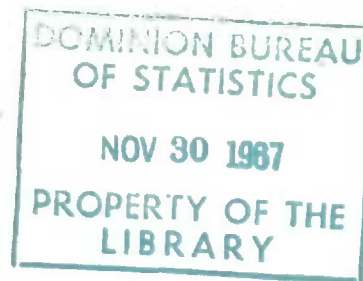


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MISCELLANEOUS MACHINERY AND EQUIPMENT MANUFACTURERS

1965

ANNUAL CENSUS
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PUBLICATIONS

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MISCELLANEOUS MACHINERY AND EQUIPMENT MANUFACTURERS

1965

For statistical purposes the industry titled Miscellaneous Machinery and Equipment Manufacturers covers the operations of establishments primarily engaged in manufacturing machinery and equipment designed particularly for use in construction and mining operations including earth moving machinery and equipment, and earth and rock boring and drilling equipment; establishments primarily engaged in manufacturing other special-industry machinery except agricultural machinery, including such products as textile machinery, pulp and paper machinery, printing machinery, and food-processing machinery; establishments primarily engaged in manufacturing machinery and equipment not designed for use in any particular industry or classified elsewhere, including such products as marine engines, general-purpose engines, pumping equipment, equipment for the transmission of mechanical power, conveyor systems, elevators and lifting and hoisting machinery. Establishments primarily engaged in manufacturing industrial tractors for handling materials in industrial plants, depots and docks are included here. Included also are establishments primarily engaged in manufacturing woodworking machinery and in manufacturing machine tools which are power-driven machines employing a cutting tool for work on metal. Establishments primarily engaged in manufacturing bits, drills and other cutting tools for machines or for power-driven hand tools are included in Industry No. 306—Hardware, Tool and Cutlery Manufacturers.

A review of the principal statistics for this industry indicates that during 1965 the value of shipments increased 16 per cent, the value of production increased 21 per cent, the cost of materials used in the manufacture of products increased 23 per cent and value added increased 19 per cent. In 1964 and 1965 the ratio of cost of materials used to value of production was 49 per cent.

The total value of miscellaneous machinery and equipment produced during 1965 by firms classified to this industry represented 85 per cent of their total value of production. Some of the other items reported were trucks, electrical equipment, agricultural equipment, railway freight cars, structural steel, swimming pool equipment, aircraft parts, trailers, heat treat furnaces, chain saws and hydro and orchard aerial platforms.

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		\$'000	
1961													
Totals	419	17,772	37,608	75,177	4,496	177,791	407,438	235,634	49	311	30,266	143,372	257,957
1962													
Totals	443	20,204	43,354	89,496	4,723	223,613	486,142	272,258	43	273	33,696	163,498	300,016
1963													
Totals	463	23,356	47,431	101,132	4,783	273,976	577,049	295,729	49	367	36,292	182,073	324,506
1964													
Newfoundland	1	342	726	1,341	86	1,228	3,718	2,488	x	x	395	1,631	2,545
Prince Edward Island	-												
Nova Scotia	6												
New Brunswick	1												
Quebec	85	6,305	14,022	28,515	1,186	28,515	84,307	169,256	3	13	10,307	50,880	93,799
Ontario	314	15,941	34,088	78,669	3,398	222,255	453,413	236,360	47	268	25,098	133,323	261,355
Manitoba	18	401	835	1,617	93	3,859	8,767	5,173	x	x	637	2,927	6,175
Saskatchewan	6	69	146	304	18	662	1,334	682	-	-	88	392	701
Alberta	14	207	421	909	76	4,922	7,331	2,602	-	-	398	2,054	3,845
British Columbia	51	1,720	3,532	9,075	388	21,741	44,384	22,944	x	x	2,483	13,587	24,168
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	496	24,985	53,772	120,430	5,245	338,975	688,205	353,196	54	299	39,396	204,795	392,587
1965													
Newfoundland	1	382	797	1,527	114	1,213	4,071	2,817	x	x	434	1,802	2,870
Prince Edward Island	-												
Nova Scotia	6												
New Brunswick	1												
Quebec	91	7,139	16,294	34,627	1,373	92,027	180,878	103,461	5	24	11,440	59,437	117,452
Ontario	333	18,136	39,925	96,821	3,720	282,494	539,320	277,824	48	325	28,079	158,893	307,577
Manitoba	17	467	965	1,966	99	5,002	10,707	5,868	x	x	697	3,317	6,698
Saskatchewan	7	72	148	317	20	647	1,472	823	-	-	94	436	837
Alberta	22	274	561	1,261	116	4,924	9,667	4,825	-	-	490	2,603	6,307
British Columbia	50	1,891	3,844	10,597	466	28,783	51,035	24,120	4	16	2,722	15,846	25,086
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	528	28,361	62,535	147,115	5,907	415,090	797,150	419,738	60	380	43,956	242,314	466,827

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	4	2	3	4	1	9	32	25	2	7	4	8	25
\$ 10,000 to \$ 24,999	15	11	18	36	5	104	236	163	9	37	22	70	167
25,000 " 49,999	34	82	164	314	19	482	1,233	807	16	61	126	488	901
50,000 " 99,999	46	212	426	845	58	1,454	3,436	2,082	15	65	288	1,192	2,149
100,000 " 199,999	85	639	1,287	2,619	176	5,611	12,268	6,745	6	35	920	4,163	7,194
200,000 " 499,999	96	1,364	2,910	6,221	329	14,287	30,023	16,344	2	12	1,926	9,436	17,838
500,000 " 999,999	71	1,979	4,268	9,006	492	24,240	50,984	26,635	—	—	2,973	15,288	29,602
1,000,000 " 4,999,999	119	10,312	22,186	48,521	2,158	144,394	283,977	144,479	4	82	16,253	82,349	166,388
5,000,000 and over	26	10,384	22,511	52,865	2,008	148,393	306,014	155,916	—	—	16,198	87,430	165,150
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	686	4,372	3,174
Totals	496	24,985	53,772	120,430	5,245	338,975	688,205	353,196	54	299	39,396	204,795	392,587
1965													
Under \$10,000	4	6	11	20	2	18	36	24	x	x	9	31	24
\$ 10,000 to \$ 24,999	21	20	37	73	9	130	362	247	10	30	35	132	254
25,000 " 49,999	31	91	182	340	17	569	1,129	841	10	40	128	513	844
50,000 " 99,999	38	157	314	654	44	1,227	2,863	1,726	24	133	214	905	1,832
100,000 " 199,999	95	715	1,438	2,975	178	6,116	13,746	7,946	8	52	1,007	4,601	8,472
200,000 " 499,999	112	1,583	3,297	7,489	380	17,022	35,879	19,755	x	x	2,272	11,642	22,217
500,000 " 999,999	63	1,780	3,857	8,761	485	21,597	44,469	23,644	—	—	2,659	14,388	26,365
1,000,000 " 4,999,999	123	10,407	22,869	52,202	2,125	137,228	273,066	144,921	4	105	15,538	83,085	163,421
5,000,000 and over	41	13,602	30,531	74,601	2,667	231,182	425,601	220,633	—	—	21,346	122,251	238,605
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	748	4,787	4,787
Totals	528	28,361	62,535	147,115	5,907	415,090	797,150	419,738	60	380	43,956	242,334	466,827

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	11	6	11	19	4	80	145	69	5	19	14	42	107
\$ 10,000 to \$ 24,999	30	49	95	182	17	413	931	535	13	52	78	283	565
25,000 " 49,999	56	211	423	804	82	2,692	4,951	2,036	22	90	342	1,499	3,040
50,000 " 99,999	81	559	1,135	2,322	161	5,956	11,860	5,981	8	44	796	3,597	6,192
100,000 " 199,999	83	1,050	2,177	4,601	253	12,378	24,048	11,889	2	12	1,536	7,329	14,766
200,000 " 499,999	91	2,453	5,302	11,287	563	32,476	62,992	30,878	—	—	3,753	19,111	34,274
500,000 " 999,999	57	3,144	6,749	14,114	695	46,922	87,300	40,670	4	82	5,061	24,813	48,712
1,000,000 " 4,999,999	76	11,143	23,910	53,445	2,192	148,818	299,503	153,653	—	—	17,251	88,674	171,368
5,000,000 and over	11	6,370	13,971	33,656	1,278	89,239	196,475	107,485	—	—	9,879	55,074	110,389
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	686	4,372	3,174
Totals	496	24,985	53,772	120,430	5,245	338,975	688,205	353,196	54	299	39,396	204,795	392,587
1965													
Under \$10,000	13	15	27	49	7	80	169	106	7	20	23	76	106
\$ 10,000 to \$ 24,999	32	55	112	210	11	734	1,249	578	11	41	88	350	585
25,000 " 49,999	39	124	248	485	40	1,181	2,565	1,397	20	110	173	702	1,457
50,000 " 99,999	89	627	1,270	2,605	183	6,736	12,875	6,436	14	78	908	4,140	7,780
100,000 " 199,999	98	1,065	2,178	4,962	263	12,123	25,195	13,760	x	x	1,487	7,597	14,656
200,000 " 499,999	94	2,375	5,065	11,484	599	39,324	68,965	29,147	x	x	3,639	19,188	38,041
500,000 " 999,999	61	2,990	6,576	14,302	693	47,759	90,942	43,614	4	105	4,314	23,061	46,225
1,000,000 " 4,999,999	88	12,347	27,277	63,587	2,481	195,417	364,635	83,586	—	—	18,897	103,337	203,431
5,000,000 and over	14	8,763	19,782	49,431	1,631	111,734	230,556	141,113	—	—	13,679	79,097	149,692
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	748	4,787	4,787
Totals	528	28,361	62,535	147,115	5,907	415,090	797,150	419,738	60	380	43,956	242,334	466,827

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	10	5	9	15	3	52	114	68	5	19	10	26	68
\$ 10,000 to \$ 24,999	28	43	82	151	12	332	805	492	13	52	69	241	495
25,000 " 49,999	52	177	355	676	56	1,856	3,632	1,888	22	90	261	1,061	1,981
50,000 " 99,999	80	533	1,082	2,191	150	5,576	11,155	5,680	8	44	753	3,342	5,822
100,000 " 199,999	83	968	1,992	4,225	239	10,922	22,019	11,379	2	12	1,356	6,519	11,923
200,000 " 499,999	88	2,192	4,754	10,066	533	31,176	59,059	27,672	—	—	3,234	16,275	29,999
500,000 " 999,999	57	2,855	6,066	12,781	626	40,900	76,604	36,165	4	82	4,346	21,613	39,826
1,000,000 " 4,999,999	85	11,123	23,855	53,312	2,228	153,763	304,449	153,305	—	—	17,403	89,759	176,331
5,000,000 and over	13	7,089	15,578	37,012	1,399	94,398	210,369	116,547	—	—	11,278	61,587	122,969
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	686	4,372	3,174
Totals	496	24,985	53,772	120,430	5,245	338,975	688,205	353,196	54	299	39,396	204,795	392,587
1965													
Under \$10,000	13	15	27	49	7	80	169	106	7	20	23	76	106
\$ 10,000 to \$ 24,999	32	55	112	210	11	734	1,249	578	11	41	88	350	585
25,000 " 49,999	36	114	228	436	32	1,047	2,295	1,268	20	110	155	614	1,265
50,000 " 99,999	81	565	1,130	2,269	142	5,149	10,523	5,670	14	78	767	3,357	5,846
100,000 " 199,999	100	1,034	2,123	4,823	244	12,521	25,399	13,533	x	x	1,469	7,448	14,190
200,000 " 499,999	93	2,112	4,484	10,128	522	29,656	56,497	26,795	x	x	3,023	15,859	29,491
500,000 " 999,999	61	2,690	5,907	12,908	650	41,052	79,935	39,208	4	105	3,946	21,118	42,374
1,000,000 " 4,999,999	94	12,233	27,009	63,199	2,415	192,990	356,766	176,778	—	—	18,612	102,228	196,842
5,000,000 and over	18	9,543	21,515	53,092	1,885	131,861	264,316	155,805	—	—	15,125	86,498	171,334
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	748	4,787	4,793
Totals	528	28,361	62,535	147,115	5,907	415,090	797,150	419,738	60	380	43,956	242,334	466,827

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	67	105	207	412	44	1,957	3,888	2,058	28	120	169	664	2,145
5- 14 employed	134	776	1,598	3,322	271	11,678	22,966	11,910	19	76	1,174	5,611	12,772
15- 49 "	136	2,574	5,509	11,809	648	38,818	74,678	35,851	3	22	3,743	18,894	40,005
50- 99 "	67	3,094	6,693	13,862	704	50,756	94,716	45,719	4	82	4,793	24,201	52,497
100-199 "	48	4,811	10,296	22,946	925	67,487	127,413	62,097	—	—	7,213	36,586	71,032
200-499 "	32	6,433	13,756	30,395	1,178	82,121	170,418	88,564	—	—	9,914	50,203	97,457
500 employed and over	12	7,192	15,714	37,683	1,475	86,157	194,125	106,996	—	—	11,704	64,264	113,504
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	686	4,372	3,174
Totals	496	24,985	53,772	120,430	5,245	338,975	688,205	353,196	54	299	39,396	204,795	392,587
1965													
Under 5 employed	70	100	198	403	44	2,667	4,977	2,430	27	112	171	766	2,523
5- 14 employed	146	877	1,796	3,967	268	12,972	26,435	13,868	26	137	1,296	6,332	14,928
15- 49 "	147	2,807	5,975	13,430	697	38,790	78,320	40,516	x	x	4,051	21,139	43,603
50- 99 "	66	3,198	6,987	15,151	724	56,230	103,983	49,579	x	x	4,758	25,548	54,535
100-199 "	42	4,136	9,055	20,949	880	73,162	124,564	55,853	—	—	6,259	33,791	67,388
200-499 "	44	8,744	19,249	45,234	1,734	126,262	236,150	127,069	—	—	13,104	72,097	139,625
500 employed and over	13	8,499	19,276	47,981	1,560	104,988	222,721	130,423	—	—	13,569	77,873	139,434
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	748	4,787	4,793
Totals	528	28,361	62,535	147,115	5,907	415,090	797,150	419,738	60	380	43,956	242,334	466,827

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	23	72	144	260	19	533	1,105	571	23	107	77	275	571
Partnerships	12	78	163	324	21	1,054	2,160	1,202	31	192	92	434	1,215
Incorporated companies	461	24,835	53,465	119,847	5,205	337,387	684,940	351,423	...	...	38,541	199,715	387,627
Co-operatives .....	—	—	—	—	—	—	—	—	...	...	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	686	4,372	3,174
Totals	496	24,985	53,772	120,430	5,245	338,975	688,205	353,196	54	299	39,396	204,795	393,587
1965													
Individual ownerships	25	86	172	300	19	548	1,242	681	25	120	92	316	681
Partnerships	15	105	214	454	28	1,110	2,556	1,476	35	260	124	572	1,502
Incorporated companies	488	28,170	62,148	146,361	5,861	413,432	793,352	417,581	...	...	42,992	236,659	459,852
Co-operatives .....	—	—	—	—	—	—	—	—	...	...	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	748	4,787	4,793
Totals	528	28,361	62,535	147,115	5,907	415,090	797,150	419,738	60	380	43,956	242,334	466,827

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	688,205	797,150	153,343	162,230	841,548	959,380
Inventories—Goods of own manufacture:						
Add closing—Goods in process	45,692	76,004	...	...	45,692	76,004
Finished goods	52,814	63,732	...	...	52,814	63,732
Deduct opening—Goods in process	42,942	44,304	...	...	42,942	44,304
Finished goods	46,353	51,847	...	...	46,353	51,847
2. Net inventory change	9,211	43,585	...	...	9,211	43,585
3. Gross output (1 + 2)	697,416	840,735	153,343	162,230	850,759	1,002,965
Input						
4. Purchases of goods not of own manufacture .....	...	...	112,230	116,976	112,230	116,976
Inventories—Goods not of own manufacture:						
Add opening .....	...	...	18,563	20,454	18,563	20,454
Deduct closing .....	...	...	20,793	26,643	20,793	26,643
5. Cost of goods sold (not of own manufacture) .....	...	...	110,000	110,787	110,000	110,787
6. Materials, supplies, etc.	338,975	415,090	3,952	4,355	342,927	419,445
7. Fuel and electricity	5,245	5,907	...	...	5,245	5,907
8. Gross input (5 + 6 + 7)	344,220	420,997	113,952	115,142	458,172	536,139
Value added (3 - 8)	353,196	419,738	39,391	47,088	392,587	466,827

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		Adminis- trative and office	Sales and distrib- ution	Total	
	Manufacturing		Other								Manufacturing	Other				
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female						Manufacturing	Other
	number										\$'000					
1964																
Newfoundland	}															
Prince Edward Island																
Nova Scotia		342	—	—	—	40	12	1	—	383	12	1,341	—	287	4	1,631
New Brunswick																
Quebec		6,217	88	68	14	2,221	727	733	239	9,239	1,068	28,515	270	16,648	5,446	50,880
Ontario		15,079	862	480	9	4,691	1,822	1,736	419	21,986	3,112	78,669	2,825	37,747	14,082	133,323
Manitoba		379	22	2	—	130	37	58	9	569	68	1,617	5	919	386	2,927
Saskatchewan		69	—	—	—	11	8	—	—	80	8	304	—	88	—	392
Alberta		201	6	—	—	53	27	98	3	352	36	909	—	566	579	2,054
British Columbia		1,681	39	—	—	480	162	99	22	2,260	223	9,075	—	3,819	693	13,587
Yukon and Northwest Terri- tories		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals		23,968	1,017	550	23	7,626	2,795	2,725	692	34,869	4,527	120,430	3,100	60,074	21,190	204,795
1965																
Newfoundland	}															
Prince Edward Island																
Nova Scotia		382	—	—	—	41	10	1	—	424	10	1,527	—	271	4	1,802
New Brunswick																
Quebec		7,053	86	63	16	2,300	733	921	268	10,337	1,103	34,627	292	17,955	6,562	59,437
Ontario		17,144	992	698	7	4,981	1,954	1,882	421	24,705	3,374	96,821	4,506	41,587	15,979	158,893
Manitoba		442	25	1	—	133	36	51	9	627	70	1,966	3	956	392	3,317
Saskatchewan		72	—	—	—	14	8	—	—	86	8	317	—	119	—	436
Alberta		267	7	—	—	72	32	104	8	443	47	1,261	—	684	658	2,603
British Columbia		1,850	41	—	—	511	178	115	27	2,476	246	10,597	—	4,295	954	15,846
Yukon and Northwest Terri- tories		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals		27,210	1,151	762	23	8,052	2,951	3,074	733	39,098	4,858	147,115	4,801	65,867	24,550	242,334

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	20,791	953	24,015	1,072
February	20,948	951	24,446	1,076
March	21,205	961	24,861	1,067
April	21,480	961	25,172	1,073
May	21,781	957	25,568	1,082
June	22,351	983	26,134	1,109
July	22,553	970	25,377	1,070
August	22,847	986	26,230	1,117
September	22,882	1,017	26,139	1,119
October	23,052	1,054	26,222	1,114
November	22,834	1,069	26,196	1,112
December	22,791	1,055	26,012	1,097
Averages	22,140	995	25,600	1,115
Establishments reporting annual averages (small establishments only)	1,828	22	1,610	36
Average for all establishments	23,968	1,017	27,210	1,151

TABLE 10. Inventories,¹ 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	511	382	317	1,209	—	1,209
Prince Edward Island						
Nova Scotia						
New Brunswick						
Quebec	10,347	9,493	11,812	31,652	4,616	36,268
Ontario	49,575	31,432	34,476	115,483	13,585	129,068
Manitoba	883	449	847	2,180	463	2,642
Saskatchewan	420	1	55	477	—	477
Alberta	1,353	201	1,472	3,026	1,053	4,079
British Columbia	3,655	2,347	2,868	8,870	736	9,607
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	66,746	44,304	51,847	162,897	20,454	183,350
Closing:						
Newfoundland	500	487	286	1,272	—	1,272
Prince Edward Island						
Nova Scotia						
New Brunswick						
Quebec	14,107	24,315	12,973	51,395	6,543	57,938
Ontario	61,958	46,084	44,541	152,584	17,930	170,514
Manitoba	1,117	613	945	2,675	465	3,139
Saskatchewan	398	8	66	472	—	472
Alberta	1,386	261	1,610	3,258	987	4,245
British Columbia	5,400	4,237	3,311	12,948	718	13,666
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	84,867	76,004	63,732	224,604	26,643	251,247

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	2,210	32	1,059
(b) Imported	"	20,175	253	22,849
Sub-bituminous coal (from Alberta mines only)	"	532	7	694
Anthracite coal	"	589	12	1,174
Lignite coal	"	—	—	11
Coke	"	21	1	3,095
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	980,315	379	1,113,041
Fuel oil including kerosene or coal oil	"	7,593,339	839	8,322,826
Wood	cord	7	—	14
Gas:				
(a) Liquefied petroleum gases	Imp. gal.	157,632	42	214,840
(b) Other manufactured gas	M cu. ft.	—	—	—
(c) Natural gas	"	838,220	746	1,157,708
Other fuel		—	—	—
Electricity purchased	kwh.	236,484,956	2,413	248,573,058
Steam purchased		—	63	—
2. Small establishments not reporting commodity detail:				
Estimate for fuel and electricity		—	—	—
3. All establishments:				
Total fuel and electricity used		5,245		5,907

¹ The difference between figures in Table 10 and those in Table 7 arises from firms reporting output of products on the basis of production rather than of shipments. Consequently, inventories of finished products for such respondents are not taken into account for purposes of compiling value added in Table 7. See also "Concepts and Definitions" for explanation of other variances.

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

Description	1964		1965	
	Quantity	Cost \$'000	Quantity	Cost \$'000
1. Materials used:				
Castings (rough and semi-finished) received from foundry:				
Iron (gray and malleable)	ton 26,509	9,874	32,063	12,219
Steel	" 17,569	8,139	17,418	9,517
Pig iron, all grades	" 18,604	1,142	22,407	1,260
Steel (except alloy steel):				
Bars	" 28,694	6,339	34,953	7,154
Plates (3/16 in. and thicker)	" 79,042	12,001	109,740	17,463
Sheets (under 3/16 in.):				
Plain	" 38,818	6,158	31,833	5,284
Galvanized	" 2,678	520	3,795	771
Tinplate	" 293	47	148	32
Strips (less than 14 in. wide)	" 1,902	355	2,792	516
Structural shapes, unfabricated (channels, angles, etc.)	" 36,079	6,211	44,783	7,966
Wire	" 1,779	429	1,993	534
Alloy steel in all forms:				
Alloy steel (other than stainless and tool steel)	" ..	3,215	" ..	4,220
Stainless	" ..	5,898	" ..	4,269
Tool steel (all types including high speed)	" ..	489	" ..	691
Scrap iron and steel:				
Purchased	ton 28,245	1,298	34,375	2,003
Own make	" 2,565	...	3,603	...
Pipe and fittings, iron and steel	" ..	5,827	" ..	7,192
Other iron and steel	" ..	7,232	" ..	9,709
Petro-alloys	" ..	766	" ..	477
Non-ferrous metals in all forms:				
Aluminum:				
Castings	pound 4,293,900	5,519	4,529,738	6,296
Sheet	" 1,022,588	506	1,418,765	739
Other forms	" 877,927	485	1,282,444	771
Brass and bronze	" 5,193,577	2,998	5,316,370	3,651
Copper:				
Sheet	" 81,605	61	134,546	90
Wire	" 636,975	505	1,145,606	923
Other forms	" 886,101	515	880,482	530
Lead	" 401,743	69	302,553	51
Nickel	" 181,261	160	177,180	178
Tin	" 9,987	14	16,640	24
Zinc	" 3,212,599	549	4,740,717	857
Babbitt metals and solders	" 280,841	164	287,951	196
Other non-ferrous metals	" ..	367	" ..	455
Other materials and supplies:				
Paints, oils and varnishes	" ..	916	" ..	1,301
Foundry coke (used in cupola)	ton 8,691	320	9,313	374
Foundry sands	" 27,884	334	42,360	477
Plumbago and graphite	pound 504,652	52	712,854	75
Lumber	M ft. b.m. 7,454	807	7,146	795
Firebrick and cupola blocks	" ..	107	" ..	157
Fire clay	ton 799	16	1,035	25
Core oil	Imp. gal. 89,695	126	115,963	186
All other materials and components used ¹	" ..	227,644	" ..	279,250
2. Containers and other packaging materials and supplies used	" ..	2,239	" ..	2,995
3. Operating, maintenance and repair supplies used (excluding fuel)	" ..	13,118	" ..	14,810
4. Amount paid out to others for work done on materials owned by establishments	" ..	5,445	" ..	8,607
Totals	" ..	338,975	" ..	415,090

¹ No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$16,741,832 in 1964 and \$14,583,989 in 1965.

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

Description	Value	
	1964	1965
	\$'000	
1. Products:		
Compressors, pumps and parts:		
Air compressors	16,976	16,843
Pumps and parts	28,077	31,770
Conveying, elevating, materials handling equipment and parts:		
Conveyors and conveying systems and parts	32,198	37,434
Elevators and parts	44,946	56,420
Hoisting machinery (except mine hoists) and parts	16,031	25,574
Industrial trucks, tractors, trailers and stackers and parts	11,518	16,301
Miscellaneous materials handling equipment and parts	10,256	14,422
Drilling, excavating, mining and related machinery and parts:		
Rock drilling, earth boring and related machinery and parts	28,853	35,189
Excavating, dredging and loading equipment and parts	29,888	44,666
Mining and ore processing machinery and parts	17,745	20,744
Construction machinery and parts	15,622	22,205
Engines and parts	37,026	38,722
Fire-fighting equipment	3,158	3,609
Food products machinery (including beverages and tobacco machinery) and parts:		
Baker's machinery and parts	2,886	2,519
Dairy and milk products plant machinery	692	1
Flour and grist mill machinery	518	524
Food products machinery, other, and parts	2,770	3,397
Foundry equipment (core-making machines, moulding machines, casting machines, shakeout equipment, etc.)	1,965	2,864
Metal-working machinery and parts:		
Machine tools, metal-working and parts	13,171	15,175
Metal-working machinery (except machine tools) and parts	19,703	16,866
Miscellaneous general purpose industrial machinery and parts:		
Wrapping and packaging and parts	2,125	3,140
Other general purpose industrial machinery and parts	6,565	8,537
Miscellaneous special industry machinery and parts:		
Cement mill machinery	3,571	2
Grain elevator machinery	1,562	1,323
Logging machinery	13,691	18,449
Rubber-working machinery	4,835	5,899
Saw-mill machinery, including lumber handling equipment	8,439	10,584
Special industry machinery, other, and parts	10,646	14,140
Pulp and paper industries machinery and parts	37,314	57,867
Refrigeration and air conditioning equipment and parts:		
Refrigeration equipment and parts	1,403	676
Air conditioning equipment and parts	4,812	3,600
Service industry equipment (including vending machines) and parts	9,133	10,404
Ship's machinery and fittings	1,186	1,065
Textile industries machinery and parts	1,281	1,097
Transmission equipment and bearings and parts	41,110	45,734
Water and sewage treatment equipment and parts	5,222	6,300
Woodworking machinery (excluding power driven hand tools) and parts	1,396	2,319
Ventilating, exhaust and dust-collecting equipment and parts	17,499	21,486
All other machinery and machinery parts	52,437	57,833
Total machinery and parts	558,226	675,638
All other products	121,619	114,038
2. Amount received in payment for work done on materials and products owned by others	3,885	3,924
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above	(3,276)	(4,482)
Net adjustment for establishments receiving progress payments	7,748	8,022
Total adjusted value of shipments and work done	688,205	797,150

¹ Included in "Other food products machinery".

² Included in "Other special industry machinery".

TABLE 14. Shipments of Selected Goods of Own Manufacture - All Industries, 1964 and 1965
(Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed)

Description	1964		1965	
	Quantity	Value	Quantity	Value
	No.	\$'000	No.	\$'000
Compressors and pumps:				
Air compressors:				
Stationary type:				
Not over 25 cu. ft. ....	..	3,985	..	5,297
Over 25 cu. ft. ....	..	9,008	..	7,581
Portable type ....	..	4,110	..	5,014
Pumps:				
Centrifugal ....	..	14,272	..	15,660
Deep well	8,661	791	2,394	407
Sump	36,838	1,154	44,766	1,475
Hand pumps ....	..	633	..	773
Self-contained household water pumping systems:				
Deep well and shallow jets	46,363	3,908	42,418	3,878
Shallow well, non-jet	18,663	1,733	17,012	1,484
Other power pumps; including direct-acting steam piston, electric, rotary, vacuum and pump jacks ....	..	5,065	..	6,821
Pump parts and accessories ....	...	7,279	...	8,473
Conveying, elevating and materials handling equipment:				
Conveyors and conveying systems:				
Gravity conveyors, (including straight and spiral chutes) ....	..	2,022	..	3,117
Portable conveyor units ....	..	633	..	1,118
Power conveyors:				
Belt type ....	..	16,109	..	12,354
Bucket type ....	..	1,417	..	1,499
Other conveyors, including pneumatic tube systems and parts ....	..	15,672	..	22,273
Elevators, including passenger, freight, sidewalk, dumb-waiters, escalators and parts ¹ ...	...	45,083	...	57,702
Hoisting machinery (except mine hoists):				
Powered overhead travelling cranes ....	..	11,951	..	15,008
Other cranes ....	..	5,228	..	5,693
Chain blocks and trolleys ....	..	1,443	..	1,826
Monorail electric hoists ....	..	1,364	..	2,057
Monorail systems ....	..	1,921	..	3,430
Industrial hoists and lifts, stationary ....	..	703	..	951
Winches ....	..	2,136	..	3,558
Other hoisting machinery ....	..	2,633	..	2,496
Attachments and parts for hoisting machinery ....	...	1,733	...	3,062
Industrial trucks, tractors, trailers and stackers:				
Hand trucks (including dollies) ....	..	1,272	..	2,884
Lift trucks ....	..	10,304	..	13,618
Other industrial tractors, stackers, including powered types ....	..	1,722	..	1,898
Miscellaneous materials handling equipment ....	...	12,965	...	18,338
Drilling, excavating, mining and related machinery:				
Rock drilling, earth boring and related machinery:				
Rock drills, including diamond drills ....	..	2,936	..	3,398
Diamond drill bits ....	..	7,542	..	7,868
Tungsten carbide drill bits ....	..	6,006 ¹	..	5,572
Other rock drilling, earth boring and related machinery and parts ....	...	16,315	...	18,968
Mining and ore processing machinery:				
Ball and rod mills	2	2	2	2
Crushers, jaw and gyratory ....	..	1,938	..	1,978
Hoist (mine hoists only)	2	2	2	2
Mine cars	318	535	1,619	3,558
Skips and cages	2	2	2	2
All other mining and ore processing machinery, including agitators, coal cutting machines, filters, flotation machines, screens, thickeners, etc. and parts ....	...	17,674 ¹	...	18,971
Construction, excavating, dredging and loading equipment:				
Power excavators (power shovels)	239 ¹	10,277 ¹	296	14,577
Front end loaders ....	..	3,079	..	2,793
Self propelled loaders	893 ¹	15,371 ¹	..	25,867
Bulldozing, angle-dozing and similar equipment ....	..	2,022	..	2,214
Self propelled graders	460	8,381	633	11,595
Snow plough ....	..	863	..	1,335
Other snow equipment, including blowers ....	...	3,126	...	2,343
Concrete mixer-agitators, truck type ....	..	3,108	..	5,990
Concrete, plaster and mortar mixers, other ....	..	3,231	..	3,524
Other mixing and paving equipment (concrete and bituminous) ....	..	3,707	..	5,402
Other construction machinery, including demountable scaffolding and parts ....	...	1,477	...	1,398
Other excavating machinery and parts ....	...	1,477	...	1,398
Other road and airport construction and maintenance machinery, flushers, scrapers, etc. and parts ² ....	...	1,477	...	1,398
Engines (excluding aircraft and automobile types):				
Turbines, hydraulic and steam ....	..	20,745	..	17,756
Diesel, gas turbine and steam ....	..	1,870	..	3,866
Gasoline, including outboard, industrial, etc. ....	..	54,251 ¹	..	48,903
Engine parts:				
For diesel engines ....	...	1,882	...	2,064
For gasoline engines ....	...	2,715	...	3,042
For marine engines ....	...	2,715	...	3,042

See footnotes at end of table.

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

Description	1964		1965	
	Quantity	Value	Quantity	Value
	No.	\$'000	No.	\$'000
Fire-fighting equipment:				
Pumpers .....	...	8,435	...	9,414
Other fire-fighting equipment, including hose trucks, ladder trucks, etc. ....	...		...
Food products machinery (including beverages and tobacco machinery):				
Bakers' machinery:				
Mixing machines	765	1,029	858	1,117
Ovens	98	806	64	495
Other bakers' machinery and parts .....	...	1,110	...	908
Dairy and milk products plant machinery, excluding milking machines .....	...	3,151	...	4,417
Flour and grist mill machinery .....	...	567	...	532
Other food products machinery and parts, including machines .....	...	3,693	...	3,940
Foundry equipment .....	...	1,965	...	2,880
Metal-working machinery:				
Machine tools, metal-working:				
Boring machines	3	3	3	3
Drilling machines	3	3	3	3
Grinding machines and grinders	3	3	3	3
Lathes, engine and turret	3	3	3	3
Milling machines	3	3	3	3
Presses	482	3,689	629	5,676
Punching machines	3	3	3	3
Rolls, bending and straightening	3	3	3	3
Shapers	3	3	3	3
Shearing machines	3	3	3	3
Other machine tools .....	...	9,856	...	11,246
Machine tool parts and accessories .....	...	865	...	1,173
Metal-working machinery (except machine tools), including rolling mill machinery .....	...	25,575	...	17,738
Printing and bookbinding machinery and parts .....	...	3,508	...	3,808
Pulp and paper industries machinery and parts .....	...	41,072	...	68,157
Service industry equipment (including vending machines):				
Commercial laundry and dry cleaning equipment, including coin operated dry cleaners ....	..	1,761	..	2,089
Vending machines .....	..	4,032	..	4,169
Service station and garage equipment:				
Auto lifts	1,318	1,026	..	7
Gasoline-dispensing pumps	7,285	4,313	7,722	5,005
Other garage equipment .....	...	2,936	...	3,276
Other service industry machinery .....	...	3,499	...	4,222
Ships' machinery and fittings (except winches) .....	..	3,164	..	3,466
Textile industries machinery and parts (excluding automatic knitting needles) .....	..	1,281	..	1,134
Transmission equipment and bearings:				
Bearings, ball and roller, and parts .....	..	26,661	..	31,374
Cut tooth and cast tooth gears .....	..	3,193	..	3,436
Flexible couplings .....	..	549	..	527
Pulleys .....	..	1,104	..	944
Sprocket chain and drive chain .....	..	3,123	..	3,734
Speed reducer units .....	..	4,096	..	3,699
Other transmission machinery and parts .....	...	4,682	...	6,282
Water and sewage treatment equipment:				
Domestic water softeners	20,998	2,329	19,201	1,897
Filtration, chlorination and sterilization equipment .....	...	...	...	3,953
Specialized sewage disposal equipment .....	...	...	...	1,567
Other water and sewage treatment equipment and parts .....	...	5,429	...	3,024
Woodworking machinery (excluding power driven hand tools and home workshop tools):				
Band sawing machines	4	4	4	4
Lathes	4	4	4	4
Planers	—	—	4	4
Rip and cross cut saws	—	—	4	4
Other woodworking machinery and parts .....	...	1,424	...	2,784

See footnotes at end of table.

TABLE 14. Shipments of Selected Goods of Own Manufacture—All Industries, 1964 and 1965—Concluded

Description	1964		1965	
	Quantity	Value	Quantity	Value
	No.	\$'000	No.	\$'000
General purpose industrial machinery:				
Heat exchangers, industrial .....	...	5,576	...	10,348
Bottle washing, filling, sealing equipment .....	...	1,097	...	1,097
Wrapping and packaging machinery and parts .....	...	2,125	...	2,043
Other general purpose industrial machinery and parts .....	...	2,840	...	3,631
Ventilating, exhaust and dust-collecting equipment .....	..	21,274	..	25,787
Special industries machinery:				
Plastics industry machinery .....	..	3,985	..	6,320
Rubber-working machinery .....	..	5,191	..	6,283
Cement and concrete machinery .....	..	3,571	..	3,613
Saw-mill machinery, including lumber handling equipment .....	..	9,738	..	12,015
Logging machinery .....	..	22,208	..	30,999
Grain elevator machinery .....	..	2,243	..	2,320
Tobacco machinery .....	...	1,267	..	2,198
Chemical and pharmaceutical machinery .....	...	...	..	2,059
Other special industry machinery and parts .....	...	23,888 ^f	..	21,451
Welding machinery, electric .....	...	6,597	...	6,624
Miscellaneous machinery:				
Blowers for domestic furnaces	191,986	2,117	^s	^s
Furnaces and ovens, industrial (excluding hot air), electric and other:				
Furnaces, including metal melting and metal heat treating furnaces .....	..	4,348	..	5,463
Ovens, including baking and drying but excluding bakers' ovens .....	..	2,287	..	3,063
Gas burners:				
Residential	9,545	606	8,106	519
Commercial and industrial	2,378	878	1,336	839
Lawn mowers:				
Electric	267,380	11,562	79,366	3,481
Gasoline .....	...	...	194,691	8,454
Oil burners, power:				
Domestic	94,240	6,704	94,014	6,074
Commercial and industrial	2,972	885	5,932	1,638
Pinsetters:				
Automatic .....	...	1,839	...	^s
Power driven hand tools, including hobby and home workshop .....	...	9,459	...	11,233
Saws, power chain, and parts:				
Saws	118,535	10,362	130,700	10,887
Parts .....	...	8,947	...	8,598
Screens, vibrating (including ore screens) .....	..	1,239	..	1,139
Snow blowers, other than highway type	11,969	1,684	..	1,594
Spray painting equipment	^s	^s	^s	^s
Stokers:				
Domestic	494	236	375	186
Commercial and industrial	158	627	51	111
Parts .....	...	320	...	301
Tire vulcanizers .....	...	...	..	1,069
All other machinery and parts, not separately specified .....	...	63,164 ^f	...	75,672
Totals .....	...	799,946^f	...	934,853

¹ The totals for 1964 and 1965 reflect a change in valuation based on "installed" value and are not comparable to values given for years prior to 1961.

² Included with "Other mining and ore processing machinery".

³ Included with "Other machine tools".

⁴ Included with "Other woodworking machinery".

⁵ Included with "Other machinery and parts".

⁶ Front end loaders, self propelled loaders and self propelled graders were included with "other road and airport machinery" in years prior to 1964.

⁷ Included with "Other garage equipment".

List of Establishments classified to this Industry, 1965

(Does not include establishments classified to other industries, which as a secondary activity, manufacture products typical of this industry)

Name	Location
Newfoundland:	
Barnes, E.F. Ltd.	26 Water St., St. John's
Nova Scotia:	
Acadia Gas Engines Ltd.	210 King St., Bridgewater
Chisholm Industries Ltd.	653 Trenton Rd., New Glasgow
Dominion Steel & Coal Corporation Ltd.	Trenton
Hawbolt Gas Engines Ltd.	Chester
Larche, Frank	Digby
Oxford Foundry & Machine Co. Ltd.	Oxford
New Brunswick:	
Nothorn Machine Works Ltd.	450 Main St., Bathurst
Quebec:	
American Air Filter of Canada Ltd.	400 Stinson Blvd., St-Laurent
Aqua-Technic Ltd.	2957 Saulton St., Montreal 9
Ashton Press Mfg. Co. Ltd.	10210 Pie IX Blvd., Montreal-Nord 39
Ashworth Card Clothing Co. Ltd.	316 St-Hubert St., Granby
Autostair Ltd.	1395 Raymond Ave., St-Hyacinthe
Beloit Sorel Ltd.	Sorel
Blanchet, Hilaire Ltd.	2050 Bréboeuf St., Drummondville South
Blank, Wm. Mfg. Co. Ltd.	270 Queen St., Montreal
Braidwood John & Sons Ltd.	66 Nazareth St., Montreal
Cableproject Rmb. Limited	7370 Côte Saint Luc Road, Montreal
Canada Fans Ltd.	4285 Richelieu St., Montreal
Canadian Allis-Chalmers Ltd.	125 St-Joseph St., Lachine
Canadian Bowl-Mor Co. Ltd. Division Matthew Moody	35 St-Louis Ave., Terrebonne
Canadian Chambon Ltd.	8710 Pascal Gagon St., Montreal 39
Canadian Ingersoll-Rand Co. Ltd.	800 Rand St., Sherbrooke
Chisholm Ryder Mfg. Co. Ltd.	5343-5345, rue de Castille, Montreal-Nord
Co-Matic Inc.	Ste-Claire
Cowan Dynamics Ltd.	2090-55th Ave., Dorval
Côté Bros. & Burritt Ltd.	1280 Conde St., Montreal
Côté, Jos. Incorporé	190 Ste Famille, St-Ephrem de Beauce
D & S. Engineering Intnl. Ltd.	50 Place Crémazie Suite. 321, Montreal 11
Darling Brothers Ltd.	140 Prince St., Montreal
Dominion Engineering Works Ltd.	1st Ave., Lachine
Drolet, F.X. Inc.	245, rue Dupont, Québec
Dynacast Limited	24 Mount Royal West, Montreal
Electro Mechanical Industries Ltd.	5435 Angers St., Montreal 20
Electrovert Mfg. Co. Ltd.	1305 Industrial Blvd., LaPrairie
Forano Limited	Plessisville
Flor-a-Matic Ltd.	2625 Albert St., Montreal 3
Galbraith, R.W. & Co.	2635 Albert St., Montreal
General Mfg. Co. Ltd.	835 Cherrier St., Drummondville
Glolok Co. Ltd.	745 Guy St., Montréal 3
Gocorp Canada Ltd.	896 A Montée de Liesse, Montreal 9
Gosselin, J.A. Co. Ltd., The	301 Hebert St., Drummondville
Hardt, J. Mfg. Inc., The	560-19th Ave., Lachine
Hardy, Eugène & Frères Ltée	St-Casimir
Hooper, S.W. & Co. Ltd.	731 Galt St. W., Sherbrooke
Houghco Products Ltd.	Candiac
Hydraulic Machinery Co. Ltd.	1243 Dorion St., Montreal
Ideal Poultry Equip. Regd.	St-Felix-de-Valois
Industries Samson, Inc.	12, rue St-Laurent, Lévis
Instruments (1951) Ltd. Noranda Div.	146-14 St., Noranda
James United Steel Ltd., Hall Machinery Div.	124 Grandes Fourches St., Sherbrooke
Jeffrey Mfg. Co. Ltd.	300 St. Patrick St., Lasalle
L'Air Liquide	2269 Viau St., Montreal
La Fonderie St-Anselme Ltée	St-Anselme Station
La Fonderie Trottier Inc.	St-Casimir
La Machinerie Oméga Ltée	390 Mondor St., St-Hyacinthe
La Métallurgie de L'Islet Ltée.	L'Isletville, Comté de l'Islet
Lalonde, Frank P. Ltd., The	5977 Trans Canada Hwy., Pointe Claire
Lasco Ltd.	3100 Cartier Blvd., Chomedey
Leros Inc.	227, rue Royale, Sorel
Lombard Power Eqpt. Ltd.	10436, boul. L'Archevêque, Montréal-Nord
Longuell Machine Shop Co.	140, chemin Chambly, Longueuil
Machinerie Lacasse Inc.	23 rue Jacques-Cartier, St-Romuald, Co. Levis
Makinson Winchester Ltd.	2287 Bois Franc Rd., St-Laurent
Metcon Corp.	422 McGill St., Montreal
Midland-Poss of Canada Ltd., Ross Division	304 St. Patrick St., LaSalle
Montreal Gear Works Ltd.	3425 Montgomery St., Montreal
Montreal Nord Machine Works, Welding Regd.	10525 Ste-Gertrude, Montreal-Nord
Munck (Canada) Ltd.	10900 Hammon St., Montreal 12
Nagle Elevator Co. Inc.	1085 Cheneville St., Montreal 1
National Electric Refrigerator Ltd.	Montgagny
Paco Corp.	930 Wellington St., Montreal
Pall (Canada) Limited	4880 Hickmore St., St. Laurent, Montreal 9
Peltier Handling Equip. Co. Ltd.	4285 Notre Dame St. E., Montreal
Penn Ventilator Canada Ltd.	43 St. Patrick St., Parnham
Pilon-Hosking & Co. Ltd.	P.Q. Box 536., Roux
Pneumatic & Hydraulic Co. Ltd.	St-Eustache
Poitrass, Jos. & Fils Ltée	L'Isletville
Pulp & Paper Mill Accessories Ltd.	6139 Côte-de-Liesse Rd., St-Laurent, Montreal 5
Roberts Filter Co. of Quebec, Ltd.	1176 Sherbrooke St. W., Montreal 2
Rack Industries of Canada Ltd.	Parnham
Sandvick Canadian Ltd.	5675 Royalmount Ave., Mount Royal

List of Establishments classified to this Industry, 1965 - Continued

Name	Location
Quebec - Concluded:	
Separator Engineering Mfg. Ltd.	3365 Ridgewood Ave., Montreal
Southern-Demeng (Division of Crane Canada Ltd.)	391 Theberge St., Marieville
Steel Heddle Co. of Canada Ltd.	310 St. Hubert St. Granby
Ste-Thérèse Allied Industries Ltd.	224 A Labelle Blvd., Ste-Rose
Super Industries Co. Ltd.	252 Mozart St., Montreal
Tardif, Armand Cie Ltée	Boischatel
Terry Industries - Division of Textron Canada Ltd.	180 Lahrosse Ave., Pointe-Claire
Thibault, Pierre Canada Ltée	Pierreville
T & P. Equipment Ltée	734, rue St-Étienne, L'Assomption
United Shoe Machinery Co. of Canada Ltd.	4545 Hochelaga St., Montreal 4
Vapor Carnes Ltd.	Ste-Thérèse
Vessot, S. Co. Ltd.	603 Querbes Blvd., Joliette
Vincent, Hector Inc.	St. Valérien
Voisine, J.E.	Rue des Trembles, Lauzon
Vulcan Hoist Co. Ltd., The	3555 Metropolitan Blvd. East, Room 302, Montreal
Vulcan Industries Ltd.	12229 Sherbrooke St. East, Montreal
Werner, Fritz, Ltd.	St. Laurent
Ontario:	
Abex Industries of Canada-Engineered Products Div.	205 Mary St., Brantford
Advance Floor Machine Co. of Canada Ltd.	17 Haas Rd., Rexdale
Airetool Canada Ltd.	37 Spalding Dr., Brantford
Albany Pump Co. Ltd.	840 King St. W., Toronto 2 B
Allis-Chalmers Rumely Ltd.	155 Dawson Rd., Guelph
Alton, James G., Equipment Co. Ltd.	375 Ohio Rd., Richmond Hill
American Can Co. of Canada Ltd.	1695 Lewis Ave., Niagara Falls
Anderson Bros. Tool & Die Co. Ltd.	1101 Finch Ave. W., Downsview
Anderson, J.W. Co. Ltd.	Dundas
Arbeck Industrial & Mining Equipment Co. Ltd.	110 Millwick Drive, Weston
Arcan Eastern Ltd.	Reid Rd., Hamilton
Armstrong, S.A. Ltd.	1400 O'Connor Dr., Toronto 16
Assinck Bros. Ltd.	Main St., Markham
Astron	10 Ralz St., Elmira
Astronaut Drycleaning Ltd.	1909 Davenport Rd., Toronto 9
Atlas Engineering & Machine Co. Ltd.	16 Eastern Ave., Toronto
B.K. Engineering Co.	230 Totyork Dr., Weston
B.L.M. Automatic Clutch Ltd.	863 Progress Ave., Scarborough
B & K Hydraulic Ltd. (c/o Collins Graff & Co.)	1015 University Ave W., Windsor
B & K Roller Die Co. Ltd.	164 Evans Ave., Etobicoke
Barber, Chas. & Sons	Meaford
Barber-Greene Canada Ltd.	81 Barber-Greene Rd., Don Mills
Barret Hydrostatics Ltd.	East River Rd., Galt
Bata Engineering (Div. of Bata Shoe of Canada Ltd.)	Batuwa
Bauer Bros. Co. (Canada) Ltd., The	192 Mary St., Brantford
Bockett Elevator Ltd.	83 Pape Ave., Toronto 8
Bertram Machine & Tool Co.	15 Hatt St., Dundas
Bettiger Industries Ltd.	649 Ontario St., Stratford
Black Clawson-Kennedy Ltd.	1144-1st Ave. W., Owen Sound
Black & Decker Mfg. Co. Ltd.	Brockville
Blakeslee, G.S. & Co. Ltd.	18 Cranfield Rd., Toronto 16
Bloomfield Industries Canada Ltd.	Brockport Dr., Rexdale
Blow Press Ltd.	153 Perth St., Acton
Blue Giant Equipment of Canada Ltd.	105 Kennedy Rd. S., Brampton
Boothe Engineering Co. Ltd.	P.O. Box 519, Ancaster
Borg-Warner (Canada) Ltd.	23 Bertrand Ave., Scarborough
Bowser, S.F. Co. Ltd.	344 Sherman Ave., N., Hamilton
Brantford Baker's Equipment	P.O. Box 1161, Brantford
Brantford Tool Ltd.	154 Darling St., Brantford
Brown Boggs Foundry & Machine Co. Ltd.	275 Sherman Ave. N., Hamilton
Brown Fintube (Canada) Ltd.	95 Woodworth Ave., St. Thomas
Bucyrus-Erie Co. of Canada Ltd.	200 Woodlawn Rd., Guelph
Burnside, Harry	442 King St. W., Toronto 2 B.
C.S.S. Manufacturing Ltd.	25 Ripley Ave., Toronto 3
Cailwood Engineering Co.	767 Warden Ave., Scarborough
Campbell Machinery Ltd.	399 Breithaupt St., Kitchener
Canada Machinery Corp. Ltd.	116 Cressman Rd. Kitchener
Canada Machinery Corp. Ltd.	19 Concession St., Galt
Canadian Baker Perkins Ltd.	27 Hansen Rd., Brampton
Canadian Bird Equipment Ltd.	3 Gertrude St., Hamilton
Canadian Blower & Forge Co. Ltd., The	90 Woodside Ave., Kitchener
Canadian Clark Ltd.	1195 Talbot St., St. Thomas
Canadian General Electric Co. Ltd.	221 Dufferin St., Toronto
Canadian General Electric Co. Ltd. (Scarborough Plant)	1900 Eglinton Ave., Toronto
Canadian Koebel Diamond Tools Ltd.	18th Street & Towns Rd., Toronto 14
Canadian Laundry Machinery, Div. of McGraw-Edison (Canada) Ltd.	47 Sterling Rd., Toronto 3
Canadian Longyear Ltd.	1111 Main St. W., North Bay
Canadian Mechanical Handling Systems Ltd.	3110 Marentette Ave., Windsor
Canadian Mines Equip. Co. Ltd.	596 Hamilton Rd., London
Canadian Monorail Co. Ltd.	16 Holtby Ave., Brampton
Canadian Printing Machinery Co. Ltd.	299 Adelaide St. W., Toronto 2 B
Canadian S.K.F. Co. Ltd.	2201 Eglinton Ave. E., Scarborough
Canadian Special Machinery Co.	1021 Rangeview Rd., Port Credit
Canadian Steelmaster Co. Ltd.	3094 Lenworth Drive, Cooksville
Canadian Westinghouse Co. Ltd.	Middleton St., Galt
Canadian Wellman Seaver Morgan Co. Ltd.	251 Campbell St., Sarnia
Caneng Manufacturing Co. Ltd.	2800 Montrose Rd., Niagara Falls
Canners Machinery Ltd.	Wellington St., Simcoe
Care Equipment Manufacturing Co. Ltd.	564 Lancaster St., Bridgeport
Caterpillar of Canada Ltd.	1550 Caterpillar Rd., Cooksville
Centri-Spray (Canada) Ltd.	6161 Tecumseh Road, Windsor
Chapin Engineering & Construction Co.	3605 Dundas St. W., Toronto

List of Establishments classified to this Industry, 1965 - Continued

Name	Location
Ontario - Continued:	
Christensen Diamond Products Co. (Canada) Inc.	1141 Main St. W., North Bay
Chrysler Canada Outboard Ltd.	92 Davidson St., Barrie
Ciematic Limited	7 Raleigh Ave., Scarborough
Clarke, D.R. Engine Co. Ltd.	2462 Dufferin St., Toronto 19
Climax Baier Co. Ltd.	43 Burton St., Hamilton
Clinton Products (Canada) Ltd.	Wheatly
Coates James D. Ltd.	7 Stewart St., Toronto 2 B
Colson (Canada) Ltd.	700 Burnhamthorpe Rd., P.O. Box 212, Cooksville
Columbia Machine (Canada) Ltd.	2370 Cawthra Rd., Cooksville
Commercial Filters Canada Ltd.	1179 Caledonia Rd., Toronto 19
Compact Mfg. Co. Ltd.	345 Guelph St., Georgetown
Contempo Manufacturing Ltd.	46 Chauncey Ave., Toronto 18
Convento Equip. Ltd.	116 Cressman Rd., Kitchener
Cooper-Bessemer of Canada Ltd.	57 Cooper St., Stratford
Cooper-Chapman Ltd.	153 Rivalda Rd., Weston
Corner Industrial Engines Ltd.	537 James St., Delhi
Craig Bit Co. Ltd., The	180-9th St., North Bay
Crane Carrier Canada Ltd.	1415 Renforth Dr., Rexdale
Culligan of Canada Ltd.	2213 N. Sheridan Way, Clarkson
Curvo Conveyor and Equipment Co.	2024 Robin Dr., Clarkson
Cyclo Floor Machine Ltd.	374 Enford Rd., Richmond Hill
Cyr R.J. Co. Ltd.	1263 McDougall St., Windsor
Dand, W.R. Petroleum Equip. Ltd.	868 Lakeshore Rd. E., Port Credit, Ont.
Daverio, Joseph	St. Andrews, W.
Delumere & Williams Co. Ltd.	35 Carson St., Toronto 14
Delhi Industries	523 James St., Delhi
De Vilbiss (Canada) Ltd.	Barrie
Dillon, Thomas A. Ltd.	2775 Dufferin St., Toronto 19
Domestic Electric Co.	272 Church St., Toronto
Dominion Road Machinery Co. Ltd.	Goderich
Dominion Rubber Co. Ltd.	84 Margaret Ave., Kitchener
Dorr-Oliver-Long Ltd.	174 West St. S., Orillia
Dover Products Corp. of Canada Ltd.	337 Richmond St., Chatham
Dry-Therm Co.	59 A Howden Rd., Scarborough
Dungarven Co. Ltd.	Almonte
Dundas, Machinery Co.	48 Le Page Court, Downsview
Edson Machinery	P.O. Box 58 Station D, Hamilton
Emco-Wheaton Div., Emco Ltd.	24 Newcastle St., Mimico
Eppe, C.H. Mfg. Ltd.	Clinton
Erie Iron Works Co. Ltd.	99 Edwards St., St. Thomas
Eriez of Canada Ltd.	133 Oakdale Rd., Downsview
Erodall Limited	126 Fenmar Drive, Weston
Ex-Cell-O Corp. of Canada Ltd.	120 Weston St., London
Factory Equipment Ltd.	92 Berczy St., Aurora
Filtration Products of Canada Ltd.	65 Duncan Rd., Thornhill
Fischer Bearings Mfg. Ltd.	801 Ontario St., Stratford
Fisher Gauge Works Ltd.	194 Sophia St., Peterborough
Fleck, Alexander Ltd., The	75 Spencer St., Ottawa
Fleming Gray Ltd.	108 Elmwood Ave., Galt
Fluid Power Limited	282 Belfield Rd., Rexdale
France Packing of Canada Ltd.	Box 636, Brantford
Francis Shaw (Canada) Ltd.	1393 Grahams Lane, Burlington
Fraser, Kenneth S. Co. Ltd.	Esna Park Dr., Miliken
Galion Manufacturing of Canada Ltd.	39 Burwell Rd., St. Thomas
Gardner-Denver Co. (Canada) Ltd.	Woodstock
Gardner Steel Ltd.	2442 South Sheridan Way, Clarkson
General Conveyor Co. Ltd.	120 A Willowdale Ave., Willowdale
General Gear Ltd.	599 Tretheway Drive, Toronto 15
Gilbert & Barker Mfg. Co. Ltd.	64 Jefferson Ave., Toronto 3
Gorman-Rupp of Canada Ltd.	70 Burwell Rd., St. Thomas
Greer, J.W. (Canada) Ltd.	74 Rainside Rd., Don Mills, Ont.
Greer Mixing Equip. Ltd.	100 Miranda Ave., Toronto 19
Gruber W. Equipment Ltd.	176 Bridgeland Ave., Toronto 19
Hamilton Gear & Machine Co. Ltd.	950 Dupont St., Toronto 4
Hamilton Thermal Specialties Ltd.	Barton St. E., Hamilton
Hamman Car & Engineering Ltd.	29 Dunbar Ave., Hamilton
Handling Specialty Mfg. Ltd.	276 Kipling Ave. South, Toronto 18
Hastings Machine Tools Ltd.	700 Montrose Rd., Niagara Falls
Heath & Sherwood Ltd.	6 Duncan Ave., Kirkland Lake
Hein-Werner of Canada Ltd.	377 Fairall St., Ajax
Hi-Lo Equip. (Canada) Ltd.	1770 Britannia Rd., Malton
Hohart Mfg. Co. Ltd., The	Bay Shore Rd., Owen Sound
Hoeksma, G., Machinery	171 Brant St., Hamilton
Holcroft & Company (Canada) Ltd.	P.O. Box 963, Windsor
Hom Elevator Ltd.	1430 Birchmont Rd., Scarborough
Howden & Parsons of Canada Ltd.	1510 Birchmount Rd., Scarborough
Howe, Glen Enterprises Ltd.	95 Rivalda Rd., Weston
Hubbard Portable Oven Co. of Canada Ltd.	154 Duke St., Toronto
Husky Mfg. & Tool Works Ltd.	200 Bentworth Ave., Toronto 19
Hydraulic Power Corp. Ltd.	483 Fairall St., Ajax
Hydromatic Machines Ltd.	1101 Finch Ave. W., Downsview
Hyster Canada Ltd.	69 Montcalm Ave., Toronto
I.B.L. Industries Limited	3 Clark Ave., Hamilton
Indpro Limited	144 16th St., Toronto 14
Industrial Gear Co.	10 Sunrise Ave., Toronto 16
Industrial Washing Equipment Ltd.	17 Tupper Ave., Toronto 18
Inglis, John Co. Ltd.	14 Strachan Ave., Toronto 3
Intair Limited	12 Laurel St., Waterloo
International Metal Textiles Ltd.	1186 Sheppard Ave., Willowdale
Involute Gear Co., The	321 Howland Ave., Toronto 4
J.B. Industrial Truck Sales & Service Ltd.	777 Warden Ave., Scarborough
J.M.G. Manufacturing Ltd.	Thornbury

List of Establishments classified to this Industry, 1965 - Continued

Name	Location
Ontario - Continued:	
Jabsco Pump Co. of Canada Ltd.	59 Howden Rd., Scarborough
Jacuzzi Universal (Canada Ltd.)	270 Rexdale Blvd., Rexdale
Jaeger Machine Co. of Canada Ltd.	43 Gaylord Rd., St. Thomas
Joy Mfg. Co. (Canada) Ltd.	175 Beverly St., Galt
K.R.A. Equipment Limited	178 Norseman St., Toronto 18
Kenhar Industrial Supply Ltd.	71 Rosedale Ave., Brampton
Kiekhaefer Mercury of Canada Ltd.	1166 Caledonia Rd., Toronto 19
King, G.W. of Canada Ltd.	Cumberland Ave., Burlington
King Seagrave Ltd.	873 Devonshire Ave., Woodstock
Kingsville Pump & Machine Co. Ltd.	84 Grace St., Kingsville
Knight Industrial Thermal Products Ltd.	10 King's Garden Rd., Toronto 10
Koehring-Waterous Ltd.	South Market St., Brantford
Komline-Sanderson Ltd.	72 Orenda Rd., Brampton
Krueger, H.R. of Canada Ltd.	P.O. Box 4, Windsor
L. & R. Machine Co.	777 Warden Ave., Scarborough
Lamson Conveyors of Canada Ltd.	6 Codeco Court, Don Mills
Lanark Ventilation Systems Ltd.	17 Tangiers, Toronto
Landsdowne Trailers & Fabricating Co.	3 Currah, Rd., St. Thomas
Langen, H.D. & Sons (Canada)	#7 Highway, Woodbridge
Lau Products Ltd.	385 Black Lime Rd., Kitchener
Lawson Packaging Machinery Ltd.	3620 Lakeshore Blvd., W., Toronto 14
Leepo Machine Product Ltd.	69 Lauzon Rd., Riverside
Leitch, Arthur S. Co. Ltd., The	William St., Midland
Link-Belt Limited	1960 Edlington Ave., E., Scarboro
Link-Belt Speeder (Canada) Ltd.	Dundas St. E., Woodstock
L.W. Manufacturing Ltd.	Adams Ave. & Spruce St., Paris
Master Vibrator (Canada) Ltd.	68 Chauncey Ave., Toronto
Mathews Conveyor Co. Ltd.	Port Hope
McCrave, John Machine & Foundry Co. Ltd., The	77 William St. N., Lindsay
McCormack Blades Ltd.	Harbour St., Whitby
McCulloch of Canada Ltd.	25 McCulloch Ave., Rexdale
McDouglas R. Co. Div. The, Upton Bradden & James Ltd.	50 Chapman St., Galt
McGraw-Edison (Canada) Ltd. (Berstad Div.)	17 Chisholm St., Oakville
McInnis Conveyors Ltd.	2500 Central Ave., Windsor
McIntyre Industries (London) Ltd.	526 Adelaide St., London
McLachlan, John, Foundry and Machine Shop	Cannington
Meaford Steel Product Ltd.	Marshall St., Meaford
Mefab Products	1339 Speers Rd., Oakville
Mico Mechanical Installations & Conveyor Co. Ltd.	91 Edinburgh Ave., P.O. Box 54, Hamilton
Micro-Flow Corporation Ltd.	145 Oakdale Rd., Downsview
Mid-Mar Ltd.	1 Research Rd., Brampton
Mimik Limited	Argyll Rd., Galt
Minogue, R. J. & Co. Ltd.	1399 Hammond St., North Bay
Moore Dry Kiln Co. of Canada Ltd.	Brampton
Morissette Mfg. & Sales Ltd.	560 Browning St., Haileybury
Morley & Son	71 Duke St., Toronto 2
Moto-Mower of Canada-Div. of Dura Corp.	50 Thames St., Ingersoll
Motor Specialty Mfrs. (Ont.) Ltd.	1783 Mattawa Ave., Cooksville
Mount Hope Machinery Co. Ltd.	45 Mount Hope St., Lindsay
Mudie, David J. & Company	14 Shawbridge Ave., Toronto 18
Muirhead Fromson Ltd.	77 Rialside Rd., Don Mills
Napanee Industries (1962) Ltd.	51 Ann St., Napanee
Nash Engineering Co. of Canada Ltd., The	1095 North Side Rd., Burlington
National Equipment Co. Ltd.	41 Wabash Ave., Toronto 3
Neptune (Canada) Pump & Mfg. Co. Ltd.	Box 171, Hughes Rd., Orillia
New York Air Brake Co. of Canada Ltd., The	Rexdale
Nordic Steel Products Ltd.	1044 Rangeview Rd., Port Credit
Northcott-Morris Machine Co.	2 Laird Dr., Toronto 17
Northern Crane & Hoist Works Ltd.	1428 Argyle Rd., Windsor
Oil Well Supply Co. Ltd., The	4184 Robert St., Petrolia
Olis Elevator Co. Ltd.	414 Victoria Ave., N., Hamilton
Outboard Marine Corp. of Canada Ltd.	910 Monaghan Rd., Peterborough
Packsack Diamond Drills Ltd.	1385 Hammond St., North Bay
Paramount Gear Works Ltd.	1247 Lawrence Ave. W., Toronto 15
Parker-Hannafin Ltd.	Bayshore Rd. East, Owen Sound
Pathex (Canada) Ltd.	74 Rialside Rd., Don Mills
Patterson Ind. (Canada) Ltd.	250 Danforth Rd., Scarborough
Pawer Limited	343 Greenfield Ave., Kitchener
Pendrith Machinery Ltd.	775 King St. W., Toronto
Perrin, William R. Ltd.	530 King St. E., Toronto 2
Petroquip Ltd.	60 Leslie St., Toronto
Phil Universal	550 Evans Ave., Toronto 4
Phin, Universal (Div. Canadian Stackpole Ltd.)	3555 Danforth Ave., Scarborough
Pierce-All Mfg. Ltd.	144 Skyway Ave., Rexdale
Pleuger of Canada Ltd.	8 High Park Blvd., Toronto
Plewes-Jackson Engineering Ltd.	58 Fraser Ave., Toronto 3
Pneuvoyor Systems Ltd.	Young St., Woodstock
Polce Power Products Ltd.	1701 Shepherd St. E., Windsor
Power, C.J. Automatic Tools Ltd.	339 Frankcom St., Ajax
Precisioneering Limited	61 Raleigh Ave., Scarborough
Premier Vacuum Cleaner Co. (Canada) Ltd.	20 Torlake Cres., Toronto
Pro Eco Ltd.	1854 Mattawa Ave., Cooksville
Progressive Equipment & Machinery Works Ltd.	8 Alice St., Brighton
Provincial Butchers Machinery Co. Ltd.	393 A Arlington Ave., Toronto 10
Provincial Engineering Ltd.	674 Ferguson St., Niagara Falls
Provincial Engineering Ltd.	Stanley Ave., Niagara Falls
Pumps & Softeners Ltd.	680 Waterloo St., London
Ram Portable Tools Limited	585 Trethewey Drive, Toronto 15
Ramsey Rec Ltd.	67 Industrial R., Richmond Hill
Rapistan Canada Ltd.	Brockport Dr., Rexdale
Rogon Hydraulic Industries Ltd.	4 Elrose Ave., Weston
Reliance Tool & Die Casting Ltd.	150 Edward St., St. Thomas

List of Establishments classified to this Industry, 1965 - Continued

Name	Location
Ontario - Concluded:	
Remington Arms of Canada Ltd.	36 Queen Elizabeth Blvd., Toronto
Renold Chains Mfg. Ltd.	Box 242, Park Rd., North, Brantford
Rex Chainbelt (Canada) Ltd.	1181 Sheppard Ave., Willowdale
Roberts, F.W. Mfg. Co. of Canada Ltd.	473 Buttrey St., Niagara Falls
Rock Drill Rod Co. Ltd.	25 Edgar Ave., Weston
Rodgers Electric Hydraulic Co.	212 Pellatt Ave., Weston
Foelofson Elevator Co. Ltd.	5001 Dundas St. W., Islington
Rolling Specialties Ltd.	P.O. Box 37, Georgetown
S.M.S. Mfg. Co. Ltd.	45 Milvan Dr., Weston
St. Lawrence Engine Co. Ltd., The	Brockville
Sala Machine Works Ltd.	3136 Mavis Rd., Cooksville
Sanders, L.J.R. Co. Ltd.	34 Ainslie St. S., Galt
Sanden Machine Co.	1122 Finch Ave., Downsview
Schomberg Brooder Co. Ltd.	Box 100, Schomberg
Scott, C.M. Fluid Power Ltd.	16 Millwick Dr., Weston
Second Industrial Sales Ltd.	555 Parkdale Ave. North, Hamilton
Shaft Machines Ltd.	100 Adelaide St. W., Toronto 1
Sheldons Engineering Ltd.	96 Grand Ave. S., Galt
Sheridan - Loach Ltd.	106 Hawden Rd., Scarborough
Sihl Pumps Ltd.	225 Speedvale Ave. W., Guelph
Simpson Bros. Machine Co. Ltd.	4530 Kingston Rd., West Hill
Smart-Turner Machine Co. Ltd.	191 Barton St. E., Hamilton
Smit, J.K. & Sons Diamond Products Ltd.	81 Tycos Dr., Toronto 19
Sovereign Water Conditioners of Can. Ltd.	Scarborough
Sparkler International Ltd.	1115 Castlefield Ave., Toronto 19
Sperry-Rand (Canada) Ltd.	280 Attwell Dr., Rexdale
Spoton Engineering Ltd.	21 Carson St., Toronto 14
Standard-Modern Tool Co. Ltd.	69 Montcalm Ave., Toronto 10
Sta-Rite Pumps (Canada) Ltd.	264 Fairall St., Ajax
Stephens-Adamson Mfg. of Canada Ltd.	30 Franklin St., Belleville
Stevens Co. of Galt Ltd., The	12 Rose St., Galt
Stratford Machine & Tool Co. Ltd.	684 Ontario St., Stratford
Stripplitt Tool & Machine Co. (Div. of Provincial Engineering Ltd.)	40 Hansen Rd., Brampton
Sunnen Products Co. Ltd.	23 Grand Ave. E., Chatham
Superior Matchplate	6 Kerr St., Galt
Sutton Tool & Die Mfg. Co.	Hwy # 53 West, Box 513, Brantford
Sweco Canada Ltd.	21 Jutland Rd., Toronto 18
Tarbzag Manufacturing Co.	120 Manville Rd., Scarborough
Taymer Industries Ltd.	1850 Mattawa Ave., Cooksville
Timberjack Machine Ltd.	Devonshire Ave., Woodstock
Timken Roller Bearing Co., The	1055 Talbot St., St. Thomas
Tobacco Tyer Corp. Ltd.	P.O. Box 400, Delhi
Tokheim of Canada Ltd.	87 Queen Elizabeth Blvd., Toronto
Tool Steel Hardened Products of Canada Ltd.	1344 Martin Grove Rd., Rexdale
Toronto Gear Works	777 Warden Ave., Scarborough
Toronto Hydraulic Co. Ltd.	35 Six Points Rd., Toronto 18
Torrill Oven & Equipment Co. Ltd.	79 Ellesmere Rd., Scarborough
Torrington Mfg. Co. of Canada Ltd., The	201 Speers Rd., Oakville
Tron (Canada) Ltd.	90 Brimley Rd., Scarborough
Turbo Gas Equip. Ltd.	Delhi
Turnbull Elevator of Canada Ltd.	126 John St., Toronto 2 B
United Pumps of Canada, Ltd.	1181 Sheppard Ave., Willowdale
United Steel Corp. Ltd.	317 King St., Welland
Viking Pump of Canada Ltd.	661 Grove Ave., Windsor
Vogel, K. Specialties	101 Berezy St., Aurora
Vulcan Equipment Ltd.	95 Research Rd., Toronto 17
Wallace & Tieman Ltd.	925 Warden Ave., Scarborough
Water Softening Equip. Ltd.	112 Manville Rd., Scarborough
Waterloo Mfg. Co. Ltd., The	263 Phillip St., Waterloo
Watson, John Mfg. Co. Ltd., The	Ayr
Wayne Pump Canada Ltd.	829 Richmond St. W., Toronto 3
Wayne Sweeper Mfg. Canada Ltd.	110 East Dr., Bramalca
Wean-McKay of Canada Ltd.	Savage Dr., Galt
Webb, Jervis B. Co. of Canada Ltd.	1647 Burlington St. E., Hamilton
Weber Mfg. (Windsor) Ltd.	3988 Riberdy Rd., Windsor
Webster Air Equip. Ltd.	1161 King St. E., London
West Machinery Co. Ltd.	Wellington St., Simcoe
Westaway, W.J. Co. Ltd.	394 Wilson St., Hamilton
Westco Pump & Engineering Ltd.	9 Clintwood Gate, Don Mills
Wheel Trueing Tool Co. of Canada Ltd.	575 Langlois Ave., Windsor
Whiting Corp. (Canada) Ltd.	Alexander St., Welland
Wilby Iron Works Ltd.	50 Church St., Weston
Williams Machines Ltd.	311 Montrose St., Preston
Williams, John Machinery Ltd., The	255 Wharton Glen, Cooksville
Wind Turbine Co. Ltd., The	145 Lucan St., Waterloo
Woods Fans (Canada) Ltd.	9 Codeco Court, Don Mills
Worthington (Canada) Ltd.	Cainsville
Yates, P.B. Machine Co. Ltd., The	163 Roberts St., Hamilton
Manitoba:	
Betts-Eastman Ltd.	865 Wall St., Winnipeg 10
Chicago Blower (Canada) Ltd.	901 Regent Ave. W., Transcona
Delro Industries Ltd.	860 King Edward St., Winnipeg 41
EPM Manufacturing Co. Ltd.	8 McGillivray Blvd., Fort Garry
Falcon Machine Works Ltd.	57 Dawson Rd., St. Boniface
Fillersoft Ltd.	215 Watt St., Winnipeg
Joy Mfg. (Canada) Ltd.	118 Midland St., Winnipeg
Kipp Kelly Ltd.	68 Higgins Ave., Winnipeg
McLean Machinery Co. Ltd.	125 Pacific Ave., Winnipeg 7
Monarch Machinery Co. (1963) Ltd.	889 Erin St., Winnipeg 10
Oshkosh Filter & Softner Co. (Canada) Ltd.	721 Assiniboine Ave., Brantford
Riverdale Water Softner Co. Ltd.	2nd Ave., Rivers

List of Establishments classified to this Industry, 1965 - Concluded

Name	Location
Manitoba - Concluded:	
S.S. Manufacturing Ltd.	85 Sutherland, Winnipeg
Seniuk's Blacksmithing	85 Sutherland Ave., Winnipeg 4
Spiral Corporation Ltd.	Corner Gertrude & Donald Sts., Winnipeg 13
Strong-Scott Limited	P.O. Box 872, Winnipeg
Wheeler Hand Trucks Ltd.	614 Lorette Ave., Winnipeg 9
Saskatchewan:	
Leons Mfg. Co. Ltd.	Bankend
Mid-West Equipment Ltd.	1065 Winnipeg St., Regina
Imperial Welding & Machine Ltd.	Imperial
Regal Softner Equip. Ltd.	1322 Lorne St., Regina
Richardson Road Machinery Co. Ltd.	112 Avenue 1 South, Saskatoon
Schulte Welding & Machine	Englefield
Western Machine & Engineering Ltd.	1201 Scarth St., Regina
Alberta:	
Accurate Bar Control Systems Ltd.	514-2nd St. S.E., Calgary
Alberta Air Cool Products Ltd.	4240-17th St. S.E., Calgary
Allen Tank (Western) Ltd.	126th & 97th Street, Edmonton
A.T.P. Mfg. Co. Ltd.	9545-62nd Ave., Edmonton
Berg, B. Industries Ltd.	Linden
Boeing Mfg. Co. Ltd.	Box 431, 438-11th Ave. S.E., Calgary
Canadian Cane (Eqpt.) Ltd.	8833-63rd Ave., Edmonton
Canadian Oil Tool Mfg. Ltd.	336-58th Ave. S.E., Calgary
Can Do Products Ltd.	505-34th Ave. S.E., Calgary
Christensen Diamond Petroleum Ltd.	14730-118th Ave., Edmonton
Coutts Machinery Co. Ltd.	9119 Stadium Rd., Edmonton
Electro Magic Enterprise Ltd.	Box 10, Bellevue
El-Ke Manufacturing Ltd.	P.O. Box 121, Midnapore, Calgary
Engineering Specialties (Alberta) Ltd.	330-9th Ave. S.W., Calgary
Le Grand Limited	111-58th Ave. S.W., Calgary
Major Irrigation Ltd.	2125-2nd Ave. S., Lethbridge
Saskatoon Fire Engine Co. Ltd.	216 Monument Place, Calgary
Smit-Connors, J.K. Ltd.	5406-43rd St., Red Deer
Smith & Schneider Sawmill Eqpt. Ltd.	Chinook Valley, Alta.
Topland Oil Tool Ltd.	6829-104th St., Edmonton
Weatherford Oil Tool Co. Ltd.	14435-116 Ave., Edmonton
Western Rock Bit Co. Ltd.	510-77th Ave. S.E., Calgary
British Columbia:	
Aco Fabricator Ltd.	90 Harbour Ave., North Vancouver
Airchime Mfg. Ltd.	14 Powell St., Vancouver
Andersen Production Engr. Ltd.	1491 Pemberton Ave. N., Vancouver
Automatic Equip. & Service Co.	4624 Sophia St., Vancouver 10
B.C. Hoist Manufacturers Ltd.	1235 East Pender, Vancouver
B.J. & T. Machine Works Ltd.	344 West 2nd St., North Vancouver
Boyles Bros. Drilling Co. Ltd.	1291 Parker St., Vancouver
Canadian Car (Pacific) Div. of Hawker Siddeley Canada Ltd.	1660 Station St., Vancouver 4
Canadian Mobile Co. Ltd.	207 West 2nd, Ave., Vancouver 10
Canadian Summer Iron Works Ltd.	3550 East Broadway, Vancouver 12
Carbitron Development Ltd.	1270 Boundary Rd., Vancouver 6
Cargate Westminster Industries Ltd.	1135 Queens Ave., New Westminster
Colby Crane & Mfg. Ltd.	66 Jemmet St., New Westminster
Columbia Fluid Power	1572 West 4th Ave., Vancouver
Cramco Machinery Ltd.	680 Derwent Way, New Westminster
Durand Machine Works (1957) Ltd.	101-11th St., New Westminster
Esser Engineering Works Ltd.	50 Braid St., New Westminster
Gearmatic Co. Ltd.	7400-132nd St., North Surrey
Heede, B.M. (Canada) Ltd.	3541 Cornett Rd., Vancouver 12
Hub Fire Engines & Equip. Ltd.	McLure & Mission-Abbotsford Hwy., Matsqui
Interior Mill Equip. Ltd.	Grand Forks
Jordan's Machine Works Ltd.	4428 Kingsway, Burnaby 1
Kelowna Machine Shop Ltd.	1247 Ellis St., Kelowna
Korth Machinery Ltd.	368 West 4th Ave., Vancouver 10
Krell Mfg. Co. Ltd.	539 E. Hastings St., Burnaby
Leland Mfg. Co. Ltd.	1790 Powell St., Vancouver 6
L-M Equip. Co. (B.C.) Ltd.	7538 Griffiths Ave., South Burnaby
Letson & Burpee Ltd.	172 Alexander St., Vancouver 4
Madill, S. Ltd.	2560 Bowen Rd., Nanaimo
Moore Dry Kiln Co. of Canada Ltd.	345 East First Ave., Vancouver
Nicholson Murdie Machines Ltd.	327 Harbour Rd., Victoria
Opsal Steel Ltd.	97 East 2nd Ave., Vancouver 10
Patrick Equipment Ltd.	5352 Still Creek Ave., North Burnaby
Peco Engineering Co. Ltd.	1334 W. Pender St., Vancouver 5
Power Machinery (Div. of Bristol Aero-Industries Ltd.)	Vancouver Airport, Vancouver
Pumps & Power Ltd.	1380 Napier St., Vancouver 12
Pyramid Machine Works Ltd.	276 East Esplanade, North Vancouver
Regent Steel Specialties Ltd.	6957 Beresford St., South Burnaby
Swann, J. (1963) Ltd.	1481 Franklin St., Vancouver 6
Trump Ltd.	2nd Ave. East, Oliver
Tyee Machinery Co. Ltd.	Granville Island, Vancouver 9
Vancouver Gear Works Ltd.	975 Vernon Drive, Vancouver 6
Vancouver Iron & Engineering Works Ltd.	1155 West 6th Ave., Vancouver 9
Vancouver Mill Machinery Ltd.	1904 Gilmore Ave., Burnaby 2
Wagner Engineering Ltd.	1742 West 2nd Ave., Vancouver 9
Wagner Manufacturing Co. Ltd.	1370 Powell St., Vancouver
Wagstaff Hoist Ltd.	2294 Clark Drive, Vancouver 12
Webb & Gifford Ltd.	222 Front St., New Westminster
Weldco Limited	116 East 2nd Ave., Vancouver 10
Westcoast Automation Ltd.	101-11th St., New Westminster

CONCEPTS AND DEFINITIONS

Census of Manufactures

General

The Census of Manufactures is an annual mail survey covering Canada's Manufacturing Industries. It is based on the Standard Classification of Industries and full details concerning the system may be found in the Standard Industrial Classification manual, Catalogue No. 12-501 which is available from the Queen's Printer or the Dominion Bureau of Statistics. In summary, the Classification as it relates to the manufacturing industries provides for a breakdown into 140 industries arranged in 20 major industry groups. Of the 140 (3 digit) industries, 18 are further broken down into 55 (4 digit) sub classes. At the Canada level, principal statistics are collected and compiled for 176 separate industries. They cannot all be published separately by province, however, because of the confidential nature of the data in certain provinces.

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

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

The results of the Census are presented in some 135 publications. In addition to these annual industry publications there are annual summary reports for Canada and the provinces and special reports giving principal statistics by detailed geographic areas, by type of ownership and size of establishment. A special annual report covering the shipments of all manufactured commodities arranged in alphabetical order is also published.

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

Establishment

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

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

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

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

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

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

Head Offices and Auxiliary Units

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

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

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

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

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

Employees

(a) Production and related workers – Manufacturing activities

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

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

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

(c) Administrative and office employees

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

(d) Sales and distribution workers

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

(e) Total Employees

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

Working Owners or Partners

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

Salaries and Wages

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

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

Fuel and Electricity

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

Materials and Supplies

(a) Manufacturing activities

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

(b) Non-manufacturing activities

1. Purchases for re-sale as such

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

2. Other materials and supplies used

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

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

Shipments

(a) General

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

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

(b) Shipments of goods of own manufacture

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

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

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

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

(c) Shipments of goods not of own manufacture

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

(d) Other revenue

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

Inventories

(a) Manufacturing activities

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

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

(b) Non-manufacturing activities

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

Value Added

(a) By manufacturing activities

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

(b) By non-manufacturing activities

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

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

(c) By Total activities

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

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