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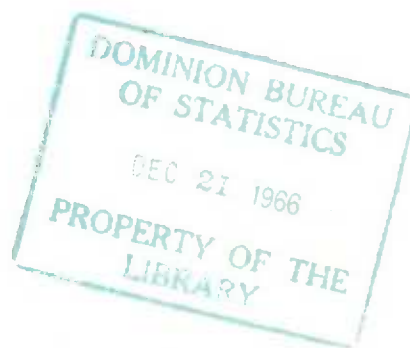


CLAY PRODUCTS MANUFACTURERS

(From Domestic Clays)

1964

ANNUAL CENSUS
OF MANUFACTURES



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PUBLICATIONS

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CLAY PRODUCTS MANUFACTURERS

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1964

This report includes statistics for the relevant part of industry 351 - Clay Products Manufacturers of the Standard Industrial Classification Manual (Catalogue No. 12-501).

For statistical purposes the industry titled Clay Products Manufacturers (from Domestic Clays) in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in the manufacture of clay brick, roofing, floor and wall tile, sewer pipe and other structural products from domestic clays. Establishments primarily engaged in manufacturing clay products such as pottery, chinaware, porcelain insulators and other products from imported clays are included in Clay Products Manufacturers (from Imported Clays) industry. Establishments primarily engaged in manufacturing clay refractories are included in the Refractories Manufacturers 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. Principal Statistics, 1961-64

Year and province	Estab-lish-ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1961													
Totals	98	3,140	6,916	11,413	5,610	4,734	35,219	24,233	11	23	3,734	14,509	24,466
1962													
Totals	93	3,116	6,872	11,728	5,406	5,645	37,054	26,772	7	15	3,693	14,794	26,746
1963													
Newfoundland	1	x	x	x	x	x	x	x	—	—	x	x	x
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	4	135	287	448	294	255	1,371	853	x	x	153	532	902
New Brunswick	2	x	x	x	x	x	x	x	—	—	x	x	x
Quebec	11	564	1,237	2,255	1,022	771	6,587	4,829	x	x	668	2,828	4,798
Ontario	54	1,544	3,408	5,754	3,274	2,518	22,063	16,098	x	x	1,853	7,483	16,403
Manitoba	5	42	84	132	74	137	618	414	—	—	56	204	412
Saskatchewan	2	x	x	x	x	x	x	x	—	—	x	x	x
Alberta	7	277	552	1,090	154	489	2,851	2,218	—	—	337	1,431	2,206
British Columbia	4	x	x	x	x	x	x	x	—	—	x	x	x
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	89	2,930	6,329	11,056	5,406	4,966	37,587	27,193	7	18	3,519	14,319	27,572
1964													
Newfoundland	1	x	x	x	x	x	x	x	—	—	x	x	x
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	4	159	346	546	277	254	1,560	928	x	x	176	639	920
New Brunswick	2	x	x	x	x	x	x	x	—	—	x	x	x
Quebec	11	573	1,142	2,309	1,085	916	6,878	4,814	x	x	679	2,914	4,851
Ontario	55	1,580	3,753	6,428	3,446	3,358	24,194	17,039	7	17	1,951	8,566	17,232
Manitoba	3	x	x	x	x	x	x	x	—	—	x	x	x
Saskatchewan	2	x	x	x	x	x	x	x	—	—	x	x	x
Alberta	6	240	456	941	133	474	3,199	2,576	—	—	297	1,286	2,553
British Columbia	4	x	x	x	x	x	x	x	x	x	x	x	x
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	88	2,923	6,504	11,728	5,578	5,879	40,482	28,324	11	25	3,577	15,495	28,633

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	3	2	3	4	3	2	15	11	3	6	2	4	11
\$ 10,000 to \$ 24,999	5	19	44	60	34	7	76	52	2	4	24	80	111
25,000 " 49,999	9	50	106	124	54	34	302	255	—	—	60	153	254
50,000 " 99,999	15	130	314	435	212	106	1,045	742	1	3	150	526	741
100,000 " 199,999	14	292	633	858	354	196	2,130	1,632	1	5	334	1,103	1,653
200,000 " 499,999	25	798	1,663	2,696	1,488	1,086	8,286	5,900	—	—	973	3,600	6,163
500,000 " 999,999	9	395	868	1,448	938	894	6,298	4,396	—	—	457	1,836	4,426
1,000,000 " 4,999,999	9	1,244	2,698	5,430	2,323	2,642	19,434	14,206	—	—	1,487	6,851	14,230
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	32	167	(18)
Totals	89	2,930	6,329	11,056	5,406	4,966	37,587	27,193	7	18	3,519	14,319	27,572
1964													
Under \$10,000	3	2	2	3	5	1	20	14	4	11	2	3	14
\$ 10,000 to \$ 24,999	5	31	59	76	33	12	90	71	4	6	37	95	134
25,000 " 49,999	13	61	131	169	92	44	496	342	2	5	77	229	346
50,000 " 99,999	14	133	311	459	235	83	1,139	809	1	3	159	572	814
100,000 " 199,999	8	174	389	501	211	114	1,211	879	—	—	201	639	889
200,000 " 499,999	25	703	1,508	2,501	1,461	968	8,106	5,617	—	—	858	3,380	5,850
500,000 " 999,999	10	462	1,109	1,810	1,064	1,161	6,978	4,482	—	—	556	2,393	4,503
1,000,000 " 4,999,999	10	1,357	2,996	6,208	2,477	3,497	22,443	16,110	—	—	1,655	8,008	16,090
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	32	177	(7)
Totals	88	2,923	6,504	11,728	5,578	5,879	40,482	28,324	11	25	3,577	15,495	28,633

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	11	27	40	26	7	43	25	3	6	16	60	83
\$ 10,000 to \$ 24,999	6	19	39	46	32	16	139	94	2	4	23	62	95
25,000 " 49,999	13	92	205	267	127	101	638	460	1	3	108	326	457
50,000 " 99,999	13	158	378	537	245	94	1,214	896	1	5	179	630	901
100,000 " 199,999	19	496	1,006	1,475	734	453	4,019	2,851	—	—	572	1,934	2,877
200,000 " 499,999	20	759	1,631	2,705	1,494	1,354	8,904	6,284	—	—	928	3,592	6,578
500,000 " 999,999	6	343	815	1,449	791	717	5,801	4,131	—	—	407	1,882	4,133
1,000,000 " 4,999,999	7	1,052	2,228	4,537	1,958	2,224	16,829	12,453	—	—	1,254	5,667	12,467
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	32	167	(18)
Totals	89	2,930	6,329	11,056	5,406	4,966	37,587	27,193	7	18	3,519	14,319	27,572
1964													
Under \$10,000	4	8	13	15	7	2	34	21	4	11	9	15	21
\$ 10,000 to \$ 24,999	12	59	121	168	116	43	422	234	4	6	79	243	295
25,000 " 49,999	8	44	98	123	61	29	355	269	3	8	52	158	279
50,000 " 99,999	14	165	376	554	261	98	1,311	971	—	—	193	686	983
100,000 " 199,999	14	344	744	1,067	576	249	2,952	2,034	—	—	394	1,373	2,027
200,000 " 499,999	23	770	1,711	2,844	1,582	1,604	10,142	6,882	—	—	958	3,906	7,149
500,000 " 999,999	5	342	795	1,460	803	676	5,083	3,358	—	—	390	1,781	3,366
1,000,000 " 4,999,999	8	1,191	2,646	5,496	2,173	3,177	20,184	14,556	—	—	1,470	7,157	14,520
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	32	177	(7)
Totals	88	2,923	6,504	11,728	5,578	5,879	40,482	28,324	11	25	3,577	15,495	28,633

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	4	3	5	6	4	3	27	21	3	6	3	6	20
\$ 10,000 to \$ 24,999	6	19	39	46	32	16	139	94	2	4	23	62	95
25,000 " 49,999	13	82	205	267	127	101	638	460	1	3	108	326	457
50,000 " 99,999	14	166	401	571	267	98	1,230	900	1	5	192	685	963
100,000 " 199,999	19	496	1,006	1,475	734	453	4,019	2,851	—	—	572	1,934	2,877
200,000 " 499,999	19	692	1,481	2,481	1,337	1,180	8,102	5,788	—	—	851	3,323	6,032
500,000 " 999,999	7	410	965	1,673	947	891	6,603	4,627	—	—	484	2,151	4,678
1,000,000 " 4,999,999	7	1,052	2,228	4,537	1,958	2,224	16,829	12,453	—	—	1,254	5,667	12,467
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	32	167	(18)
Totals	89	2,930	6,329	11,056	5,406	4,966	37,587	27,193	7	18	3,519	14,319	27,572
1964													
Under \$10,000	4	8	13	15	7	2	34	21	4	11	9	15	21
\$ 10,000 to \$ 24,999	11	45	95	134	94	38	404	213	4	6	60	191	212
25,000 " 49,999	9	58	123	166	66	47	414	319	3	8	68	207	328
50,000 " 99,999	13	154	351	504	248	79	1,136	843	—	—	181	624	910
100,000 " 199,999	15	355	770	1,109	605	255	3,086	2,132	—	—	409	1,437	2,134
200,000 " 499,999	23	770	1,711	2,844	1,582	1,604	10,142	6,882	—	—	958	3,906	7,149
500,000 " 999,999	5	342	795	1,460	803	676	5,083	3,358	—	—	390	1,781	3,366
1,000,000 " 4,999,999	8	1,191	2,846	5,496	2,173	3,177	20,184	14,556	—	—	1,470	7,157	14,520
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	32	177	(7)
Totals	88	2,923	6,504	11,728	5,578	5,879	40,482	28,324	11	25	3,577	15,495	28,633

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	8	15	30	39	23	13	118	85	4	7	15	39	86
5- 14 employed	24	186	436	584	280	135	1,320	975	2	6	221	723	1,032
15- 49 "	40	1,055	2,228	3,633	2,092	1,585	12,531	8,811	1	5	1,241	4,745	8,869
50- 99 "	9	500	1,122	1,738	886	879	5,729	4,091	—	—	622	2,377	4,362
100-199 "	8	1,174	2,512	5,061	2,124	2,353	17,888	13,231	—	—	1,388	6,268	13,241
200-499 "													
500 employed and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	32	167	(16)
Totals	89	2,930	6,329	11,056	5,406	4,966	37,587	27,193	7	18	3,519	14,319	27,572
1964													
Under 5 employed	7	11	20	35	29	19	148	98	6	13	14	44	97
5- 14 employed	26	188	432	595	310	97	1,521	1,068	5	12	226	752	1,078
15- 49 "	38	1,001	2,205	3,652	2,167	1,858	12,694	8,643	—	—	1,176	4,745	8,751
50- 99 "	7	315	748	1,099	586	434	3,834	2,583	—	—	418	1,605	2,805
100-199 "	10	1,408	3,099	6,346	2,486	3,470	22,285	15,933	—	—	1,711	8,172	15,708
200-499 "													
500 employed and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	32	177	(7)
Totals	88	2,923	6,504	11,728	5,578	5,879	40,482	28,324	11	25	3,577	15,495	28,633

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	8	38	91	127	53	16	307	238	6	17	39	130	239
Partnerships	6	92	190	289	144	76	955	806	1	1	103	355	805
Incorporated companies	75	2,800	6,047	10,640	5,208	4,874	36,325	26,149	...	...	3,345	13,667	26,546
Co-operatives .....	—	—	—	—	—	—	—	—	...	...	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	32	167	(18)
Totals	89	2,930	6,329	11,056	5,406	4,966	37,587	27,193	7	18	3,519	14,319	27,572
1964													
Individual ownerships	5	22	53	68	28	9	151	115	4	11	22	68	118
Partnerships	7	81	171	271	157	61	894	694	7	14	90	329	693
Incorporated companies	76	2,820	6,261	11,388	5,392	5,809	39,437	27,515	...	...	3,433	14,920	27,829
Co-operatives .....	—	—	—	—	—	—	—	—	...	...	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	32	177	(7)
Totals	88	2,923	6,504	11,728	5,578	5,879	40,482	28,324	11	25	3,577	15,495	28,633

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	37,587	40,482	1,656	2,558	39,243	43,040
Inventories—Goods of own manufacture:						
Add closing—Goods in process	399	446	...	...	399	446
Finished goods	6,250	5,495	...	...	6,250	5,495
Deduct opening—Goods in process	421	403	...	...	421	403
Finished goods	6,249	6,239	...	...	6,249	6,239
2. Net inventory change	(21)	(701)	...	...	(21)	(701)
3. Gross output (1 + 2)	37,566	39,781	1,656	2,558	39,222	42,339
Input						
4. Purchases of goods not of own manufacture .....	...	...	1,052	1,954	1,052	1,954
Inventories—Goods not of own manufacture:						
Add opening .....	...	...	106	134	106	134
Deduct closing .....	...	...	134	90	134	90
5. Cost of goods sold (not of own manufacture) .....	...	...	1,024	1,998	1,024	1,998
6. Materials, supplies, etc.	4,966	5,879	252	251	5,218	6,130
7. Fuel and electricity	5,406	5,578	...	...	5,406	5,578
8. Gross input (5 + 6 + 7)	10,372	11,457	1,276	2,249	11,648	13,706
Value added (3 - 8)	27,193	28,324	380	309	27,572	28,633

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		Adminis- trative and office	Sales and distri- bution	Total
	Manufacturing		Other								Manufacturing	Other			
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female						Manufacturing	Other
	number										\$'000				
1963															
Newfoundland	x	x	x	—	x	x	x	x	x	x	x	x	x	x	x
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	135	—	—	—	17	1	—	—	152	1	448	—	84	—	532
New Brunswick	x	x	x	—	x	x	x	x	x	x	x	x	x	x	x
Quebec	564	—	2	—	73	13	14	2	653	15	2,255	7	485	102	2,828
Ontario	1,493	51	29	—	158	50	64	8	1,744	109	5,754	87	1,282	381	7,483
Manitoba	39	3	—	—	7	5	2	—	48	8	132	—	64	8	204
Saskatchewan	x	x	x	—	x	x	x	x	x	x	x	x	x	x	x
Alberta	273	4	4	—	31	8	17	—	325	12	1,090	27	218	96	1,431
British Columbia	x	x	x	—	x	x	x	x	x	x	x	x	x	x	x
Yukon and Northwest Terri- tories	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	2,827	103	36	—	345	88	110	10	3,318	201	11,056	126	2,471	666	14,319
1964															
Newfoundland	x	x	x	—	x	x	x	x	x	x	x	x	x	x	x
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	159	—	—	—	16	1	—	—	175	1	546	—	93	—	639
New Brunswick	x	x	x	—	x	x	x	x	x	x	x	x	x	x	x
Quebec	573	—	3	—	75	11	15	2	666	13	2,309	20	478	106	2,913
Ontario	1,529	51	30	—	177	63	89	12	1,825	126	6,428	94	1,491	553	8,566
Manitoba	x	x	x	—	x	x	x	x	x	x	x	x	x	x	x
Saskatchewan	x	x	x	—	x	x	x	x	x	x	x	x	x	x	x
Alberta	236	4	—	—	35	8	14	—	285	12	941	—	249	96	1,286
British Columbia	x	x	x	—	x	x	x	x	x	x	x	x	x	x	x
Yukon and Northwest Terri- tories	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	2,832	91	35	—	368	101	135	15	3,370	207	11,728	122	2,767	878	15,495

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	2,371	93	2,199	88
February	2,245	92	2,314	92
March	2,362	93	2,450	93
April	2,669	96	2,753	91
May	3,101	99	2,988	102
June	3,239	108	3,107	91
July	3,308	115	3,107	95
August	3,129	111	3,124	99
September	3,049	108	3,033	94
October	2,969	110	3,086	105
November	2,795	104	3,023	61
December	2,548	104	2,737	58
Averages	2,827	103	2,832	91
Establishments reporting annual averages (small establishments only) .....	...	...	...	...
Average for all establishments	2,827	103	2,832	91

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	x	x	x	x	x	x
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	39	9	283	331	17	348
New Brunswick	x	x	x	x	x	x
Quebec	360	115	1,213	1,688	3	1,691
Ontario	564	189	3,188	3,941	51	3,992
Manitoba	x	x	x	x	x	x
Saskatchewan	x	x	x	x	x	x
Alberta	180	23	617	820	6	825
British Columbia	x	x	x	x	x	x
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	1,428	403	6,239	8,070	134	8,204
Closing:						
Newfoundland	x	x	x	x	x	x
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	31	20	171	222	2	224
New Brunswick	x	x	x	x	x	x
Quebec	261	113	1,152	1,526	2	1,528
Ontario	632	225	2,801	3,656	29	3,686
Manitoba	x	x	x	x	x	x
Saskatchewan	x	x	x	x	x	x
Alberta	235	31	591	658	2	660
British Columbia	x	x	x	x	x	x
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	1,412	446	5,495	7,353	90	7,442

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	9,201	133	9,740
(b) Imported	"	48,685	784	63,212
Sub-bituminous coal (from Alberta mines only)	"	—	—	—
Anthracite coal	"	3,670	64	2,803
Lignite coal	"	204	1	—
Coke	"	167	4	163
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	771,691	260	802,913
Fuel oil including kerosene or coal oil	"	8,637,592	818	7,018,085
Wood	cord	10,328	86	9,382
Gas:				
(a) Liquefied petroleum gases	Imp. gal.	80,945	18	108,350
(b) Other manufactured gas	M cu. ft.	—	—	—
(c) Natural gas	"	5,237,380	2,266	5,852,690
Other fuel .....	...	...	...	7
Electricity purchased	kwh.	71,617,112	972	76,840,045
Steam purchased .....	...	...	...	—
2. Small establishments not reporting commodity detail:				
Estimate for fuel and electricity .....	...	—	...	—
3. All establishments:				
Total fuel and electricity used .....	...	5,406	...	5,578

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

Description	Cost	
	1963	1964
	\$'000	
1. Raw materials and components used	2,499	3,045
2. Containers and other packaging materials and supplies used	611	529
3. Operating, maintenance and repair supplies used (excluding fuel)	1,745	2,213
4. Amount paid out to others for work done on materials owned by establishments	111	92
Totals	4,966	5,879

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

Description	1963		1964	
	Quantity	Value	Quantity	Value
		\$'000		\$'000
1. Products:				
Clay:				
Fireclay	ton 280	9	1	1
Other clay (includes bentonite) .....	...	541	...	591
Fireclay blocks and shapes .....	...	32	...	431
Firebrick	M 3,523	453		
Brick:				
Soft mud process:				
Face	M 40,732	2,132	59,755	2,964
Common	M 5,564	117	7,129	121
Stiff mud process (wire cut):				
Face	M 303,378	15,222	314,960	16,197
Common	M 40,303	1,105	45,882	1,277
Dry press:				
Face	M 53,051	2,512	57,206	2,614
Common	M 6,579	201	3,977	121
Fancy or ornamental brick (including special shapes, embossed and enamelled brick)	M 16,437	1,247	19,797	1,413
Sewer brick	M 1,025	39		
Paving brick	M 1,389	136	2,801	179
Structural tiles:				
Hollow blocks (including fireproofing and loadbearing tile)	ton 99,017	1,968	92,617	1,880
Partition tile .....	...	-	-	-
Floor tile (quarries) and glazed tile	sq. ft. 191,837	83	286,666	121
Drain tile	M 64,378	3,888	68,259	4,385
Sewer pipe	ft. ...	3,626	6,265,634	3,466
Flue linings	ft. ...	930	1,637,560	1,059
Pottery, glazed or unglazed (including coarse earthenware, sanitaryware, stone ware, flower pots, and all pottery) .....	...	1,083	...	1,256
All other products .....	...	2,925	...	3,053
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 .....	...	(663)	...	(646)
Net adjustment for establishments receiving progress payments .....	...	-	...	-
Total adjusted value of shipments and work done .....	...	37,587	...	40,482

* Included with "Other clay (including bentonite)".

TABLE 14. Producers' Shipments of Clay Products,¹ by All Operators,¹ 1963 and 1964

Product		Sales or shipments			
		1963		1964	
		Quantity	Value	Quantity	Value
			\$		\$
Clay:					
Fireclay	ton	4,488	64,795	4,679	70,018
Other clay (includes bentonite) .....	...	...	1,148,981	...	1,120,951
Fireclay blocks and shapes .....		...	47,621	...	73,674
Firebrick	M	4,775	636,112	3,807	598,897
Brick:					
Soft mud process:					
Face	M	40,732	2,132,170	59,755	2,963,534
Common	M	5,564	116,833	7,129	120,882
Stiff mud process (wire cut):					
Face	M	304,037	15,409,529	315,341	16,211,360
Common	M	40,303	1,137,435	46,440	1,292,895
Dry press:					
Face	M	53,051	2,512,050	57,206	2,613,790
Common	M	6,579	201,049	3,977	121,380
Fancy or ornamental brick (including special shapes, embossed and enameled brick)	M	16,437	1,247,398	19,797	1,412,737
Sewer brick	M	1,025	39,054	1,722	62,804
Paving brick	M	1,389	136,438	1,080	116,020
Structural tiles:					
Hollow blocks (including fireproofing and loadbearing tile)	ton	99,322	2,024,309	92,789	1,882,860
Partition tile		—	—	—	—
Floor tile (quarries) and glazed tile	sq. ft.	191,837	82,775	268,666	120,947
Drain tile	M	64,378	3,947,002	68,509	4,439,165
Sewer pipe .....		...	3,625,761	...	3,465,905
Flue linings .....		...	940,864	...	1,059,482
Pottery, glazed or unglazed (including coarse earthenware, sanitary-ware, stone ware, flower pots, and all pottery) .....		...	1,082,824	...	1,268,401
Other products .....		...	1,621,294	...	1,814,882
Total .....		...	38,154,294	...	40,830,585

¹ Commodity data; includes the shipments by firms classified to other industries. Only operators using domestic clay; products made by operators using imported clay not included.

TABLE 15. Producers' Shipments of Clay Products,¹ by Provinces, 1962-64

	1962	1963	1964
		dollars	
Newfoundland	142,000	92,120	99,038
Nova Scotia	1,712,503	1,337,430	1,541,117
New Brunswick	822,400	623,166	697,974
Quebec	7,450,131	6,852,660	6,839,772
Ontario	20,146,786	21,819,687	23,723,512
Manitoba	621,275	594,072	519,726
Saskatchewan	1,354,635	1,044,721	1,336,383
Alberta	3,445,687	3,452,835	3,787,609
British Columbia	2,121,461	2,337,603	2,285,454
Canada	37,816,878	38,154,294	40,830,585

¹ See footnote, Table 14.

TABLE 16. Producers' Shipments of Clay Building Brick,¹ 1955-64

Year	Quantity	Value	Average value per M ²	Year	Quantity	Value	Average value per M ²
	M	\$			M	\$	
1955	489,240	22,157,837	45.29	1960	465,171	22,994,457	49.43
1956	510,101	24,005,749	47.06	1961	464,942	22,008,286	47.34
1957	473,728	22,590,169	47.69	1962	477,756	23,207,238	48.59
1958	547,643	27,482,319	50.18	1963	467,728	22,795,518	48.74
1959	550,961	27,606,003	50.11	1964	511,366	24,799,382	48.50

¹ See footnote, Table 14.

² Based on shipments of all grades; the value per M should be interpreted as the average value of pressed, common and other varieties together and not the value of any one particular type of brick.

TABLE 17. Producers's Shipments of Clay Building Brick,^{1,2} by Provinces, 1963 and 1964

Province	1963		1964	
	Quantity	Value	Quantity	Value
	M	\$	M	\$
Newfoundland	1,757	92,120	1,847	99,038
Nova Scotia	14,633	790,228	16,790	974,457
New Brunswick	8,285	353,696	7,903	458,803
Quebec	119,109	5,212,212	121,597	5,174,970
Ontario	277,740	13,931,169	313,318	15,487,596
Manitoba	1,602	56,658	—	—
Saskatchewan	7,447	344,200	11,587	533,748
Alberta	33,223	1,659,201	37,062	1,960,350
British Columbia	3,932	356,034	1,262	110,420
Canada	467,728	22,795,518	511,366	24,799,382
Average value per M	—	48.74	—	48.50

¹ See footnote, Table 14.

² Includes fancy and sewer brick.

TABLE 18. Producers' Shipments of Drain Tile, Sewer Pipe and Flue Linings Made from Domestic Clays,¹ 1955-64

Year	Value	Year	Value
	\$		\$
1955	7,107,946	1960	7,877,107
1956	6,948,129	1961	8,167,396
1957	6,706,053	1962	7,879,406
1958	8,414,967	1963	8,513,627
1959	8,345,619	1964	8,964,552

¹ See footnote, Table 14.

TABLE 19. Producers' Shipments of Drain Tile, Sewer Pipe and Flue Linings Made from Domestic Clays,¹ by Provinces, 1963 and 1964

Province	1963	1964
	dollars	
Newfoundland	—	—
Nova Scotia	420,899	379,263
New Brunswick	53,100	43,680
Quebec	549,716	653,534
Ontario	5,242,590	5,286,258
Saskatchewan	463,319	448,754
Alberta	844,601	1,000,748
British Columbia	939,402	1,152,315
Canada	8,513,627	8,964,552

¹ See footnote, Table 14.

TABLE 20. Producers' Shipments of Fireclay, Fireclay Blocks and Shapes and Firebrick Made from Domestic Clays,¹ 1955-64

Year	Fireclay		Fireclay blocks and shapes	Firebrick	
	Short tons	Value	Value	Quantity	Value
		dollars		M	\$
1955	11,669	72,815	418,554	4,055	402,263
1956	8,448	64,588	471,083	4,258	430,922
1957	5,600	44,143	376,492	5,411	537,067
1958	8,190	44,737	313,164	2,806	325,653
1959	10,034	57,764	348,912	3,595	422,300
1960	11,711	59,593	263,010	4,397	553,196
1961	10,236	62,332	301,945	3,872	476,327
1962	11,420	62,112	56,742	4,013	514,260
1963	4,488	64,795	47,621	4,775	636,112
1964	4,679	70,018	73,674	3,807	598,897

¹ See footnote, Table 14.

TABLE 21. Producers' Shipments of Fireclay Blocks and Shapes and Firebrick Made from Domestic Clays,¹ by Provinces, 1964

Province	Fireclay		Fireclay blocks and shapes	Firebrick	
	Short tons	Value	Value	Quantity	Value
		dollars		M	\$
Nova Scotia	—	—	—	—	—
Ontario	—	—	—	—	20
Saskatchewan	1,950	33,899	—	1,608	225,059
Alberta	—	—	—	—	—
British Columbia	2,729	36,119	73,674	2,199	373,818
Canada	4,679	70,018	73,674	3,807	598,897

¹ See footnote, Table 14.

TABLE 22. Producers' Shipments of Pottery Made from Domestic Clays,¹ 1955 - 64

Year	Value	Year	Value
	\$		\$
1955	603,865	1960	803,331
1956	610,614	1961	811,651
1957	633,252	1962	965,566
1958	710,292	1963	1,082,824
1959	700,434	1964	1,268,401

¹ See footnote, Table 14.

TABLE 23. Producers' Shipments of Pottery Made from Domestic Clays,¹ by Provinces, 1963 and 1964

Province	1963	1964
	dollars	
Nova Scotia	6,900	7,000
New Brunswick	176,626	169,031
Quebec	—	—
Ontario	780,078	967,307
Alberta	93,134	97,868
British Columbia	26,086	27,195
Canada	1,082,824	1,268,401

¹ See footnote, Table 14.

TABLE 24. Producers' Shipments of Structural Tile Made from Domestic Clays,¹ 1955 - 64

Year	Hollow blocks ²		Roofing tile		Floor tile (quarries) ³	
	Short tons	Value	Number	Value	Square feet	Value
		\$		\$		\$
1955	199,982	3,647,690	—	—	229,098	92,854
1956	206,348	3,863,522	—	—	238,817	98,280
1957	183,558	3,575,748	—	—	153,081	67,092
1958	159,114	3,118,197	—	—	174,081	70,896
1959	176,585	3,475,791	—	—	186,118	84,075
1960	158,885	3,165,414	—	—	178,661	85,035
1961	136,197	2,778,091	—	—	238,115	120,213
1962	111,228	2,292,324	—	—	198,794	99,397
1963	99,322	2,024,309	—	—	191,837	82,775
1964	93,789	1,982,860	—	—	268,666	120,947

¹ See footnote, Table 14.

² Includes fireproofing, load-bearing and partition tile.

³ Includes value of glazed floor and wall tile.

TABLE 25. Producers' Shipments of Structural Tile Made from Domestic Clays,¹ by Provinces, 1964

Province	Hollow blocks ²		Floor tile (quarries) ³	
	Short tons	Value	Square feet	Value
		\$		\$
Nova Scotia.....	6,150	123,000	—	—
New Brunswick.....	1,470	26,460	—	—
Quebec.....	42,967	903,260	—	—
Ontario.....	37,484	743,150	268,666	120,947
Saskatchewan.....	277	4,112	—	—
Alberta.....	3,266	51,861	—	—
British Columbia.....	1,175	31,017	—	—
Canada.....	92,789	1,882,860	268,666	120,947

¹ Commodity data; includes shipments by firms classified to other industries.

² Includes fireproofing and load-bearing.

³ Includes value of glazed floor and wall tile.

Note: See footnote to Table 14.

TABLE 26. Available Data on the Consumption¹ of Bentonite in Canada, 1962 and 1963

	1962	1963
	tons	
Well drilling.....	29,839	33,932
Iron and steel foundries.....	13,878	17,642
Pelletizing iron-ore concentrates.....	10,091	37,575
Petroleum refining.....	1,870	1,790
Paper.....	366	296
Miscellaneous chemicals.....	378	291
Miscellaneous non-metallic products.....	815	1,986
Totals, accounted for.....	57,237	93,512

¹ Includes Fuller's earth.

TABLE 27. Available Data on the Consumption of Fuller's Earth in Canada, 1962 and 1963

	1962	1963
	tons	
(a) By industries:		
Soaps and cleaning preparations.....	90	72
Petroleum refining.....	783	966
Slaughtering and meat-packing.....	1	1
Vegetable oil mills.....	1	1
Starch and glucose manufacturing.....	—	—
Sugar refineries.....	2,093	2,317
Totals.....	2,966	3,355
(b) By provinces:		
Nova Scotia.....	97	23
Quebec.....	1,815	2,275
Ontario.....	147	171
Manitoba.....	—	17
Saskatchewan.....	32	9
Alberta.....	90	142
British Columbia.....	785	718
Canada.....	2,966	3,355

¹ Not listed.

TABLE 28. Available Data on the Consumption of China-clay (kaolin) in Canada, 1961-63

Industry	1961	1962	1963
	tons		
Paper	80,447	84,079	93,625
Rubber and linoleum	11,583	12,247	11,805
Paint	1,707	2,306	2,131
Ceramics	10,374	13,906	12,515
Other products ¹	4,167	8,762	10,939
Totals accounted for	108,278	121,300	130,015

¹ Includes chemicals, cosmetics and other miscellaneous products.

TABLE 29. Clays and Earths¹ Used in the Rubber Goods Industry, 1959-63

Year	tons	Value
		\$
1959	14,312	527,616
1960	12,708	460,329
1961	12,907	472,699
1962	14,915	531,568
1963	16,510	622,084

¹ Includes china-clay, kaolin, and other clays and earths.

TABLE 30. Fireclay and Cupola Blocks Used in the Manufacture of Iron and Steel and their Products, 1959-63

Year	Cost at works
	\$
1959	14,567,000
1960	13,877,000
1961	13,981,000
1962	16,411,000
1963	17,378,624

TABLE 31. Filtering Earths Used in the Sugar Refining Industry, 1960-64

Year	Sugar refineries	
	Pounds	Value
		\$
1960	4,435,350	191,213
1961	4,178,343	188,703
1962	4,186,747	188,850
1963	4,634,520	219,089
1964	4,485,550	221,620

¹ Includes china-clay, kaolin, and other clays and earths.

TABLE 32. Imports and Exports of Clay and Clay Products, 1963 and 1964

Item		1963		1964	
		Quantity	Value	Quantity	Value
			\$		\$
Imports					
China-clay	cwt.	3,475,167	3,649,438	3,394,872	3,572,757
Fireclay	"	1,458,232	447,014	1,463,426	555,150
Pipe clay	"	669,103	79,337	..	..
Clays, all other, n.o.p. ....	..	..	1,030,618	..	1,115,393
Zirconium silicate .....	..	..	319,232	..	..
Zirconium oxide .....	..	..	60,921	..	..
Saggars .....	..	..	232,910	..	..
Activated clay, for the refining of oils .....	..	..	1,405,725	..	..
Grog for refractory materials	ton	16,122	499,914	19,180	619,146
Brick, building, n.o.p.	M	25,107	1,585,580	21,543	1,244,378
Brick, building, glazed	M	3,776	373,635	3,290	299,939
Brick, fire, other, valued at not less than \$100 per M, rectangular shaped, the dimensions of each not to exceed 125 cubic inches, for use exclusively in the construction or repair of a furnace, kiln, etc. ....	..	..	1,309,357	..	..
Brick, fire, n.o.p., for use exclusively in the construction or repair of a furnace, kiln, or other equipment of a manufacturing establishment (not made in Canada) .....	..	..	7,194,375	..	..
Brick, fire, n.o.p. ....	..	..	3,400,584	..	9,561,803
Brick, paving	M	85	8,456	..	..
Building blocks, building tile .....	..	..	798,742	..	770,478
Drain pipes, sewer pipes and earthenware fittings, chimney linings or vents, chimney tops or inverted blocks, glazed or unglazed, n.o.p. ....	..	..	65,318	..	..
Earthenware tiles for roofing .....	..	..	11,031	..	..
Tiles, earthenware, n.o.p. ....	..	..	59,248	..	..
Tiles, floor and wall, earthenware	sq. ft.	15,639,027	3,244,251	18,560,644	3,894,677
Chemical stoneware .....	..	..	274,290	..	..
China and porcelain ware, n.o.p. ....	..	..	137,586	..	..
Samjohns, churns, or crocks, n.o.p. ....	..	..	30,246	..	..
Tableware of china, porcelain, ceramic, n.e.s. including semi-porcelain .....	..	..	14,468,603	..	17,884,893
Stoneware, Rockingham ware and earthenware, n.o.p. ....	..	..	2,894,270	..	..
Artificial teeth, not mounted .....	..	..	1,804,148	..	1,439,404
Crucibles, n.o.p., and covers .....	..	..	117,015	..	..
Insulators, electric, porcelain, and parts .....	..	..	1,584,773	..	3,020,123
Manufactures of clay, n.o.p. ....	..	..	1,182,543	..	..
Bentonite	cwt.	..	..	2,288,928	1,055,405
China clay, ground or unground .....	"	..	..	3,394,872	3,572,757
Fire clay, ground or unground .....	"	..	..	1,463,426	555,150
Clays and earths, activated	lb.	..	..	5,705,527	418,643
Compound catalysts .....	"	..	..	10,709,742	5,480,376
Stone, clay and concrete end products n.e.s. ....	..	..	..	..	143,198
Ceramic tiles, floor and wall under 2½"	sq. ft.	..	..	9,123,212	2,111,406
Ceramic tiles, floor and wall 2½" and over .....	"	..	..	9,437,432	1,783,269
Clay bricks, blocks and tiles, n.e.s. ....	..	..	..	..	208,134
Exports					
Building brick, clay	M	7,364	448,306	8,106	470,773
Bricks, fire .....	..	..	..	..	..
Clay, manufactures of, n.o.p. ....	..	..	..	..	..
Clays, unmanufactured .....	..	..	..	..	..
Earthenware .....	..	..	..	..	..
Porcelain insulators .....	..	..	..	..	..
Clay, ground or unground	cwt.	21,569	30,164	21,555	34,198
High tension insulators .....	..	..	310,049	..	312,993
Stone, clay and concrete end products, n.e.s. ....	..	..	11,783	..	9,590
Firebrick and similar shapes .....	..	..	3,950,497	..	4,700,323
Clay bricks, blocks and tiles, n.e.s. ....	..	..	239,321	..	351,917

Note: "n.o.p." means "not otherwise provided for" in the statistical classification.
 "n.e.s." means "not elsewhere specified" in the statistical classification.

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
Newfoundland:	
Pelly, C. & M. Limited	Milton
Nova Scotia:	
Lorenzen, E. Pottery	Lantz
Shaw, L.E. Limited	Lantz
Shaw, L.E. Limited	New Glasgow
Standard Clay Products Limited	New Glasgow
New Brunswick:	
Canuck Pottery Ltd.	Box 123, Saint John
Shaw, L.E. Limited	Chipman
Quebec:	
Aggrite (1962) Inc.	3333 Metropolitan E., Montréal 38
Brique Beauport Brick Inc.	2140 Blvd. Ste Anne, Québec
Brique de Scott Ltée, La	Scott Junction
Brique Victoria Ltée	286 Notre Dame St. W., Victoriaville
Couture, Emilien	Deschailions
Demers and Bordeleau	Deschailions
Domtar Construction Materials Ltd.	Delson and Laprairie
East Angus Brick & Tile Inc.	East Angus
Montreal Terra Cotta Limited	Deschailions
Montreal Terra Cotta Limited	Lakeside
St. Lawrence Brick Co., Limited	Laprairie
Ontario:	
Bauman, N.	Wallenston
Beaverton Brick & Tile	Beaverton
Blue Mountain Pottery Ltd.	99 Pine St., Collingwood
Booth Brick Co. Ltd., (Plants at Weston & New Toronto)	320 Homer Ave., Toronto 14
Brampton Brick Limited	514 Main St. N., Brampton
Brantford Clay Products Ltd.	Mt. Pleasant
Broadwell, B. & Son	Kingsville
Bruce Brick and Tile Co.	Walkerton
Canada Brick (Martin-Marietta Canada Ltd.)	Streetsville
Canadian Pressed Brick Co. Ltd., (The)	30 Kimberly Dr., Hamilton
Central Tile Brick Corporation Ltd.	Tilbury
Comber Tile Yard Ltd.	Box 28, Comber
Continental Brick & Tile Co. Ltd.	Shallow Lake
Coultis, Geo. & Son Ltd.	Box 10, Thedford
Deller's Tile Limited	Brownsville
Diamond Clay Products Limited	Box 248, Burlington
Dochart Brick & Tile Co. Ltd.	Box 1150, Amprior
Domtar Construction Materials Ltd.	Cheltenham
Domtar Construction Materials Ltd.	Cooksville
Domtar Construction Materials Ltd.	Ottawa
Dresden Tile Yard Ltd.	Dresden
Elliott's Brickyard	Box 247, Sault St. Marie
Emig Clay Products Limited	202 Stanley Ave., Chatham
Fletcher Tile Ltd.	Fletcher
Foster Pottery Co. Limited, The	Frid St., Hamilton
Gomoll Brick & Tile Works	Powassan
Gravell Brick Co. Ltd.	Box 83, North Bay
Grimsby Tile Limited	Clinton Twp.
Hamilton Brick Ltd.	215 Kensington Ave. S., Hamilton
Henderson, J.	Listowel
Hill Tile Ltd.	Coatsworth
Home Brick Co.	Bracebridge
Howlett, Fred W. & Sons	4235 Main St., Parry
Huntsville Brick Works	R.R. 1, Huntsville
Janes, D.A. & Son Ltd.	Mt. Brydges
Kitchener Brick Co. Ltd.	60 Heiman St., Kitchener
Lindsay, Earl & Sons Limited	Wallaceburg

List of Establishments classified to This Industry, 1964 - Concluded

Name	Location
Ontario—Concluded:	
Martin, Amos Ltd.	Box 452, Parkhill
Martin, Amos Ltd.	Wallenstein
McFarlane, W.J. & Sons Ltd.	Box 143, Forest
McFarren, F.B. Ltd.	Streetsville
Milton Brick Co. Limited	Milton
Napanee Brick & Tile Works	Napanee
Natco Clay Products Limited	360 Unsworth Ave., Burlington
National Sewer Pipe Ltd.	Clarkson
Norwich Brick & Tile Ltd.	Norwich
Paisley Brick & Tile Co. Ltd.	Paisley
Parkhill Brick Co. Ltd.	Parkhill
Royal Canadian Art Pottery	822 Rennie St., Hamilton
Rydall Brick & Tile Ltd.	R.R. 2, London
St. Catharines Brick & Tile Co. Ltd.	70 Herrick Ave., St. Catharines
Superior Brick & Tile Co. Limited	Fort William
United Ceramics Ltd.	1425 Bayview Ave., Toronto 17
Zavi, Jarko	Main St., Brighton
Manitoba:	
Atlas Light Aggregate Ltd.	468 Panet Rd., St. Boniface
Echo Light Aggregate Ltd.	1525 Dugald Rd., St. Boniface
Pembina Mountain Clay Ltd.	945 Logan Ave., Winnipeg
Saskatchewan:	
Saskatchewan Minerals (Clay Products Division)	Box 970, Estevan
Western Clay Products Ltd.	Box 1083, Regina
Alberta:	
Alberta Potteries Ltd.	527 - 2nd St. S.E., Medicine Hat
Medicine Hat Brick & Tile Company Ltd.	Box 70, Medicine Hat
Medicine Hat Brick & Tile Co. Ltd. (Redcliff Pressed Brick Divn.)	Redcliff
Medicine Hat Brick & Tile Co. Ltd. (Redcliff Premier Brick Divn.)	Redcliff
Northwest Ceramics Ltd.	Cannell
Sunburst Ceramics Ltd.	Box 520, Medicine Hat
British Columbia:	
Clayburn-Harblson Ltd.	1690 W. Broadway, Vancouver 9
Haney Brick & Tile Ltd.	P.O. Box 38, Haney
Haney Pottery	23948 Dewdney Truck Rd., Haney
Mainland Clay Products Limited (Barnet)	8699 Angus Dr., Vancouver 14

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



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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".