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44-206

ANNUAL

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MAR 10 1959

# THE CLAY AND CLAY PRODUCTS INDUSTRY

1957

(Including data relating to Sand-Lime Brick)



*Published by Authority of*  
The Honourable Gordon Churchill, Minister of Trade and Commerce

**DOMINION BUREAU OF STATISTICS**  
Industry and Merchandising Division

6514-535-127

Price 50 cents

Vol. 1—Part I—R-1

The Queen's Printer and Controller of Stationery, Ottawa, 1959

## NOTICE

The annual reports prepared by the Industry and Merchandising Division of the Bureau of Statistics are divided into 3 volumes, as follows: **Volume I** — The Primary Industries, including mining, forestry and fisheries; **Volume II** — Manufacturing; **Volume III** — Merchandising and Services. The volumes are made up of parts, and the parts in turn are subdivided according to the industries which they comprise.

Volume I consists of the following parts:

- Part I — Mineral Statistics
- Part II — Forestry Statistics — Operations in the Woods
- Part III — Fisheries Statistics

Part I includes the following reports which constitute the complete series on Mineral Statistics of Canada. Individual reports are issued as the information becomes available; they are arranged in a form suitable for binding.

- A — General Review of the Mining Industry
- B — The Gold Mining Industry
- C — The Silver-Lead-Zinc Mining Industry
- D — The Nickel-Copper Mining, Smelting and Refining Industry
- E — The Iron Mining Industry
- F — The Miscellaneous Metal Mining Industry
- G — The Smelting and Refining Industry
- H — The Coal Mining Industry
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- J — The Asbestos Mining Industry
- K — The Feldspar and Quartz Mining Industry
- L — The Gypsum Industry
- M — The Peat Industry
- N — The Salt Industry
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- P — The Miscellaneous Non-metal Mining Industry
- Q — The Cement Manufacturing Industry
- R — The Clay and Clay Products Industry
- S — The Lime Industry
- T — The Sand and Gravel Industry
- U — The Stone Industry
- V — Contract Drilling in the Mining Industry

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## SYMBOLS

The interpretation of the symbols used in the tables throughout this publication is as follows:

- ... Not available
- ... Not applicable
- Nil

# THE CLAY AND CLAY PRODUCTS INDUSTRY

1957

(Including data relating to Sand-Lime Brick)

The industrial clays of Canada may be classed as common clays, stoneware clays, fireclays and china-clays. Common clays are produced in all provinces, stoneware clays in Saskatchewan and British Columbia and to a lesser extent in Manitoba and Nova Scotia, fireclays in Saskatchewan and British Columbia and to a lesser extent in Nova Scotia. China-clay is not produced in Canada at present but there is some production of ball clay in Saskatchewan. Bentonite is produced in Manitoba and to a lesser extent in Alberta. Large quantities of fireclay and china-clay are imported.

Since the value of domestic clay products is included in the mineral production of Canada, whereas the value of products made from imported clays is not, the clay products industry in Canada is divided into two sections for statistical purposes:

(1) Production from domestic clays, which includes building brick, structural tile, roofing tile, drain tile, stoneware, sewer pipe, pottery and refractories, and

(2) Production from imported clays, which includes the manufacture of electrical porcelains, sanitaryware, sewer pipe, tableware, artware, floor and wall tile and fireclay blocks and shapes.

The manufacture of sand-lime bricks and blocks is reviewed in Section 3 of this report, being treated as a separate industry.

A total of 145 plants operated in the domestic and imported clay products industries in 1957. They employed 6,078 persons to whom \$21,431,272 were distributed in salaries and wages. The combined production was valued at \$55,854,946 compared with \$58,735,494 in 1956.

**TABLE 1. Principal Statistics of the Clay and Clay Products Industry, Significant years, 1921 - 1957**

	Establishments	Employees	Salaries and wages	Cost of fuel and electricity at plant	Cost at plant of process supplies	Gross selling value of products	Net value of production <sup>1</sup>
number							
dollars							
<b>Products from domestic clays:</b>							
1921 .....	220	4,636	3,770,253	1,812,232	..	8,857,818	..
1929 .....	196	5,530	5,727,014	2,920,384	..	13,904,643	..
1931 .....	189	3,259	3,541,250	1,486,438	..	7,841,288	..
1933 .....	146	1,312	1,101,893	377,321	..	2,262,835	..
1937 .....	143	2,289	2,094,792	1,032,755	103,568	4,516,859	3,380,536
1939 .....	149	2,165	2,161,688	998,683	108,815	5,151,236	4,043,738
1941 .....	142	2,881	3,227,785	1,561,326	207,247	7,575,336	5,806,763
1944 .....	110	2,247	8,176,804	1,357,313	161,189	6,997,425	5,478,923
1946 .....	119	3,437	5,115,962	2,365,552	278,125	12,207,367	9,563,690
1949 .....	124	3,603	7,924,841	3,347,345	557,622	17,981,709	14,076,742
1951 .....	129	3,737	9,731,657	4,414,072	794,483	23,527,656	18,319,101
1953 .....	125	3,719	10,833,628	4,843,283	799,534	29,777,731	24,134,914
1954 .....	125	3,929	12,112,490	5,253,397	770,415	32,360,098	26,336,286
1955 .....	118	4,118	12,850,485	5,287,490	886,736	36,353,183	30,178,957
1956 .....	119	4,418	14,793,971	6,212,519	1,123,043	37,784,980	30,449,418
1957 .....	111	4,067	13,963,399	6,020,971	958,936	35,922,158	28,942,251
<b>Products from imported clays:</b>							
1929 .....	15	872	1,112,881	220,910	992,150	3,373,038	2,159,978
1933 .....	18	536	471,742	111,144	288,379	1,205,052	805,529
1937 .....	19	1,218	1,265,913	286,499	971,497	3,599,181	2,341,185
1939 .....	20	1,097	1,150,712	237,718	792,767	2,971,979	1,941,494
1946 .....	32	1,913	2,870,543	440,771	1,674,391	7,073,371	4,958,209
1949 .....	40	2,356	5,332,757	746,597	3,526,190	14,457,162	10,184,375
1951 .....	35	2,526	6,372,732	870,710	4,382,230	16,948,304	11,695,364
1953 .....	37	2,254	6,280,614	844,345	3,943,943	14,871,948	10,083,660
1954 .....	36	2,044	6,295,674	847,464	4,091,984	15,985,555	10,926,729
1955 .....	37	2,105	6,813,657	916,851	4,911,302	18,394,390	12,634,247
1956 .....	37	2,131	7,501,868	994,241	6,223,638	20,950,514	14,165,690
1957 .....	34	2,011	7,467,873	972,781	6,458,465	19,932,788	13,055,535
<b>Total:</b>							
1951 .....	164	6,263	16,104,389	5,284,782	5,176,713	40,475,960	30,014,465
1953 .....	162	5,973	17,114,242	5,687,628	4,743,477	44,649,679	34,218,574
1954 .....	161	5,973	18,408,164	6,100,861	4,862,399	48,345,653	37,263,015
1955 .....	155	6,223	19,664,142	6,204,341	5,798,038	54,747,573	42,813,204
1956 .....	156	6,349	22,295,839	7,206,760	7,346,681	58,735,494	44,615,108
1957 .....	145	6,078	21,431,272	6,993,752	7,417,401	55,854,946	41,997,786

<sup>1</sup> Gross value less cost of materials, fuel and electricity.

Note: Profits or losses cannot be calculated from above figures as data are not available for general expense items, such as interest, rent, depreciation, taxes, insurance, advertising, etc.

## I. Production from Domestic Clays, 1957

Concerns which make brick or other products from domestic clays are usually located at the clay deposits and, as clay has no value until it has been made into saleable products, it is the custom for statistical purposes to measure output at the first stage at which it is possible to place a realistic value on the products, this being the shipments of bricks, tiles, etc.

The gross value of producers' sales of domestic clays and products made from domestic clays totalled \$35,922,158 in 1957 compared with \$37,784,980 in the preceding year. The computed value of production in 1957 was \$36,856,960. Domestic clays were

produced and used in all provinces, except Prince Edward Island, to manufacture building brick, tile and other clay products. The leading provinces in value of production were: Ontario, Quebec and Alberta.

The industry employed an average of 4,067 persons and distributed \$13,963,399 in salaries and wages. Fuel cost \$5,241,836 and 62,213,022 kwh. of electricity were purchased for \$779,135. Process supplies cost \$958,936. Sales of building brick in 1957 amounted to 473,728 thousand pieces, sewer pipe, drain tile and flue linings totalled \$6,706,053 and structural tile was valued at \$3,642,840.

TABLE 2. Principal Statistics for the Domestic Clay Products Industry, 1956 and 1957

Province	Establishments	Employees	Salaries and wages	Cost of fuel and electricity at plant	Cost at plant of process supplies	Gross selling value of products
1956						
Newfoundland .....	1	8	16,852	15,637	140	47,144
Nova Scotia .....	6	227	611,287	376,312	28,548	1,196,368
New Brunswick .....	4	103	274,686	281,474	10,375	975,843
Quebec .....	14	976	3,462,643	1,593,199	363,638	9,415,707
Ontario .....	64	2,003	6,916,216	3,079,483	432,765	19,173,336
Manitoba .....	6	160	421,725	142,089	45,312	754,503
Saskatchewan .....	4	125	404,555	175,997	6,716	1,054,071
Alberta .....	10	471	1,512,445	144,571	67,773	3,038,544
British Columbia .....	10	345	1,173,562	403,757	167,776	2,128,955
Canada .....	119	4,418	14,793,971	6,212,519	1,123,043	37,784,980
1957						
Newfoundland .....	1	6	23,000	8,582	100	29,500
Nova Scotia .....	6	184	578,863	357,563	42,329	1,345,361
New Brunswick .....	4	105	270,284	235,190	8,350	803,169
Quebec .....	14	958	3,433,151	1,572,030	322,375	8,898,855
Ontario .....	60	1,852	6,451,764	2,917,157	310,840	18,353,299
Manitoba .....	6	160	444,287	134,763	46,653	827,697
Saskatchewan .....	5	139	436,313	195,686	7,377	1,015,389
Alberta .....	7	362	1,259,500	189,709	64,313	2,628,167
British Columbia .....	8	301	1,066,237	410,291	156,599	2,020,701
Canada .....	111	4,067	13,963,399	6,020,971	958,936	35,922,158

TABLE 3. Producers' Sales of Domestic Clay and Domestic Clay Products, 1956 and 1957

Product	Sales or shipments				
	1956		1957		
	Quantity	Value	Quantity	Value	
Clay:		\$		\$	
Fireclay .....	ton	8,448	64,588	5,600	44,143
Other clay (includes bentonite) .....	—	—	393,050	—	511,491
Fireclay blocks and shapes .....	—	—	471,083	—	376,492
Firebrick .....	M	4,258	430,922	5,411	537,067
Brick:					
Soft mud process:					
Face .....	"	58,547	2,780,322	8,263	361,823
Common .....	"	11,204	362,229	3,475	85,674
Stiff mud process (wire cut):					
Face .....	"	238,502	12,031,829	250,058	13,303,621
Common .....	"	54,009	1,711,898	77,004	2,659,947
Dry press:					
Face .....	"	98,000	5,309,528	79,198	4,174,821
Common .....	"	48,397	1,699,989	54,365	1,930,292
Fancy or ornamental brick (including special shapes, embossed and enamelled brick) .....	"	627	71,175	255	29,428
Sewer brick .....	"	815	38,779	1,108	44,563
Paving brick .....	"	354	29,416	190	15,493
Structural tile:					
Hollow blocks (including fireproofing and load-bearing tile) .....	ton	206,348	3,863,522	183,558	3,575,748
Roofing tile .....	No.	—	—	—	—
Floor tile (quarries) and glazed tile .....	sq. ft.	238,817	98,280	153,081	67,092
Drain tile .....	M	48,636	3,004,956	51,990	2,983,953
Sewer pipe .....	—	—	2,996,645	—	2,725,357
Flue linings .....	—	—	946,588	—	996,743
Pottery, glazed or unglazed (including coarse earthenware, sanitaryware, stone ware, flower pots, and all pottery) .....	—	—	610,614	—	633,252
Other products .....	—	—	869,567	—	865,158
Total .....	—	—	37,784,980	—	35,922,158

TABLE 4. Producer's Sales of Domestic Clay and Domestic Clay Products, by Provinces, 1955 - 1957

	1955			1956			1957		
	Value			Value			Value		
dollars									
Newfoundland .....	49,338			47,145			29,500		
Nova Scotia .....	1,196,968			1,196,868			1,345,361		
New Brunswick .....	704,025			975,855			803,169		
Quebec .....	8,451,362			9,415,703			8,898,855		
Ontario .....	18,314,320			19,173,336			18,353,299		
Manitoba .....	635,554			754,503			827,697		
Saskatchewan .....	992,307			1,054,071			1,015,389		
Alberta .....	2,800,481			3,038,544			2,628,187		
British Columbia .....	2,115,415			2,128,955			2,020,701		
Canada .....	35,259,770			37,784,980			35,922,158		

**TABLE 5. Producers' Sales of Clay Building Brick, 1948 - 1957**

Year	Quantity	Value	Average value per M <sup>1</sup>	Year	Quantity	Value	Average value per M <sup>1</sup>
	M	\$			M	\$	
1948 .....	320,693	9,597,463	29.93	1953 .....	426,446	18,352,718	43.08
1949 .....	330,867	10,523,675	31.81	1954 .....	467,738	20,752,225	43.44
1950 .....	375,247	12,713,753	33.88	1955 .....	489,240	22,157,837	45.29
1951 .....	379,434	14,042,191	37.01	1956 .....	510,101	24,005,749	47.06
1952 .....	369,605	14,851,176	40.18	1957 .....	473,728	22,590,169	47.69

<sup>1</sup> 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 6. Producers' Sales of Clay Building Brick,<sup>1</sup> by Provinces, 1956 and 1957**

Province	1956		1957	
	Quantity	Value	Quantity	Value
	M	\$	M	\$
Newfoundland .....	940	47,145	502	29,500
Nova Scotia .....	11,921	547,366	14,753	752,227
New Brunswick .....	16,448	698,760	13,065	515,029
Quebec .....	175,893	7,270,450	163,378	6,885,096
Ontario .....	242,463	12,941,468	233,559	12,309,760
Manitoba .....	5,703	237,810	4,671	192,484
Saskatchewan .....	12,035	422,625	8,878	371,548
Alberta .....	35,973	1,346,652	29,787	1,199,949
British Columbia .....	8,725	493,473	5,135	334,576
<b>Canada</b> .....	<b>510,101</b>	<b>24,005,749</b>	<b>473,728</b>	<b>22,590,169</b>
Average value per M .....	—	47.06	—	47.69

<sup>1</sup> Includes fancy and sewer brick.

**TABLE 7. Producers' Sales of Drain Tile, Sewer Pipe and Flue Linings made from Domestic Clays, 1948 - 1957**

Year	Value	Year	Value
	\$		\$
1948 .....	3,449,294	1953 .....	5,838,362
1949 .....	3,415,278	1954 .....	6,212,425
1950 .....	4,259,992	1955 .....	7,107,946
1951 .....	4,426,186	1956 .....	6,948,189
1952 .....	4,919,260	1957 .....	6,706,053

**TABLE 8. Producers' Sales of Drain Tile, Sewer Pipe and Flue Linings made from Domestic Clays, by Provinces, 1956 and 1957**

Province	1956	1957
	dollars	
Newfoundland .....	—	—
Nova Scotia .....	444,575	415,318
New Brunswick .....	12,100	67,677
Quebec .....	471,713	395,067
Ontario .....	4,170,751	4,088,052
Saskatchewan .....	12,207	17,517
Alberta .....	1,060,425	953,968
British Columbia .....	776,418	768,454
<b>Canada</b> .....	<b>6,948,189</b>	<b>6,706,053</b>

**TABLE 9. Producers' Sales of Fireclay, Fireclay Blocks and Shapes and Firebrick made from Domestic Clays, 1948-1957**

Year	Fireclay		Fireclay blocks and shapes	Firebrick	
	Short tons	Value	Value	Quantity	Value
			dollars	M	\$
1948 .....	10,206	59,317	318,810	4,111	311,517
1949 .....	5,204	46,377	311,104	1,127	87,186
1950 .....	8,840	55,449	340,137	1,631	132,052
1951 .....	17,920	86,190	374,707	2,880	245,722
1952 .....	16,118	85,437	395,017	3,198	280,146
1953 .....	10,102	62,162	412,467	2,671	247,634
1954 .....	10,770	61,750	316,061	2,416	230,907
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

Note: Firebrick and fireclay blocks and shapes are also made from imported clays; see Table 26.

**TABLE 10. Producers' Sales of Fireclay Blocks and Shapes and Firebrick made from Domestic Clays, by Provinces, 1957**

Province	Fireclay		Fireclay blocks and shapes	Firebrick	
	Short tons	Value	Value	Quantity	Value
			dollars	M	\$
Nova Scotia .....	2,862	14,380	—	—	—
Saskatchewan .....	1,123	18,268	328,929	—	—
British Columbia .....	1,615	11,495	47,563	5,411	537,067
Canada .....	5,600	44,143	376,492	5,411	537,067

**TABLE 11. Producers' Sales of Pottery made from Domestic Clays, 1948-1957**

Year	Value	Year		Value
		\$		
1948 .....	921,970	1953 .....		569,069
1949 .....	501,241	1954 .....		534,220
1950 .....	612,669	1955 .....		603,865
1951 .....	374,016	1956 .....		610,614
1952 .....	540,862	1957 .....		633,252

**TABLE 12. Producers' Sales of Pottery made from Domestic Clays, by Provinces, 1956 and 1957**

Province	1956	1957
dollars		
Nova Scotia .....	4,600	5,000
New Brunswick .....	83,112	84,773
Quebec .....	—	—
Ontario .....	367,609	438,282
Alberta .....	116,908	57,585
British Columbia .....	38,385	47,612
<b>Canada</b> .....	<b>610,614</b>	<b>633,252</b>

**TABLE 13. Producers' Sales of Structural Tile made from Domestic Clays, 1948-1957**

Year	Hollow blocks <sup>1</sup>		Roofing tile		Floor tile (quarries) <sup>2</sup>	
	Short tons	Value	Number	Value	Square feet	Value
		\$		\$		\$
1948 .....	166,195	2,364,949	—	—	240,101	89,719
1949 .....	166,090	2,482,224	—	—	178,884	70,969
1950 .....	178,372	2,872,885	32,590	1,855	254,208	94,389
1951 .....	195,184	3,168,239	7,000	400	249,067	90,897
1952 .....	184,981	3,185,775	—	—	227,542	98,285
1953 .....	209,879	3,582,625	—	—	182,466	75,982
1954 .....	185,069	3,432,799	10,000	350	169,326	70,091
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

<sup>1</sup> Includes fireproofing and load-bearing tile.<sup>2</sup> Includes value of glazed floor and wall tile.**TABLE 14. Producers' Sales of Structural Tile made from Domestic Clays, by Provinces, 1957**

Province	Hollow blocks <sup>1</sup>		Floor tile (quarries) <sup>2</sup>	
	Short tons	Value	Square feet	Value
		\$		\$
Nova Scotia .....	12,182	158,436	—	—
New Brunswick .....	7,058	135,690	—	—
Quebec .....	72,920	1,603,875	—	—
Ontario .....	54,948	1,017,872	153,081	67,092
Saskatchewan .....	2,446	42,974	—	—
Alberta .....	24,146	416,685	—	—
British Columbia .....	9,858	200,216	—	—
<b>Canada</b> .....	<b>183,558</b>	<b>3,575,748</b>	<b>153,081</b>	<b>67,092</b>

<sup>1</sup> Includes fireproofing and load-bearing tile.<sup>2</sup> Includes value of glazed floor and wall tile.

TABLE 15. Producers' Sales of Bentonite and Kaolin, by Provinces, 1948-1957

Year	Bentonite <sup>1</sup>				Kaolin <sup>2</sup>	
	Manitoba	Alberta	British Columbia	Canada		
	dollars				tons	\$
1948 .....	336,003	3,710	—	339,713	—	—
1949 .....	360,591	7,277	—	367,868	—	—
1950 .....	533,390	1,483	—	534,873	—	—
1951 .....	496,403	3,153	—	499,556	—	—
1952 .....	385,448	3,094	—	388,542	—	—
1953 .....	Not available					
1954 .....	Not available					
1955 .....	Not available					
1956 .....	Not available					
1957 .....	Not available					

<sup>1</sup> Quantity not available for publication.<sup>2</sup> All from Quebec.

TABLE 16. Available Data on the Consumption of Bentonite in Canada, 1955 and 1956

		1955	1956
		tons	
<b>(a) By industries:</b>			
Steel foundries .....		4,786	6,701
Cement products .....		—	—
Miscellaneous non-metallic mineral products .....		958	976
Soaps and cleaning preparations .....		622	826
Pulp and paper .....		346	188
Petroleum refining .....		5,806	5,111
Vegetable oil mills .....		302	292
Oil well drilling <sup>1</sup> .....		12,216	11,321
Polishes and dressings .....		4	1
Asbestos products .....		480	528
Miscellaneous chemicals .....		1,103	58
Iron castings .....		934	2,019
Gypsum products .....		64	—
Paints and varnishes .....		—	141
<b>Total .....</b>		<b>27,621</b>	<b>28,162</b>
<b>(b) By provinces:</b>			
Newfoundland and Nova Scotia .....		—	—
New Brunswick .....		88	133
Quebec .....		3,854	4,850
Ontario .....		8,385	8,326
Manitoba .....		1,029	1,021
Saskatchewan .....		407	376
Alberta .....		13,551	13,114
British Columbia .....		307	342
<b>Canada .....</b>		<b>27,621</b>	<b>28,162</b>

<sup>1</sup> Conjectural.

TABLE 17. Available Data on the Consumption of Fuller's Earth in Canada, 1955 and 1956

	1955	1956
	tons	
(a) By industries:		
Soaps and cleaning preparations .....	369	192
Petroleum refining .....	1,189	1,384
Slaughtering and meat-packing .....	1	1
Vegetable oil mills .....	1	1
Miscellaneous foods .....	—	200
Miscellaneous chemicals .....	6	7
<b>Total</b> .....	<b>1,565</b>	<b>1,783</b>
(b) By provinces:		
Quebec .....	269	278
Ontario .....	1,218	1,429
Manitoba .....	2	1
Saskatchewan .....	18	21
Alberta .....	42	34
British Columbia .....	16	20
<b>Canada</b> .....	<b>1,565</b>	<b>1,783</b>

<sup>1</sup> Not listed.

TABLE 18. Available Data on the Consumption of China-clay (Kaolin) in Canada, 1955 and 1956

	1955	1956
	tons	
(a) By industries:		
Paints .....	1,634	1,672
Toilet preparations .....	29	30
Miscellaneous chemical products .....	110	177
Imported clay products .....	8,086	9,248
Linoleum .....	1,368	..
Wall paper .....	see paper goods	
Rubber goods .....	7,992	3,823
Pulp and paper .....	58,214	68,069
Miscellaneous non-metallic minerals .....	71	1,663
Polishes and dressings .....	101	76
Adhesives .....	2,299	2,187
Electrical apparatus .....	1,552	1,495
Cement products .....	—	—
Tanneries .....	44	67
Enamelling .....	—	—
Paper goods .....	1,843	13,363
Explosives .....	—	104
Gypsum products .....	—	5
<b>Total</b> .....	<b>83,343</b>	<b>101,979</b>
(b) By provinces:		
Newfoundland and Nova Scotia .....	126	69
New Brunswick .....	918	859
Quebec .....	31,223	32,715
Ontario .....	46,742	62,469
Manitoba .....	118	115
Saskatchewan .....	—	—
Alberta .....	313	778
British Columbia .....	3,903	4,974
<b>Canada</b> .....	<b>83,343</b>	<b>101,979</b>

TABLE 19. Clays and Earths<sup>1</sup> Used in the Rubber Goods Industry, 1953-1957

Year	Tons	Value
		\$
1953 .....	14,520	449,909
1954 .....	13,804	442,694
1955 .....	14,529	449,249
1956 .....	15,290	505,873
1957 .....	13,652	454,089

<sup>1</sup> Includes china-clay, kaolin, and other clays and earths.

TABLE 20. Firebrick, Fireclay and Cupola Blocks Used in the Manufacture of Iron and Steel and their Products, 1953-1957

Year	Cost at works
	\$
1953 .....	6,949,000
1954 .....	6,163,000
1955 .....	8,061,000
1956 .....	10,079,000 <sup>1</sup>
1957 .....	11,773,000

<sup>1</sup> Revised.

TABLE 21. Filtering Earths Used in the Sugar Refining Industry, 1953-1957

Year	Sugar refineries	
	Pounds	Value
	\$	
1953 .....	3,887,955	128,658
1954 .....	3,742,900	126,414
1955 .....	4,188,644	158,960
1956 .....	4,391,505	165,026
1957 .....	4,519,405	174,677

TABLE 22. Imports and Exports of Clay and Clay Products, 1956 and 1957

Item	1956		1957	
	Quantity	Value	Quantity	Value
<b>Imports</b>				
China-clay .....	cwt.	2,407,721	2,002,154	2,567,912
Fireclay .....	"	1,961,335	542,167	1,473,524
Pipe clay .....	"	270,397	33,295	289,498
Clays, all other, n.o.p. ....	"	—	563,641	—
Zirconium silicate .....	"	—	193,986	—
Zirconium oxide .....	"	—	17,048	—
Saggars .....	"	—	115,771	—
Activated clay, for the refining of oils .....	"	—	1,484,124	—
Grog for refractory materials .....	ton	10,011	301,114	10,795
Brick, building .....	"	116,243	2,588,367	96,271
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. ....	"	—	1,311,224	—
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) ....	"	—	5,359,367	—
Brick, fire, n.o.p. ....	"	—	4,374,945	—
Brick, paving .....	ton	1,795	30,278	3,629
Building blocks, building tile .....	"	—	1,563,309	—
Drain pipes, sewer pipes and earthenware fittings, chimney linings or vents, chimney tops or inverted blocks, glazed or unglazed, n.o.p. ....	"	—	606,278	—
Drain tiles, not glazed .....	"	—	—	—
Tiles or blocks of earthenware or stone, prepared for mosaic flooring .....	"	—	380,299	—
Earthenware tiles for roofing .....	"	—	21,258	—
Tiles, earthenware, n.o.p. ....	"	—	2,010,597	—
Chemical stoneware .....	"	—	204,068	—
Hand forms of porcelain, for the manufacture of rubber gloves .....	"	—	16,372	—
China and porcelain ware, n.o.p. ....	"	—	69,389	—
Demijohns, churns, or crocks, n.o.p. ....	"	—	37,628	—
Tableware of china, porcelain .....	"	—	13,884,539	—
Stoneware, Rockingham ware and earthenware, n.o.p. ....	"	—	2,084,976	—
Artificial teeth, not mounted .....	"	—	1,326,426	—
Baths, bathtubs, etc., n.o.p. ....	"	—	5,859,386	—
Crucibles, n.o.p., and covers .....	"	—	106,254	—
Insulators, electric porcelain, and parts .....	"	—	1,136,692	—
Manufactures of clay, n.o.p. ....	"	—	827,942	—
<b>Total</b> .....	"	—	<b>49,052,894</b>	—
<b>Exports</b>				
Building brick .....	M	5,648	321,650	4,066
Bricks, fire .....	"	—	2,314,824	—
Clay, manufactures of, n.o.p. ....	"	—	190,984	—
Clays, unmanufactured .....	cwt.	94,214	148,761	104,901
Earthenware .....	"	—	265,733	—
Porcelain insulators .....	"	—	98,980	—
<b>Total</b> .....	"	—	<b>3,340,932</b>	—
<b>Note:</b> "n.o.p." means "Not otherwise provide for" in the statistical classification.				

TABLE 23. Employees and their Earnings in the Domestic Clay Products Industry, 1953-1957

Year	Number of employees						Number of man-hours worked (all employees)	Earnings			
	Administration and office		Workmen		Total	Administration and office		Workmen		Total	
	Male	Female	Male	Female				Male	Female		
dollars											
1953 .....	206	36	3,382	95	3,719	9,022,951	966,902	9,866,726	10,833,628		
1954 .....	214	42	3,593	80	3,929	9,209,403	1,044,295	11,068,195	12,112,490		
1955 .....	258	46	3,743	71	4,118	9,612,125	1,220,077	11,630,408	12,850,485		
1956 .....	317	50	3,986	65	4,418	10,308,939	1,624,652	13,169,319	14,793,971		
1957 .....	346	55	3,604	62	4,067	9,138,790	1,808,173	12,155,226	13,963,399		

TABLE 24. Workmen in the Domestic Clay Products Industry, by Months, 1956 and 1957

Month	1956						1957					
	Pit	Plant			Total	Pit	Plant			Total		
		Male	Male	Female			Male	Male	Female			
number												
January .....	115	3,395	64	3,574	92	2,830	63	2,985				
February .....	123	3,383	73	3,579	102	2,671	63	2,836				
March .....	125	3,393	73	3,591	121	2,884	60	3,045				
April .....	141	3,639	73	3,853	132	3,032	55	3,219				
May .....	176	4,116	80	4,372	171	3,726	62	3,959				
June .....	174	4,293	46	4,513	176	3,912	65	4,153				
July .....	184	4,327	36	4,547	196	3,965	58	4,219				
August .....	188	4,248	65	4,501	191	3,939	65	4,195				
September .....	162	4,083	64	4,309	175	3,878	69	4,122				
October .....	157	3,937	61	4,155	159	3,690	61	3,910				
November .....	146	3,700	66	3,912	132	3,582	58	3,772				
December .....	123	3,356	70	3,549	108	3,141	59	3,308				
Average .....	160	3,826	65	4,051	161	3,443	62	3,666				
Number of man-hours worked .....				9,408,659								8,288,736

TABLE 25. Fuel and Electricity Used in the Domestic Clay Products Industry, 1957

Kind		Quantity	Cost at plant
		\$	
Bituminous coal (a) From Canadian mines .....	short ton	18,171	249,700
(b) Imported .....	"	121,517	1,702,366
Sub-bituminous coal (from Alberta mines only) .....	"	437	4,112
Anthracite coal .....	"	541	10,898
Lignite coal .....	"	2,741	7,696
Coke (for fuel only) .....	"	1,632	21,997
Gasoline, (includes gasoline used in cars and trucks) .....	Imp. gal.	724,222	249,696
Kerosene or coal oil .....	"	1,531	487
Fuel oil .....		19,679,581	2,185,100
Wood (cords of 128 cubic feet of piled wood) .....	cord	20,695	198,651
Gas (a) Liquefied petroleum gases (propane, etc.) .....	Imp. gal.	62,252	33,243
(b) Other manufactured gas .....	M cu. ft.	—	—
(c) Natural gas .....	"	2,424,055	576,367
Other fuel .....	kwh.	62,213,022	1,523
Electricity purchased for power and lighting .....	kwh.	779,135	—
Electricity purchased for other purposes .....	"	—	—
Total (cost only) .....	—	...	6,020,971
Electricity generated (a) For own use .....	kwh.	2,820	—
(b) For sale .....	"	—	—

**List of Firms in the Domestic Clay Products Industry, 1957**

(a) Clay used (b) Shale used (c) Idle, 1957 (d) Produce bentonite

Name of firm	Head office address	Location of plant
<b>Newfoundland:</b>		
Pelly, C. & M., Limited (b) .....	Milton .....	Milton
<b>Nova Scotia:</b>		
Foley Pottery Ltd. ....	Saint John, New Brunswick .....	Musquodoboit
Harriss & Harriss .....	5 Bying Ave., Sydney .....	Sydney
Shaw, L.E., Limited (a) (b) .....	Box 996, Halifax .....	Lantz and New Glasgow
Standard Clay Products Limited (a) (b) .....	St. Johns, Quebec .....	New Glasgow
<b>New Brunswick:</b>		
Atlantic Building Products, Ltd. (a) .....	Box 31, Saint John .....	Little River
Shaw, L.E., Limited (b) .....	Box 996, Halifax, Nova Scotia .....	Chipman
<b>Quebec:</b>		
Brique St. Jean Ltée (a) .....	Deschaillons .....	Deschaillons
Briqueterie Mistassini Inc. (c) .....	St-Michel .....	St-Michel
Castonguay, H. (a) .....	Deschaillons .....	Deschaillons
Citadelle Brique Ltée (b) .....	2140 Blvd. Ste-Anne .....	Beauport E. et Boischatel
Demers, Bordeleau (a) .....	Deschaillons .....	Deschaillons
East Angus Brick & Tile Reg'd. (a) (b) .....	Box 553, East Angus .....	East Angus
Laprairie Co. Inc., The (a) (b) .....	906 University Tower Bldg., Montreal ..	Laprairie and Deison Junction
Montreal Terra Cotta Limited (a) .....	901 Dominion Square Bldg., Montreal ..	Deschaillons and Lakeside
Roy, Phillippe (a) .....	St. George West .....	St. George West
St. Lawrence Brick Co., Limited (b) .....	1010 Ste. Catherine St. W., Montreal ..	Laprairie
St-Tite Briqueterie Ltée (c) .....	St-Tite .....	St-Tite
Scott Brique Ltée, La (a) .....	Scott Junction .....	Scott Junction
Standard Clay Products Limited (a) .....	Box 189, St. Johns .....	St. Johns
Victoria Brique Limitée (a) .....	Casier Postalio, Victoriaville .....	Victoriaville
<b>Ontario:</b>		
Bannerman, M. (a) .....	Greenock .....	Greenock
Barnes, Wm. R., Co. Ltd. .....	Waterdown .....	Waterdown
Bauman, N. (a) .....	Wallenstein .....	Waterloo, Co.
Beaverton Brick & Tile (a) .....	Beaverton .....	Beaverton
Booth-Yeats Limited (a) .....	320 Horner Ave., Toronto 14 .....	North York
Brampton Brick Limited (b) .....	147 University Ave., Toronto .....	Brampton
Brantford Clay Products Ltd. (a) .....	R.R. 3, Brantford .....	Brantford
Broadwell, B., & Son (a) .....	Box 537, Kingsville .....	Kingsville
Canada Brick Limited (a) (b) .....	Box 460, Streetsville .....	Streetsville
Canadian Pressed Brick Co. Ltd.,(The) (b) .....	Kenilworth Drive, Hamilton .....	Hamilton
Central Tile Brick Corporation Ltd. (a) .....	Tilbury .....	Belle River and Tilbury
Construction Materials Limited (b) .....	320 Horner Ave., Toronto 14 .....	New Toronto
Cooksville Company Limited, (The) (b) .....	1055 Yonge St., Toronto .....	Cooksville, Cheltenham and Milton
Coultis, Geo., & Son (b) .....	Thedford .....	Bosanquet Twp.
Curtin, F., Estate (c) .....	R.R. 4, Lindsay .....	Lindsay
Dellers Tile Limited (a) .....	Brownsville .....	Brownsville

**List of Firms in the Domestic Clay Products Industry, 1957 — Continued**

(a) Clay used (b) Shale used (c) Idle, 1957 (d) Produce bentonite

Name of firm	Head office address	Location of plant
<b>Ontario — Concluded:</b>		
Dochart Brick & Tile Co. Ltd. (a) .....	Box 397, Arnprior .....	Arnprior
Dresden Tile Yard Ltd. (a) .....	R.R. 2, Dresden .....	Dresden
Elliott's Brickyard (a) .....	Box 427, Sault St. Marie .....	Korah Twp.
Elliott, Wm. J. (a) .....	Glenannan .....	Glenannan
Emig Clay Products (a) .....	Box 71, Chatham .....	Chatham
Fletcher Brick & Tile (a).....	Fletcher .....	Tilbury E. Twp.
Frid Bros. Limited (a) .....	690 Main St. W., Hamilton .....	Hamilton
Grimsby Tile Limited (a) .....	Box 474 Grimsby .....	Clinton Twp.
Hamilton Pressed Brick Co. (b) .....	215 Kensington Ave. S., Hamilton .....	Wentworth Co.
Henderson, J. (a) .....	Listowel .....	Grey Twp.
Hill, A.W., & Sons (a) .....	Coatsworth .....	Tilbury E. Twp.
Holder's Tile Yard (c) .....	Dutton .....	Dutton
Home Brick Works (c) .....	Bracebridge .....	Bracebridge
Howlett, Fred W., & Sons (a).....	Box 849, Petrolia .....	Petrolia
Huntsville Brick Works (a).....	Box 219, Huntsville .....	Huntsville
Janes, D.A. (a) .....	Mt. Brydges .....	Caradoc Twp.
Kitchener Brick Co. Ltd. (a) (b) .....	60 Heiman St., Kitchener .....	Waterloo Twp.
Lindsay, Earl, & Sons (a) .....	R.R. 2, Wallaceburg .....	Wallaceburg
Martin, Amos (a) .....	R.R. E, Wallenstein .....	Peel Twp.
McFarlane, W.J. (a).....	Forest .....	Forest
McFarren, F.B. (a) .....	120 Wellington St. W., Toronto .....	Streetsville
Milton Brick Co. Limited (b) .....	170 Bloor St. W., Toronto .....	Milton
Napanee Brick & Tile Works (a) .....	R.R. 3, Napanee .....	Napanee
Natco Clay Products Limited (b) .....	57 Bloor St. W., Toronto .....	Aldershot
National Sewer Pipe Ltd. (a) (b) .....	320 Bay St., Toronto .....	Hamilton and Swansea
Norwick Brick & Tile Works (a) .....	R.R. 2, Norwick .....	Norwick
Ontario Reformatory (a) (b) .....	Box 75, New Toronto .....	Mimico
Ottawa Brick & Terra Cotta Co. Ltd, The (a) (b) .....	Billings Bridge .....	Billings Bridge
Parkhill Brick Co. Ltd. (a) .....	Parkhill .....	Parkhill
Phippen Brick Co. (a).....	390 Dawes Rd., Toronto .....	East York
Rydall, J.A., Brick & Tile (a).....	R.R. 2, London .....	London
St. Catharines Brick & Tile Co. Ltd. (b).....	70 Herrick Ave., St. Catharines .....	Niagara Twp.
St. Clements Tile Yard (a) .....	St. Clements .....	St. Clements
Singer, H.H., (Owen Sound Brick Co.) (a) .....	Owen Sound .....	Owen Sound
Superior Brick & Tile Co. Limited (a) .....	121 South May St., Fort William .....	Paipoonge Twp.
Toronto Brick Co. Ltd. (a) (b).....	425 Bayview Ave., Toronto .....	Todmorden and Toronto
Wallace, R., & Son (c) .....	238 First Ave. E., North Bay .....	Widdifield Twp.
Wilkesport Tile & Brick Company (a).....	Wilkesport .....	Wilkesport
Wright, F.M., & Son (a) .....	Comber .....	Tilbury W. Twp.
<b>Manitoba:</b>		
Alsip Brick, Tile & Lumber Company Lim- ited (a) .....	508 Portage Ave., Winnipeg .....	Portage la Prairie, Whitemouth and Winnipeg
Atlas Light Aggregate Ltd, (a) .....	468 Panet Rd., St. Boniface .....	St. Boniface
Pembina Mountain Clay Ltd. (d).....	945 Logan Ave., Winnipeg .....	Morden
Winnipeg Light Aggregate Ltd. (a) .....	255-3rd Ave. S., Saskatoon, Sask. ....	Transcona

**List of Firms in the Domestic Clay Products Industry, 1957 — Concluded**  
 (a) Clay used (b) Shale used (c) Idle, 1957 (d) Produce bentonite

Name of firm	Head office address	Location of plant
<b>Saskatchewan:</b>		
Aggregates & Construction Products Ltd. (a)	255 Third Ave., S., Saskatoon .....	Regina
Bruno Clay Works Limited (a) .....	508 Portage Ave., Winnipeg, Manitoba.	Bruno
Dominion Fire Brick & Clay Products (1954) Ltd., The (a) .....	Box 99, Moose Jaw .....	Claybank
Saskatchewan Clay Products Corporation (a) .....	Estevan .....	Estevan
Western Clay Products Ltd. (a) .....	255 Third Ave., S., Saskatoon .....	Regina
<b>Alberta:</b>		
Alberta Clay Products Ltd. (a) .....	Box 90, Medicine Hat .....	Medicine Hat
Alexandra Brick & Tile Co. (Canada) Ltd. (a)	306 Qu'Appelle Bldg., Edmonton .....	Cannell
Medicine Hat Brick & Tile Co. Ltd. (a) .....	Box 410, Medicine Hat .....	Medicine Hat
Perry Brick & Tile Co. Ltd. (a) .....	Redcliff .....	Redcliff
Redcliff Premier Brick Co. Ltd. (a) .....	Redcliff .....	Redcliff
Redcliff Pressed Brick Co. Ltd. (a) .....	Redcliff .....	Redcliff
<b>British Columbia:</b>		
Baker Brick & Tile Company Limited (a) .....	Box 1270, Victoria .....	Victoria
Bazan Bay Brick & Tile Co. Ltd. (a) .....	1051 Main St., Vancouver .....	Saanichton
Clayburn — Harrison Limited (a) (b) .....	850 West Hastings St., Vancouver .....	Kilgard and Abbotsford
Fairey & Company Limited (a) .....	661 Taylor St., Vancouver .....	Vancouver
Haney Brick & Tile Ltd. (a) .....	Haney .....	Haney
Mainland Clay Products Limited (a) .....	8699 Angus Drive, Vancouver .....	Barnett

**Producers of Stoneware and Pottery, 1957**

Name of firm	Head office address	Location of plant
<b>Nova Scotia:</b>		
Lorenzen, E. (a) .....	Lantz .....	Lantz
<b>New Brunswick:</b>		
Canuck Pottery (a) .....	Box 123, Saint John .....	Little River
The Dykelands (a) .....	Sussex .....	Sussex
<b>Ontario:</b>		
Blue Mountain Pottery (a) .....	Collingwood .....	Collingwood
Foster Pottery Company Ltd. (a) .....	Frid St., Hamilton .....	Hamilton
Royal Canadian Art Pottery (a) .....	Hamilton .....	Hamilton
Zavi, Jarko (a) .....	Cobourg .....	Cobourg
<b>Alberta:</b>		
Alberta Potteries Limited (a) .....	Box 590, Medicine Hat .....	Redcliff
<b>British Columbia:</b>		
B.C. Clay Products (a) .....	3439 Euclid Ave., Vancouver .....	Bear Creek

## II. Production from Imported Clays, 1957

This industry covers the operations of Canadian plants which were occupied chiefly in making ceramic products from imported clays. Products made in these plants during 1957 included high tension insulators, vitreous china, sanitaryware, china dinnerware, firebrick, sewer pipe, floor and wall tile, refractory cements, electrical porcelains, etc.

Thirty-four plants reported in this group in 1957 and their output was valued at \$19,932,788 as against last year's total of \$20,950,514 and the 1955 total of \$18,394,390. The total number of employees was 2,011 and payments for salaries and wages amounted to \$7,467,873. Fuel and electricity cost

\$972,781 and materials for use in manufacturing processes cost \$6,458,465.

**Note:** Due to lack of inventory data, figures for value added by manufacture shown in Table 26, prior to 1954 were obtained by subtracting the cost of materials used, including fuel and electricity, from the total value of factory shipments. In 1954 and 1955 the "Value Added" adjustment incorporated the increase or decrease to shipments values resulting from changes in the value of inventories over the period. For these two years, the adjustments that were made used only the change in finished product inventory owned by manufacturers. Beginning with 1956 the calculation of the "Value Added" figure was further adjusted to take into account the "Goods in Process" as well as the finished goods held at plant or plant warehouse.

TABLE 26. Principal Statistics of the Imported Clay Products Industry Significant Years  
1929 - 1957 and by Provinces, 1956 and 1957

Year and province	Establishments	Employees	Salaries and wages	Cost of fuel and electricity at works	Cost at plant of materials used	Value added by manufacture <sup>1</sup>	Gross selling value of products <sup>1</sup>
number							
1929 .....	15	872	1,112,881	200,910	992,150	2,159,978	3,373,038
1933 .....	18	536	471,742	111,144	288,379	805,529	1,205,052
1937 .....	19	1,218	1,265,913	286,499	971,497	2,341,185	3,599,181
1939 .....	20	1,097	1,150,712	237,718	792,767	1,941,494	2,971,979
1942 .....	24	1,396	2,050,238	386,969	1,170,938	3,839,321	5,397,228
1946 .....	32	1,913	2,870,543	440,771	1,674,391	4,958,209	7,073,371
1949 .....	40	2,356	5,332,757	746,597	3,526,190	10,184,375	14,457,162
1953 .....	37	2,254	6,280,614	844,345	3,943,943	10,083,660	14,871,948
1954 .....	36	2,044	6,295,674	847,464	4,091,984	10,926,729	15,985,555
1955 .....	37	2,105	6,813,657	916,851	4,911,302	12,634,247	18,394,390
1956							
Quebec .....	11	682	2,505,105	374,251	1,503,314	6,002,558	7,597,412
Ontario .....	21	1,314	4,744,763	598,770	4,595,623	7,798,361	12,872,292
Alberta .....	2	135	252,000	21,220	124,701	364,771	480,810
British Columbia .....	3						
Canada .....	37	2,131	7,501,868	994,241	6,223,638	14,165,690	20,950,514
1957							
New Brunswick .....	1	661	2,502,400	370,654	1,657,136	5,457,242	7,192,514
Quebec .....	11						
Ontario .....	18	1,187	4,648,595	585,367	4,658,981	7,330,232	12,226,711
Alberta .....	2	163	316,878	16,760	142,348	268,061	513,563
British Columbia .....	2						
Canada .....	34	2,011	7,467,873	972,781	6,458,465	13,055,535	19,932,788

<sup>1</sup> See footnote to Text.

Note: Profits or losses cannot be calculated from the above figures as data are not available for general expense items, such as interest, rent, depreciation, taxes, insurance, advertising, etc.

TABLE 27. Inventories<sup>1</sup> in the Imported Clay Products Industry, 1957

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
dollars				
<b>Opening:</b>				
Quebec and New Brunswick .....	466,488	257,317	472,337	1,196,142
Ontario .....	1,063,535	269,065	754,759	2,087,359
Alberta and British Columbia .....	77,811	57,677	103,037	238,525
<b>Canada</b> .....	<b>1,607,834</b>	<b>584,059</b>	<b>1,330,133</b>	<b>3,522,026</b>
<b>Closing:</b>				
Quebec and New Brunswick .....	472,953	346,285	675,887	1,495,125
Ontario .....	1,191,618	399,836	971,857	2,563,311
Alberta and British Columbia .....	62,577	28,127	46,193	136,897
<b>Canada</b> .....	<b>1,727,148</b>	<b>774,248</b>	<b>1,693,937</b>	<b>4,195,333</b>

<sup>1</sup> (a) Book value of all manufacturing inventories owned and held at plant and plant warehouses.

(b) Beginning with 1954, information on the value of year-end inventory holdings at plant and plant warehouses is being collected as part of the annual Census of Industry. These data were formerly collected by a separate survey. The summarized results for the Imported Clay Products Industry for the year under review are shown in the above table.

(c) The opening inventory for 1957 does not necessarily agree with the closing inventory for 1956, because of the addition of new plants, the transfer of plants to other industries and plants going out of business, etc. However, the value added figures for the previous year have not been recalculated to allow for the changes mentioned above.

TABLE 28. Products Made in the Imported Clay Products Industry, 1956 and 1957

Product	Value of factory shipments	
	1956	1957
dollars		
Firebrick and stove linings .....	1,107,835	728,264
High-temperature cements .....	549,876	640,543
Electrical porcelains (high-tension insulators and other electrical porcelains)	7,134,341	6,845,342
Pottery — artware .....	346,897	343,349
Pottery, other (sanitaryware, tableware, stoneware, etc.) .....	6,764,130	5,992,510
Glazed floor and wall tile .....	2,736,860	3,139,241
All other products <sup>1</sup> .....	2,310,575	2,243,329
<b>Total</b> .....	<b>20,950,514</b>	<b>19,932,788</b>

<sup>1</sup> Includes sewer pipe, flue lining, etc.

TABLE 29. Materials Used in the Imported Clay Products Industry, 1956 and 1957

Material	1956		1957	
	Short tons	Total cost at works	Short tons	Total cost at works
		\$		\$
Imported clays:				
Ball clay .....	10,879	318,722	10,253	290,212
China clay .....	9,248	301,125	7,491	256,611
Fireclay .....	36,000	387,694	30,149	368,143
Saggar clay .....	504	13,446	463	12,170
Other imported clay .....	3,049	110,353	3,850	134,318
Canadian clays:				
China-clay .....	700	7,000	800	8,000
Fireclay .....	14	572	33	382
Other Canadian clays .....	—	10,727	—	5,194
Firebrick, ground or broken (grog), including scrap brick .....	—	460,758	—	462,731
Feldspar .....	6,356	210,019	6,297	214,808
Nepheline syenite .....	3,008	67,834	2,345	74,185
Silica sand and ground quartz .....	8,001	140,686	7,102	125,646
Sodium silicate .....	1,102	43,090	1,145	43,003
Talc .....	4,157	168,983	5,247	216,472
Other glazing materials .....	—	365,666	—	257,292
Insulator hardware .....	—	1,510,746	—	1,612,770
Shipping containers and packing materials .....	—	856,716	—	832,207
All other materials and process supplies .....	—	1,249,501	—	1,544,321
Total .....	—	6,223,638	—	6,458,465

TABLE 30. Principal Statistics of the Imported Clay Products Industry, Classified According to Type of Ownership, 1956 and 1957

Type	Establishments	Employees	Salaries and wages	Cost at plant of materials used	Selling value of factory shipments
number					dollars
1956					
Individual ownership .....	4	15	20,097	16,914	65,635
Partnerships .....	3	23	69,214	80,996	177,919
Incorporated companies .....	29	2,093	7,412,557	6,125,728	20,706,960
Co-operatives .....	1	—	—	—	—
<b>Total</b> .....	<b>37</b>	<b>2,131</b>	<b>7,501,868</b>	<b>6,223,638</b>	<b>20,950,514</b>
1957					
Individual ownership .....	4	9	13,365	16,868	68,368
Partnerships .....	3	23	75,115	80,313	186,193
Incorporated companies .....	26	1,979	7,379,393	6,361,284	19,678,227
Co-operatives .....	1	—	—	—	—
<b>Total</b> .....	<b>34</b>	<b>2,011</b>	<b>7,467,873</b>	<b>6,458,465</b>	<b>19,932,788</b>

TABLE 31. Principal Statistics of the Imported Clay Products Industry, Grouped According to Size of Establishment, 1956 and 1957

Establishments reporting factory shipments	Establishments	Employees	Salaries and wages	Cost at plant of materials used	Selling value of factory shipments
1956					
number					
Under \$25,000 .....	6	24	32,589	19,580	68,261
\$25,000 to \$49,999 .....	8	91	196,813	96,764	454,331
\$50,000 " \$99,999 .....	2	150	417,581	275,083	787,253
\$100,000 " \$199,999 .....	5	248	735,720	691,861	2,047,937
\$200,000 " \$499,999 .....	6	353	1,102,379	846,937	2,750,458
\$500,000 " \$999,999 .....	4	1,265	5,016,786	4,293,413	14,842,274
\$1,000,000 " \$4,999,999 .....	6	2,131	7,501,868	6,223,638	20,950,514
Total .....	37	2,131	7,501,868	6,223,638	20,950,514
1957					
Under \$10,000 .....	2	18	26,923	16,171	68,535
\$10,000 to \$24,999 .....	3	64	149,560	75,482	316,737
\$25,000 " \$49,999 .....	5	190	508,934	316,064	875,590
\$50,000 " \$99,999 .....	2	609	1,853,588	1,308,584	4,289,490
\$100,000 " \$199,999 .....	6	1,130	4,928,868	4,742,164	14,382,436
\$200,000 " \$499,999 .....	8	2,011	7,467,873	6,458,465	19,932,788
Total .....	34	2,011	7,467,873	6,458,465	19,932,788

TABLE 32. Capital and Repair Expenditures in the Imported Clay Products Industry, 1953 - 1957

Year	Capital expenditures		Sub-total	Repair and maintenance expenditure		Sub-total	Total capital and repair expenditure
	Construction	Machinery and equipment		Construction	Machinery and equipment		
thousands of dollars							
1953 .....	168	217	385	161	328	489	874
1954 .....	1	1	242	1	328	337	579
1955 .....	1	1	250	127	295	384	672
1956 .....	1	1	3,028	1	1	541	3,569
1957 .....	1	1	3,817	1	1	540	4,357

<sup>1</sup> Include in sub-totals.

Note: Figures for the current year are preliminary.

TABLE 33. Employees and their Earnings in the Imported Clay Products Industry, by Provinces, 1956 and 1957

Province	Number of employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
1956								
Quebec .....	78	26	477	101	682	442,490	2,062,615	2,505,105
Ontario .....	165	55	936	158	1,314	1,084,036	3,660,727	4,744,763
Alberta .....	5	2	45	55	107	21,818	179,689	201,507
British Columbia .....	5	1	6	16	28	16,722	33,771	50,493
Canada .....	253	84	1,464	330	2,131	1,565,066	5,936,802	7,501,868
1957								
New Brunswick and Quebec .....	75	28	463	95	661	471,124	2,031,276	2,502,400
Ontario .....	179	56	760	192	1,187	1,179,928	3,468,667	4,648,595
Alberta .....	22	5	54	52	133	93,237	164,650	257,887
British Columbia .....	6	1	6	17	30	19,383	39,608	58,991
Canada .....	282	90	1,283	356	2,011	1,763,672	5,704,201	7,467,873

TABLE 34. Production Workers in the Imported Clay Products Industry, by Months, 1956 and 1957

Month	1956			1957		
	Male	Female	Total	Male	Female	Total
	number					
January .....	1,426	382	1,808	1,327	376	1,703
February .....	1,444	386	1,830	1,377	359	1,736
March .....	1,461	336	1,797	1,369	374	1,743
April .....	1,476	350	1,826	1,356	365	1,721
May .....	1,480	358	1,838	1,333	341	1,674
June .....	1,483	336	1,819	1,284	348	1,632
July .....	1,485	324	1,809	1,089	270	1,359
August .....	1,467	331	1,798	1,256	355	1,611
September .....	1,461	313	1,774	1,260	374	1,634
October .....	1,471	288	1,759	1,271	390	1,661
November .....	1,467	284	1,751	1,252	374	1,626
December .....	1,437	269	1,706	1,221	339	1,560
Average .....	1,464	330	1,794	1,283	356	1,639

TABLE 35. Total Production of Rigid Refractory Shapes, 1948-1957

Year	From domestic clays			Silica brick		Others <sup>1</sup>		Total
	Fireclay blocks and shapes	Firebrick				Rigid firebrick, stove linings, etc.		
		\$	M	\$	M	\$	tons	dollars
1948 .....	318,810	4,111	311,517	3,464	393,821	37,241	2,540,611	3,564,759
1949 .....	311,104	1,127	87,186	3,663	453,797	37,018	2,521,321	3,373,408
1950 .....	340,137	1,631	132,052	3,126	408,813	42,688	3,381,795	4,262,797
1951 .....	374,707	2,880	245,722	3,510	465,229	51,205	4,456,054	5,541,712
1952 .....	395,017	3,198	280,146	3,544	606,394	51,483	4,632,345	5,913,902
1953 .....	412,467	2,671	247,634	3,720	712,271	51,709	4,711,512	6,083,884
1954 .....	316,061	2,416	230,907	3,578	465,157	54,667	5,136,250	6,148,375
1955 .....	418,554	4,055	402,263	4,763	602,625	68,264	6,774,909	8,208,351
1956 .....	471,083	4,258	430,922	5,799	736,817	82,383	8,876,196	10,515,018
1957 .....	376,492	5,411	537,067	4,308	655,905	77,110	9,209,635	10,779,099

<sup>1</sup> Includes shapes made from imported clays, magnesite, etc.TABLE 36. Total Production<sup>1</sup> of Refractory Cements and Plastics, 1948-1957

Year	Short tons	Selling value at works	Year		Short tons	Selling value at works
			\$	Year		
1948 .....	22,007	1,439,618	1953 .....		23,898	1,974,117
1949 .....	21,619	1,476,000	1954 .....		22,041	2,035,342
1950 .....	23,326	1,784,000	1955 .....		27,925	2,645,941
1951 .....	24,925	2,075,574	1956 .....		29,559	2,868,409
1952 .....	24,734	2,122,101	1957 .....		27,472	2,811,896

<sup>1</sup> Factory shipments since 1952.

TABLE 37. Fuel and Electricity Used in the Imported Clay Products Industry, 1956 and 1957

Kind	1956		1957	
	Quantity	Cost at works	Quantity	Cost at works
		\$		\$
Bituminous coal—(a) From Canadian mines .....	ton	5,814	73,145	3,478
(b) Imported .....	"	12,729	149,516	10,738
Anthracite coal .....	"	67	1,202	897
Coke (for fuel only) .....	"	73	1,898	54
Gasoline (including gasoline used in cars and trucks) .. Imp. gal.		43,252	16,642	41,172
Kerosene or coal oil .....	"	857	239	1,272
Fuel oil .....	"	2,833,691	419,056	2,817,881
Gas—(a) Liquefied petroleum gas .....	M cu. ft.	806	268	5,818
(b) Other manufactured gas .....	"	102,513	101,489	106,988
(c) Natural gas .....	"	6,430	5,240	8,826
Other fuel .....	kwh.	—	124	—
Electricity purchased .....	kwh.	27,648,667	225,422	29,081,208
<b>Total</b> .....	—	—	<b>994,241</b>	—
				<b>972,781</b>

## List of Firms in the Imported Clay Products Industry, 1957

Name of firm	Address
<b>New Brunswick:</b> Delchmann Pottery .....	Main St., Sussex
<b>Quebec:</b> Canada Firebrick Company Limited .....	4741 St. Ambroise St., Montreal
Canadian Potteries Limited .....	5 boul. du Séminaire, St. Johns
Coiteux Ceramics Reg'd. .....	Cap St-Francois, Chicoutimi
Laurentian Art Pottery Inc. .....	Ave de la Poterie, St-Jérôme
Pilkington's Tiles (Canada) Limited .....	1740 Bois Franc Road, Ville St. Laurent
Standard Clay Products .....	St. Johns
St. Lawrence Ceramics Ltd. .....	280 St. Sacrement, Quebec
Syndicat des Céramistes Paysans de la (Beauce) Quebec .....	St-Joseph, Co. Beauce
Vandesca Pottery Ltd. .....	405 De Salaberry St., Joliette
Vermette, Claude .....	Ste-Adele-en-Haut
Walker-Hind-Sutherland Refractories Ltd. .....	309 St. Ferdinand St., Montreal 30
<b>Ontario:</b> Canadian Ohio Brass Company Limited .....	Thorold Rd., Niagara Falls
Canadian Porcelain Company Limited .....	Paradise Rd., Hamilton
Canada Vitrified Products Limited .....	60 Burwell Road, St. Thomas
Colloma Ceramics .....	R.R. # 1, Keswick
Electro Porcelain Limited .....	173 Roger St., Waterloo
Frontenac Floor & Wall Tile Co., Limited .....	Kingston
General Ceramics (Georgetown) Ltd. .....	5 Cross St., Georgetown
Green, A.P., Fire Brick Co. Ltd. (2 Plants) .....	234 Rosemount Ave., (Weston) Toronto; and Acton
Hamilton Porcelains Limited .....	38 Elgin St., Brantford
Industrial Ceramics Ltd. .....	Cooksville
McMaster Pottery Limited .....	122 Hatt St., Dundas
National Refractories Limited .....	Port Robinson
Plibrico (Canada) Limited .....	Horner Ave., Etobicoke Township
Refractories Engineering & Supplies Ltd. .....	99 Clinton, Hamilton
Robinson Clay Product Co. of Canada Ltd. .....	Concord
Rowland Fire Brick Co. .....	1347 Dufferin St., Toronto
Sovereign Potters Limited .....	282 Sherman Ave. N., Hamilton
Wyatt Art Pottery .....	1390 Leighland Rd., W. Burlington
<b>Alberta:</b> Hycroft China Ltd. .....	Industrial Site, Medicine Hat
National Porcelain Limited .....	Medicine Hat
<b>British Columbia:</b> B.C. Ceramics Ltd. .....	1230 Hamilton St., Vancouver
Lambert Potteries Ltd. .....	4316 Fraser St., Vancouver

## III. The Sand-Lime Brick Industry, 1957

Four plants in Canada operated in this industry during 1957. Three of these were located in Ontario and 1 in Quebec. Factory shipments, including some building blocks, haydite tile, etc., were valued at \$868,897 compared with the 1956 total of \$1,295,656.

Employees in these works numbered 102 in 1957 and they were paid \$384,224 in salaries and wages. Expenditures for fuel and electricity amounted to \$57,799 and for processing materials, to \$237,864.

Factory shipments of sand-lime bricks amounted to 24,912 M. valued at \$727,887 a substantial decrease in both quantity and value from the output of

40,988 M. bricks at \$1,154,234 in the previous year. Output of sand-lime building blocks decreased to 705 M. at \$141,010 from 845 M. at \$141,422 in 1956.

**Note:** Due to lack of inventory data, figures for value added by manufacture shown in Table 38, prior to 1954 were obtained by subtracting the cost of materials used, including fuel and electricity, from the total value of factory shipments. In 1954 and 1955 the "Value Added" adjustment incorporated the increase or decrease to shipments values resulting from changes in the value of inventories over the period. For these two years, the adjustments that were made used only the change in finished product inventory owned by manufacturers. Beginning with 1956 the calculation of the "Value Added" figure was further adjusted to take into account the "Goods in Process" as well as the finished goods held at plant or plant warehouse.

TABLE 38. Principal Statistics of the Sand-Lime Brick Industry, Significant Years, 1929-1957

Year and province	Establishments	Employees	Salaries and wages	Cost of fuel and electricity at works	Cost at plant of materials used	Value added by manufacture <sup>1</sup>	Gross selling value of products <sup>1</sup>
	number						dollars
1929 .....	12	304	341,005	68,039	264,465	621,222	953,726
1933 .....	6	67	62,584	13,814	37,934	64,619	116,367
1937 .....	5	81	72,219	20,095	63,285	114,541	197,921
1939 .....	5	74	73,885	19,587	66,187	126,449	212,223
1941 .....	6	139	164,802	39,919	142,942	248,498	431,359
1946 .....	5	134	236,566	47,651	211,920	392,210	651,781
1949 .....	5	184	415,844	83,025	330,906	966,808	1,380,739
1953 .....	5	178	558,490	82,860	483,747	1,187,484	1,754,091
1954 .....	4	146	496,998	78,914	515,425	1,349,877	1,930,525
1955 .....	4	162	571,315	87,972	443,848	1,057,528	1,630,677
1956 .....	4	135	472,797	72,000	366,258	876,157	1,295,656
1957 .....	4	102	384,224	57,799	237,864	558,127	868,897

<sup>1</sup> See footnote to Text.

**Note:** Profits or losses cannot be calculated from above figures as data are not available for general expense items, such as interest, rent, depreciation, taxes, insurance, advertising, etc.

TABLE 39. Inventories in the Sand-Lime Brick Industry, 1957

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
dollars				
Opening .....	54,180	2,549	47,095	103,824
Closing .....	47,830	1,748	32,839	82,417

TABLE 40. Products Made in the Sand-Lime Brick Industry, 1956 and 1957

Product	1956		1957	
	Quantity	Selling value at works	Quantity	Selling value at works
		M		\$
Sand-lime brick .....	40,988	1,154,234	24,912	727,887
Sand-lime building blocks .....	845	141,422	705	141,010
Other products <sup>1</sup> .....	—	—	—	—
<b>Total</b> .....	—	<b>1,295,656</b>	—	<b>868,897</b>

<sup>1</sup> Includes cement blocks and haydite tile, etc.

TABLE 41. Materials Used in the Sand-Lime Brick Industry, 1956 and 1957

Material	1956		1957	
	Quantity	Cost at works	Quantity	Cost at works
Quicklime .....	ton	\$		\$
Quicklime .....	9,678	153,638	5,744	90,681
Sand and gravel .....	cu. yd.	87,381	157,811	54,323
Other materials .....	—	—	54,809	—
<b>Total</b> .....	—	—	<b>366,258</b>	<b>237,864</b>

TABLE 42. Production of Sand-Lime Brick in Canada, 1948-1957 (From all industries)

Year	Quantity	Selling value at works	Year	Quantity	Selling value at works
	M	\$		M	\$
1948 .....	40,006	795,402	1953 .....	44,080	1,265,056
1949 .....	43,260	939,435	1954 .....	40,747	1,191,508
1950 .....	46,993	1,074,955	1955 .....	43,789	1,264,023
1951 .....	48,313	1,220,563	1956 .....	43,217 <sup>2</sup>	1,211,634 <sup>2</sup>
1952 .....	36,852	987,561	1957 .....	26,600	766,987

<sup>1</sup> Factory shipments since 1952.

<sup>2</sup> Revised.

TABLE 43. Capital and Repair Expenditures in the Sand-Lime Brick Industry, 1953-1957

Year	Total capital and repair expenditures
	\$'000
1953 .....	141
1954 .....	161
1955 .....	121
1956 .....	148
1957 .....	141

Note: Figures for the current year are preliminary.

TABLE 44. Employees, Salaries and Wages, 1956 and 1957

		1956	1957
<b>Supervisory and office employees:</b>			
Male .....	No.	14	15
Female .....	"	—	—
<b>Total</b> .....	"	14	15
<b>Production workers:</b>			
Male .....	"	121	87
Female .....	"	—	—
<b>Total</b> .....	"	121	87
<b>Total employees</b> .....	"	135	102
Salaries .....	\$	68,877	64,279
Wages .....	"	403,920	319,945
<b>Total salaries and wages</b> .....	"	472,797	384,224

TABLE 45. Production Workers by Months, 1956 and 1957

Month	1956			1957		
	Male	Female	Total	Male	Female	Total
number						
January .....	121	—	121	80	—	80
February .....	118	—	118	79	—	79
March .....	117	—	117	94	—	94
April .....	126	—	126	69	—	69
May .....	128	—	128	90	—	90
June .....	119	—	119	98	—	98
July .....	126	—	126	79	—	79
August .....	126	—	126	101	—	101
September .....	121	—	121	88	—	88
October .....	125	—	125	101	—	101
November .....	111	—	111	89	—	89
December .....	103	—	103	86	—	86
<b>Average</b> .....	121	—	121	87	—	87

TABLE 46. Fuel and Electricity Used<sup>1</sup> in the Sand-Lime Brick Industry, 1956 and 1957

Kind	1956		1957	
	Quantity	Cost at works	Quantity	Cost at works
Bituminous coal — Imported .....	ton	\$ 2,889	1,489	\$ 17,489
Gasoline (including gasoline used in cars and trucks) ... Imp. gal.		4,063	1,153	422
Fuel oil .....	"	19,086	306,984	27,878
Electricity purchased .....	kwh	14,673	603,120	12,010
<b>Total</b> .....	—	<b>\$ 72,000</b>	—	<b>\$ 57,799</b>

## List of Firms in the Sand-Lime Brick Industry, 1957

Name of firm	Address
Standard Lime Company Limited .....	1595 St. Gregoire St., Montreal, Quebec
Cooksville Company Limited, The .....	447 Victoria Park Ave., Toronto, Ontario
Harbour Brick Co. Ltd. .....	565 Fleet St. West, Toronto, Ontario
Toronto Brick Co. Ltd. .....	2550 Gerrard St. E., Toronto, Ontario



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