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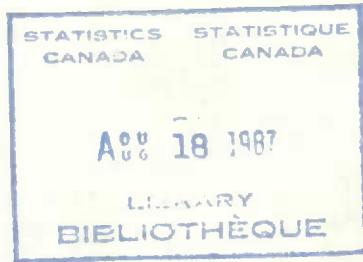
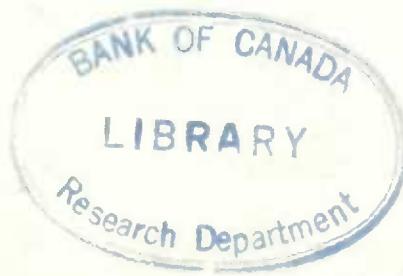


CANADA

THE CLAY AND CLAY PRODUCTS INDUSTRY

1954

(Including data relating to Sand-Lime Brick)



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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, 50¢
- B — The Gold Mining Industry, 50¢
- C — The Silver-Lead-Zinc Mining Industry, 25¢
- D — The Nickel-Copper Mining, Smelting and Refining Industry, 25¢
- E — The Miscellaneous Metal Mining Industry, 25¢
- F — The Smelting and Refining Industry, 25¢
- G — The Coal Mining Industry, \$1.00
- H — The Crude Petroleum and Natural Gas Industry, 25¢
- I — The Asbestos Mining Industry, 25¢
- J — The Feldspar and Quartz Mining Industry, 25¢
- K — The Gypsum Industry, 25¢
- L — The Peat Industry, 25¢
- M — The Salt Industry, 25¢
- N — The Talc and Soapstone Industry, 25¢
- O — The Miscellaneous Non-metal Mining Industry, 25¢
- P — The Cement Manufacturing Industry, 25¢
- Q — The Clay and Clay Products Industry, 25¢
- R — The Lime Industry, 25¢
- S — The Sand and Gravel Industry, 25¢
- T — The Stone Industry, 25¢
- U — Contract Drilling in the Mining Industry, 25¢

THE CLAY AND CLAY PRODUCTS INDUSTRY

1954

(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 161 plants operated in the domestic and imported clay products industries in 1954. They employed 5,973 workers to whom \$18,408,164 were distributed in salaries and wages. The combined production was valued at \$48,345,653 compared with \$44,649,679 in 1953.

TABLE 1. Principal Statistics of the Clay and Clay Products Industry, Significant years, 1921-1954

—	Estab-	Em-	Earnings	Cost of fuel and electricity at plant	Cost at plant of process supplies	Gross selling value of products	Net ¹ value of production
	lish-	ployees					
No.	No.	\$	\$	\$	\$	\$	\$
Products from domestic clays:							
1921	220	4,636	3,770,253	1,812,232	Not available	8,857,818	Not available
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	3,176,804	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
1950	134	3,663	8,583,912	3,978,525	676,729	21,790,888	17,135,634
1951	129	3,737	9,731,657	4,414,072	794,483	23,527,656	18,319,101
1952	133	3,568	9,812,214	4,276,092	840,756	24,961,528	19,844,680
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
Products from imported clays:							
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
1950	38	2,209	5,319,493	764,460	3,670,791	15,095,524	10,660,273
1951	35	2,526	6,372,732	870,710	4,382,230	16,948,304	11,695,364
1952	34	2,432	6,300,265	835,362	4,050,520	15,677,596	10,781,714
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
Total:							
1950	172	5,872	13,903,405	4,742,985	4,347,520	36,886,412	27,795,907
1951	164	6,263	16,104,389	5,284,782	5,176,713	40,475,960	30,014,465
1952	167	6,000	16,112,479	5,111,454	4,891,276	40,639,124	30,626,394
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

1. 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, 1954

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 \$32,360,098 in 1954 compared with \$29,777,731 in the preceding year. 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, \$17,230,231; Quebec, \$8,055,692 and Alberta, \$2,316,982.

The firms using domestic clay employed 3,929 persons to whom \$12,112,490 were distributed in salaries and wages. Fuel and electricity cost \$5,253,397 which included 42,547,906 kwh. of electricity purchased for \$588,159. Process supplies cost \$770,415.

Sales of building brick in 1954 amounted to 467,738 thousand pieces. Sewer pipe, drain tile and flue linings sales totalled \$6,212,425 and structural tile was valued at \$3,503,240.

TABLE 2. Principal Statistics for the Domestic Clay Products Industry, 1953 and 1954

Province	Establishments	Employees	Earnings	Cost of fuel and electricity at plant	Cost at plant of process supplies	Gross selling value of products
	No.	No.	\$	\$	\$	\$
1953						
Newfoundland	1	4	4,000	8,900	-	39,500
Nova Scotia	5	177	418,737	311,732	97,340	1,234,312
New Brunswick	3	97	226,875	188,692	69,101	620,759
Quebec	19	878	2,670,356	1,342,821	304,060	8,070,942
Ontario	68	1,716	5,199,656	2,459,452	257,997	14,829,222
Manitoba	5	107	248,865	62,056	19,663	568,477
Saskatchewan	3	118	339,004	122,939	8,678	742,959
Alberta	11	398	1,044,291	73,660	15,423	2,135,085
British Columbia	10	224	681,844	273,031	27,272	1,536,458
Canada	125	3,719	10,833,628	4,843,283	799,534	29,777,731
1954						
Newfoundland	1	4	4,000	9,900	-	33,042
Nova Scotia	6	210	436,976	318,930	6,034	1,082,039
New Brunswick	3	94	213,784	205,135	2,750	587,994
Quebec	18	867	2,780,075	1,334,496	328,341	8,055,692
Ontario	67	1,887	6,212,802	2,756,894	353,314	17,230,231
Manitoba	5	126	281,806	112,320	24,637	512,989
Saskatchewan	3	115	326,841	121,833	6,518	844,398
Alberta	11	382	1,091,633	74,729	19,983	2,316,982
British Columbia	11	244	764,573	319,160	28,838	1,696,731
Canada	125	3,929	12,112,490	5,253,397	770,415	32,360,098

TABLE 3. Producers' Sales of Domestic Clay and Domestic Clay Products, 1953 and 1954

Product	Sales or shipments				
	1953		1954		
	Quantity	\$	Quantity	\$	
Clay:					
Fireclay	tons	10,102	62,162	10,770	61,750
Other clay (includes bentonite)	—	—	455,220	—	334,610
Fireclay blocks and shapes	—	—	412,467	—	316,061
Firebrick	M	2,671	247,634	2,416	230,907
Brick:					
Soft mud process:					
Face	M	10,653	503,778	11,225	547,756
Common	M	11,985	419,859	9,229	293,909
Stiff mud process (wire cut):					
Face	M	235,432	10,847,592	265,684	12,932,689
Common	M	49,002	1,402,739	55,691	1,619,229
Dry press:					
Face	M	69,691	3,507,921	76,373	3,703,126
Common	M	49,413	1,658,670	49,289	1,645,040
Fancy or ornamental brick (including special shapes, embossed and enamelled brick)	M	7	974	11	1,335
Sewer brick	M	263	11,185	236	9,141
Paving brick	M	237	18,930	1,504	123,167
Structural tile:					
Hollow blocks (including fireproofing and load-bearing tile)	tons	209,879	3,582,625	185,069	3,432,799
Roofing tile	no.	—	—	10,000	350
Floor tile (quarries) and glazed tile	sq. ft.	182,466	75,982	169,326	70,091
Drain tile	M	36,998	2,194,449	42,817	2,554,711
Sewer pipe	—	—	2,651,327	—	2,687,119
Flue linings	—	—	992,586	—	970,595
Pottery, glazed or unglazed (including coarse earthenware, sanitaryware, stoneware, flower pots, and all pottery)	—	—	569,069	—	534,220
Other products	—	—	162,562	—	291,493
Total	—	—	29,777,731	—	32,360,098

TABLE 4. Producers' Sales of Clay Building Brick, 1945 - 1954

Year	Quantity	\$	Average value per M ¹	Year	Quantity	\$	Average value per M ¹
	M	\$			M	\$	
1945	200,241	4,566,179	22.82	1950	375,247	12,713,753	33.88
1946	272,389	6,627,517	24.33	1951	379,434	14,042,191	37.01
1947	295,446	7,930,714	26.84	1952	369,605	14,851,176	40.18
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

1. 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 5. Producers' Sales of Clay Building Brick,¹ by Provinces, 1953 and 1954

Province	1953		1954	
	M	\$	M	\$
Newfoundland	792	39,500	865	33,042
Nova Scotia	10,659	392,085	12,905	505,542
New Brunswick	13,889	470,115	10,658	392,142
Quebec	160,390	6,095,824	162,038	6,227,660
Ontario	193,418	9,713,443	223,340	11,553,407
Manitoba	4,468	152,919	5,944	219,524
Saskatchewan	7,079	249,472	11,986	399,635
Alberta	30,060	961,520	33,326	1,077,947
British Columbia	5,691	277,840	6,676	343,326
Canada	426,446	18,352,718	467,738	20,752,225
Average value per M	—	43.08	—	43.44

1. Includes fancy and sewer brick.

TABLE 6. Producers' Sales of Drain Tile, Sewer Pipe and Flue Linings made from Domestic Clays, 1945-1954

Year	Value	Year	Value
	\$		\$
1945	1,674,016	1950	4,259,992
1946	2,032,403	1951	4,426,186
1947	2,730,312	1952	4,919,260
1948	3,449,294	1953	5,838,362
1949	3,415,278	1954	6,212,425

TABLE 7. Producers' Sales of Drain Tile, Sewer Pipe and Flue Linings made from Domestic Clays, by Provinces, 1953 and 1954

Province	1953	1954
	\$	\$
Newfoundland	—	—
Nova Scotia	518,098	339,757
New Brunswick	24,650	24,927
Quebec	484,136	460,917
Ontario	3,402,527	3,814,037
Saskatchewan	8,384	13,720
Alberta	687,145	731,368
British Columbia	713,422	827,699
Canada	5,838,362	6,212,425

TABLE 8. Producers' Sales of Fireclay, Fireclay Blocks and Shapes and Firebrick made from Domestic Clays, 1945-1954

Year	Fireclay		Fireclay blocks and shapes	Firebrick	
	Short tons	\$		\$	M
1945.....	4,266	31,416	225,275	3,466	186,651
1946.....	4,696	30,607	222,430	3,367	205,849
1947.....	3,960	33,907	274,783	3,780	250,668
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

Note. Firebrick and fireclay blocks and shapes are also made from imported clays; see Table 28.

TABLE 9. Producers' Sales of Fireclay Blocks and Shapes and Firebrick made from Domestic Clays, by Provinces, 1954

Province	Fireclay		Fireclay blocks and shapes	Firebrick	
	Short tons	\$		\$	M
Nova Scotia.....	1,897	8,168	-	-	-
Saskatchewan.....	1,166	17,212	245,381	-	-
British Columbia.....	7,707	36,370	70,680	2,416	230,907
Canada.....	10,770	61,750	316,061	2,416	230,907

TABLE 10. Producers' Sales of Pottery made from Domestic Clays, 1945-1954

Year	Value	Year		Value
		\$		\$
1945.....	930,567	1950.....		612,669
1946.....	1,195,478	1951.....		374,016
1947.....	853,440	1952.....		540,862
1948.....	921,970	1953.....		569,069
1949.....	501,241	1954.....		534,220

TABLE 11. Producers' Sales of Pottery made from Domestic Clays, by Provinces, 1953 and 1954

Province	1953	1954
	\$	\$
Nova Scotia	3,000	3,500
New Brunswick	111,940	118,115
Quebec	11,500	2,500
Ontario	295,365	294,028
Alberta	117,252	83,983
British Columbia	30,012	32,094
Canada	569,069	534,220

TABLE 12. Producers' Sales of Structural Tile made from Domestic Clays, 1945-1954

Year	Hollow blocks ¹		Roofing tile		Floor tile (quarries) ²	
	Short tons	\$	Number	\$	Sq. ft.	\$
1945	94,244	998,210	—	—	197,164	46,365
1946	129,694	1,453,549	—	97	205,950	50,699
1947	149,733	1,950,098	—	—	204,977	56,845
1948	166,195	2,364,949	—	—	240,101	89,718
1949	166,090	2,482,224	—	—	178,884	70,969
1950	178,372	2,872,885	32,590	1,855	254,208	94,338
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

1. Includes fireproofing and load-bearing tile.

2. Includes value of glazed floor and wall tile.

TABLE 13. Producers' Sales of Structural Tile made from Domestic Clays, by Provinces, 1954

Province	Hollow blocks ¹		Floor tile (quarries) ²	
	Short tons	\$	Sq. ft.	\$
Nova Scotia	14,224	197,058	—	—
New Brunswick	12	173	—	—
Quebec	62,636	1,330,945	—	—
Ontario	64,545	1,249,319	169,326	70,091
Manitoba	—	—	—	—
Saskatchewan	8,098	132,563	—	—
Alberta	29,660	399,438	—	—
British Columbia	5,894	122,903	—	—
Canada	185,069	3,432,799	169,326	70,091

1. Includes fireproofing and load-bearing tile.

2. Includes value of glazed floor and wall tile.

TABLE 14. Producers' Sales of Bentonite and Kaolin, by Provinces, 1945-1954

Year	Bentonite ²				Kaolin ¹	
	Manitoba	Alberta	British Columbia	Canada		
	\$	\$	\$	\$	Tons	\$
1945.....	169,551	1,248	—	170,799	446	3,771
1946.....	207,572	4,253	—	211,825	821	5,775
1947.....	253,786	4,541	—	258,327	—	—
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			

1. All from Quebec.

2. Quantity not available for publication.

TABLE 15. Consumption of Bentonite in Canada, 1952 and 1953

	1952	1953	Tons
(a) By industries:			
Steel foundries.....	4,959	4,163	
Cement products.....	86	78	
Miscellaneous non-metallic mineral products.....	782	836	
Soaps and cleaning preparations.....	726	743	
Pulp and paper.....	256	244	
Petroleum refining.....	6,658	7,090	
Vegetable oil mills.....	329	313	
Oil well drilling.....	16,776 ¹	19,578	
Polishes and dressings.....	32	8	
Asbestos products.....	—	16	
Miscellaneous chemicals.....	18	1,635	
Iron castings.....	—	463	
Total.....	30,622	35,167	
(b) By provinces:			
Newfoundland and Nova Scotia.....	4	—	
New Brunswick.....	42	102	
Quebec.....	2,868	2,427	
Ontario.....	9,255	9,580	
Manitoba.....	647	1,836	
Saskatchewan.....	18	832	
Alberta.....	17,513	20,115	
British Columbia.....	275	275	
Canada.....	30,622	35,167	

1. Conjectural.

TABLE 16. Available Data on the Consumption of Fuller's Earth in Canada, 1952 and 1953

	1952	1953	Tons
(a) By industries:			
Soaps and cleaning preparations.....	322	290	
Petroleum refining.....	6,947	13,996	
Slaughtering and meat-packing.....	1,350	1,479	
Vegetable oil mills.....	1	14	
Starch and glucose.....	—	293	
Total.....	8,620	15,982	
(b) By provinces:			
Quebec.....	456	10,537	
Ontario.....	7,863	4,978	
Manitoba.....	149	266	
Saskatchewan.....	43	37	
Alberta.....	77	151	
British Columbia.....	32	13	
Canada.....	8,620	15,982	

TABLE 17. Available Data on the Consumption of China-clay (Kaolin) in Canada, 1952 and 1953

—	1952	1953
	Tons	
(a) By industries:		
Paints	1,656	1,520
Toilet preparations	51	20
Miscellaneous chemical products	452	2,179
Imported clay products	5,480	7,695
Linoleum	201	269
Wall paper	2,659	3,627
Rubber goods	8,584	10,982
Pulp and paper	56,103	60,358
Miscellaneous non-metallic minerals	6,046	126
Polishes and dressings	73	35
Adhesives	804	777
Electrical apparatus	2,542	2,192
Cement products	14	7
Tanneries	—	34
Total	84,665	89,821
(b) By provinces:		
Newfoundland and Nova Scotia	—	—
New Brunswick	69	668
Quebec	35,227	36,669
Ontario	47,237	47,928
Manitoba	207	1,120
Alberta	791	1,871
British Columbia	1,134	1,565
Canada	84,665	89,821

TABLE 18. Clays and Earths¹ Used in the Rubber Goods Industry, 1950-1954

Year	Tons	Value
		\$
1950	12,262	390,250
1951	12,222	376,643
1952	13,502	411,094
1953	14,520	449,909
1954	13,803	442,694

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

TABLE 19. Firebrick, Firedlay and Cupola Blocks Used in the Manufacture of Iron and Steel and Their Products, 1950-1954

Year	Cost at works
	\$
1950	5,107,000
1951	5,920,000
1952	6,123,000
1953	6,949,000
1954	6,099,746

TABLE 20. Filtering Earths Used in the Sugar Refining Industry, 1950-1954

Year	Sugar refineries	
	Pounds	\$
1950	5,977,750	205,866
1951	4,644,612	169,743
1952	4,040,175	132,726
1953	3,887,955	128,658
1954	3,742,900	121,414

TABLE 21. Imports and Exports of Clay and Clay Products, 1953 and 1954

Item	1953		1954	
	Quantity	\$	Quantity	\$
Imports				
China-clay.....	cwt.	2,257,218	1,647,140	1,870,919
Fireclay.....	"	1,503,099	460,296	1,339,350
Pipe clay.....	"	59,418	9,628	111,999
Clays, all other, n.o.p.....	-	-	522,806	-
Zirconium silicate.....	-	-	130,576	-
Zirconium oxide.....	-	-	22,758	-
Saggars.....	-	-	44,512	-
Activated clay, for the refining of oils.....	-	-	443,510	-
Grog for refractory materials.....	tons	6,389	151,277	7,189
Brick, building.....	"	83,672	1,513,634	102,628
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.....	-	-	698,678	-
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).....	-	-	3,805,637	-
Brick, fire, n.o.p.....	-	-	3,559,053	-
Brick, paving.....	tons	2,574	41,289	1,692
Building blocks, building tile.....	-	-	729,691	-
Drain pipes, sewer pipes and earthenware fittings, chimney linings or vents, chimney tops or inverted blocks, glazed or unglazed, n.o.p.....	-	-	448,155	-
Drain tiles, not glazed.....	-	-	1,255	-
Tiles or blocks of earthenware or stone, prepared for mosaic flooring.....	-	-	243,286	-
Earthenware tiles for flooring.....	-	-	17,397	-
Tiles, earthenware, n.o.p.....	-	-	1,279,721	-
Chemical stoneware.....	-	-	102,914	-
Hand forms of porcelain, for the manufacture of rubber gloves.....	-	-	5,711	-
China and porcelain ware, n.o.p.....	-	-	74,606	-
Demijohns, churns, or crocks, n.o.p.....	-	-	34,394	-
Tableware of china, porcelain.....	-	-	12,864,233	-
Stoneware, Rockingham ware and earthenware, n.o.p.....	-	-	1,756,641	-
Artificial teeth, not mounted.....	-	-	1,196,930	-
Baths, bathtubs, etc., n.o.p.....	-	-	3,260,622	-
Crucibles, n.o.p., and covers.....	-	-	92,967	-
Insulators, electric porcelain, and parts.....	-	-	517,821	-
Manufactures of clay, n.o.p.....	-	-	818,973	-
Total	-	-	36,496,111	-
Exports				
Building brick.....	M	3,589	156,811	4,219
Bricks, fire.....	-	-	1,227,006	-
Clay, manufactures of.....	-	-	15,208	-
Clays, unmanufactured.....	cwt.	83,826	25,094	112,742
Earthenware.....	-	-	201,532	-
Porcelain insulators.....	-	-	320,805	-
Total	-	-	1,946,456	-
2,223,034				

Note. "n.o.p." means "Not otherwise provided for" in the statistical classification.

TABLE 22. Employees and Their Earnings in the Domestic Clay Products Industry, 1950 - 1954

Year	Number of employees						Number of man-hours worked (all employees)	Earnings		
	Administration and office		Workmen		Total	Adminis- tration and office		Workmen	Total	
	Male	Female	Male	Female						
							\$	\$	\$	
1950	183	32	3,363	85	3,663	8,799,295	678,977	7,904,935	8,583,912	
1951	194	34	3,454	55	3,737	9,094,187	777,262	8,954,395	9,731,657	
1952	201	41	3,241	85	3,568	8,399,521	845,100	8,967,114	9,812,214	
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	

TABLE 23. Workmen in the Domestic Clay Products Industry, by Months, 1953 and 1954

Month	1953						1954		
	Pit	Plant		Total	Pit	Plant		Total	
		Male	Female			Male	Female		
Number									
January	113	2,710	80	2,903	95	2,896	82	3,073	
February	105	2,643	92	2,840	89	2,937	84	3,110	
March	110	2,710	89	2,909	93	2,983	79	3,155	
April	124	3,039	96	3,259	103	3,146	80	3,329	
May	175	3,409	85	3,669	133	3,578	94	3,805	
June	180	3,587	92	3,859	146	3,766	94	4,006	
July	188	3,669	95	3,952	151	3,882	98	4,131	
August	173	3,635	101	3,909	149	3,934	80	4,163	
September	168	3,567	109	3,844	141	3,861	78	4,080	
October	147	3,440	104	3,691	136	3,687	75	3,898	
November	124	3,335	104	3,563	108	3,477	72	3,657	
December	116	3,172	78	3,366	101	3,308	40	3,449	
Average	152	3,230	95	3,477	130	3,463	80	3,673	

List of Firms in the Domestic Clay Products Industry, 1954

(a) Clay used (b) Shale used (c) Idle, 1954 (d) Produce bentonite

Name of firm	Head office address	Location of plant
Newfoundland:		
Pelly, C. & M., Limited (b).....	Milton	Milton
Nova Scotia:		
Foley Pottery Ltd.....	Saint John, New Brunswick	Musquodoboit
Harriss & Harriss.....	5 Byng Ave., Sydney.....	Sydney
Shaw, L.E., Limited (a) (b)	Box 996, Halifax	Elmsdale and New Glasgow
Standard Clay Products Limited (a) (b)	St. Johns, Quebec	New Glasgow
New Brunswick:		
Shaw, L.E., Limited (a)	Box 996, Halifax, Nova Scotia	Chipman
Quebec:		
Brique St. Jean Enrg. (a)	Deschaillons.....	Deschaillons
Briqueterie Mistassini Inc. (a).....	St-Michel	St-Michel
Castonguay, H. (a).....	Deschaillons.....	Deschaillons
Citadelle Brique Ltée (b)	14, rue St-Joseph, Quebec	Beauport E. et Boischatel
Demers, Bordeleau (a).....	Deschaillons.....	Deschaillons
East Angus Brick & Tile Reg'd. (a) (b) ...	Box 553, East Angus	East Angus
Isherwood, J.....	South Bolton	South Bolton
Laprairie Co., Inc., The (a) (b).....	906 University Tower Bldg., Montreal	Laprairie and Delson Junction
Montreal Terra Cotta Limited (a).....	1010 Ste. Catherine St. W., Montreal	Deschaillons and Lakeside
Potvin, J.B. (c)	Deschaillons.....	Deschaillons
Roy, Philippe (a).....	St. George West	St. George West
St. Lawrence Brick Co., Limited (b).....	1010 Ste. Catherine St. W., Montreal	Laprairie
St-Tite Briqueterie Ltée	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)	28, rue Laurier, Victoriaville	Victoriaville
Ontario:		
Bannerman, M. (a)	Greenock	Greenock
Barnes, Wm. R., Co. Ltd,	Waterdown	Waterdown
Bartlett, R.C. (a)	208 Norfolk St., Stratford	Stratford
Bauman, N. (a)	Wallenstein	Waterloo Co.
Beaverton Brick & Tile (a).....	Beaverton	Beaverton
Bracebridge Brick Works (a).....	Bracebridge	Bracebridge
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
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
Cornhill, James, & Sons Ltd. (a)	Box 36, Chatham	Harwich Tp.
Coultis, Geo., & Son (b)	Thedford	Bosanquet Tp.
Crang-Booth Limited (a)	New Toronto	North York
Curtin, F., Estate (a)	R.R. 4, Lindsay.....	Lindsay
Curtis Bros. (a)	Box 809, Peterborough	Otonabee Tp.
Dellers Tile Limited (a)	Brownsville	Brownsville

List of Firms in the Domestic Clay Products Industry, 1954 — Continued

(a) Clay used (b) Shale used (c) Idle, 1954 (d) Produce bentonite

Name of firm	Head office address	Location of plant
Ontario — concluded:		
Dochart Brick & Tile Co. Ltd. (a)	Box 397, Arnprior	Arnprior
Dresden Tile Yard (a)	R.R. 2, Dresden	Dresden
Elliott's Brickyard (a).....	Box 427, Sault Ste. Marie	Korah Tp.
Elliott, Wm. J. (a)	Glenannan.....	Glenannan
Fletcher Brick & Tile (a).....	Fletcher	Tilbury E. Tp.
Frid Bros. Limited (a)	690 Main St. W., Hamilton	Hamilton
Grimsby Brick & Tile Limited (a)	Box 448, Grimsby	Clinton Tp.
Hamilton Pressed Brick Co. Limited(a)(b)	215 Kensington Ave. S., Hamilton	Wentworth Co.
Hill, Aaron (a)	Essex	Essex
Hill, A.W., & Sons (a)	Coatsworth	Tilbury E. Tp.
Hodder's Tile Yard (a)	Dutton	Dutton
Howlett, Fred W., & Sons (a)	Box 849, Petrolia	Petrolia
Huntsville Brick Works (a)	Box 219, Huntsville	Huntsville
Interprovincial Brick Company Limited (b)	1055 Yonge St., Toronto	Cheltenham and Milton
Janes, D.A. (a).....	Mt. Brydges	Caradoc Tp.
Kitchener Brick & Tile Co. Ltd. (a) (b) ...	60 Heiman St., Kitchener.....	Waterloo Tp.
Lindsay, Earl, & Sons (a)	R.R. 2, Wallaceburg	Wallaceburg
Martin, Amos (a).....	R.R. 3, Wallenstein.....	Peel Tp.
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 Company Ltd. (a) (b)	320 Bay St., Toronto	Hamilton and Swansea
Norwich Brick & Tile Works (a).....	R.R. 2, Norwich	Norwich
Ontario Reformatory (a) (b).....	Box 75, New Toronto	Mimico
Ottawa Brick & Terra Cotta Co. Ltd.The (a) (b).....	Billings Bridge.....	Billings Bridge
Paisley Brick & Tile Yard (a)	Box 220, Paisley.....	Paisley
Paxton Brick & Coal Co. Limited (a)	70 Herrick Ave., St. Catharines	St. Catharines
Phippen Brick Co. (a)	390 Dawes Rd., Toronto	East York
Rydall, J.A. (a)	R.R. 2, London	London
St. Clements Tile Yard (a)	St. Clements	St. Clements
Singer, H.H., Bricks (a)	Owen Sound	Owen Sound
Sproat & Sproat (a).....	R.R. 4, Seaforth	Tuckersmith Tp.
Superior Brick & Tile Co. Limited (a).....	121 South May St., Fort William	Paipoonge Tp.
Thomson, Ralph (a)	R.R. 4, Atwood	Grey Tp.
Toronto Brick Co. Ltd. (a) (b)	425 Bayview Ave., Toronto.....	Todmorden and Toronto
Wallace, R., & Son (a).....	238 First Ave. E., North Bay	Widdifield Tp.
Wilkesport Tile & Brick Company (a)	Wilkesport	Wilkesport
Wright, F.M., & Son (a)	Comber	Tilbury W. Tp.
Wright Brick Co. (a).....	Box 84 "H", Toronto.....	East York Tp.
Manitoba:		
— Alsip Brick, Tiie & Lumber Company Limited (a)	508 Portage Ave., Winnipeg	Portage la Prairie, Whitemouth and Winnipeg
Pembina Mountain Clay Ltd. (d)	945 Logan Ave., Winnipeg.....	Morden
— Swan River Clay Products Limited (a)	Swan River	Swan River

List of Firms in the Domestic Clay Products Industry, 1954 — Concluded

(a) Clay used (b) Shale used (c) Idle, 1954 (d) Produce bentonite

Name of firm	Head office address	Location of plant
Saskatchewan:		
Bruno Clay Works Limited (a)	508 Portage Ave., Winnipeg, Manitoba	Bruno
Dominion Fire Brick & Clay Products Ltd., The (a).....	Box 99, Moose Jaw.....	Claybank
Saskatchewan Minerals, Clay Products Division (a).....	Estevan	Estevan
Alberta:		
Alberta Clay Products Co. Ltd. (a).....	Box 90, Medicine Hat	Medicine Hat
Alexandra Brick & Tile Co. (Canada) Ltd. (a).....	306 Qu'Appelle Bldg., Edmonton	Edmonton
Grande Prairie Brick Yard (a)	Grande Prairie	Grande Prairie
Kidd, Gordon L. (d)	Box 230, Drumheller.....	Drumheller
Little, J.B., & Sons Ltd. (a)	9120-100th Ave., Edmonton	Riverdale
Medicine Hat Brick & Tile Co. Ltd. (a)	Box 660, Medicine Hat.....	Medicine Hat
Perry Brick & Tile Co. Ltd. (a) (b).....	Redcliff.....	Redcliff
Redcliff Premier Brick Co. Ltd. (a)	Redcliff.....	Redcliff
Redcliff Pressed Brick Co. Ltd. (a)	Redcliff.....	Redcliff
British Columbia:		
Baker Brick & Tile Company Limited (a)	3191 Douglas St., Victoria	Victoria
Bazan Bay Brick & Tile Co. (a)	Saanichton	Saanichton
Bear Creek Brick (a)	2521 Maple St., Vancouver	Surrey
Clayburn Company Limited (a) (b).....	850 West Hastings St., Vancouver.....	Kilgard and Abbotsford
Fairey & Company Limited (a).....	661 Taylor St., Vancouver	Vancouver
Mainland Clay Products Limited (a).....	8699 Angus Drive, Vancouver.....	Barnett
Port Haney Brick Co. Ltd., The (a)	Haney	Haney
Richmond, Geo. W., Co. (a)	2890-12th Ave. E., Vancouver.....	Kilgard

Producers of Stoneware and Pottery, 1954

Name of firm	Head office address	Location of plant
Nova Scotia:		
Lorenzen, F. (a)	Lantz.....	Lantz
New Brunswick:		
Canuck Pottery (a)	Box 123, Saint John	Little River
The Dykelands (a).....	Clifton Royal	Moss Glen
Quebec:		
Elsterman Quebec Art Pottery (a) (b).....	Box 552, Ste. Agathe des Monts.....	Ste. Agathe des Monts
Ontario:		
Foster Pottery Company Ltd. (a)	Main St. W., Hamilton	Hamilton
Royal Canadian Art Pottery (a).....	Hamilton	Hamilton
Zavi, Jarko (a).....	Cobourg	Cobourg
Alberta:		
Alberta Potteries Limited (a)	Box 90, Medicine Hat.....	Redcliff
Medalta Potteries Limited (a)	Box 118, Medicine Hat	Medicine Hat
British Columbia:		
B.C. Clay Products (a).....	3439 Euclid Ave., Vancouver	Bear Creek
Van Riet, L. (a).....	4916 Maxine St., Cordova Bay, Victoria	Cordova Bay

II. Production from Imported Clays, 1954

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 1954 included high tension insulators, vitreous china sanitaryware, china dinnerware, firebrick, sewer pipe, floor and wall tile, refractory cements, electrical porcelains, etc.

Thirty-six plants reported in this group for 1954 and their output was valued at \$15,985,555 as against last year's total of \$14,871,948 and the 1952 total of \$15,677,596. The total number of employees was 2,044 and payments for salaries and wages amounted to \$6,295,674. Fuel and electricity cost \$847,464 and materials for use in manufacturing processes cost \$4,091,984.

NOTE: Figures for value added by manufacture, shown in Table 24, prior to 1952 were obtained by subtracting the cost of materials used, including fuel and electricity, from the value of production. In 1952, the gross value of production was replaced by value of factory shipments, f.o.b. plant. As no information on inventory change is available for 1952 and 1953, value added figures for these years were obtained by subtracting from the value of shipments the cost of materials, fuel and electricity. In 1954, information on the value of year-end inventory holdings at plant and plant warehouses was collected as part of the annual Census of Industry and information thus made available was taken into account in calculating the value figure for 1954.

TABLE 24. Principal Statistics of the Imported Clay Products Industry, Significant Years 1929-1954 and by Provinces, 1953 and 1954

Year and province	Establishments	Employees	Earnings	Cost of fuel and electricity at works	Cost at plant of materials used	Value added by manufacture ¹	Gross selling value of products ¹
	No.	No.	\$	\$	\$	\$	\$
1929	15	872	1,112,881	220,910	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
1950	38	2,209	5,319,493	764,460	3,670,791	10,660,273	15,095,524
1951	35	2,526	6,372,732	870,710	4,382,230	11,695,364	16,948,304
1952	34	2,432	6,300,265	835,362	4,050,520	10,791,714	15,677,596
1953							
Quebec	12	799	2,141,829	342,453	1,259,250	3,581,148	5,182,851
Ontario	19	1,161	3,600,290	474,059	2,462,744	5,892,385	8,829,188
Alberta	3	279	512,062	24,345	216,429	571,361	812,135
British Columbia	3	15	26,433	3,488	5,520	38,766	47,774
Canada	37	2,254	6,280,614	844,345	3,943,943	10,083,660	14,871,948
1954							
Quebec	11	733	2,245,135	326,587	1,308,108	4,240,019	5,942,388
Ontario	20	1,126	3,636,368	495,251	2,609,672	6,142,081	9,277,718
Alberta	3	185	414,171	25,626	174,204	544,629	765,449
British Columbia	2						
Canada	36	2,044	6,295,674	847,464	4,091,984	10,926,729	15,985,555

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.

1. See footnote to text.

TABLE 25. Inventories¹ in the Imported Clay Products Industry, 1954

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	\$	\$	\$	\$
Opening:				
Quebec	395,771	130,040	382,376	908,187
Ontario	975,516	201,415	530,486	1,707,417
Alberta	69,709	28,579	129,525	227,813
British Columbia				
Canada	1,440,996	360,034	1,042,387	2,843,417
Closing:				
Quebec	401,260	136,958	314,702	852,920
Ontario	846,435	202,078	499,772	1,548,285
Alberta	77,817	17,644	108,535	203,996
British Columbia				
Canada	1,325,512	356,680	923,009	2,605,201

1. (a) Book value of all manufacturing inventories 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.

TABLE 26. Products Made in the Imported Clay Products Industry, 1953 and 1954

Product	Value of factory shipments	
	1953	1954
	\$	\$
Firebrick and stove linings:		
Rigid	875,600	785,905
Plastic	428,854	504,277
High-temperature cements	258,640	291,260
Electrical porcelains (high-tension insulators and other electrical porcelains)	4,481,204	4,767,527
Pottery — artware	274,111	275,128
Pottery, other (sanitaryware, tableware, stoneware, etc.)	6,065,764	6,252,824
All other products ¹	2,487,775	3,108,634
Total	14,871,948	15,985,555

1. Includes sewer pipe, floor tile, wall tile, flue lining, etc.

TABLE 27. Materials Used in the Imported Clay Products Industry, 1953 and 1954

Material	1953		1954	
	Short tons	Total cost at works	Short tons	Total cost at works
Imported clays:		\$		\$
Ball clay	6,527	179,977	7,135	207,875
China-clay	7,245	215,722	8,345	255,618
Fireclay	32,303	353,878	32,182	340,981
Sagger clay	586	16,280	631	17,246
Other imported clays	871	22,275	1,338	32,269
Canadian clays:				
China-clay	450	4,500	200	2,000
Fireclay	4	120	—	—
Other Canadian clays	—	2,595	177	1,393
Firebrick, ground or broken (grog), including scrap brick	—	195,828	—	215,610
Feldspar	4,689	154,256	5,291	179,222
Nepheline syenite	1,273	40,934	2,063	62,065
Silica sand and ground quartz	6,541	112,474	5,995	105,713
Sodium silicate	638	19,990	238	11,826
Talc	2,164	84,264	2,345	98,631
Other glazing materials	—	254,018	—	297,431
Insulator hardware	—	1,067,423	—	980,197
Shipping containers and packing materials	—	523,190	—	622,325
All other materials and process supplies	—	705,219	—	661,582
Total	—	3,943,943	—	4,091,984

TABLE 28. Principal Statistics of the Imported Clay Products Industry, Classified According to Type of Ownership, 1953 and 1954

Type	Establishments	Employees	Earnings	Cost at plant of materials used	Selling value of factory shipments
	No.	No.	\$	\$	\$
1953					
Individual ownership	4	14	18,128	1,989	26,267
Partnerships	3	21	47,114	43,394	112,621
Incorporated companies	29	2,219	6,215,372	3,898,560	14,733,060
Co-operatives	1				
Total	37	2,254	6,280,614	3,943,943	14,871,948
1954					
Individual ownership	5	17	20,177	8,066	40,808
Partnerships	3	25	53,741	43,621	138,721
Incorporated companies	27	2,002	6,221,756	4,040,297	15,806,025
Co-operatives	1				
Total	36	2,044	6,295,674	4,091,984	15,985,555

TABLE 29. Principal Statistics of the Imported Clay Products Industry, Grouped According to Size of Establishment, 1953 and 1954

Establishments having a production of	Establishments	Employees	Earnings	Cost at plant of materials used	Selling value of factory shipments				
		No.	No.	\$	\$				
1953									
Under \$25,000.....		7	21	31,517	5,301	46,375			
\$25,000 to \$49,999		7	96	192,194	88,881	397,520			
\$50,000 to \$99,999		2							
\$100,000 to \$199,999		5	148	310,142	200,691	756,490			
\$200,000 to \$499,999		7	521	1,270,708	518,379	2,291,117			
\$500,000 to \$999,999		5	545	1,269,133	1,061,346	3,179,035			
\$1,000,000 to \$4,999,999		4	923	3,206,920	2,069,345	8,201,411			
Total		37	2,254	6,280,614	3,943,943	14,871,948			
1954									
Under \$25,000.....		7	23	32,293	12,087	61,870			
\$25,000 to \$49,999		7	102	196,963	107,597	436,158			
\$50,000 to \$99,999		2							
\$100,000 to \$199,999		5	146	370,085	196,798	784,523			
\$200,000 to \$499,999		6	375	962,434	420,289	1,885,887			
\$500,000 to \$999,999		5	499	1,379,210	1,205,155	3,974,356			
\$1,000,000 to \$4,999,999		4	899	3,354,689	2,150,058	8,842,761			
Total		36	2,044	6,295,674	4,091,984	15,985,555			

TABLE 30. Capital and Repair Expenditures in the Imported Clay Products Industry, 1950-1954

Year	Capital expenditures		Sub-total	Repair and maintenance expenditures		Sub-total	Total capital and repair expenditures			
	Construction	Machinery and equipment		Construction	Machinery and equipment					
\$'000										
1950	146	496	642	100	226	326	968			
1951	175	232	407	77	358	435	842			
1952	197	371	568	114	233	347	915			
1953	168	217	385	161	328	489	874			
1954 ¹	2	2	291	2	2	350	641			

1. Preliminary.

2. Included in sub-totals.

TABLE 31. Employees and Their Earnings in the Imported Clay Products Industry, by Provinces, 1953 and 1954

Province	Number of employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
1953								
Quebec	68	28	481	222	799	336,086	1,805,743	2,141,829
Ontario	144	58	715	244	1,161	904,011	2,696,279	3,600,290
Alberta	6	6	138	129	279	32,419	479,643	512,062
British Columbia	4	—	3	8	15	7,550	18,883	26,433
Canada	222	92	1,337	603	2,254	1,280,066	5,000,548	6,280,614
1954								
Quebec	69	30	465	169	733	371,791	1,873,344	2,245,135
Ontario	166	50	694	216	1,126	921,344	2,715,024	3,636,368
Alberta	5	4	93	72	174	23,112	368,818	391,930
British Columbia	4	—	—	7	11	12,036	10,205	22,241
Canada	244	84	1,252	464	2,044	1,328,283	4,967,391	6,295,674

TABLE 32. Production Workers in the Imported Clay Products Industry, by Months, 1953 and 1954

Month	1953			1954		
	Male	Female	Total	Male	Female	Total
Number						
January	1,465	609	2,074	1,230	459	1,689
February	1,402	580	1,982	1,242	458	1,700
March	1,408	578	1,986	1,263	486	1,749
April	1,340	573	1,913	1,261	487	1,748
May	1,321	595	1,916	1,272	481	1,753
June	1,319	641	1,960	1,274	482	1,756
July	1,297	612	1,909	1,277	424	1,701
August	1,314	656	1,970	1,210	465	1,675
September	1,291	627	1,918	1,247	461	1,708
October	1,311	622	1,933	1,244	446	1,690
November	1,297	606	1,903	1,249	448	1,697
December	1,263	526	1,789	1,257	445	1,702
Average	1,337	603	1,940	1,252	464	1,716

TABLE 33. Total Production of Rigid Refractory Shapes, 1943-1954

Year	From domestic clays			Silica brick		Others ¹		Total
	Fireclay blocks and shapes	Firebrick				Rigid firebrick, stove linings, etc.		
	\$	M	\$	M	\$	Tons	\$	\$
1945	225,275	3,466	186,651	4,208	317,263	26,532	1,484,301	2,213,490
1946	222,430	3,367	205,849	2,902	197,804	26,832	1,603,185	2,229,268
1947	274,783	3,780	250,668	3,094	303,406	30,092	1,779,341	2,608,198
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

1. Includes shapes made from imported clays, magnesite, etc.

TABLE 34. Total Production¹ of Refractory Cements and Plastics, 1943-1954

Year	Short tons	Selling value at works	Year		Short tons	Selling value at works
				\$		
1945	18,308	1,061,786	1950		23,326	1,784,000
1946	18,166	1,071,224	1951		24,925	2,075,574
1947	21,118	1,283,480	1952		24,734	2,122,101
1948	22,007	1,439,618	1953		23,898	1,974,117
1949	21,619	1,476,000	1954		21,370	1,966,819

1. Factory shipments since 1952.

TABLE 35. Principal Statistics of the Sand-Lime Brick Industry, Significant Years, 1929-1954

Year and province	Estab- lish- ments	Em- ployees	Earnings	Cost of fuel and electricity at works	Cost at plant of materials used	Value added by manufacture ¹	Gross selling value of products ¹
				No.	No.	\$	\$
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
1950	5	175	434,761	90,631	336,535	1,126,303	1,553,469
1951	5	198	541,034	88,494	512,094	1,254,547	1,855,135
1952	4	183	540,108	71,933	516,331	1,064,330	1,652,594
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

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.

1. See footnote to text.

List of Firms in the Imported Clay Products Industry, 1954

Name of firm	Address
Quebec:	
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
Poterie, Shawinigan Pottery	133 St. & 8th Ave., Shawinigan Falls
Standard Clay Products	St. Johns
St. Lawrence Ceramics Ltd.	280 St. Sacrement, Quebec
Syndicat des Ceramistes Paysans de la (Beauce) Quebec	St-Joseph, Co. Beauce
Vandesca Pottery Ltd.	405 De Salaberry St., Joliette
Walker-Hind-Sutherland Refractories Ltd.	309 St. Ferdinand St., Montreal
Ontario:	
Ball, R.N.	456 Joint St., Woodstock
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
Georgetown Ceramics	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
Robinson Clay Product Co. of Canada Ltd.	119 Shaftesbury Ave., Toronto
Rowland Fire Brick Co.	1347 Dufferin St., Toronto
Sovereign Potters Limited	282 Sherman Ave. N., Hamilton
Wyatt Art Pottery	31 Leighland Rd., Burlington
York China and Artware Ltd.	615 Spadina Ave., Toronto
Alberta:	
Medalta Potteries Limited	Industrial Site, Medicine Hat
Medicine Hat Potteries	Industrial Site, Medicine Hat
National Porcelain Limited	Industrial Site, Medicine Hat
British Columbia:	
Crown Ceramics Ltd.	523 West 7th Ave., Vancouver
Lambert Potteries Ltd.	4316 Fraser St., Vancouver

III. The Sand-Lime Brick Industry, 1954

Four plants in Canada operated in this industry during 1954. Three of these were located in Ontario and 1 in Quebec. Factory shipments, including some building blocks, haydite tile, etc., were valued at \$1,930,525 compared with the 1953 total of \$1,754,091.

Employees in these works numbered 146 in 1954 and they were paid \$496,998 in salaries and

wages. Expenditures for fuel and electricity amounted to \$78,914 and for processing materials to \$515,425.

Factory shipments of sand-lime bricks amounted to 38,588 M valued at \$1,110,682, a decrease in both quantity and value from the output of 42,971 M bricks at \$1,223,786 in the previous year. Output of sand-lime building blocks increased to 893 M at \$164,493 from 629 M at \$140,110 in 1953.

NOTE: Figures for value added by manufacture shown in Table 35, prior to 1952 were obtained by subtracting the cost of materials used, including fuel and electricity, from the value of production. In 1952, the gross value of production was replaced by value of factory shipments, f.o.b. plant. As no information on inventory change is available for 1952 and 1953, value added figures for these years were obtained by subtracting from the value of shipments the cost of materials, fuel and electricity. In 1954, information on the value of year-end inventory holdings at plant and plant warehouses was collected as part of the annual Census of Industry and information thus made available was taken into account in calculating the value added figure for 1954.

TABLE 36. Inventories in the Sand-Lime Brick Industry, 1954

—	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	\$	\$	\$	\$
Opening	57,720	7,640	55,966	121,326
Closing	67,050	5,948	60,657	142,654

TABLE 37. Products Made in the Sand-Lime Brick Industry, 1953 and 1954

Product	1953		1954	
	Quantity	Selling value at works	Quantity	Selling value at works
		M		\$
Sand-lime brick	42,971	1,223,786	38,588	1,110,682
Sand-lime building blocks	629	140,110	893	164,493
Other products ¹	—	390,195	—	655,350
Total	—	1,754,091	—	1,930,525

1. Includes cement blocks and haydite tile, etc.

TABLE 38. Materials Used in the Sand-Lime Brick Industry, 1953 and 1954

Material	1953		1954	
	Quantity	Cost at works	Quantity	Cost at works
Portland cement	bags	\$		\$
Quicklime	tons	58,268	53,680	56,467
Sand and gravel	cu. yd.	6,645	162,273	9,528
Other materials	—	106,971	166,649	97,597
Total	—	—	101,145	—
			483,747	515,425

TABLE 39. Production¹ of Sand-Lime Brick in Canada, 1945-1954 (From all industries)

Year	Quantity	Selling value at works	Year	Quantity	Selling value at works
	M	\$		M	\$
1945	15,514	260,136	1950	46,993	1,074,955
1946	39,096	572,008	1951	48,313	1,220,563
1947	35,017	527,275	1952	36,852	987,561
1948	40,006	795,402	1953	44,080	1,265,056
1949	43,260	939,435	1954	40,747	1,191,508

1. Factory shipments since 1952.

TABLE 40. Capital and Repair Expenditures in the Sand-Lime Brick Industry, 1950-1954

Year	Total capital and repair expenditures
	\$'000
1950	84
1951	125
1952	132
1953	141
1954 ¹	130

1. Preliminary.

TABLE 41. Employees, Salaries and Wages, 1953 and 1954

	1953	1954
Supervisory and office employees:		
Male	No. 14	14
Female	No. 2	1
Total	No. 16	15
Production workers:		
Male	No. 162	131
Female	No. —	—
Total	No. 162	131
Total employees	No. 178	146
Salaries	\$ 64,000	68,541
Wages	\$ 494,490	428,457
Total salaries and wages	\$ 558,490	496,998

TABLE 42. Production Workers by Months, 1953 and 1954

Month	1953			1954		
	Male	Female	Total	Male	Female	Total
January	162	—	162	146	—	146
February	152	—	152	139	—	139
March	152	—	152	135	—	135
April	153	—	153	128	—	128
May	154	—	154	136	—	136
June	155	—	155	136	—	136
July	158	—	158	145	—	145
August	163	—	163	141	—	141
September	164	—	164	124	—	124
October	177	—	177	120	—	120
November	176	—	176	118	—	118
December	179	—	179	114	—	114
Average	162	—	162	131	—	131

List of Firms in the Sand-Lime Brick Industry, 1954

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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