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GLASS AND GLASS PRODUCTS MANUFACTURERS 1963

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GLASS AND GLASS PRODUCTS MANUFACTURERS

1963

Data presented in this report under the heading of Glass and Glass Products Manufacturers reflect implementation of the revised Standard Industrial Classification (S.I.C.) and the New Establishment Concept which are being used by the Dominion Bureau of Statistics in its compilations of industry statistics—see items "Standard Industrial Classification" and "Establishment" in the Explanatory Notes section of this report.

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, 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 the Scientific and Professional Equipment Manufacturers industry, and establishments primarily engaged in spinning glass yarns or weaving glass fabrics are classified to the Synthetic Textile Mills industry.

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 A. Principal Statistics classified by Province, 1962 and 1963

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		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	Withdrawals	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													
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—	—	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—	—	—	—	—	—	—	—
Quebec	31	2,707	5,832	10,693	2,541	11,613	37,029	22,527	11	49	3,450	14,171	22,743
Ontario	57	4,367	9,357	19,000	3,097	35,437	85,116	47,348	25	92	5,583	25,523	48,791
Manitoba	7	74	145	225	10	732	1,308	567	—	—	96	350	589
Saskatchewan	2	733	1,492	2,729	148	4,942	12,130	6,968	x	x	864	3,412	6,973
Alberta	7								x	x			
British Columbia	7	31	64	118	3	302	585	286	x	x	49	204	380
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
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													
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—	—	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—	—	—	—	—	—	—	—
Quebec	35	2,727	6,157	11,554	2,076	12,237	37,433	24,248	10	47	3,459	15,370	24,565
Ontario	53	4,494	9,632	20,356	3,270	36,423	86,501	47,220	17	72	5,742	27,353	48,103
Manitoba	7	131	275	431	17	1,948	3,253	1,276	—	—	169	613	1,270
Saskatchewan	2												
Alberta	7	717	1,508	2,825	234	4,246	11,626	7,212	x	x	848	3,465	7,215
British Columbia	7	32	62	112	4	442	713	266	x	x	128	318	371
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	111	8,101	17,634	35,270	5,801	55,297	139,526	80,222	32	143	10,346	47,120	81,524

TABLE 1 B. Principal Statistics classified by Size Groups based on Shipments of Goods of Own Manufacture, 1962 and 1963

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		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Under \$10,000.....	4	1	2	2	-	6	20	14	4	10	1	2	14
\$ 10,000 to \$ 24,999.....	15	22	40	60	8	101	283	177	14	49	28	83	180
25,000 " 49,999.....	19	54	109	170	12	275	686	400	14	52	73	257	458
50,000 " 99,999.....	10	56	115	155	10	303	688	367	4	17	83	274	424
100,000 " 199,999.....	14	182	400	569	42	806	1,993	1,172	1	4	226	770	1,211
200,000 " 499,999.....	23	406	872	1,261	89	3,751	7,139	3,378	4	30	558	2,114	3,870
500,000 " 999,999.....	9	356	747	1,205	111	3,624	7,059	3,424	—	—	459	1,842	4,101
1,000,000 " 4,999,999.....	7	925	1,948	4,118	955	6,909	17,716	10,001	—	—	1,134	5,240	9,894
5,000,000 and over.....	10	5,910	12,659	25,224	4,570	37,250	100,584	58,764	—	—	6,913	30,563	59,431
Head offices, sales offices and auxiliary units.....	...	...	...	...	...	...	...	...	...	...	587	2,515	(104)
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													
Under \$10,000.....	3	—	—	—	—	6	13	7	3	5	—	—	7
\$ 10,000 to \$ 24,999.....	15	17	35	55	6	97	249	147	13	45	21	85	164
25,000 " 49,999.....	17	48	98	161	9	278	663	382	10	58	62	218	383
50,000 " 99,999.....	13	99	199	287	31	494	1,071	550	3	12	126	398	606
100,000 " 199,999.....	11	140	288	443	24	737	1,649	894	1	5	179	613	973
200,000 " 499,999.....	23	402	856	1,323	111	3,427	6,797	3,246	2	18	558	2,132	3,548
500,000 " 999,999.....	11	377	784	1,343	123	4,448	8,334	3,780	—	—	534	2,165	4,085
1,000,000 " 4,999,999.....	9	1,344	2,943	6,348	1,268	9,973	26,724	15,398	—	—	1,655	8,081	15,415
5,000,000 and over.....	9	5,674	12,430	25,316	4,029	35,838	94,027	55,819	—	—	6,672	30,785	56,460
Head offices, sales offices and auxiliary units.....	...	...	...	...	...	...	...	...	...	...	539	2,663	(117)
Totals.....	111	8,101	17,634	35,278	5,601	55,297	139,526	80,222	32	143	10,346	47,120	81,524

TABLE 1 C. Principal Statistics classified by Size Groups based on Manufacturing Value Added, 1962 and 1963

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		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Under \$10,000.....	11	10	16	22	3	54	128	70	11	30	12	29	70
\$ 10,000 to \$ 24,999.....	26	55	116	177	17	348	844	472	18	71	81	290	532
25,000 " 49,999.....	10	58	114	163	9	255	620	358	7	27	77	250	410
50,000 " 99,999.....	16	185	411	568	36	1,254	2,498	1,218	3	17	221	785	1,216
100,000 " 199,999.....	20	374	796	1,127	101	3,224	6,076	2,849	2	17	531	1,991	4,027
200,000 " 499,999.....	9	312	665	1,051	53	3,081	5,956	2,880	—	—	378	1,414	2,912
500,000 " 999,999.....	6	337	729	1,328	193	4,261	8,308	3,929	—	—	453	2,041	3,920
1,000,000 " 4,999,999.....	6	1,203	2,585	5,495	1,282	11,400	27,916	15,837	—	—	1,546	7,445	15,959
5,000,000 and over.....	7	5,376	11,459	22,836	4,104	29,148	83,820	50,084	—	—	6,176	26,898	50,534
Head offices, sales offices and auxiliary units.....	...	...	...	...	...	...	...	...	...	...	567	2,515	(104)
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													
Under \$10,000.....	12	9	19	26	4	100	169	72	10	31	10	30	71
\$ 10,000 to \$ 24,999.....	19	33	68	111	9	276	606	321	16	77	42	139	339
25,000 " 49,999.....	13	75	151	227	13	515	961	441	3	12	99	321	501
50,000 " 99,999.....	18	199	404	606	49	1,383	2,746	1,309	—	—	269	935	1,504
100,000 " 199,999.....	19	351	732	1,142	85	2,991	5,841	2,741	3	23	506	1,953	3,160
200,000 " 499,999.....	11	379	824	1,326	96	4,294	7,763	3,374	—	—	474	1,819	3,434
500,000 " 999,999.....	5	336	717	1,351	192	3,831	6,685	2,907	—	—	434	1,850	2,901
1,000,000 " 4,999,999.....	7	1,292	2,798	6,362	1,327	13,999	35,204	18,825	—	—	1,686	8,772	20,116
5,000,000 and over.....	7	5,427	11,921	24,127	3,828	28,108	79,550	49,233	—	—	6,287	28,637	49,616
Head offices, sales offices and auxiliary units.....	...	...	...	...	...	...	...	...	...	...	539	2,663	(117)
Totals.....	111	8,101	17,634	35,278	5,601	55,297	139,526	80,222	32	143	10,346	47,120	81,524

TABLE 1 D. Principal Statistics classified by Size Groups based on Total Value Added, 1962 and 1963

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		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Under \$10,000.....	11	10	16	22	3	54	128	70	11	30	12	29	70
\$ 10,000 to \$ 24,999.....	23	44	92	138	15	317	748	410	18	71	62	200	413
25,000 " 49,999.....	11	56	113	161	9	262	620	351	7	27	68	201	368
50,000 " 99,999.....	18	198	438	608	39	1,279	2,595	1,287	3	17	255	924	1,376
100,000 " 199,999.....	16	262	574	804	76	2,358	4,492	2,137	2	17	350	1,228	2,209
200,000 " 499,999.....	12	377	793	1,238	63	3,622	7,005	3,399	—	—	485	1,877	3,856
500,000 " 999,999.....	7	384	822	1,463	208	4,585	8,844	4,123	—	—	521	2,342	4,794
1,000,000 " 4,999,999.....	6	1,203	2,585	5,495	1,282	11,400	27,916	15,837	—	—	1,546	7,445	15,959
5,000,000 and over.....	7	5,378	11,459	22,836	4,104	29,148	83,820	50,084	—	—	6,176	26,898	50,534
Head offices, sales offices and auxiliary units.....	—	—	—	—	—	—	—	—	—	—	567	2,515	(104)
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													
Under \$10,000.....	12	9	19	26	4	100	169	72	10	31	10	30	71
\$ 10,000 to \$ 24,999.....	18	30	62	100	9	272	590	309	16	77	38	122	309
25,000 " 49,999.....	13	63	129	198	9	380	810	420	3	12	84	284	438
50,000 " 99,999.....	16	160	321	485	46	1,344	2,483	1,105	—	—	205	685	1,165
100,000 " 199,999.....	18	302	645	1,005	68	2,172	4,652	2,396	3	23	399	1,482	2,466
200,000 " 499,999.....	15	482	1,022	1,625	119	5,291	9,383	3,956	—	—	664	2,594	4,561
500,000 " 999,999.....	5	336	717	1,351	192	3,631	6,685	2,907	—	—	434	1,850	2,901
1,000,000 " 4,999,999.....	7	1,292	2,798	6,362	1,327	13,999	35,204	19,825	—	—	1,686	8,772	20,116
5,000,000 and over.....	7	5,427	11,921	24,127	3,828	28,108	79,550	49,233	—	—	6,287	28,637	49,616
Head offices, sales offices and auxiliary units.....	—	—	—	—	—	—	—	—	—	—	539	2,663	(117)
Totals.....	111	8,101	17,634	35,278	5,601	55,297	139,526	80,222	32	143	10,346	47,120	81,524

TABLE 1 E. Principal Statistics classified by Size Groups based on Total Employed, 1962 and 1963

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		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Under 5 employed.....	29	36	71	101	13	304	730	410	30	104	44	130	415
5- 14 ".....	29	185	414	596	46	1,597	3,123	1,483	8	37	240	863	1,536
15- 49 ".....	33	685	1,453	2,170	143	6,560	12,713	6,173	3	22	922	3,533	6,756
50- 99 ".....	5	235	480	858	163	2,003	4,430	2,325	—	—	320	1,399	3,004
100-199 ".....	4	372	804	1,504	210	7,047	11,565	4,845	—	—	505	2,265	5,062
200-499 ".....	4	1,021	2,210	4,701	1,120	6,365	19,786	12,377	—	—	1,268	6,057	12,275
500 employed and over.....	7	5,378	11,459	22,836	4,104	29,148	83,820	50,084	—	—	6,176	26,898	50,534
Head offices, sales offices and auxiliary units.....	—	—	—	—	—	—	—	—	—	—	567	2,515	(104)
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													
Under 5 employed.....	33	47	97	150	14	414	877	455	26	108	59	195	472
5- 14 ".....	23	157	323	504	36	1,682	3,096	1,373	3	12	211	741	1,369
15- 49 ".....	34	737	1,566	2,483	183	7,524	14,482	6,767	3	23	973	3,776	7,165
50- 99 ".....	7	338	720	1,234	198	3,439	6,546	2,916	—	—	484	2,014	3,248
100-199 ".....	3	320	701	1,515	193	6,957	12,045	5,034	—	—	446	2,295	5,282
200-499 ".....	4	1,075	2,366	5,266	1,150	7,173	22,929	14,444	—	—	1,347	6,798	14,490
500 employed and over.....	7	5,427	11,921	24,126	3,828	28,108	79,550	49,233	—	—	6,287	28,637	49,616
Head offices, sales offices and auxiliary units.....	—	—	—	—	—	—	—	—	—	—	539	2,663	(117)
Totals.....	111	8,101	17,634	35,278	5,601	55,297	139,526	80,222	32	143	10,346	47,120	81,524

TABLE 1 F. Principal Statistics classified by Type of Organization, 1962 and 1963

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		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Individual ownerships	24	50	93	148	13	325	766	430	26	88	57	175	432
Partnerships	7	38	105	131	8	328	719	390	15	75	43	151	391
Incorporated companies	80	7,824	16,693	32,485	5,777	52,372	134,683	76,877	—	—	9,375	40,818	78,758
Cooperatives	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	567	2,515	(104)
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													
Individual ownerships	20	32	66	106	9	245	594	340	21	87	37	117	340
Partnerships	5	23	46	80	6	181	441	254	11	55	26	104	254
Incorporated companies	86	8,046	17,522	35,091	5,587	54,871	138,491	79,628	—	—	9,744	44,236	81,047
Cooperatives	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	539	2,663	(117)
Totals	111	8,101	17,634	35,278	5,601	55,297	139,526	80,222	32	143	10,346	47,120	81,524

TABLE 2. Industry Output, Input and Value Added, 1962 and 1963

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1962	1963	1962	1963	1962	1963
	\$'000					
Output						
1. Shipments and other revenue	136,168	139,526	8,542	7,414	144,710	146,940
Inventories—Goods of own manufacture:						
Add closing—Goods in process	1,180	1,136	...	...	1,180	1,136
Finished goods	11,592	13,038	...	...	11,592	13,038
Less opening—Goods in process	1,085	1,143	...	...	1,085	1,143
Finished goods	11,334	11,437	...	...	11,334	11,437
2. Net inventory change	353	1,594	...	...	353	1,594
3. Gross output (1 + 2)	136,521	141,120	8,542	7,414	145,063	148,534
Input						
4. Purchases of goods not of own manufacture .....	...	...	5,802	5,200	5,802	5,200
Inventories—Goods not of own manufacture:						
Add opening .....	...	...	1,061	895	1,061	895
Less closing .....	...	...	648	957	648	957
5. Cost of goods sold (not of own manufacture) .....	...	...	6,215	5,138	6,215	5,138
6. Materials, supplies, components and semi-processed goods	53,025	55,297	549	974	53,574	56,271
7. Fuel and electricity	5,798	5,601	...	...	5,798	5,601
8. Gross input (5 + 6 + 7)	58,823	60,898	6,764	6,112	65,587	67,010
Census value added (3-8)	77,697	80,222	1,778	1,302	79,476	81,524

TABLE 3. Employment and Payroll, 1962 and 1963

Year and province	Employees										Salaries and wages				
	Production and related workers				Adminis- trative and office		Sales and distribution		Total employees		Production and related workers		Adminis- trative and office	Sales and distri- bution	Total salaries and wages
	Manufacturing		Other												
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Manufacturing	Other			
number										\$'000					
1962															
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Quebec	2,349	358	16	—	406	164	94	43	2,865	585	10,693	78	2,938	462	14,171
Ontario	3,528	839	8	—	648	304	212	44	4,396	1,187	19,000	37	5,446	1,040	25,522
Manitoba	64	10	—	—	16	4	2	—	82	14	225	—	112	12	350
Saskatchewan	453	280	2	—	73	28	27	1	555	309	2,729	5	544	134	3,412
Alberta															
British Columbia	26	5	—	—	9	3	6	—	41	8	118	—	53	33	204
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	6,420	1,492	26	—	1,152	523	341	88	7,939	2,103	32,765	120	9,093	1,661	43,660
1963															
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Quebec	2,347	380	33	—	448	180	57	14	2,885	574	11,554	142	3,221	453	15,370
Ontario	3,672	822	17	—	677	331	181	42	4,547	1,195	20,356	66	5,890	1,040	27,353
Manitoba	107	24	—	—	27	8	3	—	137	32	431	—	168	14	613
Saskatchewan															
Alberta	449	268	14	—	70	27	19	1	552	296	2,825	19	507	114	3,465
British Columbia	28	4	—	—	9	3	68	16	105	23	112	—	60	147	318
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	6,603	1,498	64	—	1,231	549	328	73	8,226	2,120	35,278	228	9,845	1,768	47,120

TABLE 3 A. Production and Related Workers,—Manufacturing Activity, by Months, 1962 and 1963

Month	Establishments reporting monthly detail			
	1962		1963	
	Male	Female	Male	Female
	number			
January	6,209	1,485	6,240	1,433
February	6,382	1,509	6,162	1,447
March	6,364	1,602	6,322	1,554
April	6,515	1,563	6,336	1,534
May	6,441	1,585	6,594	1,538
June	6,953	1,696	6,878	1,576
July	6,652	1,689	6,640	1,646
August	4,842	1,051	6,340	1,543
September	4,855	1,021	6,358	1,297
October	5,925	1,112	6,327	1,333
November	6,660	1,600	6,182	1,415
December	6,608	1,580	6,259	1,375
Average for establishments reporting monthly detail (collected only for large establishments)	6,200	1,460	6,390	1,476
Average for small establishments (only annual averages collected)	220	32	213	22
Average for all establishments	6,420	1,492	6,603	1,498

TABLE 4. Industry Inventories¹, 1963

Province	Manufacturing				Non-manufacturing	Total inventories
	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total manufacturing	Products or materials purchased for resale	
book value \$'000						
Opening:						
Newfoundland	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—
Quebec	2,799	89	5,776	8,664	260	8,924
Ontario	7,174	1,043	5,628	13,846	630	14,475
Manitoba	540	10	20	570	—	570
Saskatchewan						
Alberta	709	—	925	1,635	5	1,641
British Columbia	94	1	2	97	—	97
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	11,317	1,143	12,351	24,811	895	25,706
Closing:						
Newfoundland	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—
Quebec	2,768	92	8,070	10,930	212	11,143
Ontario	7,672	1,039	6,045	14,756	741	15,497
Manitoba	575	4	13	592	—	592
Saskatchewan						
Alberta	679	1	991	1,671	4	1,675
British Columbia	122	—	1	123	—	123
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	11,816	1,136	15,120	28,072	957	29,030

TABLE 5. Purchased Fuel and Electricity Used in Manufacturing Activity, 1962 and 1963

Description	1962		1963	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Large establishments which reported commodity detail:				
Bituminous coal:				
(a) From Canadian mines	ton	27	—	—
(b) Imported	"	2,000	2,795	33
Sub-bituminous coal (from Alberta mines only)	"	—	—	—
Anthracite coal	"	8	2	—
Lignite coal	"	—	40	—
Coke	"	—	—	—
Gasoline (including gasoline used in cars and trucks) ..	Imp. gal.	260,252	325,360	116
Fuel oil including kerosene or coal oil	"	32,091,143	28,305,929	2,063
Wood	cord	—	—	—
Gas:				
(a) Liquefied petroleum gases	Imp. gal.	110,552	118,992	29
(b) Other manufactured gas	M cu. ft.	—	—	—
(c) Natural gas	"	2,112,237	4,030,332	1,828
Other fuel .....	...	13	...	12
Electricity purchased	kwh.	218,272,532	225,910,332	1,463
Steam purchased .....	...	—	—	—
2. Estimate for small establishments:				
Fuel and electricity .....	...	61	...	57
3. All establishments:				
Total fuel and electricity used .....	...	5,798	...	5,601

¹The difference between figures in this table and those in Table 2 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 2. See also "Concepts and Definitions" for explanation of other variances.

TABLE 6. Materials and Supplies — Manufacturing Activity, 1962 and 1963

Description	1962		1963	
	Quantity	Cost \$'000	Quantity	Cost \$'000
Glass manufacturers				
1. Materials used:				
Arsenic	lb. 179,163	12	172,404	12
Barytes	" 1,256,256	35	1,675,022	38
Borax	" 532,535	32	29,956	2
Cobalt oxide	" 4,779	6	5,864	8
Chromite	" 86	7	84	5
Cullet	" 59,746	741	42,417	552
Fluorspar	" 1,157	78	1,968	128
Lime	" 64,288	649	60,320	440
Nepheline syenite	" 35,864	570	33,838	541
Salt cake	lb. 6,051,500	103	6,069,156	102
Selenium (metal and salts)	" 6,729	40	6,691	34
Silica sand	ton 341,649	3,241	329,563	2,929
Soda ash	" 116,639	5,127	107,845	4,615
All other materials and components used	"	390	"	492
2. Containers and other packaging materials and supplies used	"	5,144	"	4,537
3. Operating, maintenance and repair supplies used (excluding fuel)	"	8,147	"	8,867
4. Amount paid out to others for work done on materials owned by establishments	"	67	"	54
Totals	"	24,390	"	23,355
Glass products manufacturers				
1. Materials used:				
Bevelled or polished edge plates	"	455	"	453
Bevelled or polished edge sheets	"	20	"	—
Figured and cathedral glass, leaded glass, etc.	"	21	"	43
Glass blanks for making cut glass articles	"	625	"	696
Glass tubing	"	66	"	66
Plate glass used for bevelling, silvering, laminating, etc.	"	10,649	"	11,911
Sheet glass used for bevelling, silvering, laminating, etc.	"	5,227	"	6,389
Grinding and polishing materials	"	249	"	157
Silver nitrate	"	48	"	88
All other materials and components used ¹	"	9,772	"	10,567
2. Containers and other packaging materials and supplies used	"	999	"	1,019
3. Operating, maintenance and repair supplies used (excluding fuel)	"	468	"	560
4. Amount paid out to others for work done on materials owned by establishments	"	37	"	13
Totals	"	28,635	"	31,842
Grand totals	"	53,025	"	55,297

¹ No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$1,772,600 in 1962 and \$2,127,293 in 1963.

TABLE 7. Shipments of Goods of Own Manufacture, 1962 and 1963

Description	Value	
	1962	1963
\$'000		
Glass manufacturers		
1. Products:		
Glass manufacturers:		
Pressed, blown and drawn glass (including bottles, sealers, artistic glass, window glass, etc.)	81,876	78,439
2. Amount received in payment for work done on materials and products owned by others	—	—
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above	(303)	(315)
Net adjustment for establishments receiving progress payments	—	—
Total adjusted value of shipments and work done	81,573	78,123
Glass products manufacturers		
1. Products:		
Mirrors:		
Plate glass	3,216	3,684
Sheet glass	1,075	1,122
Other products of glass:		
Bevelled or polished edge plate	131	151
Bevelled or polished edge sheet glass	111	172
Leaded glass, including memorial windows	391	298
Cut glass (tumblers, bowls, etc.)	1,086	917
Decorated glassware (including engraved, etched, sand-blasted, applied colour, etc.)	1,859	1,632
Druggists', physicians' and laboratory glassware	475	460
Insulating multi-pane window units, air seal (hermetically sealed)	8,788	10,060
Other glass products	35,787	40,887
All other products	1,112	1,359
2. Amount received in payment for work done on materials and products owned by others	715	782
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above	(152)	(100)
Net adjustment for establishments receiving progress payments	—	—
Total adjusted value of shipments and work done	54,595	61,403
Grand totals	136,168	139,526

TABLE 8. Shipments of Selected Goods of Own Manufacture — All Industries, 1954 — 63
(Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed)
A. Metal Windows ¹

Year	Aluminum	Steel	Combination storm and screen		Insulation multi-pane window units air seal (hermetically sealed)
			Aluminum	Steel	
			\$'000		
1954	7,192	3,414	4,098	628	2
1955	12,304	2,903	5,686	720	2
1956	13,193	5,107	6,710	3	2
1957	19,441	4,931	7,399	3	2
1958	22,416	4,245	8,877	3	2
1959	22,152	4,036	12,051	3	2
1960	11,453	5,650	15,847	2	2
1961	17,663	4,378	15,147	3	9,394
1962	17,905	4,043	13,360	3	12,506
1963	19,785	3,693	18,717	3	14,108

¹ Residential, factory and commercial use.

² New category for 1960 — Included in other categories previously.

³ Included in "steel", column 2.

TABLE 9. Principal Statistics classified by Industry Sub-groups, 1961 — 63

Year and sub-group	Estab-lishments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elect-ricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	With draws	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	44,338
1962	12	5,765	12,327	24,005	4,913	24,390	81,573	51,731	x	x	7,125	30,230	52,051
1963	12	5,873	12,910	25,724	4,661	23,355	78,123	51,644	x	x	7,293	32,675	51,999
Glass products manufacturers													
1961	97	1,981	4,208	7,678	810	22,402	45,044	22,082	x	x	2,725	11,651	24,000
1962	99	2,147	4,564	8,760	885	28,635	54,595	25,966	x	x	2,917	13,430	27,434
1963	99	2,228	4,725	9,554	940	31,942	61,403	28,578	x	x	3,053	19,444	29,355

List of Establishments classified to This Industry, 1963

(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 Co. 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	Fort Saskatchewan
Glass products manufacturers	
Quebec:	
Anglo-Canadian Mercantile Co. Ltd.	1084 Church Ave., Verdun
Belgian Glass Works Reg'd.	Pointe-Aux-Trembles
Canadian Pittsburgh Industries Ltd.	255 Decarie Blvd., St-Laurent
Canadian Plate Glass and Mirror Co. Ltd.	8151 Metropolitan Blvd., Montreal
Columbia Frame Inc.	636 St. Paul St. W., Montreal
D.C. Glass Ltee.	3640 Sabrevois St., Montreal Nord
David, R., Cie. Entg.	6272 St-Hubert St., Montreal
Dugal Auto Glass	969 Rachel St., Montreal
Glass Hall Co. Ltd.	6832 Garnier, Montreal
Glasspack Limited	708 Walnut St., Montreal
Insulation Manufacturers and Processors Ltd.	75 Stinson Blvd., St. Laurent
Lafayette Glass Co. Ltd.	2165 Parthenais, Montreal
Les Unites-Scelles Entg.	6302 Goyin Blvd. E., Montreal
Lorraine Glass Industries Ltd.	275 Murray St., Montreal
Lubbers, Theodore J., Co. Inc.	5971 Monkland Ave., Montreal
Magog Glass Co. Inc.	Magog

List of Establishments classified to This Industry, 1963 - Concluded

Name	Location
Glass products manufacturers - Concluded	
Quebec - Concluded:	
Miroirs Laurier Ltée.	Laurier Station
Miroir Victoria Ville Ltée.	Victoriaville
Nouveates Mondiales Inc.	2315 Robert St., Montreal
Plypane Inc.	Anjou
Phillips Cut Glass Co. Ltd.	2251 Papineau Ave., Montreal
Star Glass (1963) Ltd.	4040 Jean Talon St. W., Montreal
Vitra Glass Ltée.	6026 Hochelaga, Montreal
Vitrierie Bouchard Glass Inc.	7640 Lajeunesse St., Montreal
Vitrierie Canadienne Inc.	Champigny
Vitrierie Contrecoeur Enrg.	Contrecoeur
Vitrierie D.C. Glass Ltée.	3640 Sabrevois St., Montreal
Vitrierie General Enrg.	Daveluyville
Walker Glass Co. Ltd.	Anjou
White Mirror and Glass Company	4081 St-Urbain St., Montreal
Winter and Company	234 Laurier Ave. W., Montreal
Ontario:	
Acadian Glass and Mirror Co.	5 Roslyn Ave., Toronto
Armalux Glass Industries Limited	17 Racine Rd., Rexdale
Bahnair of Canada Ltd.	208 Pellatt Ave., Weston
Beach Neon	54 Alice Crescent, Scarborough
Belgium Mirror and Glass Co.	1057 Eglinton Ave., W., Toronto
Canadian Pittsburgh Industries Ltd.	59 York St., London
Clapperton and Sons Ltd.	23 River St., Toronto
Corning Glass Works of Canada Ltd.	135 Vanderhoof Ave., Leaside
Cutler Brands Limited	126 Geary Ave., Toronto
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
Emerald Glass Co.	544 Rogers Rd., Toronto
Excelsior Glass Limited	127 Rivilda Rd., Weston
Extralite Glass Industries Ltd.	300 Bridgeland Ave., Toronto
Flex-O-Lite of Canada Ltd.	St. Thomas
Ford Motor Co. of Canada Ltd.	Niagara Falls
Goldfish Supply Co. Ltd.	Stouffville
Holiday Flint Glass Ltd.	103 River St., Toronto
Holophane Co. Ltd., The	418 Kipling Ave., Etobicoke
Hughes, W.J., and Sons "Corn Flower" Ltd.	102 Tycos Drive, Toronto
Johns, O.H. Glass Co. Ltd.	219 Broadview Ave., Toronto
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.	214 John St., Toronto
McConnell Glass Ltd.	Stratford
Monogram Glass Co. of Canada Ltd.	Cornwall
North American Glass Industries Ltd.	18 Rivalda Rd., Weston
Posal Industries, De	542 Brant St., Windsor
Pilkington Bros. (Canada) Ltd.	1111 Millwood Rd., Toronto
Precision Glass Co. Ltd.	121 Judge Rd., Toronto
Pringle and London Studios	162 Parliament St., Toronto
Queen City Glass Company Limited	243 Victoria St., Toronto
Sealite-Glass Ltd.	247 Bridgeland Ave., Toronto
Service Glass and Mirror Ltd.	1185 Roselawn Ave., Toronto
Sheriff, R.G., Limited	216 Adelaide St. W., Toronto
Smith, Kenneth M., Co. Ltd.	30 Industrial St., Toronto
Smits and Ramsdale	Markham
Southwick Industries	Oakville
Star Aquarium Products	70 Belfield Rd., Rexdale
Strathroy Glass Ltd.	Strathroy
Thermo Rite Manufacturing Co.	134 Hartzel Rd., St. Catharines
Tooke, Gerald E.	19 New St., Toronto
Toronto Glass and Mirror Ltd.	67 Racine Rd., Rexdale
X.L. Glass Co.	56 King St. W., Hamilton
Manitoba:	
Allmar Distributors Ltd.	11 Higgins Ave., Winnipeg
Brooker Window Ltd.	602 Des Meurons St., St. Boniface
Parmount Glass and Millwork Ltd.	362 Panet Rd., St. Boniface
Seal-Dow Ltd.	Fennell and Somerville Sts., Fort Garry
Structural Glass Ltd.	477 Henry Ave., Winnipeg
Tru-Vu Windows Ltd.	1855 Sargent Ave., St. James
Westcan Industries Ltd.	309 Elgin Ave., Winnipeg
Saskatchewan:	
Canadian Pittsburgh Industries Ltd.	376 Manitoba St. W., Moose Jaw
Solarpane Manufacturing Co. Ltd.	404 - 18th Ave. E., Regina
Alberta:	
Continental Glass Mfg. Co. Ltd.	201 - 35th Ave. N.E., Calgary
Custom Glass Ltd.	11402 - 105th Ave., Edmonton
Para Glass Ltd.	4235 - 16th St. S.E., Calgary
Winter Art Glass Studio	Edmonton Industrial Airport, Edmonton
British Columbia:	
Fraser, J., Glass Works	2132 Granville St., Vancouver
Hastings Glass and Mirrors	1146 E. Cordova St., Vancouver
Prince George Glass Works Ltd.	Prince George
Seaboard Chemicals Ltd.	1050 West 6th Ave., Vancouver
Sehick, Samuel E.	2137 Yew St., Vancouver
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 58 (4 digit) sub classes. At the Canada level, principal statistics are collected and compiled for 178 separate industries. They cannot all be published separately by province, however, because of the confidential nature of the data in certain provinces.

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

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

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

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

Establishment

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

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

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

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

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

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

Head Offices and Auxiliary Units

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

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

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

(b) In the case of multi-establishment firms, the statistics for such offices and units are coded to the same industry as the establishments of the

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

Employees

(a) Production and related workers — Manufacturing activity

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. 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. 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.). 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 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 materials and fuel and electricity consumed from the value of production (value of shipments 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

purchased for re-sale) and the cost of other 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 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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