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# CLAY PRODUCTS MANUFACTURERS

(From Domestic Clays)

1965

ANNUAL CENSUS  
OF MANUFACTURES

*Published by Authority of*  
The Minister of Trade and Commerce

DOMINION BUREAU OF STATISTICS  
Manufacturing and Primary Industries Division

September 1967  
6506-846

Price: 50 cents

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## CLAY PRODUCTS MANUFACTURERS (From Domestic Clays)

1965

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

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

### SYMBOLS

The following standard symbols are used in Dominion Bureau of Statistics publications:

- .. figures not available.
- ... figures not appropriate or not applicable.
- nil or zero.
- amount too small to be expressed.
- p preliminary figures.
- \* revised figures.
- x confidential to meet secrecy requirements of the Statistics Act.

TABLE 1. Principal Statistics, 1961-65

Year and province	Establishments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1961													
Totals.....	98	3,140	6,916	11,413	5,610	4,734	35,219	24,233	11	23	3,734	14,509	24,466
1962													
Totals.....	93	3,116	6,872	11,728	5,406	5,645	37,054	26,772	7	15	3,693	14,794	26,746
1963													
Totals.....	89	2,930	6,329	11,056	5,406	4,966	37,587	27,193	7	18	3,519	14,319	27,572
1964													
Newfoundland .....	1	x	x	x	x	x	x	x	—	—	x	x	x
Prince Edward Island.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia .....	4	159	346	546	277	254	1,560	928	x	x	176	639	920
New Brunswick .....	2	x	x	x	x	x	x	x	—	—	x	x	x
Quebec .....	11	573	1,142	2,309	1,085	916	6,878	4,814	x	x	679	2,914	4,851
Ontario .....	55	1,580	3,753	6,428	3,446	3,358	24,194	17,039	7	17	1,951	8,566	17,232
Manitoba.....	3	x	x	x	x	x	x	x	—	—	x	x	x
Saskatchewan .....	2	x	x	x	x	x	x	x	—	—	x	x	x
Alberta .....	6	240	456	941	133	474	3,199	2,576	—	—	297	1,286	2,553
British Columbia.....	4	x	x	x	x	x	x	x	x	x	x	x	x
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals.....	88	2,923	6,504	11,728	5,578	5,879	40,482	28,324	11	25	3,577	15,495	28,633
1965													
Newfoundland .....	1	x	x	x	x	x	x	x	—	—	x	x	x
Prince Edward Island.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia .....	4	151	361	575	299	171	1,855	1,420	x	x	168	668	1,423
New Brunswick .....	1	x	x	x	x	x	x	x	—	—	x	x	x
Quebec .....	10	557	1,172	2,322	1,142	912	6,634	4,832	x	x	648	2,892	4,861
Ontario .....	52	1,568	3,593	6,770	3,534	3,427	25,490	18,350	7	18	1,917	8,916	18,514
Manitoba.....	2	x	x	x	x	x	x	x	—	—	x	x	x
Saskatchewan .....	2	x	x	x	x	x	x	x	—	—	x	x	x
Alberta .....	7	252	502	1,038	171	535	3,218	2,689	—	—	313	1,421	2,680
British Columbia.....	4	x	x	x	x	x	x	x	x	x	x	x	x
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals.....	83	2,904	6,454	12,506	5,888	6,322	42,753	31,095	11	26	3,522	16,231	31,357

TABLE 2. Principal Statistics classified by Size Group based on Value of Shipments of Goods of Own Manufacture, 1964 and 1965

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1964													
Under \$10,000 .....	3	2	2	3	5	1	20	14	4	11	2	3	14
\$ 10,000 to \$ 24,999 .....	5	31	59	76	33	12	90	71	4	6	37	95	134
25,000 " 49,999 .....	13	61	131	169	92	44	496	342	2	5	77	229	346
50,000 " 99,999 .....	14	133	311	459	235	83	1,139	809	1	3	159	572	814
100,000 " 199,999 .....	8	174	389	501	211	114	1,211	879	—	—	201	639	889
200,000 " 499,999 .....	25	703	1,508	2,501	1,461	968	8,106	5,617	—	—	858	3,380	5,850
500,000 " 999,999 .....	10	462	1,109	1,810	1,064	1,161	6,978	4,482	—	—	556	2,393	4,503
1,000,000 " 4,999,999 .....	10	1,357	2,998	6,208	2,477	3,497	22,443	16,110	—	—	1,655	8,008	16,090
5,000,000 and over .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	32	177	(7)
Totals .....	88	2,923	6,504	11,728	5,578	5,897	40,482	28,324	11	25	3,577	15,495	28,633
1965													
Under \$10,000 .....	7	13	26	36	21	4	102	79	9	20	14	37	79
\$ 10,000 to \$ 24,999 .....	9	53	111	149	45	38	346	268	2	6	60	175	267
25,000 " 49,999 .....	13	96	210	322	167	67	922	641	—	—	118	422	641
50,000 " 99,999 .....	9	148	326	515	237	145	1,214	950	—	—	175	653	987
100,000 " 199,999 .....	21	555	1,249	2,098	1,115	817	6,668	4,722	—	—	676	2,822	4,790
200,000 " 499,999 .....	13	557	1,287	2,236	1,363	1,280	5,239	5,678	—	—	663	2,904	5,720
500,000 " 999,999 .....	11	1,482	3,246	7,151	2,940	3,973	25,262	18,757	—	—	1,794	9,095	18,875
1,000,000 " 4,999,999 .....	—	—	—	—	—	—	—	—	—	—	—	—	—
5,000,000 and over .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	22	123	(2)
Totals .....	83	2,904	6,454	12,506	5,888	6,322	42,753	31,095	11	26	3,522	16,231	31,357

TABLE 3. Principal Statistics classified by Size Group based on Manufacturing Value Added, 1964 and 1965

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1964													
Under \$10,000 .....	4	8	13	15	7	2	34	21	4	11	9	15	21
\$ 10,000 to \$ 24,999 .....	12	59	121	168	116	43	422	234	4	6	79	243	295
25,000 " 49,999 .....	8	44	98	123	61	29	355	269	3	8	52	158	279
50,000 " 99,999 .....	14	165	376	554	261	98	1,311	971	—	—	193	686	983
100,000 " 199,999 .....	14	344	744	1,067	576	249	2,952	2,034	—	—	394	1,373	2,027
200,000 " 499,999 .....	23	770	1,711	2,844	1,582	1,604	10,142	6,882	—	—	958	3,906	7,149
500,000 " 999,999 .....	5	342	795	1,460	803	676	5,083	3,358	—	—	390	1,781	3,366
1,000,000 " 4,999,999 .....	8	1,191	2,646	5,496	2,173	3,177	20,184	14,556	—	—	1,470	7,157	14,520
5,000,000 and over .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	32	177	(7)
Totals .....	88	2,923	6,504	11,728	5,578	5,879	40,482	28,324	11	25	3,577	15,495	28,633
1965													
Under \$10,000 .....	3	1	2	3	5	—	24	19	4	11	1	3	19
\$ 10,000 to \$ 24,999 .....	6	19	38	54	27	15	138	99	6	12	20	55	99
25,000 " 49,999 .....	13	78	172	239	116	41	666	460	1	3	92	288	458
50,000 " 99,999 .....	11	111	244	407	188	120	1,023	751	—	—	138	550	783
100,000 " 199,999 .....	13	278	605	973	478	312	2,735	1,936	—	—	328	1,288	1,946
200,000 " 499,999 .....	23	786	1,768	3,095	1,763	1,607	10,591	7,349	—	—	944	4,023	7,459
500,000 " 999,999 .....	6	400	951	1,682	884	721	5,623	4,142	—	—	462	2,121	4,156
1,000,000 " 4,999,999 .....	8	1,231	2,674	6,053	2,428	3,505	21,953	16,339	—	—	1,515	7,780	16,438
5,000,000 and over .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	22	123	(2)
Totals .....	83	2,904	6,454	12,506	5,888	6,322	42,753	31,095	11	26	3,522	16,231	31,357



TABLE 4. Principal Statistics classified by Size Group based on Total Value Added, 1964 and 1965

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
<b>1964</b>													
Under \$10,000 .....	4	8	13	15	7	2	34	21	4	11	9	15	21
\$ 10,000 to \$ 24,999 .....	11	45	95	134	94	38	404	213	4	6	60	191	212
25,000 " 49,999 .....	9	58	123	166	66	47	414	319	3	8	68	207	328
50,000 " 99,999 .....	13	154	351	504	248	79	1,136	843	—	—	181	624	910
100,000 " 199,999 .....	15	355	770	1,109	605	255	3,086	2,132	—	—	409	1,437	2,134
200,000 " 499,999 .....	23	770	1,711	2,844	1,582	1,604	10,142	6,882	—	—	958	3,906	7,149
500,000 " 999,999 .....	5	342	795	1,460	803	676	5,083	3,358	—	—	390	1,781	3,366
1,000,000 " 4,999,999 .....	8	1,191	2,646	5,496	2,173	3,177	20,184	14,556	—	—	1,470	7,157	14,520
5,000,000 and over .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	32	177	(7)
<b>Totals .....</b>	<b>88</b>	<b>2,923</b>	<b>6,504</b>	<b>11,728</b>	<b>5,578</b>	<b>5,879</b>	<b>40,482</b>	<b>28,324</b>	<b>11</b>	<b>25</b>	<b>3,577</b>	<b>15,495</b>	<b>28,633</b>
<b>1965</b>													
Under \$10,000 .....	3	1	2	3	5	—	24	19	4	11	1	3	19
\$ 10,000 to \$ 24,999 .....	6	19	38	54	27	15	138	99	6	12	20	55	99
25,000 " 49,999 .....	13	78	172	239	116	41	666	460	1	3	92	288	458
50,000 " 99,999 .....	10	100	219	364	160	117	920	674	—	—	123	485	673
100,000 " 199,999 .....	15	323	702	1,152	533	418	3,163	2,214	—	—	386	1,541	2,252
200,000 " 499,999 .....	23	811	1,854	3,145	1,757	1,599	10,873	7,652	—	—	978	4,128	7,761
500,000 " 999,999 .....	5	341	793	1,496	862	626	5,017	3,639	—	—	385	1,828	3,659
1,000,000 " 4,999,999 .....	8	1,231	2,674	6,053	2,428	3,505	21,953	16,339	—	—	1,515	7,780	16,438
5,000,000 and over .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	22	123	(2)
<b>Totals .....</b>	<b>83</b>	<b>2,904</b>	<b>6,454</b>	<b>12,506</b>	<b>5,888</b>	<b>6,322</b>	<b>42,753</b>	<b>31,095</b>	<b>11</b>	<b>26</b>	<b>3,522</b>	<b>16,231</b>	<b>31,357</b>

TABLE 5. Principal Statistics classified by Size Group based on Total Employed, 1964 and 1965

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
<b>1964</b>													
Under 5 employed .....	7	11	20	35	29	19	148	98	6	13	14	44	97
5- 14 employed .....	26	188	432	595	310	97	1,521	1,068	5	12	226	752	1,076
15- 49 " .....	38	1,001	2,205	3,652	2,167	1,858	12,694	8,643	—	—	1,176	4,745	8,751
50- 99 " .....	7	315	748	1,099	586	434	3,834	2,583	—	—	418	1,605	2,805
100-199 " .....	10	1,408	3,099	6,346	2,486	3,470	22,285	15,933	—	—	1,711	8,172	15,708
200-499 " .....									—	—	—	—	—
500 employed and over .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	32	177	(7)
<b>Totals .....</b>	<b>88</b>	<b>2,923</b>	<b>6,504</b>	<b>11,728</b>	<b>5,578</b>	<b>5,879</b>	<b>40,482</b>	<b>28,324</b>	<b>11</b>	<b>25</b>	<b>3,577</b>	<b>15,495</b>	<b>28,633</b>
<b>1965</b>													
Under 5 employed .....	9	14	31	53	29	18	253	156	7	16	17	64	155
5- 14 employed .....	20	146	319	473	223	92	1,169	863	4	10	173	591	862
15- 49 " .....	33	790	1,754	3,051	1,677	1,438	10,116	7,081	—	—	951	4,053	7,128
50- 99 " .....	13	667	1,575	2,693	1,562	1,409	9,734	6,920	—	—	807	3,537	7,094
100-199 " .....	5	562	1,201	2,710	966	1,662	10,983	8,404	—	—	711	3,679	8,392
200-499 " .....	3	725	1,575	3,525	1,430	1,705	10,498	7,672	—	—	841	4,184	7,728
500 employed and over .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	22	123	(2)
<b>Totals .....</b>	<b>83</b>	<b>2,904</b>	<b>6,454</b>	<b>12,506</b>	<b>5,888</b>	<b>6,322</b>	<b>42,753</b>	<b>31,095</b>	<b>11</b>	<b>26</b>	<b>3,522</b>	<b>16,231</b>	<b>31,357</b>

TABLE 6. Principal Statistics classified by Type of Organization, 1964 and 1965

Type of organization	Establishments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
<b>1964</b>													
Individual ownerships .....	5	22	53	68	28	9	151	115	4	11	22	68	118
Partnerships .....	7	81	171	271	157	61	894	694	7	14	90	329	693
Incorporated companies .....	76	2,820	6,281	11,388	5,392	5,809	39,437	27,515	...	...	3,433	14,920	27,829
Co-operatives .....	—	—	—	—	—	—	—	—	...	...	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	32	177	(7)
<b>Totals .....</b>	<b>88</b>	<b>2,923</b>	<b>6,504</b>	<b>11,728</b>	<b>5,578</b>	<b>5,879</b>	<b>40,482</b>	<b>28,324</b>	<b>11</b>	<b>25</b>	<b>3,577</b>	<b>15,495</b>	<b>28,633</b>
<b>1965</b>													
Individual ownerships .....	5	20	40	61	27	9	150	114	4	11	20	61	113
Partnerships .....	4	9	18	28	14	2	70	54	7	15	9	28	54
Incorporated companies .....	74	2,875	6,396	12,418	5,847	6,311	42,533	30,928	...	...	3,471	16,020	31,192
Co-operatives .....	—	—	—	—	—	—	—	—	...	...	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	22	123	(2)
<b>Totals .....</b>	<b>83</b>	<b>2,904</b>	<b>6,454</b>	<b>12,506</b>	<b>5,888</b>	<b>6,322</b>	<b>42,753</b>	<b>31,095</b>	<b>11</b>	<b>26</b>	<b>3,522</b>	<b>16,231</b>	<b>31,357</b>

TABLE 7. Calculation of Output, Input and Value Added, 1964 and 1965

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1964	1965	1964	1965	1964	1965
<b>\$'000</b>						
<b>Output</b>						
1. Shipments and other revenue .....	40,482	42,753	2,558	2,536	43,040	45,289
Inventories—Goods of own manufacture:						
Add closing—Goods in process .....	446	430	...	...	446	430
Finished goods .....	5,495	6,305	...	...	5,495	6,305
Deduct opening—Goods in process .....	403	442	...	...	403	442
Finished goods .....	6,239	5,741	...	...	6,239	5,741
2. Net inventory change .....	(701)	552	...	...	(701)	552
3. Gross output (1 + 2) .....	39,781	43,305	2,558	2,536	42,339	45,841
<b>Input</b>						
4. Purchases of goods not of own manufacture .....	...	...	1,954	1,943	1,954	1,943
Inventories—Goods not of own manufacture:						
Add opening .....	...	...	134	102	134	102
Deduct closing .....	...	...	90	152	90	152
5. Cost of goods sold (not of own manufacture) .....	...	...	1,998	1,893	1,998	1,893
6. Materials, supplies, etc. ....	5,879	6,322	251	380	6,130	6,702
7. Fuel and electricity .....	5,578	5,888	...	...	5,578	5,888
8. Gross input (5 + 6 + 7) .....	11,457	12,210	2,249	2,273	13,706	14,483
Value added (3 - 8) .....	28,324	31,095	309	263	28,633	31,357



TABLE 8. Employment and Payroll, 1964 and 1965

Year and province	Employees										Salaries and wages				
	Production and related workers				Adminis- trative and office		Sales and distribution		Total		Production and related workers		Admin- istrative and office	Sales and distri- bution	Total
	Manufacturing		Other												
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Manufac- turing	Other			
	number										\$'000				
1964															
Newfoundland .....	x	x	x	—	x	x	x	x	x	x	x	x	x	x	x
Prince Edward Island .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia .....	159	—	—	—	16	1	—	—	175	1	546	—	93	—	639
New Brunswick .....	x	x	x	—	x	x	x	x	x	x	x	x	x	x	x
Quebec .....	573	—	3	—	75	11	15	2	666	13	2,309	20	478	106	2,913
Ontario .....	1,529	51	30	—	177	63	89	12	1,825	126	6,428	94	1,491	553	8,566
Manitoba .....	x	x	x	—	x	x	x	x	x	x	x	x	x	x	x
Saskatchewan .....	x	x	x	—	x	x	x	x	x	x	x	x	x	x	x
Alberta .....	236	4	—	—	35	8	14	—	285	12	941	—	249	96	1,286
British Columbia .....	x	x	x	—	x	x	x	x	x	x	x	x	x	x	x
Yukon and Northwest Terri- tories .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals .....	2,832	91	35	—	368	101	135	15	3,370	207	11,728	122	2,767	878	15,495
1965															
Newfoundland .....	x	—	—	—	x	x	—	—	x	x	x	—	x	—	x
Prince Edward Island .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia .....	151	—	—	—	15	2	—	—	166	2	575	—	93	—	668
New Brunswick .....	x	—	—	—	x	x	—	—	x	x	x	—	x	—	x
Quebec .....	557	—	3	—	68	7	11	2	639	9	2,322	25	447	97	2,892
Ontario .....	1,512	56	16	—	163	63	96	11	1,787	130	6,770	71	1,443	631	8,916
Manitoba .....	x	x	x	—	x	x	x	x	x	x	x	x	x	x	x
Saskatchewan .....	x	x	x	—	x	x	x	x	x	x	x	x	x	x	x
Alberta .....	249	3	—	—	38	5	16	2	303	10	1,038	—	272	111	1,421
British Columbia .....	x	x	—	—	x	x	x	x	x	x	x	—	x	x	x
Yukon and Northwest Terri- tories .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals .....	2,843	61	21	—	352	89	140	16	3,356	166	12,506	105	2,678	942	16,231

TABLE 9. Production and Related Workers, — Manufacturing Activity, 1964 and 1965

Month	1964		1965	
	Male	Female	Male	Female
	number			
Establishments reporting monthly detail (large establishments only):				
January .....	2,199	88	2,450	58
February .....	2,314	92	2,512	60
March .....	2,450	93	2,602	59
April .....	2,753	91	2,711	63
May .....	2,988	102	2,960	54
June .....	3,107	91	3,150	56
July .....	3,107	95	3,040	58
August .....	3,124	99	3,013	60
September .....	3,033	94	3,022	62
October .....	3,086	105	2,966	64
November .....	3,023	61	2,879	65
December .....	2,737	58	2,732	64
Averages .....	2,832	91	2,843	61
Establishments reporting annual averages (small establishments only) .....	...	...	...	...
Average for all establishments .....	2,832	91	2,843	61

TABLE 10. Inventories, 1965

Province	Manufacturing				Non-manufacturing	Total inventories
	Materials, supplies, etc.	Goods in process	Finished goods of own manufacture	Total	Products or materials purchased for resale	
book value \$'000						
Opening:						
Newfoundland .....	—	—	x	x	—	x
Prince Edward Island .....	—	—	—	—	—	—
Nova Scotia .....	32	20	204	256	4	260
New Brunswick .....	x	—	x	x	x	x
Quebec .....	270	113	1,145	1,528	2	1,530
Ontario .....	618	223	3,041	3,881	39	3,921
Manitoba .....	x	—	x	x	—	x
Saskatchewan .....	x	x	x	x	x	x
Alberta .....	236	32	594	862	2	864
British Columbia .....	x	x	x	x	x	x
Yukon and Northwest Territories .....	—	—	—	—	—	—
Totals .....	1,376	442	5,741	7,558	102	7,660
Closing:						
Newfoundland .....	—	—	x	x	—	x
Prince Edward Island .....	—	—	—	—	—	—
Nova Scotia .....	31	21	238	290	8	299
New Brunswick .....	x	x	x	x	x	x
Quebec .....	218	89	1,421	1,728	12	1,740
Ontario .....	607	219	2,865	3,691	67	3,758
Manitoba .....	x	—	x	x	—	x
Saskatchewan .....	x	x	x	x	x	x
Alberta .....	204	35	767	1,006	3	1,009
British Columbia .....	x	x	x	x	x	x
Yukon and Northwest Territories .....	—	—	—	—	—	—
Totals .....	1,294	430	6,306	8,030	152	8,181

TABLE 11. Purchased Fuel and Electricity Used, 1964 and 1965

Description	1964		1965	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Large establishments reporting commodity detail:				
Bituminous coal:				
(a) From Canadian mines .....	ton	9,740	15,492	206
(b) Imported .....	"	63,212	47,766	628
Sub-bituminous coal (from Alberta mines only) .....	"	—	—	—
Anthracite coal .....	"	2,803	2,500	45
Lignite coal .....	"	—	—	—
Coke .....	"	163	125	3
Gasoline (including gasoline used in cars and trucks) .....	Imp. gal.	802,913	827,089	278
Fuel oil including kerosene or coal oil .....	"	7,018,085	7,485,612	859
Wood .....	cord	9,382	4,920	45
Gas:				
(a) Liquefied petroleum gases .....	Imp. gal.	108,350	274,407	60
(b) Other manufactured gas .....	M cu. ft.	—	—	—
(c) Natural gas .....	"	5,852,890	5,704,994	2,763
Other fuel .....	...	7	...	1
Electricity purchased .....	kwh.	76,840,045	87,964,203	1,000
Steam purchased .....	...	—	...	—
2. Small establishments not reporting commodity detail:				
Estimate for fuel and electricity .....	...	—	...	—
3. All establishments:				
Total fuel and electricity used .....	...	5,578	...	5,888

TABLE 12. Materials and Supplies - Manufacturing Activity, 1964 and 1965

Description	Cost	
	1964	1965
	\$'000	
1. Raw materials and components used .....	3,045	3,138
2. Containers and other packaging materials and supplies used .....	529	678
3. Operating, maintenance and repair supplies used (excluding fuel) .....	2,213	2,405
4. Amount paid out to others for work done on materials owned by establishments .....	92	102
<b>Totals</b> .....	<b>5,879</b>	<b>6,322</b>

TABLE 13. Shipments of Goods of Own Manufacture, 1964 and 1965

Description	1964		1965	
	Quantity	Value	Quantity	Value
		\$'000		\$'000
<b>1. Products:</b>				
Clay:				
Fireclay.....	1	1	1	1
Other clay (includes bentonite) .....	...	591	...	577
Fireclay blocks and shapes .....	}	2	...	2
Firebrick .....				
Brick:				
Soft mud process:				
Face .....	M	59,755	}	70,263
Common .....	M	7,129		
Stiff mud process (wire cut):				
Face .....	M	314,960	323,138	17,111
Common .....	M	45,882	35,113	1,060
Dry press:				
Face .....	M	57,206	45,701	2,349
Common .....	M	3,977	30,690	1,866
Fancy or ornamental brick (including special shapes, embossed and enamelled brick) .....	...	2	...	2
Sewer brick .....	M	}	3,629	212
Paving brick .....	M			
Structural tiles:				
Hollow blocks (including fireproofing and loadbearing tile) .....	ton	92,617	1,880	}
Partition tile .....		-	-	
Floor tile (quarries) and glazed tile .....	sq. ft.	286,666	121	...
Drain tile .....	M	68,259	4,385	66,740
Sewer pipe .....	ft.	6,265,634	3,466	8,884,868
Flue linings .....	"	1,637,560	1,059	1,426,608
Pottery, glazed or unglazed (including coarse earthenware, sanitaryware, stone-ware, flower pots, and all pottery) .....	...	1,256	...	1,257
All other products .....	...	4,356 <sup>2</sup>	...	3,494
Value of containers .....	...	541	...	694
<b>2. Amount received in payment for work done on materials and products owned by others</b>	...	-	...	-
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above .....	...	(646)	...	(695)
Net adjustment for establishments receiving progress payments .....	...	-	...	-
<b>Total adjusted value of shipments and work done</b> .....	...	<b>40,482</b>	...	<b>42,753</b>

<sup>1</sup> Included with "Other clay (including bentonite)".

<sup>2</sup> Included in "All other products".

TABLE 14. Producers' Shipments of Clay Products,<sup>1</sup> by All Operators,<sup>1</sup> 1964 and 1965

Product		Sales or shipments			
		1964		1965	
		Quantity	Value	Quantity	Value
			\$		\$
Clay:					
Fireclay	ton	4,679	70,018	5,663	81,386
Other clay (includes bentonite)		...	1,120,951	...	919,946
Fireclay blocks and shapes		...	73,674	...	69,465
Firebrick	M	3,807	598,897	4,970	665,748
Brick:					
Soft mud process:					
Face	M	59,755	2,963,534	56,346	2,863,572
Common	M	7,129	120,882	13,917	528,283
Stiff mud process (wire cut):					
Face	M	315,341	16,211,360	324,191	17,141,888
Common	M	46,440	1,292,895	35,209	1,063,206
Dry press:					
Face	M	57,206	2,613,790	45,701	2,349,356
Common	M	3,977	121,380	30,689	1,865,951
Fancy or ornamental brick (including special shapes, embossed and enamelled brick)	M	19,797	1,412,737	3,281	307,084
Sewer brick	M	1,722	62,804	2,513	93,648
Paving brick	M	1,080	116,020	1,116	118,631
Structural tiles:					
Hollow blocks (including fireproofing and loadbearing tile)	ton	92,789	1,882,860	94,197	1,974,038
Partition tile		...	...	...	...
Floor tile (quarries) and glazed tile	sq. ft.	268,666	120,947	380,660	174,316
Drain tile	M	68,509	4,439,165	67,348	4,586,779
Sewer pipe		...	3,465,905	...	3,803,667
Flue linings		...	1,059,482	...	933,622
Pottery, glazed or unglazed (including coarse earthenware, sanitary-ware, stoneware, flower pots, and all pottery)		...	1,268,401	...	1,263,297
Other products		...	1,814,883	...	2,033,699
<b>Totals</b>		...	<b>40,830,585</b>	...	<b>42,837,582</b>

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

TABLE 15. Producers' Shipments of Clay Products,<sup>1</sup> by Provinces, 1963-65

	1963	1964	1965
	dollars		
Newfoundland	92,120	99,038	72,717
Nova Scotia	1,337,430	1,541,117	1,828,385
New Brunswick	623,166	697,974	667,704
Quebec	6,852,660	6,839,772	6,520,653
Ontario	21,819,687	23,723,512	25,130,709
Manitoba	594,072	519,726	482,620
Saskatchewan	1,044,721	1,336,383	1,380,916
Alberta	3,452,835	3,787,609	3,555,006
British Columbia	2,337,603	2,285,454	3,198,872
<b>Canada</b>	<b>38,154,294</b>	<b>40,830,585</b>	<b>42,837,582</b>

<sup>1</sup> See footnote, Table 14.

TABLE 16. Producers' Shipments of Clay Building Brick,<sup>1</sup> 1956-65

Year	Quantity	Value	Average value per M <sup>2</sup>	Year	Quantity	Value	Average value per M <sup>2</sup>
	M	\$			M	\$	
1956	510,101	24,005,749	47.06	1961	464,942	22,008,286	47.34
1957	473,728	22,590,169	47.69	1962	477,756	23,207,238	48.56
1958	547,643	27,482,319	50.18	1963	467,728	22,795,518	48.74
1959	550,961	27,606,003	50.11	1964	511,366	24,799,382	48.50
1960	465,171	22,944,457	49.43	1965	511,847	26,212,988	51.19

<sup>1</sup> See footnote, Table 14.

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

TABLE 17. Producers' Shipments of Clay Building Brick,<sup>1,2</sup> by Provinces, 1964 and 1965

	1964		1965	
	Quantity	Value	Quantity	Value
	M	\$	M	\$
Newfoundland .....	1,847	99,038	1,402	72,717
Nova Scotia .....	16,790	974,457	18,950	1,181,313
New Brunswick .....	7,903	458,803	8,761	501,417
Quebec .....	121,597	5,174,970	111,124	4,914,141
Ontario .....	313,318	15,487,596	321,222	16,469,295
Manitoba .....	—	—	—	—
Saskatchewan .....	11,587	533,748	9,024	504,677
Alberta .....	37,062	1,960,350	35,772	1,976,377
British Columbia .....	1,262	110,420	5,592	593,051
Canada .....	511,366	24,799,382	511,847	26,212,988
Average value per M .....	—	48.50	—	51.19

<sup>1</sup> See footnote, Table 14.

<sup>2</sup> Includes fancy and sewer brick.

TABLE 18. Producers' Shipments of Drain Tile, Sewer Pipe and Flue Linings Made from Domestic Clays,<sup>1</sup> 1956-65

Year	Value	Year	Value
	\$		\$
1956 .....	6,948,189	1961 .....	8,167,396
1957 .....	6,706,053	1962 .....	7,879,406
1958 .....	8,414,967	1963 .....	8,513,627
1959 .....	8,345,619	1964 .....	8,964,552
1960 .....	7,877,107	1965 .....	9,324,068

<sup>1</sup> See footnote, Table 14.

TABLE 19. Producers' Shipments of Drain Tile, Sewer Pipe and Flue Linings Made from Domestic Clays,<sup>1</sup> by Provinces, 1964 and 1965

Province	1964	1965
	dollars	dollars
Newfoundland .....	—	—
Nova Scotia .....	379,263	413,147
New Brunswick .....	43,680	71,965
Quebec .....	653,534	741,910
Ontario .....	5,286,258	5,207,787
Saskatchewan .....	448,754	571,249
Alberta .....	1,000,748	908,867
British Columbia .....	1,152,315	1,409,143
Canada .....	8,964,552	9,324,068

<sup>1</sup> See footnote, Table 14.

TABLE 20. Producers' Shipments of Fireclay, Fireclay Blocks and Shapes and Firebrick Made from Domestic Clays,<sup>1</sup> 1956-65

	Fireclay		Fireclay blocks and shapes	Firebrick	
	Short tons	Value	Value	Quantity	Value
		dollars		M	\$
1956 .....	8,448	64,588	471,083	4,258	430,922
1957 .....	5,600	44,143	376,492	5,411	537,067
1958 .....	8,190	44,737	313,164	2,806	325,653
1959 .....	10,034	57,764	348,912	3,595	422,300
1960 .....	11,711	59,593	263,010	4,397	553,196
1961 .....	10,236	62,332	301,945	3,872	476,327
1962 .....	11,420	62,112	56,742	4,013	514,260
1963 .....	4,488	64,795	47,621	4,775	636,112
1964 .....	4,679	70,018	73,674	3,807	598,897
1965 .....	3,340	38,912	69,465	3,150	412,848

<sup>1</sup> See footnote, Table 14.



TABLE 21. Producers' Shipments of Fireclay Blocks and Shapes and Firebrick Made from Domestic Clays,<sup>1</sup> by Provinces, 1965

Province	Fireclay		Fireclay blocks and shapes	Firebrick	
	Short tons	Value	Value	Quantity	Value
		dollars		M	\$
Nova Scotia .....	—	—	—	—	—
Ontario .....	—	—	—	—	—
Saskatchewan .....	2,323	42,474	—	1,819	252,900
Alberta .....	—	—	—	—	—
British Columbia .....	3,340	38,912	69,465	3,150	412,848
Canada .....	5,663	81,386	69,465	4,969	665,748

<sup>1</sup> See footnote, Table 14.

TABLE 22. Producers' Shipments of Pottery Made from Domestic Clays,<sup>1</sup> 1956-65

Year	Value	Year	Value
	\$		\$
1956 .....	610,614	1961 .....	811,651
1957 .....	633,252	1962 .....	965,566
1958 .....	710,292	1963 .....	1,082,824
1959 .....	700,434	1964 .....	1,268,401
1960 .....	803,331	1965 .....	1,263,297

<sup>1</sup> See footnote, Table 14.

TABLE 23. Producers' Shipments of Pottery Made from Domestic Clays,<sup>1</sup> by Provinces, 1964 and 1965

Province	1964	1965
	dollars	
Nova Scotia .....	7,000	7,100
New Brunswick .....	169,031	—
Quebec .....	—	—
Ontario .....	967,307	1,064,947
Alberta .....	97,868	166,356
British Columbia .....	27,195	24,894
Canada .....	1,268,401	1,263,297

<sup>1</sup> See footnote, Table 14.

TABLE 24. Producers' Shipments of Structural Tile Made from Domestic Clays,<sup>1</sup> 1956-65

Year	Hollow blocks <sup>2</sup>		Roofing tile		Floor tile (quarries) <sup>3</sup>	
	Short tons	Value	Number	Value	Square feet	Value
		\$		\$		\$
1956 .....	206,348	3,863,522	—	—	238,817	98,280
1957 .....	183,558	3,575,748	—	—	153,081	67,092
1958 .....	159,114	3,118,197	—	—	174,081	70,896
1959 .....	176,585	3,475,791	—	—	186,118	84,075
1960 .....	158,885	3,165,414	—	—	178,661	85,035
1961 .....	136,197	2,778,091	—	—	238,115	120,213
1962 .....	111,228	2,292,324	—	—	198,794	99,397
1963 .....	99,322	2,024,309	—	—	191,837	82,775
1964 .....	92,789	1,882,860	—	—	268,666	120,947
1965 .....	94,197	1,974,038	—	—	380,661	174,316

<sup>1</sup> See footnote, Table 14.

<sup>2</sup> Includes fireproofing, load-bearing and partition tile.

<sup>3</sup> Includes value of glazed floor and wall tile.

TABLE 25. Producers' Shipments of Structural Tile Made from Domestic Clays,<sup>1</sup> by Provinces, 1963

Province	Hollow blocks <sup>2</sup>		Floor tile (quarries) <sup>3</sup>	
	Short tons	Value	Square feet	Value
		\$		\$
Nova Scotia .....	11,341	226,825	—	—
New Brunswick .....	2,460	44,272	—	—
Quebec .....	34,026	709,900	—	—
Ontario .....	42,871	909,728	380,660	174,316
Saskatchewan .....	164	2,284	—	—
Alberta .....	2,443	57,730	—	—
British Columbia .....	892	23,299	—	—
Canada .....	94,197	1,974,038	380,660	174,316

<sup>1</sup> Commodity data; includes shipments by firms classified to other industries.

<sup>2</sup> Includes fireproofing and load-bearing.

<sup>3</sup> Includes value of glazed floor and wall tile.

Note: See footnote to Table 14.

TABLE 26. Available Data on the Consumption<sup>1</sup> of Bentonite in Canada, 1963 and 1964

	1963	1964
	tons	
Well drilling .....	33,932	64,379
Iron and steel foundries .....	17,642	24,088
Pelletizing iron-ore concentrates .....	37,575	67,225
Petroleum refining .....	1,790	1,343
Paper .....	296	415
Miscellaneous chemicals .....	291	1,286
Miscellaneous non-metallic products .....	1,986	2,452
Ceramic products .....	..	507
Totals, accounted for .....	93,512	161,695

<sup>1</sup> Includes Fuller's earth.

TABLE 27. Available Data on the Consumption of Fuller's Earth in Canada, 1963 and 1964

	1963	1964
	tons	
(a) By industries:		
Soaps and cleaning preparations .....	72	84
Petroleum refining .....	966	881
Slaughtering and meat-packing .....	1	1
Vegetable oil mills .....	1	1
Starch and glucose manufacturing .....	—	—
Sugar refineries .....	2,317	2,242
Totals .....	3,355	3,207
(b) By provinces:		
Nova Scotia .....	23	63
Quebec .....	2,275	2,128
Ontario .....	171	125
Manitoba .....	17	10
Saskatchewan .....	9	19
Alberta .....	142	143
British Columbia .....	718	719
Canada .....	3,355	3,207

<sup>1</sup> Not listed.

TABLE 28. Available Data on the Consumption of China-clay (kaolin) in Canada, 1962-64

Industry	1962	1963	1964
		tons	
Paper and paper products .....	84,079	93,625	103,379
Rubber and linoleum .....	12,247	11,805	12,305
Paint and varnish .....	2,306	2,131	1,980
Ceramics products .....	13,906	12,515	12,715
Other products <sup>1</sup> .....	8,762	10,939	11,502
Totals accounted for .....	121,300	130,015	141,881

<sup>1</sup> Includes chemicals, cosmetics and other miscellaneous products.

TABLE 29. Clays and Earths<sup>1</sup> Used in the Rubber Goods Industry, 1960-64

Year	Tons	Value
		\$
1960 .....	12,708	460,329
1961 .....	12,907	472,699
1962 .....	14,915	531,568
1963 .....	16,510	622,084
1964 .....	16,478	600,000

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

TABLE 30. Fireclay and Cupola Blocks Used in the Manufacture of Iron and Steel and their Products, 1960-65

Year	Cost at works
	\$
1960 .....	13,877,000
1961 .....	13,981,000
1962 .....	16,411,000
1963 .....	17,378,624
1964 .....	17,612,553
1965 .....	19,565,749

TABLE 31. Filtering Earths Used in the Sugar Refining Industry, 1961-65

Year	Sugar refineries	
	Pounds	Value
		\$
1961 .....	4,178,343	188,703
1962 .....	4,186,747	188,850
1963 .....	4,634,520	219,089
1964 .....	4,485,550	221,630
1965 .....	4,649,582	213,566

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

TABLE 32. Imports and Exports of Clay and Clay Products, 1964 and 1965

Item	1964		1965	
	Quantity	Value	Quantity	Value
		\$		\$
<b>Imports</b>				
China clay, ground or unground..... cwt.	3,394,872	3,572,757	3,879,326	4,163,758
Fireclay, ground or unground..... "	1,463,426	555,150	1,335,386	531,734
Clays, ground or unground n.e.s..... "	1,827,414	1,115,393	1,733,358	1,068,779
Crog for refractory materials..... ton	19,180	619,146	20,457	670,370
Brick, building, n.o.p..... M	21,543	1,244,378	21,764	1,289,068
Brick, building, glazed..... M	3,290	299,939	6,346	506,666
Brick, fire, and similar shapes n.e.s..... M	36,074	9,561,803	37,585	10,332,047
Building blocks, building tile..... "	...	770,478	...	623,615
Tiles, floor and wall, earthenware..... sq. ft.	18,560,644	3,894,677	22,901,362	4,743,292
Tableware of china, porcelain, ceramic, n.e.s. including semi-porcelain....	...	17,884,893	...	18,697,235
Artificial teeth, not mounted..... "	...	1,439,404	...	1,129,518
Insulators, electric, porcelain, and parts..... "	...	3,020,123	...	3,325,492
Bentonite..... cwt.	2,288,928	1,055,405	3,643,240	1,587,108
China clay, ground or unground..... "	3,394,872	3,572,757	3,879,326	4,163,758
Fire clay, ground or unground..... "	1,463,426	555,150	1,335,386	531,734
Clays and earths, activated..... lb.	5,705,527	418,643	6,296,652	525,837
Compound catalysts..... "	10,709,742	5,480,376	12,903,122	9,412,239
Stone, clay and concrete end products n.e.s..... "	...	143,198	...	111,463
Ceramic tiles, floor and wall under 2½"..... sq. ft.	9,123,212	2,111,408	11,103,491	2,457,179
Ceramic tiles, floor and wall 2½" and over..... "	9,437,432	1,783,269	11,797,871	2,286,113
Clay bricks, blocks and tiles, n.e.s..... "	...	208,134	...	161,116
<b>Exports</b>				
Building brick, clay..... M	8,106	470,773	11,713	729,283
Clay, ground or unground..... cwt.	21,555	34,198	26,387	50,696
High tension insulators..... "	...	312,993	...	817,680
Stone, clay and concrete end products, n.e.s..... "	...	9,590	...	8,717
Firebrick and similar shapes..... "	...	4,700,323	...	5,438,033
Clay bricks, blocks and tiles, n.e.s..... "	...	351,917	...	260,661

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

List of Establishments classified to this Industry, 1965

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

Name	Location
<b>Newfoundland:</b>	
Pelly, C. & M. Limited .....	Milton
<b>Nova Scotia:</b>	
Lorenzen Pottery .....	Lantz
Shaw, L.E. Limited .....	Lantz
Shaw, L.E. Limited .....	New Glasgow
Standard Clay Products Limited .....	New Glasgow
<b>New Brunswick:</b>	
Shaw, L.E. Limited .....	Chipman
<b>Quebec:</b>	
Aggrite (1962) Inc. ....	92 Industrial Blvd., Laprairie
Brique Beauport Brick Inc. ....	Avenue Ruel, Villeneuve
Brique de Scott Ltée, La .....	Scott Junction
Brique Victoria Ltée .....	R.R. No. 1 Chemin Warwick, Victoriaville
Couture, Émilien .....	Deschailions
Dentat Construction Materials Ltd. ....	Delson and Laprairie
East Angus Brick & Tile Inc. ....	East Angus
Montreal Terra Cotta Limited .....	Deschailions
Montreal Terra Cotta Limited .....	108-5e Avenue, Pointe-Claire
St. Lawrence Brick Co. Limited .....	Laprairie

List of Establishments classified to this Industry, 1965 - Concluded

Name	Location
<b>Ontario:</b>	
Bauman, N.S. Ltd.	Wallenstein
Beaverton Brick & Tile	Beaverton
Blue Mountain Pottery Ltd.	99 Pine St., Collingwood
Booth Brick Co. Ltd., (Plants at Weston & New Toronto)	320 Horner Ave., Toronto 14
Brampton Brick Limited	514 Main St. N., Brampton
Brantford Clay Products Ltd.	New Port Rd., Brantford
Broadwell, B. & Son	Kingsville
Bruce Brick and Tile Co.	Walkerton
Canada Brick (Streetsville) Ltd.	Streetsville
Canadian Pressed Brick Co. Ltd., (The)	30 Kimberly Dr., Hamilton
Comber Tile Yard Ltd.	Comber
Continental Brick & Tile Co. Ltd.	Shallow Lake
Coultis, Geo. & Son Ltd.	Thedford
Deller's Tile Limited	Brownsville
Diamond Clay Products Limited	Burlington
Dochart Brick & Tile Co. Ltd.	Arnprior
Domtar Construction Materials Ltd.	Cheltenham
Domtar Construction Materials Ltd.	Cooksville
Domtar Construction Materials Ltd.	South Gloucester
Dresden Tile Yard Ltd.	Dresden
Elliott's Brickyard	Sault Ste. Marie
Emig Clay Products Limited	202 Stanley Ave., Chatham
Fletcher Tile Ltd.	Fletcher
Foster Pottery Co. Limited, The	45 Frid St., Hamilton
Gomoll Brick & Tile Works	Powassan
Grimsby Tile Limited	Durham Rd., Grimsby
Hamilton Brick Ltd.	215 Kensington Ave. S., Hamilton
Henderson, J. Homer	R.R. 4, Atwood
Hill Tile Ltd.	Coatsworth
Howlett, Fred W. & Sons Ltd.	4235 Main St., Petrolia
Huntsville Brick Works	R.R. 1, Huntsville
Janes, D.A. & Son Ltd.	Mt. Brydges
Kitchener Brick Co. Ltd.	60 Helman St., Kitchener
Lindsay, Earl & Sons Limited	Wallaceburg
Martin, Amos C. Ltd.	Parkhill
Martin, Amos C. Ltd.	Wallenstein
McFarlane, W.J. & Sons Ltd.	Forest
McFarlane, F.B. Ltd.	Streetsville
Milton Brick Co. Limited	Milton
Napanee Brick & Tile Works Ltd.	Napanee
Natco Clay Products Limited	360 Unsworth Ave., Burlington
National Sewer Pipe Ltd.	Clarkson
Norwich Brick & Tile Ltd.	Norwich
Paisley Brick & Tile Co. Ltd.	Paisley
Parkhill Brick Co. Ltd.	Parkhill
Royal Canadian Art Pottery	822 Rennie St., Hamilton
Rydall Brick & Tile Ltd.	R.R. 2, London
St. Catharines Brick & Tile Co. Ltd.	70 Herick Ave., St. Catharines
Superior Brick & Tile Co. Limited	Fort William
United Ceramics Ltd.	550 Bayview Ave., Toronto
Zavi, Jarco	94 Main St., Brighton
<b>Manitoba:</b>	
Echo Light Aggregate Ltd.	1525 Dugald Rd., St. Boniface
Pembina Mountain Clays Ltd.	945 Logan Ave., Winnipeg
<b>Saskatchewan:</b>	
Estevan Clay Products	Estevan
Western Clay Products (Div. of Medicine Hat Brick & Tile Co. Ltd.)	Regina
<b>Alberta:</b>	
Alberta Potteries Ltd.	Redcliff
Design Associates	120 - 12th Ave. S.W., Calgary
Medicine Hat Brick & Tile Company Ltd.	Medicine Hat
Medicine Hat Brick & Tile Co. Ltd. (Redcliff Pressed Brick Div.)	Redcliff
Medicine Hat Brick & Tile Co. Ltd. (Redcliff Premier Brick Div.)	Redcliff
Northwest Ceramics Ltd.	Cannell
Sunburst Ceramics Ltd.	Medicine Hat
<b>British Columbia:</b>	
Clayburn-Harblison Ltd.	1690 W. Broadway, Vancouver 9
Haney Brick & Tile Ltd.	22515 River Rd., Haney
Haney Pottery	23948 Dewdney Truck Rd., Haney
Mainland Clay Products Limited (Barnet)	8699 Angus Dr., Vancouver 14



# CONCEPTS AND DEFINITIONS

## Census of Manufactures

### General

The Census of Manufactures is an annual mail survey covering Canada's Manufacturing Industries. It is based on the Standard Classification of Industries and full details concerning the system may be found in the Standard Industrial Classification manual, Catalogue No. 12-501 which is available from the Queen's Printer or the Dominion Bureau of Statistics. In summary, the Classification as it relates to the manufacturing industries provides for a breakdown into 140 industries arranged in 20 major industry groups. Of the 140 (3 digit) industries, 18 are further broken down into 55 (4 digit) sub classes. At the Canada level, principal statistics are collected and compiled for 176 separate industries. They cannot all be published separately by province, however, because of the confidential nature of the data in certain provinces.

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

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

The results of the Census are presented in some 135 publications. In addition to these annual industry publications there are annual summary reports for Canada and the provinces and special reports giving principal statistics by detailed geographic areas, by type of ownership and size of establishment. A special annual report covering the shipments of all manufactured commodities arranged in alphabetical order is also published.

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

### Establishment

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

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

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

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

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

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

#### **Head Offices and Auxiliary Units**

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

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

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

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

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

#### **Employees**

##### **(a) Production and related workers — Manufacturing activities**

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

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

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



### (c) Administrative and office employees

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

### (d) Sales and distribution workers

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

### (e) Total Employees

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

### Working Owners or Partners

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

### Salaries and Wages

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

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

### Fuel and Electricity

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

### Materials and Supplies

#### (a) Manufacturing activities

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

#### (b) Non-manufacturing activities

##### 1. Purchases for re-sale as such

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

##### 2. Other materials and supplies used

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

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

## **Shipments**

### **(a) General**

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

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

### **(b) Shipments of goods of own manufacture**

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

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

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

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

### **(c) Shipments of goods not of own manufacture**

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

### **(d) Other revenue**

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

## **Inventories**

### **(a) Manufacturing activities**

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



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

**(b) Non-manufacturing activities**

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

**Value Added**

**(a) By manufacturing activities**

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

**(b) By non-manufacturing activities**

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

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

**(c) By Total activities**

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



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