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1965

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GLASS AND GLASS PRODUCTS MANUFACTURERS

1965

For statistical purposes the industry titled Glass and Glass products Manufacturers in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in manufacturing flat glass; plate glass; glass containers; glassware; ovenware; glass brick; fibrous glass products except textile fabrics; mirrors; stained, leaded and ornamented glass; glass novelties and other articles made from glass. This industry includes establishments primarily engaged in etching or painting glass or glassware. Establishments primarily engaged in manufacturing optical lenses and ophthalmic lenses are classified in Scientific and Professional Equipment Manufacturers. Establishments primarily engaged in spinning glass yarns or weaving glass fabrics are classified in Synthetic Textile Mills.

Note: For purposes of presentation of statistics in this report recognition is being given to the operations of two sub-classifications within this industry group (a) Glass Manufacturers and (b) Glass Products Manufacturers. The former includes establishments primarily engaged in manufacturing flat glass and glass containers while the latter includes establishments engaged in manufacturing articles from glass, such as, mirrors, hermetically sealed windows, non-shatterable glass, leaded and ornamental glass, etc. The two sub-classifications as a group are covered in Tables 1 to 11 while Tables 12, 13 and 15 carry a separate breakdown of the two sub-classifications. Table 14 gives totals for Canada for certain items regardless of the industries in which they were produced.

Value of shipments and other revenue (manufacturing and non-manufacturing) of the Glass and

Glass Products Industry amounted to \$182.9 millions in 1965, compared with \$160.2 millions in 1964, an increase of \$22.7 millions or about 14 per cent. For the two sub-classifications in this industry group the values were \$91.6 millions in 1965 versus \$86.5 millions in 1964 for Glass Manufacturers and \$91.3 millions in 1965 versus \$73.8 millions in 1964 for Glass Products Manufacturers.

Products of own manufacture shipped by Glass Manufacturers including bottles, sealers and window glass were valued at \$84.4 millions in 1965. Other revenue (non-manufacturing) amounted to \$7.2 millions. For Glass Products Manufacturers, manufactured products such as mirrors, non-shatterable glass, etc. accounted for \$83.9 millions in 1965 while other revenue (non-manufacturing) accounted for \$7.3 millions.

Total inputs for the production of goods of own manufacture increased by \$0.4 millions for Glass Manufacturers and by \$8.6 millions for Glass Products Manufacturers, a net increase of about \$9.0 millions for the industry as a group. Cost of materials and supplies, etc. (total inputs) in 1965 represented 28 per cent of value of Glass Manufacturers' shipments of own manufacture (outputs) unchanged from a similar ratio in 1964. Cost of materials and supplies, etc. in 1965 represented 53 per cent of value of Glass Products Manufacturers' shipments of own manufacture unchanged from 1964. Total cost of materials and supplies etc. in 1965 for the two industries combined represented 40 per cent of value of shipments of own manufacture, unchanged from a similar ratio in 1964.

SYMBOLS

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

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

TABLE 1. Principal Statistics, 1961-65

Year and province	Estab-lish-ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1961													
Totals	109	7,795	16,549	30,604	4,966	43,651	113,154	66,246	41	155	9,802	40,963	68,358
1962													
Totals	111	7,912	16,891	32,765	5,798	53,025	136,168	77,697	41	163	10,042	43,660	79,476
1963													
Totals	111	8,101	17,634	35,278	5,601	55,297	139,526	80,222	32	143	10,346	47,120	81,524
1964													
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—	—	—	—	—	—	—	—
New Brunswick	1	x	x	x	x	x	x	x	x	x	x	x	x
Quebec	42	2,754	6,398	12,346	2,209	13,882	41,975	25,966	12	49	3,495	16,289	26,688
Ontario	53	4,537	9,952	21,816	3,239	38,124	90,656	50,348	19	91	5,787	29,124	50,993
Manitoba	7	89	183	313	17	1,027	1,872	843	—	—	117	467	838
Saskatchewan	2	x	x	x	x	x	x	x	—	—	x	x	x
Alberta	7	x	x	x	x	x	x	x	x	x	x	x	x
British Columbia	9	54	104	185	7	674	1,084	413	4	23	75	301	558
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	121	8,200	18,228	37,790	5,719	59,117	149,555	86,076	38	171	10,362	49,927	87,541
1965													
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	1	—	—	—	x	x	x	x	—	—	x	x	x
New Brunswick	1	x	x	x	x	x	x	x	x	x	x	x	x
Quebec	48	2,983	6,814	13,579	2,317	14,383	44,397	27,886	13	62	3,522	16,567	28,093
Ontario	56	5,151	11,160	26,009	3,640	46,963	108,204	58,519	21	92	6,293	33,460	59,736
Manitoba	7	102	199	368	15	1,067	2,015	946	—	—	133	529	954
Saskatchewan	2	x	x	x	x	x	x	x	—	—	x	x	x
Alberta	10	x	x	x	x	x	x	x	x	x	x	x	x
British Columbia	8	51	96	168	6	584	1,063	475	4	26	82	344	582
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	133	9,003	19,726	43,129	6,208	68,012	168,344	93,297	41	187	10,873	54,570	96,812

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	—	—	—	—	7	26	18	3	7	1	4	18
\$ 10,000 to \$ 24,999	15	20	44	58	7	87	246	155	13	49	26	76	195
25,000 " 49,999	22	42	92	158	15	299	801	524	17	90	60	219	552
50,000 " 99,999	11	61	143	198	28	381	824	420	3	11	80	290	488
100,000 " 199,999	14	144	312	464	25	893	1,972	1,075	2	15	193	668	1,156
200,000 " 499,999	23	385	866	1,373	143	3,507	7,221	3,545	—	—	504	2,032	3,704
500,000 " 999,999	8	252	525	835	52	3,377	5,790	2,381	—	—	339	1,366	2,765
1,000,000 " 4,999,999	12	829	1,782	3,614	557	9,773	20,363	10,046	—	—	1,074	4,983	9,929
5,000,000 and over	12	6,467	14,463	31,089	4,891	40,792	112,312	67,913	—	—	7,614	37,506	68,968
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	471	2,785	(233)
Totals	121	8,200	18,228	37,790	5,719	59,117	149,555	86,076	38	171	10,362	49,927	87,541
1965													
Under \$10,000	7	—	—	—	1	16	44	27	5	13	2	8	27
\$ 10,000 to \$ 24,999	16	15	30	43	6	107	288	180	16	62	19	58	188
25,000 " 49,999	24	45	90	166	20	358	878	506	13	74	65	239	518
50,000 " 99,999	15	82	161	281	25	604	1,163	537	5	24	104	385	613
100,000 " 199,999	13	135	276	490	26	991	2,068	1,077	2	14	180	705	1,115
200,000 " 499,999	23	400	828	1,391	182	3,268	6,951	3,544	—	—	510	2,022	3,885
500,000 " 999,999	12	440	895	1,473	101	5,539	9,009	3,436	—	—	594	2,387	4,160
1,000,000 " 4,999,999	10	615	1,324	2,747	277	9,940	17,132	6,906	—	—	772	3,780	6,932
5,000,000 and over	13	7,271	16,121	36,538	5,568	47,188	130,809	79,085	—	—	8,497	43,725	79,493
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	130	1,260	(119)
Totals	133	9,003	19,726	43,129	6,208	68,012	168,344	95,297	41	187	10,873	54,570	96,812

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	10	9	20	28	3	39	100	61	7	25	13	41	101
\$ 10,000 to \$ 24,999	25	30	66	100	17	343	778	425	22	99	42	138	425
25,000 " 49,999	15	67	139	207	15	466	953	504	7	33	87	290	594
50,000 " 99,999	20	198	448	680	60	1,544	3,160	1,577	1	8	261	970	1,661
100,000 " 199,999	15	243	537	818	74	2,586	4,731	2,061	1	7	318	1,238	2,358
200,000 " 499,999	17	571	1,216	2,046	144	6,876	12,548	5,586	—	—	756	3,088	5,826
500,000 " 999,999	6	366	789	1,527	199	5,570	10,163	4,330	—	—	476	2,219	4,319
1,000,000 " 4,999,999	5	1,212	2,692	6,150	1,326	9,846	27,452	16,453	—	—	1,516	7,889	16,640
5,000,000 and over	8	5,504	12,321	26,234	3,881	31,848	89,671	55,078	—	—	6,422	31,269	55,850
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	471	2,785	(233)
Totals	121	8,200	18,228	37,790	5,719	59,117	149,555	86,076	38	171	10,362	49,927	87,541
1965													
Under \$10,000	12	3	6	8	2	39	105	65	10	27	6	20	65
\$ 10,000 to \$ 24,999	37	59	118	200	30	634	1,311	656	22	111	83	296	677
25,000 " 49,999	10	47	94	164	16	314	682	354	7	35	57	202	354
50,000 " 99,999	19	186	369	688	48	1,662	3,113	1,430	2	14	241	963	1,609
100,000 " 199,999	16	278	582	940	57	2,172	4,570	2,347	—	—	372	1,471	2,625
200,000 " 499,999	18	611	1,247	2,125	231	7,485	12,915	5,280	—	—	809	3,302	5,997
500,000 " 999,999	7	518	1,122	2,325	247	6,784	11,962	4,948	—	—	623	2,973	4,987
1,000,000 " 4,999,999	6	1,263	2,813	6,696	1,450	12,705	32,818	18,903	—	—	1,595	8,761	19,161
5,000,000 and over	8	6,038	13,373	29,983	4,128	36,217	100,868	61,315	—	—	6,957	35,321	61,460
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	130	1,260	(119)
Totals	133	9,003	19,726	43,129	6,208	68,012	168,344	95,297	41	187	10,873	54,570	96,812

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	7	3	6	7	1	21	61	41	5	16	6	15	41
\$ 10,000 to \$ 24,999	27	32	70	106	19	355	805	438	24	108	44	144	451
25,000 " 49,999	14	52	113	167	11	318	751	428	7	33	68	234	454
50,000 " 99,999	19	165	372	571	55	1,480	2,957	1,470	1	8	218	812	1,498
100,000 " 199,999	17	270	606	927	79	2,313	4,548	2,164	1	7	339	1,297	2,324
200,000 " 499,999	18	596	1,258	2,101	147	7,367	13,148	5,674	--	--	802	3,263	6,198
500,000 " 999,999	6	366	789	1,527	199	5,570	10,163	4,330	--	--	476	2,219	4,319
1,000,000 " 4,999,999	5	1,212	2,692	6,150	1,326	9,846	27,452	16,453	--	--	1,516	7,889	16,640
5,000,000 and over	8	5,504	12,321	26,234	3,881	31,848	89,671	55,078	--	--	6,422	31,269	55,850
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	471	2,785	(233)
Totals	121	8,200	18,228	37,790	5,719	59,117	149,555	86,076	38	171	10,362	49,927	87,541
1965													
Under \$10,000	12	3	6	8	2	39	105	65	10	27	6	20	65
\$ 10,000 to \$ 24,999	36	57	114	192	30	619	1,276	637	22	111	79	281	645
25,000 " 49,999	11	49	98	172	16	329	717	373	7	35	61	217	386
50,000 " 99,999	17	153	306	562	42	1,502	2,825	1,307	2	14	200	795	1,337
100,000 " 199,999	15	245	504	864	49	2,002	3,996	1,952	--	--	313	1,205	2,121
200,000 " 499,999	20	621	1,276	2,169	230	7,305	13,046	5,582	--	--	829	3,399	6,243
500,000 " 999,999	8	574	1,234	2,483	261	7,294	12,694	5,163	--	--	703	3,311	5,512
1,000,000 " 4,999,999	6	1,263	2,813	6,696	1,450	12,705	32,818	18,903	--	--	1,595	8,761	19,161
5,000,000 and over	8	6,038	13,373	29,983	4,128	36,217	100,868	61,315	--	--	6,957	35,321	61,460
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	130	1,260	(119)
Totals	133	9,003	19,726	43,129	6,208	68,012	168,344	95,297	41	187	10,873	54,570	96,812

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.....	39	46	100	150	24	502	1,134	621	33	139	63	207	634
5 - 14 employed	28	192	441	657	68	1,813	3,695	1,861	4	25	253	924	1,916
15 - 49 "	32	728	1,588	2,575	188	9,122	16,421	7,151	1	7	952	3,889	7,571
50 - 99 "	7	328	660	1,220	183	3,721	7,376	3,398	--	--	460	1,983	3,658
100-199 "	4	392	898	1,898	221	8,639	15,199	6,427	--	--	542	2,801	6,720
200-499 "	4	1,183	2,602	6,084	1,333	8,890	26,644	16,717	--	--	1,432	7,587	16,620
500 employed and over	7	5,331	11,940	25,206	3,702	26,431	79,087	49,900	--	--	6,189	29,751	50,655
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	471	2,785	(233)
Totals	121	8,200	18,228	37,790	5,719	59,117	149,555	86,076	38	171	10,362	49,927	87,541
1965													
Under 5 employed.....	49	56	112	193	33	680	1,441	739	37	165	82	290	759
5 - 14 employed	23	153	311	537	47	1,632	3,000	1,343	3	16	191	713	1,347
15 - 49 "	34	730	1,498	2,583	230	7,377	13,652	6,101	1	6	935	3,753	6,607
50 - 99 "	11	489	1,015	1,968	235	7,327	12,959	5,491	--	--	690	3,268	6,134
100-199 "	5	524	1,193	2,592	274	11,365	19,907	8,346	--	--	684	3,617	8,777
200-499 "	4	1,221	2,677	6,569	1,447	10,266	29,341	17,961	--	--	1,475	8,194	17,859
500 employed and over	7	5,830	12,919	28,688	3,942	29,366	88,045	55,316	--	--	6,686	33,474	55,448
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	130	1,260	(119)
Totals	133	9,003	19,726	43,129	6,208	68,012	168,344	95,297	41	187	10,873	54,570	96,812

TABLE 6. Principal Statistics classified by Type of Organization, 1964 and 1965

Type of organization	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													
Individual ownerships	26	46	101	160	16	366	893	514	27	126	54	184	528
Partnerships	5	5	12	16	3	74	173	96	11	45	6	18	96
Incorporated companies	90	8,149	18,115	37,614	5,699	58,677	148,489	85,465	...	...	9,831	46,940	87,149
Co-operatives .....	—	—	—	—	—	—	—	—	...	...	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	471	2,785	(233)
Totals	121	8,200	18,228	37,790	5,719	59,117	149,555	86,076	38	171	10,362	49,927	87,541
1965													
Individual ownerships	28	50	100	184	17	417	972	541	28	133	57	204	548
Partnerships	6	4	8	15	4	86	201	114	13	54	5	17	114
Incorporated companies	99	8,949	19,618	42,930	6,187	67,508	167,171	94,643	—	—	10,681	53,089	96,268
Co-operatives	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	130	1,260	(119)
Totals	133	9,003	19,726	43,129	6,308	68,012	168,344	95,297	41	187	10,873	54,570	96,812

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	149,555	168,344	10,695	14,519	160,250	182,863
Inventories—Goods of own manufacture:						
Add closing—Goods in process	970	1,182	...	...	970	1,182
Finished goods	14,686	15,797	...	...	14,686	15,797
Deduct opening—Goods in process	1,144	1,044	...	...	1,144	1,044
Finished goods	13,154	14,762	...	...	13,154	14,762
2. Net inventory change	1,358	1,173	...	...	1,358	1,173
3. Gross output (1 + 2)	150,913	169,517	10,695	14,519	161,608	184,036
Input						
4. Purchases of goods not of own manufacture .....	...	...	8,220	11,811	8,220	11,811
Inventories—Goods not of own manufacture:						
Add opening .....	...	...	960	1,061	960	1,061
Deduct closing .....	...	...	957	1,093	957	1,093
5. Cost of goods sold (not of own manufacture) .....	...	...	8,223	11,779	8,223	11,779
6. Materials, supplies, etc.	59,117	68,012	1,008	1,226	60,125	69,238
7. Fuel and electricity	5,719	6,208	...	...	5,719	6,208
8. Gross input (5 + 6 + 7)	64,836	74,220	9,231	13,005	74,067	87,225
Value added (3 - 8)	86,076	95,297	1,464	1,514	87,541	96,812

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 distri- bution	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick	x	-	-	-	-	-	-	-	x	-	x	-	-	-	x
Quebec	2,374	380	6	-	474	176	65	20	2,919	576	12,346	33	3,352	559	16,289
Ontario	3,715	822	4	-	692	335	172	47	4,583	1,204	21,816	21	6,167	1,119	29,124
Manitoba	79	10	-	-	23	3	2	-	104	13	313	-	146	8	467
Saskatchewan	x	x	-	-	x	x	x	x	x	x	x	-	x	x	x
Alberta	x	x	-	-	x	x	x	x	x	x	x	-	x	x	x
British Columbia	42	12	-	-	11	4	6	-	59	16	185	-	67	49	301
Yukon and Northwest Terri- tories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	6,694	1,506	10	-	1,276	548	259	69	8,239	2,123	37,790	53	10,255	1,828	49,927
1965															
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	x	-	-	-	x	-	-	-	x	-	x
New Brunswick	x	x	-	-	x	x	x	-	x	x	x	-	x	x	x
Quebec	2,554	429	2	-	380	80	66	11	3,002	520	13,579	10	2,434	544	16,567
Ontario	4,032	1,119	4	-	688	342	92	16	4,816	1,477	26,009	18	6,657	776	33,460
Manitoba	92	10	-	-	19	4	8	-	119	14	368	-	119	42	529
Saskatchewan	x	x	-	-	x	x	x	-	x	x	x	-	x	x	x
Alberta	x	x	-	-	x	x	x	x	x	x	x	-	x	x	x
British Columbia	42	9	-	-	18	3	10	-	70	12	168	-	120	56	344
Yukon and Northwest Terri- tories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	7,167	1,836	6	-	1,186	459	190	29	8,549	2,324	43,129	28	9,902	1,510	54,569

TABLE 9. Production and Related Workers, - Manufacturing Activity, 1964 and 1965

Month	1964		1965	
	Male	Female	Male	Female
	number			
Establishments reporting monthly detail (large establishments only):				
January	6,139	1,258	6,679	1,532
February	6,187	1,431	6,690	1,508
March	6,282	1,422	6,797	1,695
April	6,288	1,519	6,940	1,774
May	6,585	1,552	7,123	1,903
June	6,896	1,609	7,422	2,014
July	6,629	1,618	7,078	1,914
August	6,614	1,653	6,742	1,875
September	6,666	1,406	7,014	1,761
October	6,324	1,290	7,073	1,921
November	6,704	1,502	7,191	1,986
December	6,357	1,519	7,126	1,860
Averages	6,479	1,482	6,982	1,812
Establishments reporting annual averages (small establishments only)	215	24	185	24
Average for all establishments	6,694	1,506	7,167	1,836

TABLE 10. Inventories, 1965

Province	Manufacturing				Non-manufacturing	Total inventories
	Materials, supplies, etc.	Goods in process	Finished goods of own manufacture	Total	Products or materials purchased for resale	
book value \$'000						
Opening:						
Newfoundland	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	x	x	x	x	—	x
New Brunswick	—	—	—	—	—	—
Quebec	2,795	105	6,115	9,014	279	9,293
Ontario	9,118	901	7,441	17,459	771	18,230
Manitoba	286	30	27	343	5	348
Saskatchewan	x	x	x	x	—	x
Alberta	x	x	x	x	x	x
British Columbia	182	—	18	199	—	199
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	13,450	1,044	14,762	29,256	1,061	30,316
Closing:						
Newfoundland	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	x	x	x	x	—	x
New Brunswick	x	x	x	x	—	x
Quebec	3,123	113	6,295	9,531	346	9,877
Ontario	9,194	1,021	8,240	18,454	732	19,186
Manitoba	346	36	34	416	6	422
Saskatchewan	x	x	x	x	—	x
Alberta	x	x	x	x	x	x
British Columbia	193	—	20	213	—	213
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	13,901	1,182	15,797	30,880	1,093	31,973

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	—	—	—
(b) Imported	"	3,054	3,065	38
Sub-bituminous coal (from Alberta mines only)	"	—	—	—
Anthracite coal	"	2	—	—
Lignite coal	"	—	—	—
Coke	"	—	—	—
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	300,627	360,794	129
Fuel oil including kerosene or coal oil	"	26,804,781	27,236,521	2,089
Wood	cord	—	—	—
Gas:				
(a) Liquefied petroleum gases	Imp. gal.	172,766	207,504	56
(b) Other manufactured gas	M cu. ft.	—	—	—
(c) Natural gas	"	3,280,829	3,955,324	2,110
Other fuel .....	...	13	...	1
Electricity purchased	kwh.	236,662,765	265,709,397	1,710
Steam purchased .....	...	—	...	—
2. Small establishments not reporting commodity detail:				
Estimate for fuel and electricity .....	...	80	...	74
3. All establishments:				
Total fuel and electricity used .....	...	5,719	...	6,208

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

Description	1964		1965	
	Quantity	Cost \$'000	Quantity	Cost \$'000
Glass manufacturers				
1. Materials used:				
Arsenic	lb. 168,793	13	196,095	17
Barytes	" 1,361,400	32	1,572,382	38
Borax	" 30,415	2	32,354	3
Cobalt oxide	" 4,762	6	7,078	10
Chromite	ton 64	5	62	5
Cullet	" 36,973	492	32,957	464
Fluorspar	" 2,744	175	2,598	162
Lime	" 47,279	346	72,067	497
Nepheline syenite	" 33,858	572	37,825	601
Salt cake	lb. 6,527,046	111	6,561,585	115
Selenium (metal and salts)	" 6,729	31	8,643	40
Silica sand	ton 298,009	2,551	322,411	2,659
Soda ash	" 108,997	4,679	116,115	4,951
All other materials and components used .....	...	1,043	...	778
2. Containers and other packaging materials and supplies used .....	...	4,393	...	4,661
3. Operating, maintenance and repair supplies used (excluding fuel) .....	...	8,306	...	8,139
4. Amount paid out to others for work done on materials owned by establishments .....	...	159	...	116
Totals .....	...	22,916	...	23,256
Glass products manufacturers				
1. Materials used:				
Bevelled or polished edge plates .....	...	377	...	468
Bevelled or polished edge sheets .....	...	—	...	—
Figured and cathedral glass, leaded glass, etc. ....	...	44	...	33
Glass blanks for making cut glass articles .....	...	779	...	939
Glass tubing .....	...	115	...	131
Plate glass used for bevelling, silvering, laminating, etc. ....	...	13,292	...	15,740
Sheet glass used for bevelling, silvering, laminating, etc. ....	...	7,976	...	10,026
Grinding and polishing materials .....	...	166	...	219
Silver nitrate .....	...	76	...	87
All other materials and components used ¹ .....	...	11,542	...	14,603
2. Containers and other packaging materials and supplies used .....	...	1,072	...	1,442
3. Operating, maintenance and repair supplies used (excluding fuel) .....	...	674	...	1,001
4. Amount paid out to others for work done on materials owned by establishments .....	...	87	...	68
Totals .....	...	36,201	...	44,756
Grand totals .....	...	59,117	...	68,012

¹ No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$2,446,798 in 1964 and \$1,695,126 in 1965.

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

Description	Value	
	1964	1965
Glass manufacturers		
1. Products:		
Glass manufacturers:		
Pressed, blown and drawn glass (including bottles, sealers, artistic glass, window glass, etc.)	81,568	85,768
2. Amount received in payment for work done on materials and products owned by others	33	—
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above	(388)	(1,324)
Net adjustment for establishments receiving progress payments	—	—
Total adjusted value of shipments and work done	81,212	84,444
Glass products manufacturers		
1. Products:		
Mirrors:		
Plate glass	4,170	4,513
Sheet glass	1,021	1,542
Other products of glass:		
Bevelled or polished edge plate	343	330
Bevelled or polished edge sheet glass	178	231
Leaded glass, including memorial windows	319	321
Cut glass (tumblers, bowls, etc.)	1,082	1,334
Decorated glassware (including engraved, etched, sand-blasted, applied colour, etc.)	1,836	2,479
Druggists' physicians' and laboratory glassware	649	696
Insulating multi-pane window units, air seal (hermetically sealed)	12,829	12,180
Other glass products	43,201	58,906
All other products	2,102	683
2. Amount received in payment for work done on materials and products owned by others	704	743
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above	(92)	(57)
Net adjustment for establishments receiving progress payments	—	—
Total adjusted value of shipments and work done	68,343	83,900
Grand totals	149,555	168,344

TABLE 14. Shipments of Selected Goods of Own Manufacture — All Industries, 1956-1965
(Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed)
A. Metal Windows¹

Year	Aluminum	Steel	Combination storm and screen		Insulating multi-pane window units air seal (hermetically sealed)
			Aluminum	Steel	
	\$'000				
1956	13,193	5,107	6,710	2	3
1957	19,441	4,931	7,399	2	3
1958	22,416	4,245	8,877	2	3
1959	22,152	4,036	12,051	2	3
1960	11,453	5,650	15,847	2	3
1961	17,663	4,378	15,147	2	9,394
1962	17,905	4,519	13,360	2	12,506
1963	19,785	3,802	17,631	2	14,108
1964	24,852	3,159	18,907	2	16,629
1965	28,573	4,121	15,873	2	15,980

¹ Residential factory and commercial use.

² Included in "steel", column 2.

³ New category for 1960—Included in other categories previously.

TABLE 15. Principal Statistics classified by Industry Sub-groups, 1961-1965

Year and sub-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		Total employees	
		Number	Man-hours paid	Wages					Number	With drawls	Number	Salaries and wages
	No.		'000			\$'000			\$'000			\$'000
Glass manufacturers												
1961	12	5,814	12,340	22,926	4,156	21,249	68,111	44,164	x	x	7,077	29,312
1962	12	5,765	12,327	24,005	4,913	24,390	81,573	51,731	x	x	7,125	30,230
1963	12	5,873	12,910	25,724	4,661	23,355	78,123	51,644	x	x	7,293	32,675
1964	13	5,900	13,244	27,513	4,695	22,916	81,212	54,400	x	x	7,221	34,457
1965	12	6,248	13,898	30,106	4,998	23,256	84,444	56,779	x	x	7,220	35,685
Glass products manufacturers												
1961	97	1,981	4,208	7,678	810	22,402	45,044	22,082	x	x	2,725	11,651
1962	99	2,147	4,564	8,760	885	28,635	54,595	25,966	x	x	2,917	13,430
1963	99	2,228	4,725	9,554	940	31,942	61,403	28,578	x	x	3,053	14,444
1964	108	2,300	4,984	10,277	1,024	36,201	68,343	31,676	x	x	3,141	15,470
1965	121	2,755	5,828	13,023	1,210	44,756	83,900	38,518	x	x	3,653	18,884

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
Glass manufacturers	
Quebec:	
Canadian Pittsburgh Industries Ltd.	300 Ste-Croix Blvd., St-Laurent
Consumers Glass Co. Ltd.	258 Second Ave., Ville St-Pierre
Dominion Glass Company Limited	2376 Wellington St., Montreal
Iroquois Glass Ltd.	Candiac
Ontario:	
Chalet Artistic Glass Ltd.	Cornwall
Consumers Glass Co. Ltd.	249 Kipling Ave. S., Toronto
Dominion Glass Company Limited	Hamilton and Wallaceburg
Pilkington Bros. (Canada) Ltd.	350 Danforth Rd., Scarborough
Alberta:	
Altaglass	Medicine Hat
Dominion Glass Company Limited	Redcliff
Peace River Glass Company Ltd.	Fort Saskatchewan

List of Establishments Classified to This Industry, 1963

Name	Location
Glass products manufacturers	
Nova Scotia:	
Beyer Mirror Co.	82 Tulip St., Dartmouth
New Brunswick:	
Cuppens Studios Ltd.	190 Somerset St., St. John
Quebec:	
Anglo-Canadian Mercantile Co. Ltd.	1084 Church Ave., Verdun
Belgium Glass Works Reg'd.	822 2ième Ave., Pointe-aux-Trembles
Canadian Pittsburgh Industries Ltd.	255 Decarie Blvd., St-Laurent
Canadian Plate Glass and Mirror Co. Ltd.	8151 Metropolitan Blvd., Montreal
Centre du Thermo Enrg.	St-Basile-le-Grand
Columbia Frame Inc.	636 St. Paul St. W., Montreal
D. C. Glass Ltée	3640 Sabrevois St., Montreal-Nord
David, R., Cie Enrg.	6272 St-Hubert St., Montreal
Dugal Auto Glass	969 Rachel St., Montreal
Edag Crystal Co. Ltd.	9999 rue Paris, Montreal-Nord
Glass Hall Co. Ltd.	6832 Garnier St., Montreal
Glasspack Limited	708 Walnut St., Montreal 30
Imperial Glass & Mirror Mfg. Reg'd.	101 Boul. D'Anjou, Châteauguay
Insulation Manufacturers and Processors Ltd.	75 Stinson Blvd., St. Laurent
Lafayette Glass Co. Ltd.	2165 Parthenais St., Montreal
Les Industries Duovltre Ltée	467 Boul. Lamarche, Chicoutimi
Les Produits de Verri Scelle Ltée	850 Boul. des Laurentides, St. Antoine-des-Laurentides
Les Unités-Scelle Enrg.	296 de La Concorde, Montreal-Nord
Lorraine Glass Industries Ltd.	275 Murray St., Montreal
Lubbers, Theodore J. Co. Ltd.	5971 Monkland Ave., Montreal
Miroirs Laurier Ltée	Laurier Station Co. Lotbinière
Miroirs St-Antoine Inc., Les	291 Boul. des Laurentides, St-Antoine-des-Laurentides
Miroirs Victoriaville Ltée	84 rue Laurier, Victoriaville
Neon Company, The	9124 Park Ave., Montreal 11
Notre-Dame Cut Glass Co. Ltd.	686 Notre-Dame W., Montreal 3
Perfect Fiberglass & Plastic Co. Reg'd.	281 rue Laval, Chomedey
Plyplane Inc.	9900 Blvd. Ray Lawson, Ville D'Anjou
Phillips Cut Glass Co. Ltd.	2251 Papineau Ave., Montreal
Scientific Glassblowing Reg'd.	15 Moliere St., Montreal 10
Star Glass (1963) Ltd.	4040 Jean Talon St. W., Montreal
Stotter, E. Glass Products	455 Port Royal W., Montreal
Superseal Corporation	4475 Boul. Laurier, Douville
Vanhorne Glass & Mirrors Inc.	1333-1335 Vanhorne Ave., Montreal 8
Verrières du Québec Enr., Les	281, rue Darveau, Québec 8
Vitra Glass Ltée	6026 Hochelaga, Montréal
Vitrierie Bouchard Glass Inc.	7640 Lajeunesse St., Montreal
Vitrierie Canadienne Inc.	Champigny
Vitrierie Contrecoeur Enr.	Contrecoeur
Vitrierie D. C. Glass Ltée	3640 Sabrevois St., Montreal-Nord
Vitrierie Générale Daveluyville Ltée	217 rue Principale, Daveluyville
Vitrierie Magog Glass Inc.	575 Champlain, Magog
Walker Glass Co. Ltd.	9551 Ray Lawson, Ville D'Anjou
White Mirror & Glass Co. Ltd.	4081 St. Urbain St., Montréal
Winter and Company	234 Laurier Ave., W., Montreal
Ontario:	
Acadian Glass and Mirror Co.	5 Roselyn Ave., Toronto 12
Acorn Products (Canada) Ltd.	27 Penn Drive, Weston
Armalux Glass Industries Limited	17 Racine Rd., Rexdale
Beach Neon	54 Alice Crescent, Scarborough
Belgium Mirror and Glass Co.	1057 Eglinton Ave. W., Toronto
Canadian Pittsburgh Industries Ltd.	59 York St., London
Chimes Glass & Mirror Ltd.	435 Spadina Ave., Toronto
Clapperton and Sons Ltd.	23 River St., Toronto 2
Corning Glass Works of Canada Ltd.	145 Vanderhoof Ave., Toronto
Crystal Manufacturing Co. Ltd.	215 Toronto Ave., Oshawa
Cutler Brands Limited	126 Geary Ave., Toronto
DePaoli Industries	542 Brant St., Windsor
Dual-Pane Company Limited	3174 Walker Rd., Windsor
Duplicate Canada Ltd.	166 South Service Rd., Oakville
Duplicate Canada Ltd.	First Ave., Oshawa
Duplicate Canada Ltd.	1850 Walker Rd., Windsor
Dupont Neon	82 Power St., Toronto
Eleyda Corp. Limited	66 Penn Drive, Weston
Emerald Glass Co. Ltd.	2 Thorncliffe Pk. D., Toronto
Excelsior Glass Limited	17 Lesmill Rd., Don Mills
Flex-O-Lite of Canada Ltd.	15 Ontario Rd., St. Thomas
Ford Motor Co. of Canada Ltd.	Crowland Township Welland County
Goldfish Supply Co. Ltd.	39 Albert St., Stouffville
Heliophane Co. Ltd., The	418 Kipling Ave., S., Toronto 18
Hughes, W. J. and Sons "Corn Flower" Ltd.	102 Tycos Drive, Toronto 10
Johns, O. H. Glass Co. Ltd.	219 Broadview Ave., Toronto 8
Lipman Sterling Limited	41 Peter St., Toronto
London Glass and Mirror Co.	679 York St., London
Luxfer Studios, The	162 Parliament St., Toronto
McCausland, Robert, Ltd.	30 Chauncey Ave., Toronto 18
McConnell Glass Ltd.	164 St. Patrick St., Stratford
Morawiec, Jan	3 McMurray Ave., Toronto 9
North American Glass Industries Ltd.	18 Rivalda Rd., Weston
Owens-Illinois of Canada Ltd.	50 Belfield Rd., Rexdale
Pilkington Bros. (Canada) Ltd.	1111 Millwood Rd., Toronto
Precision Glass Co. Ltd.	121 Judge Rd., Toronto
Pringle & London Studios	162 Parliament St., Toronto

List of Establishments classified to This Industry, 1965 - Concluded

Name	Location
Glass products manufacturers - Concluded	
Ontario - Concluded:	
Queen City Glass (Toronto) Ltd.	243 Victoria St., Toronto
Robeson P. A. Aquarlums	1932 Mattawa Ave., Cooksville
Seallite-Glass Ltd.	247 Bridgeland Ave., Toronto
Service Glass and Mirror Ltd.	1185 Roselawn Ave., Toronto
Smith, Kenneth M., Co. Ltd., The	30 Industrial St., Toronto
Smits and Ramsdale	Markham
Star Aquarium Products	70 Belfield Rd., Rexdale
Sterelo Glass & Mirrors Ltd.	357 Wilson Ave., Downsview
Strathroy Glass Ltd.	Strathroy
Thermo-Rite Manufacturing Co., The	134 Hartzel Rd., St. Catharines
Tooke, Gerald E.	19 New St., Toronto
Toronto Glass and Mirror Ltd.	67 Racine Rd., Rexdale
Wheaton Glass Co. of Canada Ltd.	Brampton
X. L. Glass Co.	56 King St. W., Hamilton
Manitoba:	
Allmar Distributors Ltd.	11 Higgins Ave., Winnipeg 2
Brooker Window Ltd.	602 Des Meurons St., St. Boniface
Parmount Glass and Millwork Ltd.	105 Panet Rd., St. Boniface
Seal-Dow Ltd.	1565 Seel Ave., Winnipeg 19
Structural Glass Ltd.	466 Higgins Ave., Winnipeg 2
Tru-Vu Industries Ltd.	1090 Pacific Ave., Winnipeg 3
Westcan Industries Ltd.	309 Elgin Ave., Winnipeg
Saskatchewan:	
Canadian Pittsburgh Industries Ltd.	376 Manitoba St. W., Moose Jaw
Solarpane Manufacturing Co. Ltd.	500-10th Ave. E., Regina
Alberta:	
Avanti Art and Glass Co.	2012-10th Ave. N. E., Calgary
Esterglass Products Ltd.	11929-156th St., Edmonton
Continental Glass Mfg. Co. Ltd.	215-35th Ave. N. W., Calgary
Custom Glass Ltd.	11402-105th Ave., Edmonton
Perma-Seal Glass Ltd.	11688-147th St., Edmonton
Vroom Art Studios Ltd.	2135 Kensington Rd., Calgary
Winter Art Glass Studio	Edmonton Industrial Airport, Edmonton
British Columbia:	
Fraser, J., Glass Works	2132 Granville St., Vancouver
Hastings Glass and Mirrors	1150 E. Cordova St., Vancouver
Kam-Seal Mfg. Ltd.	Highway 5, Kamloops
Model Glass Shop	1751 Kingsway, Vancouver
Sams Art Glass	2137 New St., Vancouver
Vancouver Scientific Glassblowing	530 West-15th Ave., Vancouver 9
Wallin's Glass Co. Ltd.	1069 S. W. Marine Drive, Vancouver
Western Glass Co. Ltd.	891 Main St., Vancouver

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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