal
Dumco Metal Products Co. Ltd.	10780 St Hubert, Montreal
Eastern Cutting Die Co.	20 Lagauchetière E., Montreal
Economy Steel Rule Dies Ltd.	957 Amherst St., Montreal 24
Empire Cutlery Ltd.	333 Broadway St., Montreal East
Esty 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 Côté de Liesse Rd., Montreal 9
Furniss Clarke & Co. Limited	10713 Racette Blvd., Montreal North
G.R.S. Tool & Die Inc.	4230 Hogan St., Montreal
Gauvreau & Fils Ltée	R.R. 2, Douville
Gillette of Canada Ltd.	5450 Côte de Liesse Rd., Town of Mount Royal
Girard Yvon	1950 Duveray, St-Hyacinthe
Glo-Hill Corp.	425 River St., Verdun
Gordy Tool & Die Works Ltd.	1865 Fortin Blvd., Chomedey
Quérin Tool & Die	150 Boul. Taschereau, Laprairie
Hamelin Engraving Reg'd	4591 Brébeuf St., Montreal
Ideal Builders Hardware Corp.	860 - 9th Ave., Lasalle
Industrial Tools & Die Makers Reg'd	5415 Boul. Industriel, Montreal-Nord
Jewel Bearings Ltd.	Ste-Foy
K & K Tool Limited	115 Duvernay St., St. Johns
Lasal Industries Ltd.	45 St. Joseph St., Lachine
La Cie A. Garant & Fils Ltée	St-Francois-de-Montmagny
La Compagnie Des Scies "Champion" Ltée	764 St. Vallier Ouest, Quebec
La Manufacture de Machines Bouvert & Cie Ltée	Grandes Piles
La Page Brothers Company	1540 Craig St., East, Montreal 24
Les Produits Diamantes Pilon Ltée	Rouyn
Les Scies Mercier Limited	Levis
London Steel Rule Die Company Ltd.	3555 Metropolitan Blvd. E., Montreal
Maple Leaf Cutlery Co. Ltd.	11341 Sherbrooke St., East, Montreal East
Maska Pulleys Engr.	Ste. Claire
Métallurgie St. Raymond Co. Ltd.	350 St. Hubert, St. Raymond
Metal Rousseau Métal Inc.	L'Islet
Metal Works Ltd.	425 River St., Verdun, Montreal 19
Montreal Die Works Ltd.	4215 Gascon Ave., Montreal 34
Montreal Hardware Mfg. Co. Limited, The	2567 Notre-Dame St. E., Montreal 24
Montreal Stamping Tool & Dies Casting	10310 Pelletier, Montreal North
North Star Engineering Products	2285 Ekers Ave., Montreal 26
Plourde, Philippe	Kénogami
Precision Steel Rule Dies Ltd.	7945 - 17th. Ave., St.Michel
Preci-Tools Ltd.	4000 Courtrai, Montreal
Protol Inc.	1651 St-Just, Montreal
Proto Metal Specialities Ltd.	2525 Blanchard Ave., Montreal
Provincial Production Die Inc.	1644 Belvedere St., Sherbrooke
Rapid Bit Co.	5236 Angers St., Montreal 20
Reliable Engraving Inc.	649 Notre-Dame St. West-Montreal 3
Richard, A. Ltée	Berthierville
Rivard, F.C. Engr.	4877 - 6th Ave., Rosemont, Montreal
Security Hardware Co.	2158 Montgomery St., Montreal 1
Service Technique Outillage Production	1575 Montée De Liesse, 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
Rose Dies Co. Ltd.	716 St. James W., Montreal
Threepoint Products	6779 Waverly St., Montreal 8
Tool & Die Precision Works Ltd.	730 Notre-Dame W., Montreal
U.T.D. Corp.	Rock Island
Unique Sash Balance Co. Ltd.	7590 - 19th Ave., Ville St-Michel
United Cutting Dies Ltd.	Fort Chambly
United Metals & Plastics Co.	5710 Jarry E., St-Léonard
Universal Machine Tools Reg'd	9240 rue Hochelaga, Montreal 5
Walters Axe Co. Ltd.	85 Front St., Hull
W. and W. Precision Machinery Co. Ltd.	745 St. Maurice, Montreal
Westra Ltd.	Pointe Des Cascades
Ontario:	
A-1 Tool Die Ltd.	76 Sherry Rd., Scarborough
Acmetrack Ltd.	1208 Kenforth Dr., Rexdale
Advance Metal Industries Ltd.	133 Dundas St., Kitchener
Advanced Wire Die Ltd.	71 Carling St., London
Amerock Ltd.	Meaford
Anchor Machine & Mfg. Ltd.	Port Credit
A. and F. Tool and Stampings	1790 Midland Ave., Scarborough
Animal Trap Co. of America	1781 Ellen Ave., Niagara Falls
Applied Engineering	51 Cranfield Rd., Toronto 16
Arrow Tools Ltd.	1501 Crawford Ave., Windsor

List of Establishments classified to This Industry, 1964 - Continued

Name	Location
Ontario - Continued:	
Art Die Cutting Co.	43 Denseley Ave., Toronto 15
Asco Mfg. Ltd.	50-52 Metcalfe St., Toronto 5
Ashman Industries Limited	43 Glen Rd., Hamilton
Atlantic Tool & Mfg.	West Hill
Atom (Admiral Tool Machinery) Corp. Ltd.	Mt. Pleasant
Aurora Tool & Mfg. Co. Ltd.	Newmarket
Barker-Thorne Ltd.	120 Tycos Dr., Toronto 19
Barrie Tool & Die Co.	R.R. 2, Barrie
Bartell Industries	219 Taryark Dr., Weston
Bathurst Tool & Machinery Ltd.	27 Bathurst St., Toronto 2B
Beatty Machine & Tool Works Ltd.	103 Crockford Blvd., Scarborough
Bernzomatic Ltd.	36 Caledonia Rd., Toronto 10
Bilston Limited	121 Laird Dr., Leaside, Toronto 17
Binder Tool & Mold Ltd.	2930 College St., Windsor
Bomba Diamond Tools	McCaw St., Agincourt
Bond Engineering Works Limited	16 Munition St., Toronto 2
Bonman 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
Brenco Machine & Tool Co. Ltd.	38 Elgin St., Brantford
Brussco Tool & Die Co.	188 Hymis Rd., Scarborough
Bryant Pattern & Mfg. Co. Ltd.	Sandwich W. Township
Brydon Brass Mfg. Co. Ltd.	Brydon Dr. & Rexdale Blvd., Rexdale
Budd Machine - Tool Co. Ltd.	825 Tecumseh Blvd., Windsor
Burgess Machine & Tool	Wallaceburg
Burlington Metals & Plastics Co.	589 Cannon St. E., Hamilton
C.P. Tool & Die Co.	Woodbridge
Calabogie Metal Products	Calabogie
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
Canada Drop Die Co.	Leamington
Canadian Engineering & Tool Co. Ltd. (Plant 1)	920 Mercer St., Windsor
Canadian Engineering & Tool Company Limited (Plant 2)	920 Mercer St., Windsor
Canadian General Electric Co. Ltd.	1199 Landsdowne Ave., Toronto 4
Canadian Landis Machine Co. Ltd.	Welland
Canadian Tap & Die Co., Ltd.	27 York Place, Galt
Canadian Warren-Pink Limited	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
Centric Tool & Machine Products	37 McMurrick St., Toronto
Champion Tool & Die Co.	130 Clark Side Rd., London
Chapat Engineering & Sales Co. Ltd.	25 Sawyer Rd., Hamilton
Chroy Steel Rule Dies	126 Slnnot Rd., Scarborough
Cochrane Tool & Design Ltd.	425 Midwest Rd., Scarborough
College Tool and Die	1571 Keele St., Toronto 9
Colonial Tool Company	1691 Walker Rd., Windsor
Coppick J.T., Industries Ltd.	34 Tarlake Cres., Toronto
Crescent Tool & Die Ltd.	4031 Huron Line., Sandwich W. Twnp.
Crowdertrack Ltd.	Clarkson
Custom Diemakers Ltd.	380 Dawes Road, Toronto 16
Custom Dies	49 Glen Rd., Hamilton
Dafew Mfg. Ltd.	85 Northline Rd., Toronto 16
D. and D. Steel Rule Dies & Carton Co.	1122 Castlefield Ave., Toronto 10
Darnell Corp. of Canada Ltd.	7 Staffordshire Place, Toronto 14
Delta Tooling & Mfg. Co.	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
Dleomatic Metal Products Ltd.	Ohio Road, Richmond Hill
Diver, J.E. (Steel Rule Dies)	499 Hill St., London
Diwatt Industries Ltd.	100 Bridgeland Ave., Toronto
Do All of Canada Ltd.	10 Meridian Rd., Rexdale
Dominion Brass Products Ltd.	65 Sautler St., Toronto 8
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
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
Eagle Precision Tool Ltd.	565 West St., Brantford
Economy Die Makers	56 Esplanade St. E. Toronto 1
Eddy Match Co. Ltd.	300 Merrit Ave., Chatham
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
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. Tool & Die Mfg. Co.	302 Bridgeland Ave., Toronto 19
Faultless Casters Ltd.	163 King St., Stratford
Ferrum Metal Mfg. Co.	844 Caledonia Rd., Toronto
Firth Brown Tools (Canada) Ltd.	115 Dundas St., Galt
Firth-Stirling (Canada) Ltd.	Brantford
Flint Mfg. & Sales Ltd.	399 Kennedy Rd., Scarborough

List of Establishments classified to This Industry, 1964 - Continued

Name	Location
Ontario - Continued:	
For-Mac Hardware Mfg. Co.	105 McMaster Ave., Ajax
Fowler, J.H. Ltd.	2 Curron Rd., St. Thomas
Frank Tool & Die Co. Ltd., The	Graham's Lane, Burlington
Fraser Tool Engineering Co.	Galt
Furniture Hardware Ltd.	39 Edgar Ave., 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., Scarborough
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
Guenther Industries	2130 Queensway Rd., Burlington
H.S. Special Machines	44 Advance Rd., Toronto
H.V.R. Metalcrafts Ltd.	42 Spalding Dr., Brantford
Hahn Brass Ltd.	New Hamburg
Hallman, J.C. Mfg. Co. Ltd.	80 Alpine Rd. Kitchener
Hamac Industries (Whitby) Ltd.	Whitby
Hamilton Mould Tool & Die Co.	410 Birch Ave., Hamilton
H. and S. Machine	34 Alice St., Brantford
Harth Tool & Die	Moore Ave., Galt
Hay, Peter, Knife Co. Limited, The	43 Victoria Ave., Galt
Hercules Tool & Die Limited	1695 Turner Rd., Windsor
Hi-Grade Die & Tool Ltd.	Welland
Hilco Gauge Mfg. Co. Ltd.	38 Chauncey Ave., Toronto 18
Hollymade Hardware Mfg. Co.	P.O. Box 160, Etobicoke
Horland Engineering Co.	399 Vancouver St., London
Ideal Mould Corp. Ltd.	674 E.C. Row Ave., Windsor
Imperial Tool & Die Ltd.	1335 Martingrove Rd., Rexdale
Independent Extrusion Die Co. Ltd.	39 Consentino Dr., Scarborough
Index Machine & Tool	2536 Dougall Ave., Windsor
Industrial Moulds Co.	1875 Leslie St., Don Mills
Industrial Tool	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	P.O. Box 68, Sandwich Postal Station, Windsor
Irwins-Bender Tool Co. Ltd., The	30 Chauncey Ave., Toronto
J. & C. Tool & Die Ltd.	1197 Laurendeau St., Windsor
Jaborn Manufacturing Ltd.	11-17 Brock St., Hamilton
K.N.G. Engineering	499 Hull St., London
K. and A. Tool & Die Co.	315 Devonshire Rd., Windsor
Kannametal Tool & Manufacturing Co. Ltd.	P.O. Box 125, Stn. B, Hamilton
Kayro Crafts & Industries Ltd.	Bldg. No. 1, North 777 Warden Ave., Scarborough
Kincaid Machine & Tool Co.	1469 Crawford, Windsor
Kinco Cutting Tools Ltd.	4 Kincort St., Toronto 15
Kirkhurst Industries Ltd.	2528 Wharton Glen Road, 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.	Walkerville
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 Dufferin St., Toronto 10
Leaside Tool & Die Ltd.	838 Eglinton Ave. E., Toronto 17
Ledco Limited	161 Ottawa St. S., Kitchener
Lenco Welding Accessories Ltd.	1660 Durham St., 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
Maple Leaf Tool & Die Co.	40 Wellington Ave., Oshawa
Markham Tool & Stamping	Markham
Master Machine & Tool (Elmvale) Ltd.	William St., Elmvale
Master Mechanical Design & Mfg. Ltd.	139 Wendell Ave., Weston
Master Steel Rule Dies	85 Jonesville Cr., Toronto 16
McKinnery Skillcraft Ltd.	1209 King St. W., Toronto 3
McPhail Tool & Die	Sombra
McPherson, David	73 Jarwick Dr., Scarborough
Metro Tool Co. Ltd.	3873 Walker Rd., Windsor
Moczlik Tool & Dies Works-of-Canada Ltd.	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.	310½ Crockett St., Hamilton
National Tool Distributors Ltd.	Preston
National Trading & Manufacturing Ltd.	338 Bering Ave., Toronto 18
Nicholson File Co. of Canada Ltd.	Port Hope
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
Omak Industries of Canada Ltd.	505 Edinburgh Rd. N., Guelph
Ontario Die Company, Ltd.	119 Roger St., Waterloo
Ontario Machine & Tool Works, Ltd.	432 Monarch Ave., Ajax
Ontario Mould & Die Co.	212 Superior St., Hamilton
Ottawa Die & Cutting Industry	1384 Bank St., Ottawa
Paragon Tools Ltd.	4050 Maiden Rd., Windsor

List of Establishments classified to This Industry, 1964 - Continued

Name	Location
Ontario - Concluded:	
Pielco Engineering.....	1590 Dundas Hwy. E., Cooksville
Plymouth Tool & Stamping Ltd.....	54 Crockford Blvd., Scarborough
Porter, H.K., Co. (Canada) Ltd. (Disston Division).....	Acton
Precision Engraving Co. Ltd.....	34 Densley Ave., Toronto
Precision Machine Co.....	1620 Barton St. E., Hamilton
Prisma Tool & Die Co.....	Box 14, St. Thomas
Pressed Steel Prod. Co.....	2474 Central Ave., Windsor
Progress Precision Machinery & Tool Co.....	12 Judge St., Toronto
Proto Tools of Canada Ltd.....	3595 Terminal A, London
Punch Craft Tools Ltd.....	144 Skyway Ave., Rexdale
Quality Tool & Die Co. Ltd.....	19 Jutland Rd., Toronto 18
Ramset Fasteners.....	11-15 La Plante Ave., Toronto 2
Raytech Industries Ltd.....	87 Kipling Ave. S., Toronto 18
Reid, J.D. Machine Ltd.....	120 Prince Charles Rd., Brantford
Rice Tool & Die Ltd.....	1439 Caroline St., Burlington
Rixson of Canada Ltd.....	43 Racine Rd., Rexdale
Romax Tool Co. Ltd.....	40 Barbados Blvd., Scarborough
Russell Tool & Die Ltd.....	Chatham
Ruthard, E.....	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.....	35 Carlaw Ave., Toronto 8
Sargent Hardware of Canada Ltd.....	Box 328, Peterborough
Schick Safety Razor Co.....	149 Bartley Dr., Toronto 16
Schwebler Tool & Die.....	Preston
Seco Tool Co. Limited.....	90 Sherbourne St., Toronto 2
Semtec Ltd.....	3500 Ontario St., Windsor
Shanfield Industries Limited.....	42 Parklawn Rd., Toronto 18
Shepherd Casters (Canada) Ltd.....	41 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.....	77 Lillian Dr., 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.....	Chatham
Systematic Tool & Die Co. Ltd.....	1345 Renforth 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.....	385 Salter Ave., Windsor
Thack Mould & Mfg. Co. Ltd.....	Quigley Rd., Hamilton
Tickins Industrial Products Ltd.....	1062 Kipling Ave. N., Rexdale
Tools & Hardware Ltd.....	112 Peter St. S., Orillia
Toronto Metal Specialties.....	80 Raleigh Ave., Toronto 13
Toronto Mould Engineering Co.....	1A Harold St., Toronto 14
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.....	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
Valiant Machine & Tool Co. Ltd.....	937 Duelllette Ave., Windsor
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
Welker Industries Co. Ltd.....	1 Adam St., Kitchener
Welland Vale Mfg. Co. Ltd.....	Imperial St., Hamilton
Wentworth Mould & Die Co. Ltd.....	99 Burton St., Hamilton
Werner Metal Products Ltd.....	R.R. 1 Brantford
Weshmeyer Machine & Tool Co.....	332 Horner Ave., Toronto
Wesson Cutting Tools Ltd.....	93 Judge Rd., Toronto 18
Weston Machine & Tool Limited.....	179 Main St. N., Weston
West Tool & Die Co.....	1872 Mattawa Ave., Cooksville
Wheatley Manufacturing Ltd.....	2590 Ouellette Ave., Windsor
White Eagle Tool & Die Co. Ltd.....	279 Drouillard Rd., Windsor
Wickman, A.C. Ltd.....	1425 The Queensway, Toronto 18
Wilkinson Sword (Canada) Ltd.....	70 Dufflaw Ave., Toronto
Will-Tools Ltd.....	Dixie
Willoughby Tool & Die Works.....	141 Garrison Rd., Fort Erie
Windsor Mold Ltd.....	3236 Walker Rd., Windsor
Windsor Tool & Die Ltd.....	1680 Kildare Rd., Windsor
Wright Aluminum Co. Limited.....	95 Milvan Dr., Weston
Wright, Carl Edward, Co.....	118 Cross Ave., Oakville
Yale & Towne Inc.....	Yale Crescent, St. Catharines
Zenith Tool & Die Ltd.....	Georgetown
Zetteli Manufacturing Ltd.....	170 Borden Ave. S., Kitchener

List of Establishments classified to This Industry, 1964 - Concluded

Name	Location
Manitoba:	
Dyck, J.L., Mfg. Ltd.	455 Edison Ave., North Kildonan
Kropp Tool & Die Ltd.	1096 Alexander Ave., Winnipeg 3
Microdar of Canada Ltd.	1085 Winnipeg Ave., Winnipeg 3
Pre Vue Company (Canada) Ltd.	1695 Sargent Ave., Winnipeg
Sigurdsons Ice Augers	Arnes
Alberta:	
Barnard Tool & Die Works Ltd.	216-50th Ave. S.E., Calgary
Canada Bit Ltd.	15814-112 Ave., Edmonton
Micro Industries (Alberta) Ltd.	10348-70 Ave., Edmonton
"Midgit" Tool & Die Works Ltd.	9665 Argyle Rd., Edmonton
Space Tool & Specialty Works Ltd.	131-61 Ave. S.E., Calgary
Stamco Specialty Tool & Mfg. Co. Ltd.	10012-106 Ave., Edmonton
Toolco Tool & Die Makers	7917 Argyle Rd., Edmonton
British Columbia:	
Adka Industries Ltd.	1290 Boundary Rd., Vancouver 6
Canadian Warren-Pink Ltd.	215 West 4th. Ave., Vancouver 10
Cascade Saw & Tool Co. Ltd.	149 E. Columbia St., New Westminster
Dunn's Sharp Edge Service	112 Main St., Vancouver 4
Granberg Industries Ltd.	P.O. Box 2567, Vancouver
Hamadan Tool & Die Mfg. Ltd.	675 Venables St., Vancouver 6
Kennametal of Canada Limited	759 Caledonia St., Victoria
McLean Tool Manufacturing	2155 West 10th Ave., Vancouver 9
Porter, H.K. Co. (Canada) Ltd. (Diston Div.)	1100 W. 6th Ave., Vancouver
Richmond Engineering & Production Engineering 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
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 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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