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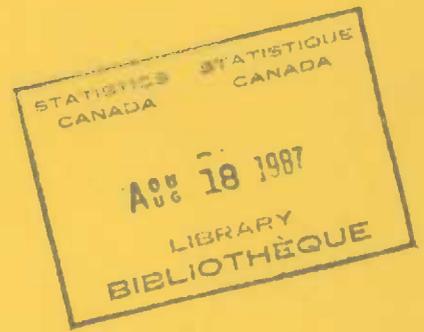
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GOVERNMENT OF CANADA

THE CLAY AND CLAY PRODUCTS INDUSTRY
1949

(Including data relating to Sand-Lime Brick)



**THE CLAY AND CLAY PRODUCTS INDUSTRY
1949**

(Including data relating to Sand-Lime Brick)

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NOTICE

It has been the practice of the Bureau of Statistics, since 1920, to issue an annual printed report on the Mineral Production of Canada. This report was comprised to a large extent of the data which had already been issued in bulletin form as statistics for each industry were completed. The final report was necessarily late in being issued, and its main use was for library purposes and for historical research. It also had the advantage of having complete statistics of the Canadian Mining Industry for a year in one volume.

Such a procedure necessitated the preparation of new manuscript, duplication of proof-reading, and extra costs in type-setting and printing. In order to avoid this extra cost, a system has been devised whereby libraries and other similar organizations may file the separate reports in a ring binder as issued, and if they so desire, may have them bound in a volume when the series for the year is complete.

The reports have been paged in such a manner that when bound they will correspond to the chapters of the annual printed report hitherto issued, but which will now be discontinued.

The following reports will constitute the complete volume on Mineral Statistics of Canada:

- 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 Miscellaneous Metal Mining Industry
- F The Non-ferrous Smelting and Refining Industry
- G The Coal Mining Industry
- H The Natural Gas and Crude Petroleum Industry
- I The Asbestos Mining Industry
- J The Feldspar and Quartz Mining Industry
- K The Gypsum Industry
- L The Peat Industry
- M The Salt Industry
- N The Talc and Soapstone Industry
- O The Miscellaneous Industrial or Non-metallic Minerals Mining Industry
- P The Cement Manufacturing Industry
- Q The Clay and Clay Products Industry
- R The Lime Industry
- S The Sand and Gravel Industry
- T The Stone Industry
- U Contract Diamond Drilling in the Mining Industry
- V Appendix — Explanatory notes on the method of computing the quantities and values of the Mineral Production of Canada

THE CLAY AND CLAY PRODUCTS INDUSTRY

1949

(Including data relating to Sand-Lime Brick)

The industrial clays of Canada may be classified as common clays, stoneware clays, fireclays and china clays. Statistically, the ceramic industry of Canada is conveniently classified into two divisions: (1) Production from domestic clays, which includes the production of building brick, structural tile, drain tile, roofing tile, stoneware, sewer pipe, pottery and refractories, and (2) production from imported clays, which includes the manufacture of electrical porcelains, sanitaryware, sewer pipe, tableware, pottery, ceramic floor and wall tile, and various kinds of fireclay refractories. Data relating to the production

of glass, cement and artificial abrasives are contained in separate reports.

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

A total of 164 plants operated in the domestic and imported clay products industries in Canada during 1949. Employment was provided for 5,959 persons to whom \$13,257,598 was paid in salaries and wages. The combined production in 1949 was valued at \$32,438,871 compared with \$29,992,782 in 1948.

1. Production from Domestic Clays, 1949

The gross value of producers' sales of domestic clays and of products made from domestic clays totalled \$17,981,709 in 1949 compared with \$17,629,048 in 1948. Domestic clays are used in all the provinces from Newfoundland to British Columbia, except Prince Edward Island, to manufacture building brick, tile and other clay products. The leading provinces in value of production were:- Ontario, \$7,435,439; Quebec, \$5,580,421 and Alberta, \$1,603,199.

The industry employed 3,603 persons in 1949 and distributed \$7,924,841 in salaries and wages. Fuels cost \$3,031,219 and 24,832,594 k.w.h. of electricity cost \$316,126. Process supplies were valued at \$557,622.

Sales of building brick in 1949 amounted to \$10,523,675 for 330,867 M pieces. Sewer pipe and drain tile sales totalled \$3,415,278 and structural tile \$2,553,193.

TABLE 1. Principal Statistics for the Domestic Clay Products Industry, 1940-1949

Year	Establishments	Employees	Salaries and wages	Cost of fuel and electricity at works	Cost of process supplies at works	Selling value of products (f.o.b.works)
	No.	No.	\$	\$	\$	\$
1940.....	143	2,557	2,675,251	1,282,593	139,635	6,344,547
1941.....	142	2,881	3,227,785	1,561,326	207,247	7,575,336
1942.....	124	2,523	3,073,011	1,292,373	158,866	7,081,723
1943.....	105	2,173	2,909,841	1,157,471	104,336	6,608,193
1944.....	110	2,247	3,176,804	1,357,313	161,189	6,997,425
1945.....	106	2,688	3,828,206	1,780,426	194,257	8,913,092
1946.....	119	3,437	5,115,962	2,365,552	278,125	12,207,367
1947.....	124	3,552	6,204,705	2,832,416	386,840	14,486,189
1948.....	117	3,746	7,505,765	3,481,413	545,190	17,629,048
1949.....	124	3,603	7,924,841	3,347,345	557,622	17,981,709

TABLE 2. Producers' Sales of Domestic Clay and Domestic Clay Products, 1948 and 1949

Product	Unit of measure	Sales or Shipments			
		1948		1949	
		Quantity	\$	Quantity	\$
Clay:					
Bentonite.....	-	-	339,713	-	367,868
Fireclay.....	ton	10,208	59,317	5,204	48,377
Other clay.....	ton	32,308	37,784	27,325	45,481
Fireclay blocks and shapes.....	-	-	318,810	-	311,104
Firebrick.....	M	4,111	311,517	1,127	87,186
Brick:					
Soft mud process: Face.....	M	17,544	647,957	16,824	631,315
Common.....	M	28,506	730,478	21,378	573,904
Stiff mud process: Face.....	M	113,713	3,830,323	140,600	5,046,745
(wire cut) Common.....	M	63,303	1,517,208	46,832	1,068,639
Brick:					
Dry press: Face.....	M	46,587	1,589,688	49,656	1,823,898
Common.....	M	50,349	1,264,051	54,421	1,350,452
Fancy or ornamental brick (including special shapes, embossed and enamelled brick).....	M	3	184	8	604
Sewer brick.....	M	688	17,574	1,148	28,118
Paving brick.....	M	179	13,831	137	10,729
Structural tile:					
Hollow blocks (including fireproofing and load-bearing tile).....	ton	166,195	2,364,949	166,090	2,462,224
Floor tile (quarries) and glazed tile.....	-	-	89,719	-	70,969
Drain tile.....	M	22,627	1,082,109	25,357	1,292,272
Sewer pipe.....	-	-	1,762,734	-	1,819,960
Flue linings.....	-	-	604,451	-	503,046
Pottery, glazed or unglazed (including coarse earthenware, sanitaryware, stoneware, flower pots, and all other pottery).....	-	-	921,970	-	501,241
Other products.....	-	-	124,671	-	119,577
Total.....	-	-	17,629,048	-	17,981,709

TABLE 3. Producers' Sales of Products from Domestic Clays, 1940-1949

Year	\$	Year	\$
1940.....	6,344,547	1945.....	8,913,092
1941.....	7,575,338	1946.....	12,207,367
1942.....	7,081,723	1947.....	14,486,189
1943.....	6,608,193	1948.....	17,629,048
1944.....	6,997,425	1949.....	17,485,644

TABLE 4. Producers' Sales of Products from Domestic Clays, by Provinces, 1947-1949

Province	1947	1948	1949
	(dollars)		
Newfoundland	-	(Not included)	25,450 ¹
Nova Scotia.....	752,126	1,031,685	1,053,845
New Brunswick	381,184	434,772	515,767
Quebec.....	4,257,423	5,123,908	5,580,421
Ontario.....	5,289,528	6,563,754	7,435,439
Manitoba.....	392,518	517,181	514,705
Saskatchewan.....	495,016	509,593	545,588
Alberta.....	1,771,250	2,055,738	1,603,199
British Columbia.....	1,147,144	1,392,417	707,295
Canada.....	14,486,189	17,629,048	17,981,709

1. Although Newfoundland did not join the Confederation until April 1, 1949, the figures shown in this report are for the calendar year 1949.

TABLE 5. Producers' Sales of Clay Building Brick, 1940-1949

Year	Quantity	\$	Average value per M ¹	Year	Quantity	\$	Average value per M ¹
	M		\$		M		\$
1940.....	191,213	3,277,187	17.14	1945.....	200,241	4,566,179	22.82
1941.....	208,871	3,765,493	18.00	1946.....	272,389	6,627,517	24.33
1942.....	169,317	3,018,375	17.83	1947.....	295,446	7,930,714	26.84
1943.....	138,678	2,808,764	20.25	1948.....	320,693	9,597,463	29.93
1944.....	154,785	3,155,380	20.38	1949.....	330,867	10,523,675	31.81

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 6. Producers' Sales of Clay Building Brick, by Provinces, 1947-1949

Province	1947		1948		1949	
	M	\$	M	\$	M	\$
Newfoundland ¹	-	-	-	-	700	25,450
Nova Scotia.....	7,890	177,015	10,512	263,443	9,831	158,999
New Brunswick.....	12,941	312,695	14,365	358,530	15,643	426,799
Quebec.....	122,002	3,253,058	129,646	3,740,165	141,556	4,182,762
Ontario.....	111,608	3,206,298	120,715	4,075,413	124,065	4,650,926
Manitoba.....	5,282	138,732	7,340	181,178	5,071	154,114
Saskatchewan.....	4,048	117,265	3,823	100,225	3,662	94,914
Alberta.....	26,088	537,142	27,896	637,941	26,634	612,843
British Columbia.....	5,587	188,509	6,396	240,568	3,705	116,868
Canada.....	295,446	7,930,714	320,693	9,597,463	330,867	10,523,675
Average value per M.....	-	26.84	-	29.93	-	31.81

1. Includes fancy and sewer brick.

TABLE 7. Producers' Sales of Drain Tile and Sewer Pipe made from Domestic Clays, 1940-1949

Year	Value	Year	Value
	\$		\$
1940.....	1,430,154	1945.....	1,674,016
1941.....	1,755,753	1946.....	2,032,403
1942.....	1,721,580	1947.....	2,730,312
1943.....	1,507,223	1948.....	3,449,294
1944.....	1,390,457	1949.....	3,415,278

Includes value of copings, flue linings, etc.

TABLE 8. Producers' Sales of Drain Tile and Sewer Pipe made from Domestic Clays, by Provinces, 1947-1949

Province	1947	1948	1949
	(dollars)		
Nova Scotia.....	363,317	491,661	485,237
New Brunswick.....	4,259	399	—
Quebec.....	315,409	389,881	387,291
Ontario.....	1,162,548	1,477,785	1,750,513
Saskatchewan.....	4,725	9,363	20,435
Alberta.....	415,984	482,664	504,023
British Columbia.....	464,070	597,541	267,779
Canada.....	2,730,312	3,449,294	3,415,278

1. Includes value of copings, flue linings, etc.

TABLE 9. Producers' Sales of Fireclay, Fireclay Blocks and Shapes, and Firebrick made from Domestic Clay, 1940-1949

Year	Fireclay		Fireclay blocks and shapes	Firebrick	
	Short tons	\$	\$	M	\$
1940.....	4,881	30,564	85,127	3,167	165,525
1941.....	5,431	35,475	190,497	3,643	183,897
1942.....	5,601	40,722	210,246	3,816	197,830
1943.....	5,653	42,122	256,655	3,644	192,618
1944.....	7,630	38,433	221,251	3,180	164,837
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

Note. Firebrick and fireclay blocks and shapes are also made from imported clays; see table 29.

TABLE 10. Producers' Sales of Fireclay Blocks and Shapes and Firebrick made from Domestic Clays, by Provinces, 1949

Province	Fireclay		Fireclay blocks and shapes	Firebrick	
	Short tons	\$	\$	M	\$
Nova Scotia	2,744	10,016	—	—	—
Saskatchewan.....	1,102	14,666	260,345	—	—
British Columbia.....	1,358	21,695	50,759	1,127	87,186
Canada.....	5,204	46,377	311,104	1,127	87,186

TABLE 11. Producers' Sales of Pottery made from Domestic Clays, 1940-1949

Year	Value	Year	Value
	\$		\$
1940.....	474,452	1945.....	930,567
1941.....	502,212	1946.....	1,195,478
1942.....	646,088	1947.....	853,440
1943.....	701,144	1948.....	921,970
1944.....	838,544	1949.....	501,241

TABLE 12. Producers' Sales of Pottery made from Domestic Clays, by Provinces, 1947-1949

Province	1947	1948	1949
	(dollars)		
New Brunswick.....	52,051	65,844	79,789
Quebec.....	98,705	62,045	82,671
Ontario.....	87,378	84,294	92,390
Alberta.....	611,830	704,649	241,215
British Columbia.....	3,476	5,138	5,176
Canada.....	853,440	921,970	501,241

TABLE 13. Producers' Sales of Structural Tile made from Domestic Clays, 1940-1949

Year	Hollow blocks ¹		Roofing tile		Floor tile (Quarries) ²	
	Short tons	\$	Number	\$	Sq. ft.	\$
1940.....	105,073	788,478	41,772	1,839	—	13,631
1941.....	117,530	1,063,120	—	750	—	21,349
1942.....	109,905	1,082,573	—	32	—	23,705
1943.....	84,469	819,535	—	827	—	26,949
1944.....	87,820	811,558	—	—	212,805	43,817
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	89,719
1949.....	166,090	2,482,224	—	—	178,884	70,969

1. Includes fireproofing and load-bearing tile.
 2. Includes value of glazed floor and wall tile.

TABLE 14. Producers' Sales of Structural Tile Made from Domestic Clays, by Provinces, 1949

Province	Hollow Blocks ¹		Floor Tile (Quarries)	
	Short tons	\$	Sq. ft.	\$
Nova Scotia.....	24,691	299,593	-	-
New Brunswick.....	756	9,179	-	-
Quebec.....	53,096	888,170	-	-
Ontario.....	54,350	784,165	178,884	70,969 ²
Manitoba.....	-	-	-	-
Saskatchewan.....	5,750	117,764	-	-
Alberta.....	18,570	237,841	-	-
British Columbia.....	8,877	145,512	-	-
Canada.....	166,090	2,482,224	178,884	70,969²

1. Includes fireproofing and load-bearing tile.
2. Includes value of glazed floor and wall tile.

TABLE 15. Producers' Sales of Products Made from Canadian Clays, by Months, 1948 and 1949 (Unrevised monthly data)

Month	Building Brick		Structural Tile ¹		Drain Tile		Sewer pipe	Fireclay blocks and shapes	Pottery ²	Other clay products ³	Total
	M	\$	Ton	\$	M	\$					
1948							\$	\$	\$	\$	\$
January.....	16,810	490,252	12,384	166,981	821	34,809	136,282	33,637	61,780	58,446	982,187
February.....	17,190	498,627	8,674	134,259	630	28,744	135,333	16,037	85,230	51,503	949,733
March.....	21,087	611,030	9,891	153,503	471	23,763	164,663	22,791	114,095	58,501	1,148,346
April.....	23,478	699,112	10,387	158,739	514	28,331	182,402	16,754	121,942	71,036	1,278,316
May.....	25,100	742,073	12,684	200,422	1,371	63,804	179,520	30,041	102,698	64,803	1,383,361
June.....	28,305	860,144	15,594	243,217	2,115	99,260	201,418	29,831	121,388	66,068	1,621,326
July.....	29,439	902,460	13,876	219,541	1,931	91,053	202,273	25,624	104,518	79,049	1,624,516
August.....	28,179	872,209	14,438	224,012	1,969	95,049	162,983	29,468	103,180	71,775	1,558,676
September.....	30,981	971,367	14,375	221,046	2,111	105,248	196,089	26,779	128,696	84,472	1,733,697
October.....	30,399	973,351	14,451	223,257	2,154	106,632	209,358	26,105	122,898	76,240	1,737,841
November.....	29,999	954,607	15,864	250,783	1,946	101,865	206,340	30,704	120,695	79,846	1,744,840
December.....	25,477	832,168	13,904	212,803	1,249	63,747	180,214	31,748	85,048	65,906	1,471,634
Total.....	306,524	9,407,400	156,522	2,408,563	17,282	842,305	2,156,875	319,519	1,272,168	827,845	17,234,475
1949											
January.....	21,991	704,665	13,274	201,862	995	47,292	155,044	29,302	70,946	58,412	1,267,525
February.....	19,616	639,779	12,584	191,787	944	42,432	150,883	23,492	50,928	62,311	1,161,612
March.....	22,960	734,383	14,388	225,439	1,159	62,074	152,006	27,869	63,249	66,413	1,331,433
April.....	20,744	681,296	10,196	164,304	1,105	59,739	167,932	22,783	52,994	80,688	1,229,936
May.....	27,946	855,291	12,549	214,129	1,618	85,256	211,939	20,656	38,709	81,243	1,507,223
June.....	29,062	914,038	14,962	223,792	2,099	107,904	215,727	36,753	49,010	94,383	1,641,607
July.....	28,953	910,562	14,976	236,680	1,967	106,749	164,846	22,186	41,233	47,914	1,530,170
August.....	30,192	959,916	16,077	251,326	2,719	116,372	191,067	24,886	65,489	109,837	1,718,893
September.....	30,467	970,591	16,284	254,395	1,859	99,891	189,961	29,942	82,025	100,865	1,707,670
October.....	30,735	977,030	14,479	219,933	2,058	108,038	178,414	39,819	61,405	107,326	1,691,965
November.....	28,614	919,730	14,594	225,181	1,880	96,263	181,482	31,338	43,643	56,210	1,553,847
December.....	23,870	791,227	12,977	208,932	1,021	52,344	136,794	30,368	29,915	78,354	1,327,934
Total.....	315,150	10,058,508	167,340	2,617,760	19,424	984,354	2,096,095	339,394	629,548	944,156	17,669,815

1. Includes floor tile.
2. Includes flower pots, stoneware, etc.
3. Includes firebrick, fireclay, china clay, etc.

TABLE 16. Producers' Sales of Bentonite and Kaolin, by Provinces, 1940-1949

Year	Bentonite								Kaolin ¹	
	Manitoba		Alberta		British Columbia		Canada		Tons	\$
	Tons	\$	Tons	\$	Tons	\$	Tons	\$		
1940.....	710	2,023	714	2,240	45	225	1,469	4,488	-	-
1941.....	760	1,330	1,317	5,882	95	618	2,172	7,830	2	30
1942.....	660	38,800	956	5,404	-	-	1,616	44,204	408	6,130
1943.....	-	110,428	-	5,262	-	1,357	2	117,047	93	1,531
1944.....	-	160,268	-	2,076	-	1,504	2	163,848	424	5,758
1945.....	-	169,551	-	1,248	-	-	2	170,799	446	3,771
1946.....	-	207,572	-	4,253	-	-	2	211,825	821	5,775
1947.....	-	253,786	-	4,541	-	-	2	258,327	-	-
1948.....	-	336,003	-	3,710	-	-	2	339,713	-	-
1949.....	-	360,591	-	7,277	-	-	2	367,868	-	-

1. All from Quebec.
2. Quantity not available for publication.

TABLE 17. Clays Used in the Manufacture of Soaps and Washing Compounds and in the Petroleum Products Industry, 1940-1949

Year	Petroleum Products Industry		Soaps and Washing Compounds	
	Pounds	\$	Pounds	\$
1940.....	23,828,660	406,185	1,651,471	40,695
1941.....	30,155,750	571,010	1,486,000	39,332
1942.....	24,162,091	528,350	2,116,000	66,963
1943.....	25,390,653	601,283	2,480,000	84,646
1944.....	27,569,500	646,708	2,398,351	83,189
1945.....	28,604,000	685,761	2,952,000	101,610
1946.....	25,623,347	570,819	2,978,000	86,577
1947.....	26,492,000	579,819	2,222,000	68,773
1948.....	29,522,000	766,079	2,236,000	76,960
1949.....	26,978,000	750,841	2,304,000	75,625

1. Value figure revised.

TABLE 18. China Clay (Kaolin) Used in the Manufacture of Paper, 1940-1949

Year	Tons	Value	Year	Tons	Value
		\$			\$
1940.....	36,931	558,659	1945.....	45,571	954,659
1941.....	32,844	588,505	1946.....	38,379	788,472
1942.....	28,734	578,190	1947.....	41,517	954,034
1943.....	26,374	561,285	1948.....	46,655	1,098,742
1944.....	47,995	987,488	1949.....	45,188	1,112,542

TABLE 19. Clays and Earths Used in the Rubber Goods Industry, 1940-1949

Year	Tons	Value	Year	Tons	Value
		\$			\$
1940.....	3,586	90,867	1945.....	3,953	102,182
1941.....	4,059	101,441	1946.....	4,333	107,710
1942.....	1,523	37,186	1947.....	5,495	140,100
1943.....	1,257	35,266	1948.....	5,121	147,316
1944.....	1,909	51,942	1949.....	7,958	255,026

TABLE 20. Firebrick, Fireclay and Cupola Blocks Used in the Manufacture of Iron and Steel and Their Products, 1940-1949

Year	Cost at works	Year	Cost at works
	\$		\$
1940.....	1,597,898	1945.....	3,088,142
1941.....	2,581,813	1946.....	2,280,172
1942.....	3,268,181	1947.....	3,054,353
1943.....	3,717,826	1948.....	4,088,719
1944.....	3,195,751	1949.....	3,834,000

TABLE 21. Fuller's Earth and Filtering Earths Used in Specified Industries, 1940-1949

Year	Sugar Refineries		Vegetable Oil Mills	
	Pounds	\$	Pounds	\$
1940.....	4,984,362	112,369	216,254	7,731
1941.....	5,333,131	133,129	275,290	10,604
1942.....	3,007,180	75,295	437,120	20,154
1943.....	3,451,142	89,075	484,380	20,302
1944.....	4,375,201	115,053	431,820	17,991
1945.....	3,983,325	102,961	643,179	24,824
1946.....	4,391,733	104,794	658,253	24,446
1947.....	4,980,232	141,885	734,407	28,581
1948.....	5,729,441	167,259	737,949	24,389
1949.....	5,741,397	187,508	697,326	29,405

TABLE 22. Imports and Exports of Clay and Clay Products, 1948 and 1949

	1948		1949	
	Quantity	\$	Quantity	\$
Imports				
China clay..... cwt.	1, 792, 538	1, 415, 322	1, 690, 013	1, 270, 022
Fire clay..... cwt.	1, 713, 493	415, 782	1, 594, 705	375, 654
Pipe clay..... cwt.	166, 005	25, 474	159, 066	28, 692
Clays, all other, n.o.p.	—	233, 679	—	284, 002
Zirconium silicate.....	—	49, 324	—	77, 140
Zirconium oxide.....	—	34, 420	—	55, 365
Saggars.....	—	90, 196	—	85, 169
Activated clay, for the refining of oils.....	—	272, 586	—	265, 793
Grog for refractory materials..... ton	3, 899	61, 788	4, 078	89, 460
Brick, building..... ton	22, 817	366, 482	60, 358	914, 256
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.	—	178, 933	—	126, 310
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).....	—	2, 629, 644	—	2, 748, 554
Brick, fire, n.o.p.	—	2, 153, 763	—	2, 083, 488
Brick, paving..... ton	4, 858	62, 518	3, 167	42, 978
Building blocks, building tile.....	—	354, 657	—	361, 992
Drain pipes, sewer pipes and earthenware fittings, chimney linings or vents, chimney tops or inverted blocks, glazed or unglazed, n.o.p.	—	458, 458	—	536, 198
Drain tiles, not glazed.....	—	1, 411	—	1, 990
Tiles or blocks of earthenware or stone, prepared for mosaic flooring.....	—	195, 328	—	271, 363
Earthenware tiles for roofing.....	—	4, 815	—	23, 423
Tiles, earthenware, n.o.p.	—	910, 477	—	944, 800
Chemical stoneware.....	—	148, 387	—	96, 442
Hand forms of porcelain, for the manufacture of rubber gloves.....	—	3, 108	—	8, 510
China and porcelain ware, n.o.p.	—	79, 239	—	82, 333
Demijohns, churns, or crocks n.o.p.	—	31, 158	—	37, 629
Tableware of china, porcelain.....	—	12, 488, 933	—	13, 368, 995
Stoneware, Rockingham ware and earthenware, n.o.p.	—	1, 355, 457	—	1, 693, 288
Artificial teeth, not mounted.....	—	868, 062	—	1, 084, 775
Baths, bathtubs etc, n.o.p.	—	2, 650, 075	—	2, 642, 107
Crucibles, n.o.p. and covers.....	—	55, 851	—	66, 974
Insulators, electric, porcelain and parts.....	—	518, 172	—	727, 710
Manufactures of clay, n.o.p.	—	315, 576	—	360, 488
Exports				
Building brick..... M	4, 860	140, 246	4, 270	134, 393
Bricks, fire.....	—	539, 497	—	570, 157
Clay, manufactures of.....	—	63, 121	—	22, 953
Clays, unmanufactured..... cwt.	89, 448	18, 656	97, 478	17, 509
Earthenware.....	—	97, 014	—	63, 475
Porcelain insulators.....	—	649, 598	—	920, 785
Total.....	—	1, 508, 132	—	1, 729, 272

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

TABLE 23. Employees and Their Earnings in the Domestic Clay Products Industry, 1945-1949

Year	Number of employees					Earnings		
	Administration and office		Workmen		Total	Adminis- tration and office	Workmen	Total
	Male	Female	Male	Female				
						\$	\$	\$
1945.....	225	66	2,188	209	2,688	652,758	3,175,448	3,828,206
1946.....	138	41	2,987	271	3,347	385,133	4,730,829	5,115,962
1947.....	163	44	3,190	155	3,552	494,173	5,710,532	6,204,705
1948.....	160	36	3,403	147	3,746	574,250	6,931,515	7,505,765
1949.....	183	32	3,295	93	3,603	688,023	7,236,818	7,924,841

TABLE 24. Workmen in the Domestic Clay Products Industry, by Months, 1948 and 1949

Month	1948				1949			
	Pit	Plant		Total	Pit	Plant		Total
	Male	Male	Female		Male	Male	Female	
January.....	126	2,673	134	2,933	155	2,789	88	3,027
February.....	115	2,703	133	2,951	106	2,606	84	2,796
March.....	151	2,763	138	3,052	120	2,783	93	2,996
April.....	179	2,961	147	3,287	139	2,993	99	3,231
May.....	243	3,379	166	3,788	184	3,347	117	3,648
June.....	256	3,546	152	3,954	203	3,536	121	3,860
July.....	265	3,596	188	4,049	199	3,562	116	3,877
August.....	276	3,607	149	4,032	196	3,492	112	3,800
September.....	247	3,461	136	3,844	179	3,368	113	3,660
October.....	215	3,349	144	3,708	157	3,179	102	3,438
November.....	182	3,198	130	3,510	163	3,042	35	3,240
December.....	139	3,031	143	3,313	146	3,799	59	3,004
Average.....	205	3,198	147	3,550	173	3,122	83	3,388

Domestic Clay Products Operators, 1949

(a) Clay used (b) Shale used (c) Idle, 1949 (d) Produce bentonite

Name of Firm	Head Office Address	Location of Plant
Newfoundland:		
Pelly's Brickyard (a).....	Milton.....	Milton
Smith, Aaron & Sons (a).....	Elliott's Cove, Randall Island.....	Elliott's Cove
Nova Scotia:		
Harriss & Harriss.....	5 Byng Ave., Sydney.....	Sydney
Shaw, L. E. Limited (a) (b).....	Box 1135, Halifax.....	Elmsdale and New Glasgow
Standard Clay Products Limited (a) (b).....	St. Johns, Quebec.....	New Glasgow
New Brunswick:		
Anderson Claybrick & Tile Ltd. (a).....	Box 789, Saint John, N. B.....	East Saint John
Ryan Brick & Tile Ltd.	Box 1135, Halifax, Nova Scotia.....	Fredericton
Shaw, L. E. Limited (b).....	Box 1135, Halifax, Nova Scotia.....	Chipman
Quebec:		
Ascot Brick Reg'd (a).....	Ascot Corner.....	Ascot Corner
Castonguay, Hubert.....	Deschailions.....	Deschailions
Citadelle Brique Ltée (b).....	14 rue St. Joseph, Quebec.....	Beauport E. and Boischatel
Desmarais, S. E. & Cie (a).....	Richmond.....	Richmond
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 Delson Junction
Montreal Terra Cotta Limited (a).....	1010 Ste. Catherine St. W., Montreal....	Deschailions and Lakeside
Potvin, Arthur (a).....	Mitchell Station.....	Mitchell Station
Potvin & Chandonnet (a).....	Deschailions.....	Deschailions
Roy, Philippe (a).....	St. George West.....	St. George West
St. George Briqueterie (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
Ontario:		
Barnes, Wm. R. Co. Ltd.....	243 Cumberland Ave., Hamilton.....	Waterdown
Beaverton Brick & Tile (a).....	Beaverton.....	Beaverton
Bracebridge Brick Works (a).....	Bracebridge.....	Bracebridge
Brampton Pressed Brick Co. Limited (b)...	Brampton.....	Brampton
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 (a) (b).....	Drawer 70, New Toronto.....	New Toronto
Cooksville Company Limited (The) (b).....	46 Bloor St. W., Toronto.....	Cooksville
Cornhill, James & Sons Ltd. (a).....	Box 36, Chatham.....	Harwich Tp.
Coultis, Geo. & Son (b).....	Theford.....	Bosanquet Tp.
Curtin, F. Estate (a).....	R.R. 4, Lindsay.....	Lindsay
Curtis Bros. (a).....	Box 809, Peterborough.....	Otonabee Tp.
Deller, Albert & Son (a).....	Brownsville.....	Brownsville
Dochart Brick & Tile Works (a).....	Box 397, Amprior.....	Amprior
Donaldson, Thomas G. (a).....	Greenock.....	Culross Tp.
Douglas, John R. & Sons (a).....	Wilkesport.....	Wilkesport
Dresden Tile Yard (a).....	R.R. 2, Dresden.....	Dresden

Domestic Clay Products Operators, 1949 - Con.

(a) Clay used (b) Shale used (c) Idle, 1949 (d) Produce bentonite

Name of Firm	Head Office Address	Location of Plant
Ontario - Concluded:		
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
Hamilton Pressed Brick Co. Limited (a) (b)	211 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
International Ceramic Mining Ltd.....	54 Wellington St. W., Toronto.....	Melissa
Interprovincial Brick Company Limited (b)	46 Bloor St. W., Toronto.....	Cheltenham and Milton
Janes, D. A. (a).....	Mt. Brydges.....	Caradoc Tp.
Jesson & Pascoe Brick Co. (b).....	49 Ferrier Ave., Toronto.....	Scarboro Tp.
Koebel, C. and Son (a).....	St. Clements.....	St. Clements
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. (b).....	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
National Fire Proofing Company of Canada Ltd. (a) (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).....	Mimico.....	Mimico
Ottawa Brick & Terra Cotta Co. Ltd., The (a) (b)	Billings Bridge.....	Billings Bridge
Owen Sound Brick Company Ltd. (a).....	473-7th Avenue E., Owen Sound.....	Owen Sound
Paisley Brick & Tile Yard (a).....	Box 220, Paisley.....	Paisley
Paxton Brick & Coal Co. Limited (a).....	79 Herrick Ave., St. Catharines.....	St. Catharines
Phippen & Son (a).....	390 Dawes Rd., Toronto.....	East York
Seegmiller, E. & E. Limited (a).....	525 Wendell Ave., Kitchener.....	Kitchener
Sproat & Sproat (a).....	R.R. 4, Seaforth.....	Tuckersmith Tp.
Superior Brick & Tile Co. Limited (a).....	426 Victoria Ave., Fort William.....	Paipoonge Tp.
Thomson, Ralph (a).....	R.R. 4, Atwood.....	Grey Tp.
Toronto Brick Co. Ltd. (a) (b).....	897 Bay St., Toronto.....	Todmorden and Toronto
Wagstaff Brick and Tile Co. (a).....	R.R. 4, Lindsay.....	Lindsay
Wallace, R. & Son (a).....	238 First Ave. E., North Bay.....	Widdifield Tp.
Wright, F. M. & Son (a).....	Comber.....	Tilbury W. Tp.
Wright Brick Co. (a).....	Box 84 "H", Toronto.....	East York Tp.
Manitoba:		
Alsip Brick, Tile & Lumber Company Limited (a)	508 Portage Ave., Winnipeg.....	Portage la Prairie, Whitemouth and Winnipeg
Leary Brick Works (b).....	Leary's.....	Leary's
Marion Brick, Tile & Clay Products Ltd. (c)	Box 30, St. Boniface.....	Old Kildonan
Pembina Mountain Clay Ltd. (d).....	915 Paris Bldg., Winnipeg.....	Mosden
Western Clay Products Ltd. (a).....	216 Enderton Bldg., Winnipeg.....	Edrans

Domestic Clay Products Operators, 1949 - Con.

(a) Clay used (b) Shale used (c) Idle, 1949 (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 Clay Products (a).....	401 Westman Chambers, Regina.....	Estevan
Alberta:		
Acme Brick & Tile Co., The (a).....	125 Alberta Block, Edmonton.....	Cannell
Aetna Coals Limited (d).....	Wayne.....	Wayne
Alberta Clay Products Co. Ltd. (a).....	Box 672, Medicine Hat.....	Medicine Hat
Grande Prairie Brick Yard (a).....	Grande Prairie.....	Grande Prairie
Gunderson Brick & Coal Co. Ltd. (a).....	Redcliff.....	Redcliff
Kidd, Gordon L. (d).....	Box 230 Drumbeller.....	Drumbeller
Little, J. B. & Sons Ltd. (a).....	9120, 100th Ave., Edmonton.....	Riverdale
Medicine Hat Brick & Tile Co. Ltd. (a)....	Box 100, Medicine Hat.....	Medicine Hat
Redcliff Premier Brick Co. Ltd. (a).....	Redcliff.....	Redcliff
Redcliff Pressed Brick Co. Ltd. (a) (b)....	Redcliff.....	Redcliff
British Columbia:		
Baker Brick & Tile Company Limited (a)...	3191 Douglas St., Victoria.....	Victoria
Bazan Bay Brick & Tile Co. (a).....	Saanichton.....	Bazan Bay
Blackman & Burns (b).....	R.R. 3, Abbotsford.....	Abbotsford
Burrard Brick & Tile Co. (a) (b).....	Port Moody.....	Port Moody
Clayburn Company Limited (a).....	850 West Hastings St., Vancouver.....	Kilgard
Coast Clay Products (c).....	Pleasantside.....	Port Moody
Evans, Coleman & Evans Limited (b).....	902 Columbia St., Vancouver.....	Gabriola Island
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).....	846 Howe St., Vancouver.....	Haney
Ray-Vite Laboratories Ltd. (c).....	138 West First Ave., Vancouver.....	Namu
Richmix Clays Ltd. (a).....	2890-12 th Ave. E., Vancouver.....	Kilgard

Producers of Stoneware and Pottery 1949

Name of Firm	Head Office Address	Location of Plant
New Brunswick:		
Canuck Pottery (a).....	Box 116, Saint John.....	Little River
The Dykelands (a).....	Moss Glen.....	Moss Glen
Quebec:		
Elsterman Quebec Art Pottery (a) (b).....	Box 552, Ste. Agathe des Monts.....	Ste Agathe des Monts
Syndicat des Ceramistes Paysans de Beauce(c)	St. Joseph de Beauce.....	St. Joseph de Beauce
Ontario:		
Foster Pottery Company (a).....	Main St. W., Hamilton.....	Hamilton
Zavi, Jarko (a).....	R.R. 5, Cobourg.....	Cobourg
Alberta:		
Medalta Potteries Limited (a).....	Medicine Hat,.....	Medicine Hat

II. Products from Imported Clays, 1949

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 1949 included high tension insulators, vitreous china sanitaryware, china dinnerware, firebrick, sewer pipe, floor and wall tile, refractory cements, electrical porcelains, etc.

Forty plants reported in this group for 1949 and their output was valued at \$14,457,162 against last year's total of \$12,363,734 and the 1947 figure of \$9,604,476. The average number of workers was 2,356 and payments for salaries and wages totalled \$5,332,757. Fuel and electricity cost \$746,597 and materials for use in manufacturing processes cost \$3,526,190.

TABLE 25. Principal Statistics of the Imported Clay Products Industry, 1945-1949

Year	Number of plants	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
			\$	\$	\$	\$
1945.....	28	1,427	2,064,645	345,127	1,167,283	5,327,282
1946.....	32	1,913	2,870,543	440,771	1,674,391	7,073,371
1947.....	33	2,150	3,817,551	545,952	2,205,570	9,604,476
1948.....	38	2,288	4,796,958	722,085	2,825,026	12,363,734
1949.....	40	2,356	5,332,757	746,597	3,526,190	14,457,162
Per cent change 1949 from 1948	—	+3.0	+11.2	+3.4	+24.8	+16.9

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 26. Principal Statistics of the Imported Clay Products Industry, by Provinces, 1948 and 1949

Province	Number of plants	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
			\$	\$	\$	\$
1948						
Quebec.....	7	351	828,421	201,100	472,910	2,452,265
Ontario.....	26	1,729	3,655,464	509,467	2,137,158	9,125,645
Manitoba.....	1	208	313,073	11,518	214,958	785,824
Alberta.....	2					
British Columbia	2					
Canada.....	38	2,288	4,796,958	722,085	2,825,026	12,363,734
1949						
Quebec.....	8	390	974,332	202,765	536,095	3,206,078
Ontario.....	25	1,698	3,940,766	516,521	2,813,277	10,325,496
New Brunswick	1	268	417,659	27,311	176,818	925,588
Alberta.....	4					
British Columbia	2					
Canada.....	40	2,356	5,332,757	746,597	3,526,190	14,457,162

TABLE 27. Products Made in the Imported Clay Products Industry, 1948 and 1949

Product	1948		1949	
	Gross selling value at works		Gross selling value at works	
	\$		\$	
Firebrick and stove linings:				
Rigid	623,499		678,211	
Plastic.....	418,367		420,474	
High temperature cements.....	168,912		163,470	
Electrical porcelains (high tension insulators and other electrical porcelains).....	4,445,890		5,479,213	
Pottery - Artware.....	186,810		309,540	
Pottery, other (sanitaryware, tableware, stoneware, etc.).....	4,936,100		5,832,691	
All other products ¹	1,584,156		1,573,563	
Total	12,363,734		14,457,162	

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

TABLE 28. Materials Used in the Imported Clay Products Industry, 1948 and 1949

Material	1948		1949	
	Short tons	Total cost at works	Short tons	Total cost at works
		\$		\$
Imported clays:				
Ball clay.....	8,406	197,182	8,868	225,164
China clay.....	7,379	215,747	7,564	202,310
Fireclay.....	36,925	326,594	35,563	335,713
Saggar clay.....	887	18,785	952	19,691
Other imported clays.....	1,021	16,266	1,172	25,832
Canadian clays:				
China clay.....	2,227	14,734	551	4,402
Fireclay.....	47	1,700	105	1,784
Other Canadian clays.....	70	583	-	7,993
Firebrick, ground or broken (grog), including scrap brick.....	-	128,822	-	142,298
Feldspar	7,085	194,048	6,163	169,265
Nepheline syenite	488	12,571	1,081	26,938
Silica sand and ground quartz	8,002	116,376	7,630	127,001
Sodium silicate.....	518	12,994	542	17,681
Talc.....	1,127	25,332	882	21,460
Other glazing materials.....	-	64,923	-	63,376
Insulator hardware.....	-	877,381	-	1,287,337
Shipping containers and packing materials.....	-	380,929	-	425,758
All other materials and process supplies.....	-	220,059	-	404,187
Total.....	-	2,825,026	-	3,526,190

TABLE 29. Total Production of Refractory Shapes, 1940-1949

Year	From domestic clays				Silica Brick		Others ¹		Total
	Fireclay blocks and shapes	Firebrick		Rigid firebrick and stove linings					
		\$	M	\$	M	\$	tons	\$	
1940.....	85,127	3,167	165,525	3,438	182,786	-	892,072	1,325,510	
1941.....	190,497	3,643	183,897	4,111	238,433	32,600	1,186,805	1,798,632	
1942.....	210,246	3,816	197,830	4,273	263,006	54,800	1,753,245	2,432,416	
1943.....	262,154	3,644	192,618	4,165	295,505	31,341	1,461,484	2,211,761	
1944.....	221,251	3,180	164,837	3,764	296,292	29,400	1,706,706	2,389,086	
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	

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

TABLE 30. Total Production of Refractory Cements and Plastics, 1940-1949

Year	Short tons	Selling value at works	Year	Short tons	Selling value at works
		\$			\$
1940.....	10,915	630,450	1945.....	18,308	1,061,786
1941.....	16,379	933,388	1946.....	18,166	1,071,224
1942.....	18,458	1,027,836	1947.....	21,118	1,283,480
1943.....	18,619	1,100,310	1948.....	22,007	1,439,612
1944.....	17,383	980,365	1949.....	21,619	1,476,000

TABLE 31. Employees and their Earnings in the Imported Clay Products Industry, by Provinces, 1948 and 1949

Provinces	Average Number of Employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
						\$	\$	\$
1948								
Quebec.....	40	11	287	13	351	138,695	689,726	828,421
Ontario.....	134	61	1,109	425	1,729	587,565	3,067,899	3,655,464
Manitoba.....	6	3	136	63	208	15,661	297,412	313,073
Alberta.....								
British Columbia.....								
Canada.....	180	75	1,532	501	2,288	741,921	4,055,037	4,796,958
1949								
Quebec.....	46	12	309	23	390	160,447	813,885	974,332
Ontario.....	151	62	1,077	408	1,698	724,537	3,216,229	3,940,766
New Brunswick.....	10	5	129	124	268	30,192	387,467	417,659
Alberta.....								
British Columbia.....								
Canada.....	207	79	1,515	555	2,356	915,176	4,417,581	5,332,757

List of Firms in the Imported Clay Products Industry - 1949

Name of Firm	Address
New Brunswick:	
Canuck Pottery.....	Bayside Drive, Saint John
Quebec:	
Canada Firebrick Company Limited.....	4741 St. Ambroise St., Montreal
Canadian Potteries Limited.....	5 Blvd. du Séminaire, St. Johns
Elsterman Quebec Art Pottery.....	22 Leblanc St., Ste. Agathe des Monts
La Poterie de Lévis, Enr.	270 rue Georges, Lévis
Laurentian Art Pottery Inc.	Ave. de la Poterie, St. Jérôme
Standard Clay Products.....	St. Johns
Vandesca Pottery Ltd.	405 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.....	64 Burwell Road, St. Thomas
Iva Crumback China.....	53 Perry St., Woodstock
Dominion Potteries Limited.....	Dundas St. N., Oakville
Donvale Pottery Company.....	27 Davies Ave., Toronto
Electro Porcelain Limited.....	2 Stewart St., Kitchener
Ecanada Art Pottery.....	206 Dundurn St. S., Hamilton
Frontenac Floor & Wall Tile Co. Limited.....	Kingston
Georgetown Clay Products Limited.....	King St., Georgetown
Green, A.P., Fire Brick Co. Ltd.	234 Rosemount Ave. (Weston), Toronto
Haines Ceramics Ltd.	94-100 Woodworth Ave., St. Thomas
Hamilton Porcelains Limited.....	38 Elgin St., Brantford
Industrial Ceramics Ltd.	Cooksville
Lincoln Pottery Limited.....	Central Ave., Beamsville
McMaster Pottery Limited.....	122 Hatt St., Dundas
National Refractories Limited.....	Port Robinson
Peterboro Art Pottery.....	Water St. N., Peterborough
Pilbrico Jointless Firebrick Ltd.	Horner Ave., Toronto
Robinson Clay Product Co. of Canada Ltd.	119 Shaftesbury Ave., Toronto
Royal Canadian Art Pottery.....	Kenilworth Ave., Hamilton
Sovereign Potteries Limited.....	282 Sherman Ave. N., Hamilton
Sutton Ceramics Limited.....	Sutton
York China and Artware Co. Ltd.	615 Spadina Ave., Toronto
Alberta:	
Ceramic Art Works.....	2nd Ave. N., Redcliffe
Medalta Potteries Limited.....	Industrial Ave., Medicine Hat
Medicine Hat Potteries.....	Bridge & Clay Sts., Medicine Hat
National Porcelain Limited.....	Medicine Hat
British Columbia:	
Allen Refractories.....	65-E-1st Ave., Vancouver
Lambert Potteries.....	4316 Fraser Ave., Vancouver

MINERAL STATISTICS OF CANADA

III. The Sand-Lime Brick Industry, 1949

Five plants in Canada operated in this industry during 1949. Three of these were located in Ontario, 1 in Quebec, and 1 in Manitoba. Production, including some building blocks, haydite tile, etc., was valued at \$1,380,739 compared with the 1948 total of \$1,452,366.

An average of 184 people was employed in these works in 1949, and they were paid \$415,844 in salaries and wages. Expenditures for fuel and elec-

tricity amounted to \$83,025 and for processing materials to \$330,906.

Production of sand-lime brick amounted to 42,219 M valued at \$915,660, an increase in both quantity and value over the output of 39,210 M bricks at \$776,298 in the previous year. Production of sand-lime building blocks increased to 519 M at \$107,731 over 468 M at \$94,702 in 1948.

TABLE 32. Principal Statistics of the Sand-Lime Brick Industry in Canada, 1945-1949

Year	Number of plants	Average number of employees	Salaries and wages	Cost fo fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
			\$	\$	\$	\$
1945.....	4	78	125,321	28,615	84,639	308,652
1946.....	5	134	236,566	47,651	211,920	651,781
1947.....	4	125	210,754	55,982	152,362	592,170
1948.....	5	206	440,816	82,222	360,266	1,452,366
1949.....	5	184	415,844	83,025	330,906	1,380,739

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 33. Products Made in the Sand-Lime Brick Industry, 1948 and 1949

Product	1948		1949	
	Quantity	Selling value at works	Quantity	Selling value at works
	M	\$	M	\$
Sand-lime brick.....	39,210	776,298	42,219	915,660
Sand-lime building blocks.....	468	94,702	519	107,731
Other products ¹	-	581,366	-	357,348
Total.....	-	1,452,366	-	1,380,739

1. Includes cement blocks and haydite tile, etc.

TABLE 34. Materials Used in the Sand-Lime Brick Industry, 1948 and 1949

Materials	Unit of measure	1948		1949	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Portland cement.....	bag	61,124	41,703	42,611	30,905
Quicklime.....	ton	9,186	108,886	9,911	128,908
Sand and gravel.....	cu. yd.	69,613	108,355	66,951	94,031
Other materials.....	-	-	101,322	-	77,062
Total.....	-	-	360,266	-	330,906

TABLE 35. Production of Sand-Lime Brick in Canada, 1940-1949 (From all industries)

Year	Quantity	Selling value at works	Year	Quantity	Selling value at works
	M	\$		M	\$
1940.....	17,405	196,423	1945.....	15,514	260,136
1941.....	19,223	230,030	1946.....	39,096	572,008
1942.....	12,472	169,716	1947.....	35,017	527,275
1943.....	9,088	123,268	1948.....	40,006	795,402
1944.....	12,235	171,594	1949.....	43,260	939,435

TABLE 36. Employees, Salaries and Wages, 1948 and 1949

	1948	1949
Supervisory and office employees:		
Male..... No.	12	12
Female..... No.	1	1
Total..... No.	13	13
Production workers:		
Male..... No.	188	166
Female..... No.	5	5
Total..... No.	193	171
Total Employees..... No.	206	184
Salaries..... \$	42,984	47,715
Wages..... \$	397,832	368,129
Total Salaries and Wages..... \$	440,816	415,844

List of Firms in the Sand-Lime Brick Industry, 1949

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.	Clonmore Drive, Toronto, Ontario
Alsip Brick, Tile & Lumber Company, Limited.....	508 Portage Ave., Winnipeg, Manitoba

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