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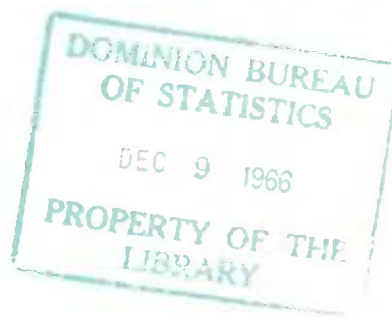


CLAY PRODUCTS MANUFACTURERS

(From Imported Clays)

1964

ANNUAL CENSUS
OF MANUFACTURES



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PUBLICATIONS

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CLAY PRODUCTS MANUFACTURERS

(From Imported Clays)

1964

For statistical purposes the industry titled Clay Products Manufacturers (from Imported Clays) in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in the manufacture of clay products such as pottery, chinaware, porcelain insulators and other products from imported clays. Establishments primarily engaged in manufacturing clay brick, roofing, floor and wall tile, sewer pipe and other structural products from domestic clays are included in Clay Products Manufacturers (from Domestic Clays) industry. Establishments primarily engaged in manufacturing clay refractories are included in the Refractories Manufacturers industry.

Value of shipments and other revenue (manufacturing and non-manufacturing) of the Clay Products Manufacturers industry (from imported clay) amounted to \$32,267,000 in 1964, compared with \$26,991,000 in 1963, an increase of \$5,276,000 or about 20 per cent. Included in this total were shipments of electrical porcelains, pottery (art, decorative and table-ware), glazed floor and wall tile valued at \$16,422,000. Shipments of other manufactured products accounted for \$14,289,000 while other revenue (non-manufacturing) amounted to \$2,078,000.

This industry's shipments of electrical porcelains, pottery and glazed tile represented 53 per cent of its manufacturing revenue. Secondary products shipped by this industry in 1964 included bathroom and toilet accessories, sewer pipe, refractories, sanitaryware, etc.

The cost of materials and supplies, etc. used in the production of goods of own manufacture increased by \$1,400,000. Cost of materials and supplies, etc. (inputs) in 1964 represented 32 per cent of value of shipments of own manufacture (outputs) compared to 33 per cent in 1963.

It should be noted that Table 13 covers the shipments of the establishments classified to this industry whereas Table 14 presents the total value of shipments of specific commodities of Canadian manufacture and includes (if applicable) shipments of those commodities reported by establishments classified to other industries.

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.
- preliminary figures.
- * revised figures.
- x confidential to meet secrecy requirements of the Statistics Act.

TABLE 1. Principal Statistics, 1961-64

Year and province	Establishments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1961													
Totals	28	1,275	2,629	5,067	831	5,662	19,363	12,825	x	x	1,593	6,781	13,105
1962													
Totals	31	1,444	3,018	5,746	933	7,437	22,464	14,447	6	11	1,775	7,568	14,710
1963													
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec	12	585	1,264	2,462	475	3,001	10,531	7,248	3	9	689	3,061	7,553
Ontario	14	744	1,556	3,170	480	4,290	11,889	7,331	3	8	945	4,338	7,350
Manitoba	1	185	399	806	67	1,027 ^r	2,809	1,758 ^r	-	-	223	970	1,859 ^r
Saskatchewan	-												
Alberta	3												
British Columbia	3												
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	33	1,514	3,220	6,438	1,021	8,319 ^r	25,228	16,337 ^r	6	17	1,857	8,370	16,763 ^r
1964													
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec	12	590	1,344	2,653	481	2,712	12,133	8,608	x	x	702	3,310	8,864
Ontario	16	848	1,601	3,759	559	5,821	14,642	8,150	x	x	1,064	4,978	8,194
Manitoba	1	204	444	968	75	1,196	3,415	2,087	-	-	239	1,154	2,197
Saskatchewan	-												
Alberta	3												
British Columbia	3												
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	35	1,642	3,589	7,381	1,114	9,729	30,189	18,845	6	19	2,005	9,442	19,255

TABLE 2. Principal Statistics classified by Size Group based on Value of Shipments of Goods of Own Manufacture, 1963 and 1964

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1963													
Under \$10,000	4	1	2	3	1	10	27	16	4	9	1	3	16
\$ 10,000 to \$ 24,999	5	9	18	26	4	30	99	65	2	8	13	40	65
25,000 " 49,999	—	—	—	—	—	—	—	—	—	—	—	—	—
50,000 " 99,999	7	64	128	180	27	144	589	424	—	—	82	255	422
100,000 " 199,999	8	354	745	1,191	187	1,041	3,864	2,647	—	—	428	1,557	2,617
200,000 " 499,999	8	354	745	1,191	187	1,041	3,864	2,647	—	—	428	1,557	2,617
500,000 " 999,999	8	354	745	1,191	187	1,041	3,864	2,647	—	—	428	1,557	2,617
1,000,000 " 4,999,999	9	1,066	2,327	5,036	803	7,094 ^f	20,646	13,165 ^f	—	—	1,333	6,515	13,642 ^f
5,000,000 and over	9	1,066	2,327	5,036	803	7,094 ^f	20,646	13,165 ^f	—	—	1,333	6,515	13,642 ^f
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	33	1,514	3,220	6,438	1,021	8,319 ^f	25,228	16,337 ^f	6	17	1,857	8,370	16,763 ^f
1964													
Under \$10,000	3	1	2	4	1	6	20	14	2	5	2	6	14
\$ 10,000 to \$ 24,999	5	7	14	20	3	29	84	56	2	6	10	33	56
25,000 " 49,999	6	45	66	133	17	105	424	303	2	8	55	172	301
50,000 " 99,999	3	53	115	162	19	127	441	298	—	—	62	203	297
100,000 " 199,999	3	84	207	321	75	463	828	315	—	—	98	380	311
200,000 " 499,999	6	337	695	1,183	185	846	3,613	2,680	—	—	396	1,475	2,690
500,000 " 999,999	9	1,115	2,467	5,557	815	8,152	24,779	15,178	—	—	1,382	7,173	15,586
1,000,000 " 4,999,999	9	1,115	2,467	5,557	815	8,152	24,779	15,178	—	—	1,382	7,173	15,586
5,000,000 and over	...	...	...	...	...	...	...	...	...	...	...	...	...
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	35	1,642	3,589	7,381	1,114	9,729	30,189	18,845	6	19	2,005	9,442	19,255

TABLE 3. Principal Statistics classified by Size Group based on Manufacturing Value Added, 1963 and 1964

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1963													
Under \$10,000	5	1	2	3	1	17	39	20	5	13	1	3	20
\$ 10,000 to \$ 24,999	4	9	18	26	4	24	86	61	1	4	13	40	61
25,000 " 49,999	3	23	46	69	12	45	187	137	—	—	30	91	137
50,000 " 99,999	4	41	82	111	15	99	402	286	—	—	52	163	285
100,000 " 199,999	8	331	699	1,161	345	1,741	4,385	2,336	—	—	393	1,444	2,306
200,000 " 499,999	5	473	965	1,694	300	3,025	6,482	3,312	—	—	569	2,291	3,560
500,000 " 999,999	5	473	965	1,694	300	3,025	6,482	3,312	—	—	569	2,291	3,560
1,000,000 " 4,999,999	4	636	1,406	3,373	345	3,369 ^f	13,645	10,184 ^f	—	—	799	4,336	10,394 ^f
5,000,000 and over	4	636	1,406	3,373	345	3,369 ^f	13,645	10,184 ^f	—	—	799	4,336	10,394 ^f
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	33	1,514	3,220	6,438	1,021	8,319 ^f	25,228	16,337 ^f	6	17	1,857	8,370	16,763 ^f
1964													
Under \$10,000	5	1	2	4	2	18	40	21	4	11	2	6	21
\$ 10,000 to \$ 24,999	6	58	130	233	61	307	491	149	2	8	65	258	148
25,000 " 49,999	6	65	138	197	23	168	623	437	—	—	80	258	434
50,000 " 99,999	3	66	156	208	27	238	643	379	—	—	80	272	376
100,000 " 199,999	5	269	546	957	249	1,225	3,507	2,042	—	—	310	1,128	2,033
200,000 " 499,999	5	386	866	1,458	272	2,539	6,448	3,515	—	—	485	1,940	3,856
500,000 " 999,999	5	386	866	1,458	272	2,539	6,448	3,515	—	—	485	1,940	3,856
1,000,000 " 4,999,999	5	795	1,750	4,326	479	5,234	18,437	12,301	—	—	1,003	5,581	12,386
5,000,000 and over	5	795	1,750	4,326	479	5,234	18,437	12,301	—	—	1,003	5,581	12,386
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	35	1,642	3,589	7,381	1,114	9,729	30,189	18,845	6	19	2,005	9,442	19,255

TABLE 4. Principal Statistics classified by Size Group based on Total Value Added, 1963 and 1964

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			'000				'000		'000	
1963													
Under \$10,000	5	1	2	3	1	16	39	20	5	13	1	3	20
\$ 10,000 to \$ 24,999	4	9	18	26	4	24	88	61	1	4	13	40	61
25,000 " 49,999	3	23	46	69	12	45	187	137	—	—	30	91	137
50,000 " 99,999	4	41	82	111	15	99	402	286	—	—	52	163	285
100,000 " 199,999	8	331	699	1,161	345	1,741	4,385	2,336	—	—	393	1,444	2,306
200,000 " 499,999		473	965	1,694	300	3,025	6,482	3,312	—	—	569	2,291	3,560
500,000 " 999,999	4	636	1,408	3,373	345	3,370 ^f	13,645	10,184 ^f	—	—	799	4,336	10,394 ^f
1,000,000 " 4,999,999		—	—	—	—	—	—	—	—	—	—	—	—
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	33	1,514	3,220	6,438	1,021	8,319 ^f	25,228	16,337 ^f	6	17	1,857	8,370	16,763 ^f
1964													
Under \$10,000	5	1	2	4	2	18	40	21	4	11	2	6	21
\$ 10,000 to \$ 24,999	6	58	130	233	61	307	491	149	2	8	65	258	148
25,000 " 49,999	6	65	138	197	23	168	623	437	—	—	80	258	434
50,000 " 99,999	3	66	156	208	27	238	643	379	—	—	80	272	376
100,000 " 199,999	5	269	546	957	249	1,225	2,507	2,042	—	—	310	1,128	2,033
200,000 " 499,999	4	327	708	1,171	220	2,172	5,324	2,722	—	—	371	1,438	2,741
500,000 " 999,999	6	856	1,908	4,612	531	5,601	19,561	13,094	—	—	1,097	6,083	13,502
1,000,000 " 4,999,999		—	—	—	—	—	—	—	—	—	—	—	—
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	35	1,642	3,589	7,381	1,114	9,729	30,189	18,845	6	19	2,005	9,442	19,255

TABLE 5. Principal Statistics classified by Size Group based on Total Employed, 1963 and 1964

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			'000				'000		'000	
1963													
Under 5 employed	10	11	22	32	5	52	189	134	6	17	16	49	134
5 - 14 employed	5	30	60	92	18	293	657	352	—	—	45	163	344
15 - 49 "	5	149	304	517	116	501	1,668	1,045	—	—	178	644	1,048
50 - 99 "	5	287	618	983	262	1,177	3,296	1,885	—	—	337	1,237	1,859
100-199 "	8	1,037	2,216	4,814	621	6,295 ^f	19,418	12,921 ^f	—	—	1,281	6,275	13,378 ^f
200-499 "		—	—	—	—	—	—	—	—	—	—	—	—
500 employed and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	33	1,514	3,220	6,438	1,021	8,319 ^f	25,228	16,337 ^f	6	17	1,857	8,370	16,763 ^f
1964													
Under 5 employed	9	9	18	28	6	43	130	88	6	19	13	43	87
5 - 14 employed	6	48	95	144	18	220	630	392	—	—	63	218	386
15 - 49 "	7	208	475	783	182	880	2,288	1,278	—	—	240	912	1,291
50 - 99 "	8	373	804	1,385	326	1,479	4,811	3,146	—	—	455	1,846	3,462
100-199 "	4	462	998	2,020	279	3,967	8,728	4,081	—	—	534	2,456	4,187
200-499 "	3	542	1,199	3,020	303	3,141	13,602	9,659	—	—	700	3,968	9,638
500 employed and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	35	1,642	3,589	7,381	1,114	9,727	30,189	18,845	6	19	2,005	9,442	19,255

TABLE 6. Principal Statistics classified by Type of Organization, 1963 and 1964

Type of organization	Establishments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1963													
Individual ownerships	4	1	2	3	1	14	32	16	4	11	1	3	16
Partnerships	3	50	111	151	6	149	498	322	2	6	65	205	321
Incorporated companies	26	1,463	3,106	6,283	1,014	8,156 ^f	24,699	15,999 ^f	...	...	1,791	8,161	16,425 ^f
Co-operatives													
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	33	1,514	3,220	6,438	1,021	8,319 ^f	25,228	16,337 ^f	6	17	1,857	8,370	16,763 ^f
1964													
Individual ownerships	5	1	2	4	3	22	57	32	6	19	1	4	32
Partnerships													
Incorporated companies	30	1,641	3,587	7,377	1,111	9,707	30,132	18,813	...	...	2,004	9,438	19,223
Co-operatives													
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	35	1,642	3,589	7,381	1,114	9,729	30,189	18,845	6	19	2,005	9,442	19,255

TABLE 7. Calculation of Output, Input and Value Added, 1963 and 1964

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1963	1964	1963	1964	1963	1964
\$'000						
Output						
1. Shipments and other revenue	25,228	30,189	1,763	2,078	26,991	32,267
Inventories—Goods of own manufacture:						
Add closing—Goods in process	728	704	...	...	728	704
Finished goods	2,761	2,326	...	...	2,761	2,326
Deduct opening—Goods in process	744	728	...	...	744	728
Finished goods	2,297	2,802	...	...	2,297	2,802
2. Net inventory change	448	(500)	...	...	448	(500)
3. Gross output (1 + 2)	25,676	29,689	1,763	2,078	27,439	31,767
Input						
4. Purchases of goods not of own manufacture .....	...	...	1,407	1,675	1,407	1,675
Inventories—Goods not of own manufacture:						
Add opening .....	...	...	631	816	631	816
Deduct closing .....	...	...	818	928	816	928
5. Cost of goods sold (not of own manufacture) .....	...	...	1,222	1,563	1,222	1,563
6. Materials, supplies, etc.	8,319 ^f	9,729	115	106	8,434 ^f	9,835
7. Fuel and electricity	1,021	1,114	...	...	1,021	1,114
8. Gross input (5 + 6 + 7)	9,340 ^f	10,843	1,337	1,669	10,677 ^f	12,512
Value added (3 - 8)	16,337 ^f	18,845	426	409	16,763 ^f	19,255

TABLE 8. Employment and Payroll, 1963 and 1964

Year and province	Employees										Salaries and wages				
	Production and related workers				Adminis- trative and office		Sales and distribution		Total		Production and related workers		Admini- stra- tive and office	Sales and distri- bution	Total
	Manufacturing		Other												
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Manufac- turing	Other			
number										\$'000					
1963															
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec	451	134	-	-	60	23	16	5	527	162	2,462	-	472	127	3,061
Ontario	561	183	-	-	118	46	26	11	705	240	3,170	-	949	219	4,338
Manitoba	148	37	-	-	26	12	-	-	174	49	806	-	164	-	970
Saskatchewan															
Alberta															
British Columbia															
Yukon and Northwest Terri- tories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	1,160	354	-	-	204	81	42	16	1,406	451	6,438	-	1,585	347	8,370
1964															
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec	457	133	2	-	56	27	23	4	538	164	2,653	1	489	167	3,310
Ontario	666	182	-	-	123	56	26	11	815	249	3,759	-	995	224	4,978
Manitoba	163	41	-	-	25	10	-	-	188	51	968	-	186	-	1,154
Saskatchewan															
Alberta															
British Columbia															
Yukon and Northwest Terri- tories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	1,286	356	2	-	204	93	49	15	1,541	464	7,381	1	1,670	390	9,442

TABLE 9. Production and Related Workers, - Manufacturing Activity, 1963 and 1964

Month	1963		1964	
	Male	Female	Male	Female
	number			
Establishments reporting monthly detail (large establishments only):				
January	1,123	369	1,271	337
February	1,142	372	1,276	341
March	1,123	370	1,296	348
April	1,148	371	1,301	365
May	1,172	373	1,324	363
June	1,171	335	1,316	363
July	1,147	327	1,229	350
August	1,139	342	1,283	366
September	1,173	343	1,286	354
October	1,183	348	1,285	359
November	1,182	343	1,285	358
December	1,201	338	1,295	368
Averages	1,160	354	1,286	356
Establishments reporting annual averages (small establishments only) .....	...	...	...	...
Average for all establishments	1,160	354	1,286	356

TABLE 10. Inventories, 1964

Province	Manufacturing				Non-manufacturing	Total inventories
	Materials, supplies, etc.	Goods in process	Finished goods of own manufacture	Total	Products or materials purchased for resale	
book value \$'000						
Opening:						
Newfoundland	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—
Quebec	788	184	1,027	1,999	671	2,670
Ontario	1,822	487	1,495	3,804	116	3,920
Manitoba	242	57	280	579	29	609
Saskatchewan						
Alberta						
British Columbia						
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	2,852	728	2,802	6,383	816	7,199
Closing:						
Newfoundland	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—
Quebec	680	190	688	1,559	781	2,339
Ontario	2,141	455	1,416	4,012	121	4,133
Manitoba	224	58	222	503	27	530
Saskatchewan						
Alberta						
British Columbia						
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	3,045	704	2,326	6,074	929	7,003

TABLE 11. Purchased Fuel and Electricity Used in Manufacturing Activity, 1963 and 1964

Description	1963		1964	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Large establishments reporting commodity detail:				
Bituminous coal:				
(a) From Canadian mines	ton	—	—	—
(b) Imported	"	4,870	2,668	33
Sub-bituminous coal (from Alberta mines only)	"	—	—	—
Anthracite coal	"	67	31	1
Lignite coal	"	—	—	—
Coke	"	—	—	—
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	31,579	29,440	10
Fuel oil including kerosene or coal oil	"	2,780,440	3,046,370	387
Wood	cord	—	—	—
Gas:				
(a) Liquefied petroleum gases	Imp. gal.	6,417	9,300	3
(b) Other manufactured gas	M cu. ft.	—	—	—
(c) Natural gas	"	478,744	609,626	388
Other fuel .....	...	—	...	—
Electricity purchased	kwh.	30,823,874	34,270,449	291
Steam purchased .....	...	—	...	—
2. Small establishments not reporting commodity detail:				
Estimate for fuel and electricity .....	...	46	...	21
3. All establishments:				
Total fuel and electricity used .....	...	1,021	...	1,114

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

Description	1963		1964	
	Quantity	Cost	Quantity	Cost
	tons	\$'000	tons	\$'000
1. Materials used:				
Imported clays:				
Ball clay	11,684	415	14,507	526
China clay	6,343	227	7,325	265
Fire clay	67,856	753	79,456	796
Other imported clays	2,911	107	2,171	97
Canadian clays	159	2	253	3
Firebrick, ground or broken (grog), including scrap brick.....	157	12	75	7
Feldspar	5,068	210	5,396	217
Nepheline syenite	4,165	124	4,953	151
Silica and ground quartz	7,131	148	4,895	110
Talc	9,825	421	10,208	412
Other glazing materials .....	...	693	258	726
Insulator hardware .....	...	1,228	...	1,785
All other materials and components used ¹ .....	...	2,298 ^r	...	2,693
2. Containers and other packaging materials and supplies used .....	...	661	...	886
3. Operating, maintenance and repair supplies used (excluding fuel) .....	...	976	...	1,000
4. Amount paid out to others for work done on materials owned by establishments .....	...	44	...	58
Totals .....	...	8,319 ^r	...	9,729

¹ No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$216,655 in 1963 and \$123,917 in 1964.

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

Description	1963		1964	
	Quantity	Value	Quantity	Value
	sq. ft.	\$'000	sq. ft.	\$'000
1. Products:				
Electrical porcelains (high tension insulators and other electrical porcelains)	5,839	...	7,387
Pottery, art and decorative ware	806	...	1,053
Pottery, table ware	1,563	...	1,806
Tile, glazed, floor and wall	14,587,214	5,100	18,448,215	6,176
All other products	12,016	...	14,289
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	(95)	...	(521)
Net adjustment for establishments receiving progress payments	—	...	—
Total adjusted value of shipments and work done	25,228	...	30,189

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

A. Glazed Floor and Wall Tile 1960-64

Year	Quantity	Value
	sq. ft.	\$
1960	7,286,000	3,193
1961	8,117,000	3,634
1962	12,613,000	4,859
1963	14,587,000	5,100
1964	18,448,000	6,176

TABLE 14. Shipments of Selected Goods of Own Manufacture - All Industries - Continued

B. Electrical Porcelains, 1955-64
(High Tension Insulators and Other Electrical Porcelains)

Year	Value
	\$'000
1955	6,565
1956	7,828
1957	7,472
1958	6,879
1959	5,575
1960	5,484
1961	5,357
1962	5,703
1963	6,279
1964	7,918

List of Establishments classified to This Industry, 1964

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

Name	Location
Québec:	
Atelier Claude Thérberge Ltée	2137, rue Montcalm, Montreal
American Brick Inc.	Boischatel
Chalvignac Céramiques Exclusives Inc.	10601, rue Racette, Montréal-nord
Coiteux Ceramics Reg'd.	1381 Roussel St., Chicoutimi N.
Crane Canada Ltd.	360 boul. du Séminaire, St-Jean
Laurentian Art Pottery Inc.,	St. Jérôme
Maple Leaf Ceramics of Canada Ltd.	1740 Bois-Franc Rd., Ville St-Laurent
Montreal Creations	6299 St. Hubert St., Montreal
St. Lawrence Ceramics Ltd.	280 St. Sacrement Ave., Québec
Syndicat des Céramistes Paysans de la (Beauce)	St.-Joseph
Vandesca-Syracuse Ltd.	405 de Salaberry St., Joliette
Vermette, Claude et Associés Inc.	Ste-Adèle-en-Haut
Ontario:	
Canada Vitrified Products Ltd.	60 Burwell Rd., St. Thomas
Canadian Ohio Brass Co. Ltd.	1881 Thorold Rd., Niagara Falls
Canadian Porcelain Co. Ltd.	Paradise Rd., S. Hamilton
Electro Porcelain Ltd.	173 Roger St., Waterloo
Elwill Pottery	208 Riverside Dr., London
Frontenac Floor and Wall Tile Co. Ltd.	Cassidy St., Kingston
Georgian China, Ltd.	Box 38, Collingwood
Gutten, J Ceramics Mfg. Ltd.	529 Kent Ave., Niagara Falls
Hamilton Porcelains Ltd.	38 Elgin St., Brantford
Industrial Ceramics Ltd.	Cooksville
L. and M. Tile Products Ltd.	15 Colville Rd., Toronto 15
McMaster Pottery Ltd.	122 Hatt St., Dundas
National Sewer Pipe Co. Ltd.	Oakville
Pinecroft Ceramic Art Studio	Aylmer
Sovereign Pottery Ltd.	Biggar Ave., Hamilton
Wyatt Art Pottery	1390 Leighland Rd. W., Burlington
Manitoba:	
Ceramicraft Ltd.	720 Langside St., Winnipeg
Alberta:	
Ceramic Arts	515-53rd St. S. W., Calgary
Hycroft China Ltd.	Industrial Ave. S. E., Medicine Hat
National Porcelain	Industrial Ave., Medicine Hat
British Columbia:	
B. C. Ceramics Ltd.	1230 Hamilton St., Vancouver
Crane Canada Ltd.	225 North Rd., New Westminster
Lambert Potteries Ltd.	4316 Fraser 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 56 (4 digit) sub classes. At the Canada level, principal statistics are collected and compiled for 176 separate industries. They cannot all be published separately by province, however, because of the confidential nature of the data in certain provinces.

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

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

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

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

Establishment

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

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

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

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

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

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

Head Offices and Auxiliary Units

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

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

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

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

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

Employees

(a) Production and related workers — Manufacturing activities

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

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

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

(c) Administrative and office employees

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

(d) Sales and distribution workers

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

(e) Total Employees

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

Working Owners or Partners

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

Salaries and Wages

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

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

Fuel and Electricity

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

Materials and Supplies

(a) Manufacturing activities

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

(b) Non-manufacturing activities

1. Purchases for re-sale as such

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

2. Other materials and supplies used

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

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

Shipments

(a) General

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

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

(b) Shipments of goods of own manufacture

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

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

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

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

(c) Shipments of goods not of own manufacture

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

(d) Other revenue

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

Inventories

(a) Manufacturing activities

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

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

(b) Non-manufacturing activities

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

Value Added

(a) By manufacturing activities

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

(b) By non-manufacturing activities

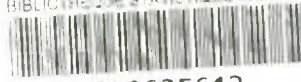
The figures are compiled by deducting the cost of goods purchased for re-sale (adjusted for changes in the value of inventories of goods pur-

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

(c) By Total activities

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

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