

CATALOGUE No.

44-215

ANNUAL

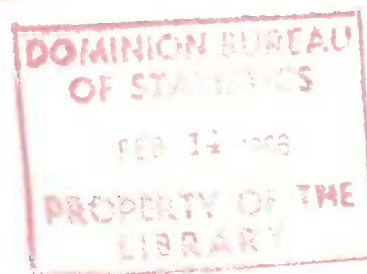


CLAY PRODUCTS MANUFACTURERS

(From Domestic Clays)

1963

ANNUAL CENSUS
OF MANUFACTURES



Published by Authority of
The Minister of Trade and Commerce

DOMINION BUREAU OF STATISTICS
Industry Division

February 1966
6521-846

Price: 50 cents

PUBLICATIONS

In addition to the report, on this industry, the DBS publishes annual statistics on a number of related industries and current statistics on the more important commodities. Copies of reports provided in the following list are available from the Information and Public Relations Division of the DBS, Ottawa or from the Queen's Printer, Hull, P.Q.

Catalogue number	Title	Periodicity	Price	
			Per copy	Per year
44-202	Abrasives Manufacturers	A	.50	.50
44-203	Asbestos Products Manufacturers	A	.25	.25
44-204	Cement Manufacturers	A	.50	.50
44-205	Concrete Products Manufacturers	A	.50	.50
44-207	Glass and Glass Products Manufacturers	A	.50	.50
44-209	Lime Manufacturers	A	.25	.25
44-210	Other Non-metallic Mineral Products Industries	A	.50	.50
44-211	Ready-Mix Concrete Manufacturers	A	.50	.50
44-212	Mineral Wool Manufacturers	A	.50	.50
44-213	Stone Products Manufacturers	A	.50	.50
44-214	Refractories Manufacturers	A	.50	.50
44-215	Clay Products Manufacturers (from Domestic Clays)	A	.50	.50
44-216	Clay Products Manufacturers (from Imported Clays)	A	.50	.50
44-217	Gypsum Products Manufacturers	A	.50	.50
<hr/>				
26-001	Asbestos	M	.10	\$1.00
26-007	Production of Canada's Leading Minerals	M	.10	1.00
26-009	Salt	M	.10	1.00
26-205	Asbestos Mining Industry	A	.50	.50
26-214	Salt Industry	A	.50	.50
26-217	Stone Quarrying Industry	A	.50	.50
26-221	Gypsum Mining Industry	A	.25	.25
31-001	Inventories, Shipments and Orders in Manufacturing Industries	M	.30	4.00
31-201	General Review of the Manufacturing Industries of Canada	A	\$2.00	\$2.00
44-001	Cement	M	.10	1.00
44-002	Concrete Products	M	.10	1.00
44-003	Gypsum Products	M	.10	1.00
44-004	Mineral Wool	M	.10	1.00
44-005	Products Made from Canadian Clays	M	.10	1.00
47-001	Asphalt and Vinyl-Asbestos Floor Tile	M	.10	1.00
65-004	Exports by Commodities	M	.75	7.50
65-007	Imports by Commodities	M	.75	7.50

A — Annual

M — Monthly

Remittances should be in the form of cheque or money order, made payable to the Receiver General of Canada and forwarded to the Information and Public Relations Division, Ottawa or to the Queen's Printer, Hull, P.Q.

CLAY PRODUCTS MANUFACTURERS (From Domestic Clays)

1963

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

Data presented in this report under the heading of Clay Products Manufacturers (from Imported Clays) reflect implementation of the revised Standard Industrial Classification (SIC) and the New Establishment Concept which are being used by the Dominion Bureau of Statistics in its industry statistics compilations—see items "Standard Industrial Classification" and "Establishment" in the Explanatory Notes section of this report.

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.

The combination of improvements in internal procedures and the introduction of the final stage of the Establishment Concept have produced changes which, for some industries, have required adjustments to industry statistical data. (See Explanatory Notes Section for further details.)

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 A. Principal Statistics classified by Province, 1962 and 1963

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		Total employees		Total 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													
Newfoundland	1	153	344	505	352	239	1, 911	1, 330	x	x	175	598	1, 305
Prince Edward Island	—												
Nova Scotia	5												
New Brunswick	3	97	211	239	146	141	851	614	x	x	111	291	604
Quebec	12	634	1, 380	2, 574	1, 123	968	7, 291	5, 542	—	—	745	3, 144	5, 520
Ontario	55	1, 597	3, 618	5, 919	3, 135	2, 937	20, 123	14, 373	x	x	1, 885	7, 473	14, 447
Manitoba	3	176	343	613	226	468	1, 834	1, 129	—	—	211	821	1, 068
Saskatchewan	2												
Alberta	7	305	672	1, 223	160	577	2, 961	2, 357	—	—	374	1, 578	2, 347
British Columbia	5	154	304	654	263	315	2, 082	1, 426	—	—	192	889	1, 456
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	93	3, 116	6, 872	11, 728	5, 406	5, 645	37, 054	26, 772	7	15	3, 693	14, 794	26, 746
1963													
Newfoundland	1	x	x	x	x	x	x	x	—	—	x	x	x
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	4	135	287	448	294	255	1, 371	853	x	x	153	532	902
New Brunswick	2	x	x	x	x	x	x	x	—	—	x	x	x
Quebec	11	564	1, 237	2, 255	1, 022	771	6, 587	4, 829	x	x	668	2, 828	4, 798
Ontario	54	1, 544	3, 408	5, 754	3, 274	2, 518	22, 063	16, 098	x	x	1, 853	7, 483	16, 403
Manitoba	5	42	84	132	74	137	618	414	—	—	56	204	412
Saskatchewan	2	x	x	x	x	x	x	x	—	—	x	x	x
Alberta	7	277	552	1, 090	154	489	2, 851	2, 218	—	—	337	1, 431	2, 206
British Columbia	4	x	x	x	x	x	x	x	—	—	x	x	x
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	89	2, 930	6, 329	11, 056	5, 406	4, 966	37, 587	27, 193	7	18	3, 519	14, 319	27, 572

TABLE 1B. Principal Statistics classified by Size Groups based on Shipments of Goods of Own Manufacture, 1962 and 1963

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		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Under \$10,000	8	10	14	15	7	4	51	39	5	10	11	16	40
\$ 10,000 to \$ 24,999	5	24	48	56	14	13	76	62	—	—	29	74	73
25,000 " 49,999	12	74	160	203	116	54	419	316	1	1	82	246	313
50,000 " 99,999	9	85	187	245	97	41	601	444	1	4	97	292	442
100,000 " 199,999	18	372	811	1,110	480	246	2,740	2,086	—	—	426	1,350	2,127
200,000 " 499,999	22	690	1,472	2,329	1,237	970	7,238	4,940	—	—	806	2,975	4,864
500,000 " 999,999	8	374	860	1,441	782	1,094	5,038	3,489	—	—	430	1,755	3,490
1,000,000 " 4,999,999	11	1,487	3,319	6,327	2,673	3,223	20,892	15,395	—	—	1,775	7,868	15,415
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	37	217	(17)
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													
Under \$10,000	3	2	3	4	3	2	15	11	3	6	2	4	11
\$ 10,000 to \$ 24,999	5	19	44	60	34	7	76	52	2	4	24	80	111
25,000 " 49,999	9	50	106	124	54	34	302	255	—	—	60	153	254
50,000 " 99,999	15	130	314	435	212	106	1,045	742	1	3	150	526	741
100,000 " 199,999	14	292	633	858	354	196	2,130	1,632	1	5	334	1,103	1,653
200,000 " 499,999	25	798	1,663	2,696	1,488	1,086	8,286	5,900	—	—	973	3,600	6,163
500,000 " 999,999	9	395	868	1,448	938	894	6,298	4,396	—	—	457	1,636	4,426
1,000,000 " 4,999,999	9	1,244	2,698	5,430	2,323	2,642	19,434	14,206	—	—	1,487	6,851	14,230
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	32	167	(18)
Totals	89	2,930	6,329	11,056	5,406	4,966	37,587	27,193	7	18	3,519	14,319	27,572

TABLE 1C. Principal Statistics classified by Size Groups based on Manufacturing Value Added, 1962 and 1963

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		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Under \$10,000	10	14	18	22	14	12	89	55	5	10	15	23	56
\$ 10,000 to \$ 24,999	9	44	94	129	87	57	212	154	1	1	54	170	161
25,000 " 49,999	11	96	199	248	83	31	553	427	—	—	106	291	424
50,000 " 99,999	9	120	278	356	192	46	898	653	—	—	136	425	651
100,000 " 199,999	22	542	1,148	1,737	757	550	4,413	3,180	1	4	622	2,143	3,213
200,000 " 499,999	20	772	1,702	2,732	1,461	1,446	9,233	6,370	—	—	899	3,440	6,308
500,000 " 999,999	6	469	1,098	1,918	1,081	980	6,672	4,739	—	—	569	2,479	4,703
1,000,000 " 4,999,999	6	1,059	2,335	4,586	1,732	2,522	14,983	11,194	—	—	1,255	5,606	11,247
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	37	217	(17)
Totals	93	3,118	6,872	11,728	5,406	5,645	37,054	26,772	7	15	3,693	14,794	26,746
1963													
Under \$10,000	5	11	27	40	26	7	43	25	3	6	16	60	83
\$ 10,000 to \$ 24,999	6	19	39	46	32	16	139	94	2	4	23	62	95
25,000 " 49,999	13	92	205	267	127	101	638	460	1	3	108	326	457
50,000 " 99,999	13	158	378	537	245	94	1,214	896	1	5	179	630	901
100,000 " 199,999	19	496	1,006	1,475	734	453	4,019	2,851	—	—	572	1,934	2,877
200,000 " 499,999	20	759	1,631	2,705	1,494	1,354	8,904	6,284	—	—	928	3,592	6,578
500,000 " 999,999	6	343	815	1,449	791	717	5,801	4,131	—	—	407	1,882	4,133
1,000,000 " 4,999,999	7	1,052	2,228	4,537	1,958	2,224	16,829	12,453	—	—	1,254	5,667	12,467
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	32	167	(18)
Totals	89	2,930	6,329	11,056	5,406	4,966	37,587	27,193	7	18	3,519	14,319	27,572

TABLE 1 D. Principal Statistics classified by Size Groups based on Total Value Added, 1962 and 1963

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		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Under \$10,000	10	14	18	22	14	12	89	55	5	10	15	23	56
\$ 10,000 to \$ 24,999	8	32	67	97	79	53	199	140	1	1	39	122	136
25,000 " 49,999	12	108	226	280	90	35	567	441	—	—	121	339	450
50,000 " 99,999	9	120	278	356	192	46	898	653	—	—	136	425	651
100,000 " 199,999	23	571	1,197	1,824	799	673	4,843	3,420	1	4	656	2,266	3,388
200,000 " 499,999	19	743	1,653	2,644	1,418	1,323	8,804	6,130	—	—	865	3,316	6,132
500,000 " 999,999	6	469	1,098	1,918	1,081	980	6,672	4,739	—	—	569	2,479	4,703
1,000,000 " 4,999,999	6	1,059	2,335	4,586	1,732	2,522	14,983	11,194	—	—	1,255	5,606	11,247
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	37	217	(17)
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													
Under \$10,000	4	3	5	6	4	3	27	21	3	6	3	6	20
\$ 10,000 to \$ 24,999	6	19	39	46	32	16	139	94	2	4	23	62	95
25,000 " 49,999	13	92	205	267	127	101	638	480	1	3	108	326	457
50,000 " 99,999	14	166	401	571	267	98	1,230	900	1	5	192	685	963
100,000 " 199,999	19	496	1,006	1,475	734	453	4,019	2,851	—	—	572	1,934	2,877
200,000 " 499,999	19	692	1,481	2,481	1,337	1,180	8,102	5,788	—	—	851	3,323	6,032
500,000 " 999,999	7	410	965	1,673	947	891	6,803	4,627	—	—	484	2,151	4,678
1,000,000 " 4,999,999	7	1,052	2,228	4,537	1,958	2,224	16,829	12,453	—	—	1,254	5,667	12,467
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	32	167	(18)
Totals	89	2,930	6,329	11,056	5,406	4,966	37,587	27,193	7	18	3,519	14,319	27,572

TABLE 1 E. Principal Statistics classified by Size Groups based on Total Employed, 1962 and 1963

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		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Under 5 employed	14	17	25	29	41	20	171	114	5	10	19	32	114
5- 14 employed	20	173	403	509	233	137	1,267	944	1	1	194	596	939
15- 49 "	41	1,064	2,326	3,664	1,885	1,774	11,390	7,998	1	4	1,239	4,637	7,985
50- 99 "	10	570	1,277	1,993	1,184	943	6,880	4,732	—	—	683	2,618	4,691
100-199 "	8	1,292	2,841	5,532	2,062	2,771	17,345	12,984	—	—	1,521	6,695	13,034
200-499 "													
500 employed and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	37	217	(17)
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													
Under 5 employed	8	15	30	39	23	13	118	85	4	7	15	39	86
5- 14 employed	24	186	436	584	280	135	1,320	975	2	6	221	723	1,032
15- 49 "	40	1,055	2,228	3,633	2,092	1,585	12,531	8,811	1	5	1,241	4,745	8,869
50- 99 "	9	500	1,122	1,738	886	879	5,729	4,091	—	—	622	2,377	4,362
100-199 "	8	1,174	2,512	5,061	2,124	2,353	17,888	13,231	—	—	1,388	6,268	13,241
200-499 "													
500 employed and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	32	167	(18)
Totals	89	2,930	6,329	11,056	5,406	4,966	37,587	27,193	7	18	3,519	14,319	27,572

TABLE 1 F. Principal Statistics classified by Type of Organization, 1962 and 1963

Type of organization	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		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000		\$'000					\$'000		\$'000	
1962													
Individual ownerships	9	46	114	143	65	18	362	279	6	13	47	146	279
Partnerships	7	88	195	275	130	65	972	733	1	2	98	336	732
Incorporated companies	77	2,982	6,562	11,309	5,210	5,562	35,720	25,760	...	...	3,511	14,094	25,752
Cooperatives .....	—	—	—	—	—	—	—	—	...	...	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	37	217	(17)
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													
Individual ownerships	8	38	91	127	53	16	307	238	6	17	39	130	239
Partnerships	6	92	190	289	144	76	955	806	1	1	103	355	805
Incorporated companies	75	2,800	6,047	10,640	5,208	4,874	36,325	26,149	...	...	3,345	13,667	26,546
Cooperatives .....	—	—	—	—	—	—	—	—	...	...	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	32	167	(18)
Totals	89	2,930	6,329	11,056	5,406	4,966	37,587	27,193	7	18	3,519	14,319	27,572

TABLE 2. Industry Output, input and Value Added, 1962 and 1963

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1962	1963	1962	1963	1962	1963
\$'000						
Output						
1. Shipments and other revenue	37,054	37,587	1,209	1,656	38,263	39,243
Inventories - Goods of own manufacture:						
Add closing - Goods in process	495	399	...	...	495	399
Finished goods	6,237	6,250	...	...	6,237	6,250
Less opening - Goods in process	550	421	...	...	550	421
Finished goods	5,413	6,249	...	...	5,413	6,249
2. Net inventory change	769	(21)	...	...	769	(21)
3. Gross output (1 + 2)	37,823	37,566	1,209	1,656	39,032	39,222
Input						
4. Purchases of goods not of own manufacture .....	...	...	952	1,052	952	1,052
Inventories - Goods not of own manufacture:						
Add opening .....	...	...	120	106	120	106
Less closing .....	...	...	107	134	107	134
5. Cost of goods sold (not of own manufacture) .....	...	...	965	1,024	965	1,024
6. Materials, supplies, components and semi-processed goods	5,645	4,966	270	252	5,915	5,218
7. Fuel and electricity	5,406	5,406	...	...	5,406	5,406
8. Gross input (5 + 6 + 7)	11,051	10,372	1,235	1,276	12,286	11,648
Census value added (3 - 8)	26,772	27,193	(26)	380	26,746	27,572

TABLE 3. Employment and Payroll, 1962 and 1963

Year and province	Employees										Salaries and wages					
	Production and related workers				Adminis- trative and office		Sales and distribution		Total employees		Production and related workers		Admin- istrative and office	Sales and distrib- ution	Total salaries and wages	
	Manufacturing		Other													
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Manufacturing	Other				
	number										\$'000					
1962																
Newfoundland	}															
Prince Edward Island		153	—	1	—	20	1	—	—	174	1	505	2	91	—	598
Nova Scotia																
New Brunswick		57	40	—	—	10	4	—	—	67	44	239	—	52	—	291
Quebec		634	—	5	—	84	16	6	—	729	16	2,574	19	522	29	3,144
Ontario		1,551	46	1	—	160	48	74 ^r	5	1,786	99	5,919	2	1,099	453	7,473
Manitoba	}															
Saskatchewan		174	2	—	—	25	3	7	—	206	5	613	—	171	37	821
Alberta		301	4	2	—	35	12	20	—	358	16	1,223	12	236	107	1,578
British Columbia		153	1	—	—	25	6	7	—	185	7	654	—	192	43	889
Yukon and Northwest Terri- tories		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals		3,023	93	9	—	359	90	114	5	3,505	188	11,728	35	2,362	669	14,794
1963																
Newfoundland		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Prince Edward Island		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia		135	—	—	—	17	1	—	—	152	1	448	—	84	—	532
New Brunswick		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Quebec		564	—	2	—	73	13	14	2	653	15	2,255	7	465	102	2,828
Ontario		1,493	51	29	—	158	50	64	8	1,744	109	5,754	87	1,262	381	7,483
Manitoba		39	3	—	—	7	5	2	—	48	8	132	—	64	8	204
Saskatchewan		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Alberta		273	4	4	—	31	8	17	—	325	12	1,090	27	218	96	1,431
British Columbia		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Yukon and Northwest Terri- tories		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals		2,827	103	36	—	345	88	110	10	3,318	201	11,056	126	2,471	666	14,319

TABLE 3A. Production and Related Workers, — Manufacturing Activity, by Months, 1962 and 1963

Month	Establishments reporting monthly detail			
	1962		1963	
	Male	Female	Male	Female
	number			
January	2,574	80	2,371	93
February	2,545	85	2,245	92
March	2,627	84	2,362	93
April	2,904	82	2,669	96
May	3,234	85	3,101	99
June	3,369	108	3,239	108
July	3,358	103	3,308	115
August	3,318	99	3,129	111
September	3,269	92	3,049	108
October	3,198	101	2,989	110
November	2,959	103	2,795	104
December	2,637	97	2,548	104
Average for establishments reporting monthly detail (collected only for large establishments) ..	3,023	93	2,815	103
Average for small establishments (only annual averages collected) .....	...	...	...	...
Average for all establishments	3,023	93	2,815	103

TABLE 4. Industry Inventories, 1963

Province	Manufacturing				Non-manufacturing	Total inventories
	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total manufacturing	Products or materials purchased for resale	
book value \$'000						
Opening:						
Newfoundland	x	x	x	x	x	x
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	32	--	260	293	1	294
New Brunswick	x	x	x	x	x	x
Quebec	329	110	1,184	1,623	14	1,637
Ontario	498	209	3,265	3,973	31	4,004
Manitoba	43	—	115	157	—	157
Saskatchewan	x	x	x	x	x	x
Alberta	272	30	658	960	5	964
British Columbia	x	x	x	x	x	x
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	1,458	421	6,249	8,129	106	8,234
Closing:						
Newfoundland	x	x	x	x	x	x
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	39	9	283	331	17	348
New Brunswick	x	x	x	x	x	x
Quebec	360	115	1,213	1,688	3	1,691
Ontario	487	186	3,115	3,787	51	3,839
Manitoba	34	—	122	156	—	156
Saskatchewan	x	x	x	x	x	x
Alberta	193	23	674	890	6	896
British Columbia	x	x	x	x	x	x
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	1,342	399	6,250	7,991	134	8,125

TABLE 5. Purchased Fuel and Electricity Used in Manufacturing Activity, 1962 and 1963

Description	1962		1963	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Large establishments which reported commodity detail:				
Bituminous coal:				
(a) From Canadian mines	ton	12,471	9,201	133
(b) Imported	"	50,416	48,685	784
Sub-bituminous coal (from Alberta mines only)	"	—	—	—
Anthracite coal	"	4,592	3,670	64
Lignite coal	"	819	204	1
Coke	"	254	167	4
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	730,285	771,891	260
Fuel oil including kerosene or coal oil	"	12,194,883	8,637,592	818
Wood	cord	13,404	10,328	86
Gas:				
(a) Liquefied petroleum gases	Imp. gal.	72,449	80,945	18
(b) Other manufactured gas	M cu.ft.	—	—	—
(c) Natural gas	"	4,751,586	5,237,380	2,266
Other fuel .....	...	6	—	—
Electricity purchased	kwh.	73,820,649	71,617,112	972
Steam purchased .....	...	—	...	—
2. Estimate for small establishments:				
Fuel and electricity .....	...	—	...	—
3. All establishments:				
Total fuel and electricity used .....	...	5,406	...	5,406

TABLE 6. Materials and Supplies used in Manufacturing Activity, 1963

This table is not applicable to this industry.

TABLE 7. Shipments of Goods of Own Manufacture, 1962 and 1963

Description		1962		1963	
		Quantity	Value \$'000	Quantity	Value \$'000
1. Products:					
Clay:					
Fireclay	ton	2,077	16	280	9
Other clay (includes bentonite)		...	611	...	541
Fireclay blocks and shapes		...	41	...	32
Firebrick	M	3,035	392	3,523	453
Brick:					
Soft mud process:					
Face	M	38,633	2,047	40,732	2,132
Common	M	6,572	153	5,564	117
Stiff mud process (wire cut):					
Face	M	303,158	15,328	303,378	15,222
Common	M	41,755	1,092	40,303	1,105
Dry press:					
Face	M	66,298	3,295	53,051	2,512
Common	M	9,399	247	6,579	201
Fancy or ornamental brick (including special shapes, embossed and enamelled brick)	M	9,982	831	16,437	1,247
Sewer brick	M	1,551	56	1,025	39
Paving brick		—	—	1,389	136
Structural tiles:					
Hollow blocks (including fireproofing and loadbearing tile)	ton	111,228	2,260	99,017	1,968
Partition tile		—	—	—	—
Floor tile (quarries) and glazed tile	sq. ft.	198,794	99	191,837	83
Drain tile	M	54,903	3,381	64,378	3,888
Sewer pipe		...	3,506	...	3,626
Flue linings		...	946	...	930
Pottery, glazed or unglazed (including coarse earthenware, sanitaryware, stone ware, flower pots, and all pottery)		...	966	...	1,083
All other products		...	2,326	...	2,925
2. Amount received in payment for work done on materials and products owned by others		...	—	...	—
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above		...	(540)	...	(663)
Net adjustment for establishments receiving progress payments		...	—	...	—
Total adjusted value of shipments and work done		...	37,054	...	37,587

TABLE 8. Producers' Shipments of Clay Products,¹ by All Operators, 1962 and 1963

Product		Sales or shipments			
		1962		1963	
		Quantity	Value \$	Quantity	Value \$
Clay:					
Fireclay	ton	11,420	62,112	4,488	64,795
Other clay (includes bentonite)		...	1,022,995	...	1,148,981
Fireclay blocks and shapes		...	56,742	...	47,621
Firebrick	M	4,013	514,260	4,775	636,112
Brick:					
Soft mud process:					
Face	M	38,633	2,046,857	40,732	2,132,170
Common	M	6,572	152,960	5,564	116,833
Stiff mud process (wire cut):					
Face	M	303,447	15,444,296	304,037	15,409,529
Common	M	41,755	1,126,550	40,303	1,137,435
Dry press:					
Face	M	66,417	3,302,161	53,051	2,512,050
Common	M	9,399	246,897	6,579	201,049
Fancy or ornamental brick (including special shapes, embossed and enamelled brick)	M	9,982	831,218	16,437	1,247,398
Sewer brick	M	1,551	56,299	1,025	39,054
Paving brick	M	—	—	1,389	136,438
Structural tiles:					
Hollow blocks (including fireproofing and loadbearing tile)	ton	111,228	2,292,324	99,322	2,024,309
Partition tile		—	—	—	—
Floor tile (quarries) and glazed tile	sq. ft.	198,794	99,397	191,837	82,775
Drain tile	M	54,903	3,427,338	64,378	3,947,002
Sewer pipe		...	3,505,866	...	3,625,761
Flue linings		...	946,202	...	940,864
Pottery, glazed or unglazed (including coarse earthenware, sanitaryware, stone ware, flower pots, and all pottery)		...	965,566	...	1,082,824
Other products		...	1,716,838	...	1,621,294
Totals		...	37,816,878	...	38,154,294

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

TABLE 9. Producers' Shipments of Clay Products,¹ by Provinces, 1961-63

	1961	1962	1963
	dollars		
Newfoundland	75,890	142,000	92,120
Nova Scotia	1,582,153	1,712,503	1,337,430
New Brunswick	744,293	822,400	623,166
Quebec	8,195,790	7,450,131	6,852,660
Ontario	19,036,556	20,146,786	21,819,687
Manitoba	623,966	621,275	594,072
Saskatchewan	1,115,474	1,354,635	1,044,721
Alberta	3,517,473	3,445,687	3,452,835
British Columbia	2,091,353	2,121,461	2,337,603
Canada	36,982,948	37,816,878	38,154,294

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

TABLE 10. Producers' Shipments of Clay Building Brick,¹ 1954-63

Year	Quantity	Value	Average value per M ²	Year	Quantity	Value	Average value per M ²
	M	\$			M	\$	
1954	467,738	20,752,225	43.44	1959	550,961	27,606,003	50.11
1955	489,240	22,157,837	45.29	1960	465,171	22,994,457	49.43
1956	510,101	24,005,749	47.06	1961	464,942	22,008,286	47.34
1957	473,728	22,590,169	47.69	1962	477,756	23,207,238	48.58
1958	547,643	27,482,319	50.18	1963	467,728	22,795,518	48.74

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

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

TABLE 11. Producers' Shipments of Clay Building Brick,^{1,2} by Provinces, 1962 and 1963

Province	1962		1963	
	Quantity	Value	Quantity	Value
	M	\$	M	\$
Newfoundland	2,710	142,000	1,757	92,120
Nova Scotia	17,674	1,022,135	14,633	790,228
New Brunswick	10,091	548,826	8,285	353,696
Quebec	139,438	6,009,252	119,109	5,212,212
Ontario	256,122	12,833,593	277,740	13,931,169
Manitoba	865	30,279	1,602	56,658
Saskatchewan	10,978	486,599	7,447	344,200
Alberta	35,386	1,770,123	33,223	1,659,201
British Columbia	4,492	364,431	3,932	356,034
Canada	477,756	23,207,238	467,728	22,795,518
Average value per M	—	48.58	—	48.74

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

² Includes fancy and sewer brick.

TABLE 12. Producers' Shipments of Drain Tile, Sewer Pipe and Flue Linings Made from Domestic Clays,¹ 1954-63

Year	Value	Year	Value
	\$		\$
1954	6,212,425	1959	8,345,619
1955	7,107,946	1960	7,877,107
1956	6,948,189	1961	8,167,396
1957	6,706,053	1962	7,879,406
1958	8,414,967	1963	8,513,627

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

TABLE 13. Producers' Shipments of Drain Tile, Sewer Pipe and Flue Linings Made from Domestic Clays,¹ by Provinces, 1962 and 1963

Province	1962	1963
	dollars	
Newfoundland	—	—
Nova Scotia	557,658	420,899
New Brunswick	57,000	53,100
Quebec	433,525	549,716
Ontario	4,472,653	5,242,590
Saskatchewan	569,303	463,319
Alberta	829,725	844,601
British Columbia	959,542	939,402
Canada	7,879,406	8,513,627

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

TABLE 14. Producers' Shipments of Fireclay, Fireclay Blocks and Shapes and Firebrick Made from Domestic Clays,¹ 1954-63

Year	Fireclay		Fireclay blocks and shapes	Firebrick	
	Short tons	Value	Value	Quantity	Value
		dollars		M	\$
1954	10,770	61,750	316,061	2,416	230,907
1955	11,669	72,815	418,554	4,055	402,263
1956	8,448	64,588	471,083	4,258	430,922
1957	5,600	44,143	376,492	5,411	537,067
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

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

TABLE 15. Producers' Shipments of Fireclay Blocks and Shapes and Firebrick Made from Domestic Clays,¹ by Provinces, 1963

Province	Fireclay		Fireclay blocks and shapes	Firebrick	
	Short tons	Value	Value	Quantity	Value
		dollars		M	\$
Nova Scotia	—	—	—	—	—
Saskatchewan	2,010	33,692	—	1,252	182,763
Alberta	—	—	—	—	—
British Columbia	2,478	31,103	47,621	3,523	453,349
Canada	4,488	64,795	47,621	4,775	636,112

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

TABLE 16. Producers' Shipments of Pottery Made from Domestic Clays,¹ 1954-63

Year	Value	Year	Value
	\$		\$
1954	534,220	1959	700,434
1955	603,865	1960	803,331
1956	610,614	1961	811,651
1957	633,252	1962	965,566
1958	710,292	1963	1,082,824

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

TABLE 17. Producers' Shipments of Pottery Made from Domestic Clays,¹ by Provinces, 1962 and 1963

Province	1962	1963
	dollars	
Nova Scotia	6,500	6,900
New Brunswick	181,426	176,626
Quebec	—	—
Ontario	680,388	780,078
Alberta	73,305	93,134
British Columbia	23,947	26,086
Canada	965,566	1,082,824

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

TABLE 18. Producers' Shipments of Structural Tile Made from Domestic Clays,¹ 1954-63

Year	Hollow blocks ²		Roofing tile		Floor tile (quarries) ³	
	Short tons	Value	Number	Value	Square feet	Value
		\$		\$		\$
1954	185,069	3,432,799	10,000	350	169,326	70,091
1955	199,982	3,647,690	—	—	229,098	92,854
1956	206,348	3,863,522	—	—	238,817	98,280
1957	183,558	3,575,748	—	—	153,081	67,092
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

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

² Includes fireproofing, load-bearing and partition tile.

³ Includes value of glazed floor and wall tile.

TABLE 19. Producers' Shipments of Structural Tile Made from Domestic Clays,¹ by Provinces, 1963

Province	Hollow blocks ²		Floor tile (quarries) ³	
	Short tons	Value	Square feet	Value
		\$		\$
Nova Scotia	5,928	119,403	—	—
New Brunswick	2,208	39,744	—	—
Quebec	48,434	1,006,697	—	—
Ontario	33,855	674,238	191,837	82,775
Saskatchewan	1,308	17,816	—	—
Alberta	6,339	135,035	—	—
British Columbia	1,250	31,376	—	—
Canada	99,322	2,024,309	191,837	82,775

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

² Includes fireproofing and load-bearing.

³ Includes value of glazed floor and wall tile.

TABLE 20. Available Data on the Consumption of Bentonite in Canada, 1961 and 1962

	1961	1962
	tons	
(a) By industries:		
Steel foundries	3,217	4,352
Soaps and cleaning preparations	2,259	2,160
Pulp and paper	—	—
Petroleum refining	1,449	1,554
Vegetable oil mills	351	471
Oil well drilling ¹	14,621	9,971
Iron castings	2,402	2,768
Paints and varnishes	161	186
Petroleum and natural gas	34,770	31,128
Totals	59,230	52,590
(b) By provinces:		
Newfoundland and Nova Scotia	3	3
New Brunswick	—	—
Quebec	2,305	2,937
Ontario	6,535	7,929
Manitoba	407	270
Saskatchewan	3,040	4,028
Alberta	45,044	34,204
British Columbia	1,788	3,081
Northwest Territories and Yukon	108	138
Canada	59,230	52,590

¹ Conjectural.

TABLE 21. Available Data on the Consumption of Fuller's Earth in Canada, 1961 and 1962

	1961	1962
	tons	
(a) By industries:		
Soaps and cleaning preparations	95	90
Petroleum refining	673	783
Slaughtering and meat-packing	1	1
Vegetable oil mills	1	1
Starch and glucose manufacturing	139	—
Sugar refineries	2,069	2,093
Totals	2,996	2,966
(b) By provinces:		
Nova Scotia	—	97
Quebec	1,840	1,815
Ontario	398	147
Manitoba	—	—
Saskatchewan	36	32
Alberta	98	90
British Columbia	624	785
Canada	2,996	2,966

¹ Not listed.

TABLE 22. Available Data on the Consumption of China-clay (Kaolin) in Canada, 1961 and 1962

	1961	1962
	tons	
(a) By industries:		
Paints	2,007	2,458
Toilet preparations	21	30
Miscellaneous chemical products n.e.s.	1,798	2,188
Imported clay products	6,875	5,277
Linoleum	1,892	1,857
Wallpaper	1	1
Rubber goods	9,099	766
Pulp and paper	71,135	76,410
Electrical apparatus	1,928	1,638
Paper goods	11,701	11,016
Gypsum products	177	—
Communications equipment	1	17
Major appliances	100	21
Electrical wire and cable	1,272	1,349
Refractories	16	—
Electrical industrial equipment	—	—
Totals	108,022	103,027
(b) By provinces:		
Newfoundland and Nova Scotia	19	44
New Brunswick	1,200	1,119
Quebec	34,518	27,896
Ontario	64,192	66,256
Manitoba	193	202
Saskatchewan	—	—
Alberta	622	50
British Columbia	7,278	7,460
Canada	108,022	103,027

¹ See paper goods.

Note: "n.e.s." Means "not elsewhere specified" in the statistical classification.

TABLE 23. Clays and Earths¹ Used in the Rubber Goods Industry, 1958 - 62

Year	tons	Value
		\$
1958	12,955	444,940
1959	14,312	527,616
1960	12,708	460,329
1961	12,907	472,699
1962	14,915	531,568

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

TABLE 24. Fireclay and Cupola Blocks Used in the Manufacture of Iron and Steel and their Products, 1958 - 62

Year	Cost at works
	\$
1958	11,227,000
1959	14,567,000
1960	13,877,000
1961	13,981,000
1962	16,411,000

TABLE 25. Filtering Earths Used in the Sugar Refining Industry, 1959 - 63

Year	Sugar refineries	
	Pounds	Value
		\$
1959	4,226,100	167,117
1960	4,435,350	191,417
1961	4,178,343	188,703
1962	4,186,747	188,850
1963	4,634,520	219,000

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

TABLE 26. Imports and Exports of Clay and Clay Products, 1962 and 1963

		1962		1963	
		Quantity	Value \$	Quantity	Value \$
Imports					
China-clay	cwt.	3,129,011	3,166,629	3,475,167	3,649,438
Fireclay	"	1,408,618	437,009	1,458,232	447,014
Pipe clay	"	540,871	57,361	669,103	79,337
Clays, all other, n.o.p. ....		...	975,316	...	1,030,618
Zirconium silicate .....		...	219,609	...	319,232
Zirconium oxide .....		...	58,286	...	60,921
Saggars .....		...	216,836	...	232,910
Activate clay, for the refining of oils .....		...	934,465	...	1,405,725
Grog for refractory materials	ton	13,074	439,571	16,122	499,914
Brick, building, n.o.p.	M	32,954	1,951,205	25,107	1,585,580
Brick, building, glazed	M	6,457	617,090	3,776	373,635
Brick, fire, other, valued at not less than \$100 per M, rectangular shaped, the dimensions of each not to exceed 125 cubic inches, for use exclusively in the construction or repair of a furnace, kiln, etc. ....		...	1,211,913	...	1,309,357
Brick, fire, n.o.p., for use exclusively in the construction or repair of a furnace, kiln, or other equipment of a manufacturing establishment (not made in Canada) .....		...	6,421,059	...	7,194,375
Brick, fire, n.o.p. ....		...	3,373,339	...	3,400,584
Brick, paving	M	103	9,679	85	8,456
Building blocks, building tile .....		...	832,431	...	798,742
Drain pipes, sewer pipes and earthenware fittings, chimney linings or vents, chimney tops or inverted blocks, glazed or unglazed, n.o.p. ....		...	77,677	...	65,318
Tiles or blocks, of earthenware or stone, prepared for mosaic flooring .....		...	...	...	...
Earthenware tiles for roofing .....		...	14,225	...	11,031
Tiles, earthenware, n.o.p. ....		...	1,799	...	59,248
Tiles, floor and wall, earthenware	sq. ft.	12,577,081	2,767,993	15,639,027	3,244,251
Chemical stoneware .....		...	247,350	...	274,290
Hand forms of porcelain, for the manufacture of rubber gloves		—	—	—	—
China and porcelain ware, n.o.p. ....		...	122,380	...	137,586
Demijohns, churns, or crocks, n.o.p. ....		...	35,208	...	30,246
Tableware of china, porcelain .....		...	15,116,041	...	14,468,603
Stoneware, Rockingham ware and earthenware, n.o.p. ....		...	2,946,462	...	2,894,270
Artificial teeth, not mounted .....		...	1,668,980	...	1,804,148
Crucibles, n.o.p., and covers .....		...	144,990	...	117,015
Insulators, electric, porcelain, and parts .....		...	1,052,721	...	1,584,773
Manufactures of clay, n.o.p. ....		...	1,174,565	...	1,182,543
Exports					
Building brick, clay	M	4,634	321,336	7,364	448,306
Bricks, fire .....		...	...	...	...
Clay, manufactures of, n.o.p. ....		...	...	...	...
Clays, unmanufactured .....		...	...	...	...
Earthenware .....		...	...	...	...
Porcelain insulators .....		...	...	...	...
Clay, ground or unground	cwt.	39,756	55,740	21,569	30,164
High tension insulators .....		...	230,478	...	310,049
Stone, clay and concrete end products n.e.s. ....		...	10,222	...	11,783
Firebrick and similar shapes .....		...	3,998,911	...	3,950,497
Clay bricks, blocks and tiles n.e.s. ....		...	174,495	...	239,321

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, 1963

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

Name	Location
Newfoundland:	
Pelly, C. & M., Limited	Milton
Nova Scotia:	
Lorenzen, E.	Lantz
Shaw, L.E., Limited	Lantz
Shaw, L.E., Limited	New Glasgow
Standard Clay Products Limited	New Glasgow
New Brunswick:	
Canuck Pottery Ltd.	Little River
Shaw, L.E., Limited	Chipman
Quebec:	
Aggrite (1962) Inc.	St-Laurent
Brique Beauport Brick Inc.	Villeneuve
Brique de Scott Ltée, La	Scott Junction
Brique St-Jean Ltée	Deschailions
Brique Victoria Ltée	Victoriaville
Demers and Bordeleau	Deschailions
Domtar Construction Materials Ltd.,	Delson and Laprairie
East Angus Brick & Tile Inc.	East Angus
Montreal Terr Cotta Limited	Deschailions
Montreal Terra Cotta Limited	Pointe-Claire
St. Lawrence Brick Co., Limited	Laprairie
Ontario:	
Bauman, N.	Wallenstein,
Beaverton Brick & Tile	Beaverton
Blue Mountain Pottery Ltd.	Collingwood
Booth-Yeats Limited	North York
Brampton Brick Limited	Brampton
Brantford Clay Products Ltd.	Brantford
Bruce Brick and Tile Co.	Walkerton
Canada Brick (Martin-Marietta Canada Ltd.)	Streetsville
Canadian Pressed Brick Co. Ltd., (The)	Hamilton
Central Tile Brick Corporation Ltd.	Belle River
Comber Tile Yard Ltd.	Comber
Construction Materials Limited	New Toronto
Continental Brick & Tile Co. Ltd.	Shallow Lake
Coultis, Geo. & Son Ltd.	Bosanquet Twp.
Couture, Emilien	Deschailions
Deller's Tile Limited	Brownsville
Diamond Clay Products Limited	Burlington
Dochart Brick & Tile Co. Ltd.	Amprior
Domtar Construction Materials Ltd.	Cheltenham
Domtar Construction Materials Ltd.	Cooksville
Domtar Construction Materials Ltd.	Ottawa
Dresden Tile Yard Ltd.	Dresden
East Angus Brick & Tile Reg'd.	East Angus
Elliott's Brickyard	Sault St. Marie
Emig Clay Products Limited	202 Stanley Ave. Chatham
Fletcher Brick & Tile	Fletcher
Foster Pottery Co. Limited, The	Frid St. Hamilton
Gomoll Brick & Tile Works	Powassan
Gravell Brick Co. Ltd.	North Bay Box 52
Grimsty Tile Limited	Clinton Twp.
Hamilton Pressed Brick Co.	Hamilton

List of Establishments classified to This Industry, 1963 - Concluded

Name	Location
Ontario - Concluded	
Henderson, J.	Listowel
Hill Tile Ltd.	Coatsworth
Howlett, Fred W., & Sons	Petrolia
Huntsville Brick Works	Huntsville
Janes, D.A. & Son Ltd.	Mt. Brydges
Kitchener Brick Co. Ltd.	Waterloo Twp.
Lindsay, Earl, & Sons Limited	Wallaceburg
Martin, Amos Ltd.	Parkhill
Martin, Amos Ltd.	Wallenstein
McFarlane, W.J. & Sons Ltd.	Forest
McFarren, F.B. Ltd.	Streetsville
Milton Brick Co. Limited	Milton
Napanee Brick & Tile Works	Napanee
Natco Clay Products Limited	Burlington
National Sewer Pipe Ltd.	Clarkson
National Sewer Pipe Ltd.	Hamilton
Norwich Brick & Tile Ltd.	Norwich
Parkhill Brick Co. Ltd.	Parkhill
Royal Canadian Art Pottery	822 Rennie St., Hamilton
Rydall Brick & Tile Ltd.	London
St. Catharines Brick & Tile Co. Ltd.	St. Catharines
Superior Brick & Tile Co. Limited	Fort William
Toronto Brick Co. Ltd.	Don Valley and Price
Wilkesport Brick & Tile Yard	Wilkesport
Zavi, Jarko	Brighton
Manitoba:	
Alsip Brick, Tile & Lumber Company Limited	Portage la Prairie
Atlas Light Aggregate Ltd.	St. Boniface
Echo Light Aggregate Ltd.	St. Boniface
Pembina Mountain Clay Ltd.	Morden
Pembina Mountain Clay Ltd.	Winnipeg
Saskatchewan:	
Saskatchewan Minerals (Clay Products Division)	Estevan
Western Clay Products Ltd.	Regina, Box 1083
Alberta:	
Alberta Potteries Ltd.	Redcliff
Medicine Hat Brick & Tile Company Ltd.	Medicine Hat
Medicine Hat Brick & Tile Co. Ltd.	Redcliff
Medicine Hat Brick & Tile Co. Ltd.	Redcliff
Northwest Ceramics Ltd.	Cannell
Perry Brick & Tile Co. Ltd.	Redcliff
Sunburst Ceramics Ltd.	Medicine Hat
British Columbia:	
Clayburn-Harblson Ltd.	Kilgard and Ahbotsford
Haney Brick & Tile Ltd.	Haney
Haney Pottery	Haney
Mainland Clay Products Limited	Burnaby

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 58 (4 digit) sub classes. At the Canada level, principal statistics are collected and compiled for 178 separate industries. They cannot all be published separately by province, however, because of the confidential nature of the data in certain provinces.

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

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

The results of the Census are presented in some 140 publications. In addition to these annual industry publications there are annual summary reports for Canada and the provinces and special reports giving principal statistics by detailed geographic areas, by type of ownership and size of establishment. A special annual report covering the shipments of all manufactured commodities arranged in alphabetical order is also published.

Since 1960 the following major changes have been implemented in the Census of Manufactures: (a) a revised Standard Industrial Classification (b) a new establishment definition and (c) an extension of the establishment definition to cover the non-manufacturing activities of manufacturing establishments. The statistics presented in the various 1963 reports reflect the complete implementation of these changes and enable comparisons to be made with the years 1961 and 1962. For a complete description of the procedures followed in establishing the revised series, reference should be made to the Explanatory Notes included in the 1960, 1961 and 1962 industry publications. The statistical framework within which the Census of Manufactures is now carried out is based on the following concepts and definitions which have been developed as part of a general programme to achieve a fully integrated system of economic statistics.

Establishment

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

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

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

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

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

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

Head Offices and Auxiliary Units

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

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

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

(b) In the case of multi-establishment firms, the statistics for such offices and units are coded to the same industry as the establishments of the

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

Employees

(a) Production and related workers—Manufacturing activity

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. 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. 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.). 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 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 materials and fuel and electricity consumed from the value of production (value of shipments 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

purchased for re-sale) and the cost of other 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 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".

STATISTICS CANADA LIBRARY
BIBLIOTHÈQUE STATISTIQUE CANADA



1010635446