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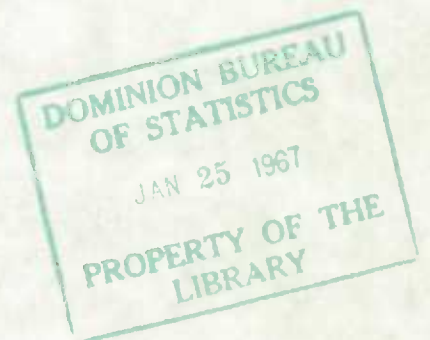
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ANNUAL



CONCRETE PRODUCTS MANUFACTURERS
1964

ANNUAL CENSUS
OF MANUFACTURES



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PUBLICATIONS

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A - Annual

M - Monthly

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CONCRETE PRODUCTS MANUFACTURERS

1964

For statistical purposes the industry titled Concrete Products Manufacturers in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in manufacturing concrete products such as building blocks, brick, sewer pipe, tanks, poles, septic tanks. Establishments primarily engaged in manufacturing sand-lime bricks and blocks are also included. Establishments primarily engaged in mixing and delivering ready-mix concrete are classified in industry Ready-Mix Concrete Manufacturers. Figures on cement work undertaken by firms classified for statistical purposes in the area of construction are not included. The latter type of work has been covered in the annual survey of construction.

Value of shipments and other revenue (manufacturing and non-manufacturing) of the Concrete Products Manufacturers Industry amounted to \$167,850,000 in 1964, compared with \$142,636,000 in 1963 an increase of \$25,214,000 or about 18 per cent. Included in this total were shipments of concrete bricks and blocks (cinder, gravel, other aggregates), concrete pipe and culvert tile, artificial stone and ready-mix concrete valued at \$104,553,000. Shipments of other manufactured products including precast structural shapes amounted to \$54,590,000, while other revenue (non-manufacturing) accounted for \$10,048,000.

This industry's shipments of concrete bricks and blocks, concrete pipe and culvert tile, artificial stone and ready-mixed concrete represented 66 per cent of its manufacturing revenue. The other products shipped by this industry in 1964 included precast structural shapes, concrete chimney blocks, concrete burial vaults, concrete laundry tubs, sand-lime products, etc.

The cost of materials and supplies, etc. used in the production of goods of own manufacture in 1964 increased by \$7,886,000 over that reported in 1963. Cost of materials and supplies etc. (inputs) in 1964 represented 41 per cent of value of shipments of own manufacture (outputs), compared to 43 per cent in 1963.

It should be noted that Table 13 covers the shipments of the establishments classified to this industry, whereas Table 14, presents the total value of shipments of specific commodities of Canadian manufacture, and includes shipments of those commodities reported by establishments classified to other industries.

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.

r revised figures.

x confidential to meet secrecy requirements of the Statistics Act.

TABLE 1. Principal Statistics, 1961-64

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	617	6,356	13,952	22,578	3,603	44,322	111,836	65,500	301	797	8,503	32,975	68,165
1962													
Totals	616	7,139	15,953	27,246	3,946	53,043	129,792	74,560	331	900	9,156	37,492	77,424
1963													
Newfoundland	6	112	280	390	28	713	1,554	851	x	x	139	503	864
Prince Edward Island	4	12	24	32	6	53	152	88	x	x	16	46	88
Nova Scotia	15	46	101	144	23	463	965	476	7	15	62	201	501
New Brunswick	12	68	143	185	28	464	881	372	4	13	82	228	413
Quebec	192	2,027	4,441	7,094	890	14,238	32,721	18,243	108	313	2,465	9,085	18,414
Ontario	237	3,617	7,920	14,560	2,247	29,659	70,744	38,669	115	370	4,875	21,165	40,666
Manitoba	20	324	736	1,295	249	3,053	6,360	2,954	8	26	459	1,910	3,085
Saskatchewan	19	140	300	500	137	1,118	2,806	1,481	9	37	162	612	1,497
Alberta	44	465	1,026	1,989	210	4,993	11,292	6,335	7	21	675	3,125	6,439
British Columbia	51	315	643	1,431	164	2,914	6,371	3,272	24	58	382	1,771	3,591
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	600	7,126	15,613	27,620	3,983	57,666	133,845	72,741	285	855	9,317	38,647	75,558
1964													
Newfoundland	4	191	453	643	49	1,106	2,516	1,585	8	17	236	831	1,659
Prince Edward Island	3												
Nova Scotia	13												
New Brunswick	14	136	289	497	30	660	1,820	1,207	6	15	161	602	1,215
Quebec	192	2,298	5,409	9,068	1,020	17,572	42,821	24,728	111	325	2,814	11,557	24,785
Ontario	223	3,997	9,099	17,093	2,396	32,799	81,375	47,294	102	351	5,125	23,298	49,089
Manitoba	22	336	680	1,397	273	3,040	6,745	3,393	6	19	480	2,094	3,612
Saskatchewan	20	205	440	725	206	1,311	3,375	1,967	9	32	250	926	2,048
Alberta	41	542	1,154	2,362	249	5,491	12,265	6,745	6	19	722	3,424	8,765
British Columbia	51	362	733	1,547	179	3,371	6,885	3,383	22	56	437	1,942	3,726
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	583	8,067	18,238	33,332	4,402	65,552	157,802	90,301	270	835	10,225	44,674	92,920

TABLE 2. Principal Statistics classified by Size Group based on Value of Shipments of Goods of Own Manufacture, 1963 and 1964

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			
1963													
Under \$10,000	86	28	55	57	6	160	470	319	83	141	34	63	326
\$ 10,000 to \$ 24,999	98	144	286	371	31	612	1,651	1,004	86	231	171	437	1,087
25,000 " 49,999	87	280	570	808	102	1,105	3,098	1,955	64	237	350	1,030	2,099
50,000 " 99,999	100	527	1,097	1,630	249	2,715	7,095	4,185	33	164	690	2,246	4,454
100,000 " 199,999	91	792	1,699	2,734	456	5,170	12,901	7,294	17	78	1,045	3,896	7,665
200,000 " 499,999	79	1,421	3,121	5,307	859	11,020	25,238	13,492	2	4	1,836	7,385	14,129
500,000 " 999,999	25	889	1,975	3,656	517	7,820	16,518	8,302	-	-	1,096	4,761	8,431
1,000,000 " 4,999,999	34	3,045	6,811	13,057	1,763	29,064	66,875	36,190	-	-	4,088	18,781	37,371
5,000,000 and over	-	-	-	-	-	-	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	7	48	(4)
Totals	600	7,126	15,613	27,620	3,983	57,666	133,845	72,741	285	855	9,317	38,647	75,558
1964													
Under \$10,000	81	43	77	83	6	157	484	330	73	140	54	103	333
\$ 10,000 to \$ 24,999	90	121	248	313	38	543	1,490	930	85	250	145	377	972
25,000 " 49,999	84	262	563	815	83	963	2,948	1,910	55	188	314	990	2,022
50,000 " 99,999	102	574	1,263	1,902	235	2,544	7,256	4,716	35	164	748	2,634	4,998
100,000 " 199,999	66	582	1,309	2,139	353	4,021	9,831	5,731	14	62	759	3,031	5,992
200,000 " 499,999	87	1,406	3,265	5,552	964	11,282	27,282	15,279	7	29	1,796	7,670	15,961
500,000 " 999,999	34	1,093	2,448	4,572	719	10,000	23,803	13,288	1	3	1,312	5,841	13,468
1,000,000 " 4,999,999	39	3,986	9,065	17,956	2,005	36,042	84,708	48,117	-	-	5,089	23,977	49,174
5,000,000 and over	-	-	-	-	-	-	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	8	51	(1)
Totals	583	8,067	18,238	33,342	4,402	65,552	157,802	90,301	270	835	10,225	44,674	92,920

TABLE 3. Principal Statistics classified by Size Group based on Manufacturing Value Added, 1963 and 1964

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			
1963													
Under \$10,000	141	82	162	183	23	520	1,275	718	133	263	101	218	755
\$ 10,000 to \$ 24,999	115	297	600	852	111	1,352	3,436	1,969	88	300	372	1,068	2,158
25,000 " 49,999	94	490	1,014	1,457	229	2,728	6,352	3,433	39	156	622	1,963	3,679
50,000 " 99,999	107	905	1,922	3,025	456	5,848	14,184	7,652	20	122	1,159	4,178	8,160
100,000 " 199,999	65	902	2,000	3,497	620	8,349	18,047	9,256	5	14	1,211	5,027	9,538
200,000 " 499,999	45	1,419	3,116	5,631	867	10,775	25,080	13,736	-	-	1,779	7,576	14,109
500,000 " 999,999	18	1,005	2,393	4,600	696	10,993	23,615	12,104	-	-	1,350	6,436	13,062
1,000,000 " 4,999,999	15	2,026	4,406	8,376	981	17,101	41,856	23,874	-	-	2,716	12,133	24,101
5,000,000 and over	-	-	-	-	-	-	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	7	48	(4)
Totals	600	7,126	15,613	27,620	3,983	57,666	133,845	72,741	285	855	9,317	38,647	75,558
1964													
Under \$10,000	126	89	172	196	27	426	1,104	648	116	263	109	240	724
\$ 10,000 to \$ 24,999	106	240	513	666	72	1,087	2,933	1,798	92	287	285	800	1,844
25,000 " 49,999	89	426	922	1,398	172	1,856	5,262	3,224	34	150	550	1,902	3,442
50,000 " 99,999	89	690	1,542	2,456	366	4,454	10,784	6,311	16	89	889	3,368	6,595
100,000 " 199,999	78	1,011	2,337	4,071	694	8,448	20,219	11,419	11	43	1,332	5,824	12,001
200,000 " 499,999	54	1,517	3,431	6,086	1,064	13,339	31,627	17,386	1	3	1,834	7,890	17,835
500,000 " 999,999	24	1,495	3,414	7,012	858	13,236	30,825	16,708	-	-	1,893	9,207	17,156
1,000,000 " 4,999,999	17	2,599	5,907	11,447	1,149	22,706	55,047	32,806	-	-	3,325	15,392	33,324
5,000,000 and over	-	-	-	-	-	-	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	8	51	(1)
Totals	583	8,067	18,238	33,332	4,402	65,552	157,802	90,301	270	835	10,225	44,674	92,920

TABLE 4. Principal Statistics classified by Size Group based on Total Value Added, 1963 and 1964

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		
1963													
Under \$10,000	139	77	152	171	21	507	1,239	700	132	261	95	201	712
\$ 10,000 to \$ 24,999	108	268	546	766	95	1,247	3,163	1,819	82	279	330	934	1,862
25,000 " 49,999	91	430	886	1,270	191	2,133	5,413	3,133	46	179	546	1,702	3,293
50,000 " 99,999	110	918	1,945	2,992	454	5,813	13,897	7,414	20	122	1,167	4,097	7,834
100,000 " 199,999	72	949	2,087	3,662	644	8,860	19,074	9,683	5	14	1,263	5,198	10,087
200,000 " 499,999	46	1,428	3,143	5,669	893	10,683	24,773	13,530	—	—	1,818	7,783	14,094
500,000 " 999,999	17	841	1,993	3,792	577	9,525	21,200	11,307	—	—	1,107	5,183	11,394
1,000,000 " 4,999,999	17	2,215	4,863	9,298	1,109	18,899	45,086	25,156	—	—	2,984	13,500	26,285
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	7	48	(4)
Totals	600	7,126	15,613	27,620	3,983	57,666	133,845	72,741	285	855	9,317	38,647	75,558
1964													
Under \$10,000	120	74	140	158	20	369	997	608	112	250	92	194	612
\$ 10,000 to \$ 24,999	107	236	502	653	74	1,068	2,858	1,746	94	291	278	778	1,799
25,000 " 49,999	85	388	837	1,265	145	1,693	4,611	2,947	35	156	499	1,706	3,062
50,000 " 99,999	95	708	1,589	2,463	374	4,389	10,800	6,391	17	92	913	3,389	6,750
100,000 " 199,999	78	984	2,275	3,942	700	8,355	19,853	11,193	11	43	1,285	5,558	11,529
200,000 " 499,999	56	1,509	3,438	6,149	1,063	13,016	31,469	17,431	1	3	1,842	8,065	18,069
500,000 " 999,999	24	1,466	3,263	6,697	765	12,918	29,864	16,246	—	—	1,854	8,776	16,480
1,000,000 " 4,999,999	18	2,702	6,195	12,006	1,261	23,745	57,151	33,740	—	—	3,454	16,156	34,619
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	8	51	(1)
Totals	583	8,067	18,238	33,332	4,402	65,552	157,802	90,301	270	835	10,235	44,674	92,920

TABLE 5. Principal Statistics classified by Size Group based on Total Employed, 1963 and 1964

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	
1963													
Under 5 employed	229	252	507	709	109	1,531	4,055	2,431	200	504	308	865	2,484
5 - 14 employed	227	1,349	2,870	4,530	726	8,952	21,980	12,343	79	333	1,757	6,332	13,129
15 - 49 "	104	2,051	4,513	7,810	1,317	18,218	41,820	22,364	6	18	2,635	10,850	23,233
50 - 99 "	25	1,227	2,719	5,168	804	10,248	23,748	13,101	—	—	1,606	7,183	13,088
100-199 "	8	901	2,015	3,729	381	7,345	16,917	9,348	—	—	1,166	5,039	10,243
200-499 "	7	1,346	2,989	5,673	846	11,373	25,324	13,156	—	—	1,838	8,329	13,386
500 employed and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	7	48	(4)
Totals	600	7,126	15,613	27,620	3,983	57,666	133,845	72,741	285	855	9,317	38,647	75,558
1964													
Under 5 employed	222	267	553	727	95	1,473	4,059	2,519	197	534	321	889	2,579
5 - 14 employed	212	1,341	2,955	4,798	707	9,080	23,015	13,562	63	263	1,725	6,603	14,189
15 - 49 "	106	2,128	4,952	8,713	1,577	19,031	46,117	26,198	10	36	2,680	11,759	27,084
50 - 99 "	26	1,442	3,150	6,323	800	12,471	28,982	15,941	—	—	1,779	8,297	16,115
100-199 "	7	765	1,911	3,345	306	7,238	15,580	9,123	—	—	977	4,477	9,819
200-499 "	10	2,124	4,718	9,426	914	16,259	40,050	22,958	—	—	2,735	12,597	23,135
500 employed and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	8	51	(1)
Totals	583	8,067	18,238	33,332	4,402	65,552	157,802	90,301	270	835	10,225	44,674	92,920

TABLE 6. Principal Statistics classified by Type of Organization, 1963 and 1964

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		
1963													
Individual ownerships	177	332	676	914	130	1,791	4,611	2,704	175	543	380	1,018	2,775
Partnerships	53	119	245	371	64	854	2,139	1,246	110	312	135	421	1,278
Incorporated companies	370	6,675	14,693	26,334	3,789	55,022	127,095	68,791	-	-	8,795	37,160	71,510
Co-operatives	-	-	-	-	-	-	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	7	48	(4)
Totals	600	7,126	15,613	27,620	3,983	57,666	133,845	72,741	285	855	9,317	38,647	75,558
1964													
Individual ownerships	171	318	639	934	116	1,556	4,381	2,713	172	518	335	966	2,776
Partnerships	48	147	307	494	63	1,014	2,659	1,595	98	317	166	555	1,618
Incorporated companies	364	7,602	17,292	31,904	4,223	62,982	150,763	85,993	-	-	9,716	43,081	88,527
Co-operatives	-	-	-	-	-	-	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	8	51	(1)
Totals	583	8,067	18,238	33,332	4,402	65,552	157,802	90,301	270	835	10,225	44,674	92,920

TABLE 7. Calculation of Output, Input and Value Added, 1963 and 1964

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1963	1964	1963	1964	1963	1964
\$'000						
Output						
1. Shipments and other revenue	133,845	157,802	8,791	10,048	142,636	167,850
Inventories - Goods of own manufacture:						
Add closing - Goods in process	1,197	2,708	...	...	1,197	2,708
Finished goods	14,002	14,825	...	...	14,002	14,825
Deduct opening - Goods in process	1,319	2,072	...	...	1,319	2,072
Finished goods	13,334	13,008	...	...	13,334	13,008
2. Net inventory change	546	2,453	...	...	546	2,453
3. Gross output (1 + 2)	134,391	160,255	8,791	10,048	143,182	170,303
Input						
4. Purchases of goods not of own manufacture .....	...	...	5,264	6,782	5,284	6,782
Inventories - Goods not of own manufacture:						
Add opening .....	...	...	570	457	570	457
Deduct closing .....	...	...	547	553	547	553
5. Cost of goods sold (not of own manufacture) .....	...	...	5,287	6,686	5,287	6,686
6. Materials, supplies, etc.	57,666	65,552	687	744	58,353	66,296
7. Fuel and electricity	3,963	4,402	...	...	3,983	4,402
8. Gross input (5 + 6 + 7)	61,649	69,954	5,974	7,430	67,623	77,384
Value added (3 - 8)	72,741	90,301	2,817	2,619	75,558	92,920

TABLE 8. Employment and Payroll, 1963 and 1964

Year and province	Employees										Salaries and wages				
	Production and related workers				Administrative and office		Sales and distribution		Total		Production and related workers		Administrative and office	Sales and distribution	Total
	Manufacturing		Other		Male	Female	Male	Female	Male	Female	Manufacturing	Other			
	Male	Female	Male	Female											
	number										\$'000				
1963															
Newfoundland	112	-	-	-	21	3	3	-	136	3	390	-	103	10	503
Prince Edward Island	12	-	-	-	4	-	-	-	16	-	32	-	14	-	46
Nova Scotia	46	-	-	-	14	2	-	-	60	2	144	-	57	-	201
New Brunswick	68	-	-	-	11	1	1	1	80	2	185	-	40	3	228
Quebec	2,022	5	16	-	286	71	60	4	2,384	81	7,094	97	1,569	325	9,085
Ontario	3,581	36	85	-	555	187	413	18	4,634	241	14,560	313	4,181	2,111	21,165
Manitoba	324	-	-	-	52	18	63	2	439	20	1,295	-	286	330	1,910
Saskatchewan	139	1	-	-	17	4	1	-	157	5	500	-	106	8	612
Alberta	464	1	1	-	158	21	30	-	653	22	1,989	8	978	153	3,125
British Columbia	315	-	-	-	59	7	1	-	375	7	1,431	-	338	3	1,771
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	7,083	43	102	-	1,177	315	572	25	8,934	383	27,620	418	7,668	2,941	38,647
1964															
Newfoundland															
Prince Edward Island	191	-	-	-	35	7	3	-	229	7	643	-	178	11	831
Nova Scotia															
New Brunswick	136	-	-	-	23	1	-	1	159	2	497	-	104	1	602
Quebec	2,296	2	14	-	375	80	46	1	2,731	83	9,068	92	2,140	257	11,557
Ontario	3,964	33	13	-	536	215	351	13	4,864	261	17,093	36	4,155	2,014	23,298
Manitoba	336	-	-	-	56	19	68	1	460	20	1,397	-	338	358	2,094
Saskatchewan	205	-	2	-	32	5	6	-	245	5	725	8	162	31	926
Alberta	542	-	-	-	128	20	32	-	702	20	2,362	-	852	210	3,424
British Columbia	362	-	-	-	62	10	3	-	427	10	1,547	-	382	13	1,942
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	8,032	35	29	-	1,247	357	509	16	9,817	408	33,332	135	8,311	2,896	44,674

TABLE 9. Production and Related Workers, - Manufacturing Activity, 1963 and 1964

Month	1963		1964	
	Male	Female	Male	Female
	number			
Establishments reporting monthly detail (large establishments only):				
January	4,502	32	5,463	25
February	4,386	32	5,536	26
March	4,779	33	5,957	23
April	5,362	31	6,486	23
May	5,841	31	7,057	22
June	6,176	31	7,657	23
July	6,307	29	7,729	23
August	6,357	36	7,835	27
September	6,209	40	7,790	30
October	6,153	69	7,947	65
November	5,890	67	7,751	65
December	5,157	52	6,741	43
Averages	6,077	42	7,007	33
Establishments reporting annual averages (small establishments only)	1,006	1	1,025	2
Average for all establishments	7,083	43	8,032	35

TABLE 10. Inventories, 1964

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						
Prince Edward Island	81	60	180	320	8	328
Nova Scotia						
New Brunswick	17	-	113	130	6	136
Quebec	1,632	1,018	3,410	6,059	22	6,081
Ontario	2,431	704	6,310	9,444	360	9,803
Manitoba	750	113	428	1,291	33	1,324
Saskatchewan	110	-	377	487	9	496
Alberta	334	58	1,487	1,879	20	1,699
British Columbia	179	120	705	1,004	-	1,004
Yukon and Northwest Territories	-	-	-	-	-	-
Totals	5,534	2,072	13,008	20,614	457	21,071
Closing:						
Newfoundland						
Prince Edward Island	77	241	223	540	8	548
Nova Scotia						
New Brunswick	109	78	112	299	4	303
Quebec	2,322	1,101	3,826	7,248	20	7,268
Ontario	2,803	1,006	7,121	10,930	377	11,307
Manitoba	987	109	392	1,488	116	1,604
Saskatchewan	176	-	486	661	12	673
Alberta	330	61	1,904	2,295	17	2,312
British Columbia	212	113	761	1,086	-	1,086
Yukon and Northwest Territories	-	-	-	-	-	-
Totals	7,015	2,708	14,825	24,548	553	25,101

TABLE 11. Purchased Fuel and Electricity Used in Manufacturing Activity, 1963 and 1964

Description	1963		1964		
	Quantity	Cost	Quantity	Cost	
		\$'000		\$'000	
1. Large establishments reporting commodity detail:					
Bituminous coal:					
(a) From Canadian mines	ton	7,339	61	956	16
(b) Imported	"	10,261	140	15,011	199
Sub-bituminous coal (from Alberta mines only)	"	3	--	--	--
Anthracite coal	"	2,321	35	11	--
Lignite coal	"	-	-	-	-
Coke	"	123	2	134	2
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	3,507,018	1,253	3,696,134	1,361
Fuel oil including kerosene or coal oil	"	7,907,877	959	8,840,474	1,089
Wood	cord	83	1	67	1
Gas:					
(a) Liquefied petroleum gases	Imp. gal.	198,017	62	403,939	65
(b) Other manufactured gas	M cu. ft.	-	-	-	-
(c) Natural gas	"	603,746	279	779,322	362
Other fuel .....	...	...	4	...	4
Electricity purchased	kwh.	38,275,104	713	47,836,033	838
Steam purchased .....	...	...	126	...	119
2. Small establishments not reporting commodity detail:					
Estimate for fuel and electricity .....	...	...	348	...	345
3. All establishments:					
Total fuel and electricity used .....	...	...	3,983	...	4,402

TABLE 12. Materials and Supplies - Manufacturing Activity, 1963 and 1964

Description	1963		1964	
	Quantity	Cost \$'000	Quantity	Cost \$'000
1. Materials used:				
Portland cement	bag 17,222,203	16,034	20,241,314	19,065
Quicklime	ton 22,730	275	42,950	511
Sand and gravel	" 4,583,724	7,982	5,210,893	8,840
Crushed stone	" 800,338	1,601	1,231,298	2,221
Cinders	cu. yd. 92,825	306	35,978	86
Reinforcing steel (wire, bar, mesh, etc.)	ton 52,101	9,388	62,395	12,328
Slag	" 384,826	1,351	372,624	1,467
All other materials and components used ¹ .....	...	13,474	...	13,105
2. Containers and other packaging materials and supplies used ¹ .....	...	297	...	343
3. Operating, maintenance and repair supplies used (excluding fuel) .....	...	6,383	...	7,044
4. Amount paid out to others for work done on materials owned by establishments .....	...	575	...	543
Totals .....	...	57,666	...	65,552

¹ No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$5,418,537 in 1963 and \$5,405,114 in 1964.

TABLE 13. Shipments of Goods of Own Manufacture, 1963 and 1964

Description	1963		1964	
	Quantity	Value \$'000	Quantity	Value \$'000
1. Products:				
Concrete bricks	M 116,940	4,073	110,262	3,882
Concrete blocks:				
Cinder	M 5,422	1,271	3,690	852
Gravel	M 154,339	32,947	152,502	33,436
Other aggregates (expanded shale, expanded slag, etc.)	M 36,303	10,028	36,774	10,727
Concrete chimney blocks	M 680	477	783	489
Concrete burial vaults	No. 16,023	633	11,188	521
Concrete pipe (sewer, water, drain) and culvert tile .....	..	27,479	..	35,861
Artificial stone .....	..	8,668	..	9,448
Concrete laundry tubs	No. 49,624	572	55,792	648
Ready-mixed concrete	cu. yd. 728,582	9,098	754,238	10,347
Other precast products (products for structural purposes such as columns, beams, tees, slabs, joists, piles, girders, decking, etc., both reinforced precast and precast-prestressed) .....	..	23,681,000	..	35,499,000
Sand-lime products:				
Sand-lime brick	M 65,970 ^F	1,928	79,878	2,406
Sand-lime blocks	-	-	-	-
All other products .....	...	14,256	...	14,099
2. Amounts received in payments for work done on materials and products owned by others .....	...	409	...	926
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above .....	...	(1,666)	...	(1,341)
Net adjustment for establishments receiving progress payments .....	...	(6)	...	-
Totals, adjusted value of shipments and work done .....	...	133,845	...	157,802

Note: Data given in the above table are for the industry Concrete Products Manufacturers, which includes only the firms making these products as a major line. Items shown above were also made by firms classified to the industry, Ready-Mix Concrete Manufacturers. For total figures for selected items, see Tables 14 A and B.

TABLE 14. Shipments of Selected Goods of Own Manufacture - All Industries
(Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed)

A. Principal Concrete Products, 1955 - 64

Year	Ready mixed concrete	Concrete building blocks ¹			Concrete pipe, (sewer, water, drain) and culvert tile	Concrete bricks	Artificial stone
		Cinder	Gravel	Other aggregates			
\$'000							
1955	58,918	3,837	24,612	3,876	18,154	5,855	4,204
1956	75,907	3,668	24,325	5,702	18,761	5,253	4,608
1957	82,756	3,237	24,492	5,507	18,967	4,692	4,592
1958	91,362	3,342	29,163	5,809	24,245	6,944	5,514
1959	99,927	2,485	30,148	7,195	28,014	6,175	7,965
1960	102,976	1,502	27,449	8,234	27,110	5,000	7,389
1961	107,241	2,476	29,158	9,083	25,617	5,277	6,897
1962	134,077	2,766	31,898	10,231	28,063	5,097	9,825
1963	149,768	1,405	34,079	10,323	28,459	4,218	8,668
1964	181,553	956	34,525	11,059	37,019	4,081	9,723

B. Principal Concrete Products, by Provinces, 1964

Products		Quebec	Ontario	Alberta	British Columbia	Other provinces	Canada
Concrete bricks ¹	M	39,941	51,810	889	13,537	7,247	113,424
	\$	1,109,381	2,073,642	32,318	537,600	327,628	4,080,569
Concrete blocks: ¹ Gravel	No.	38,085,989	97,980,916	3,079,782	6,430,228	11,514,970	157,091,885
	\$	6,638,304	22,903,561	725,057	1,559,798	2,698,349	34,525,069
Cinder	No.	248,505	3,207,586	338,281	72,294	195,090	4,061,756
	\$	49,243	741,077	92,892	21,274	51,973	956,459
Other aggregates	No.	2,083,329	19,905,879	9,194,440	2,809,943	3,816,368	37,809,959
	\$	694,171	5,660,466	2,838,855	814,793	1,050,915	11,059,200
Concrete pipe (sewer, water, drain) and culvert tile	\$	15,057,288	13,107,263	3,196,164	2,531,631	3,126,842	37,019,188
Concrete, ready-mixed	cu. yd.	4,809,394	5,690,525	1,121,176	1,091,556	1,231,171	13,943,822
	\$	60,114,992	73,950,738	14,547,239	15,107,178	17,832,990	181,553,137

¹ Starting in 1960, firms were asked to report bricks in terms of "single brick equivalent" and blocks in terms of "8 inch block equivalent". For earlier years these products were not so defined and, therefore, quantity data for 1960 and subsequent years may not be exactly comparable with prior years.

List of Establishments classified to This Industry, 1964

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

Name	Location
Newfoundland:	
Dalley's Concrete Products Ltd.	Stephensville
Dawe's Concrete Products Ltd.	St. John's
Lundrigan's Concrete Ltd.	Riverside Dr., Corner Brook
Wiseman, C.	Shoal Harbour
Prince Edward Island:	
Island Brickcrete Products Ltd., The	149 North River Rd., Charlottetown
MacLeans Concrete Blocks & Tile	Montague
P.E.I. Concrete Products Ltd.	Pope Rd., Summerside
Nova Scotia:	
Bower, John C.	Lower Ohio
Chute, L.M. and D.L., Ltd.	Berwick
Everett, Clyde Ltd.	R.R. No. 3, Bridgetown
Freeman's Concrete Products	Main St., New Germany
Kentville Concrete Products Ltd.	205 Brooklyn St., Kentville
Lakee Echo Concrete Products	Porter's Lake, Halifax
Nova Stone Ltd.	Burnside, Dartmouth
Oakes Precast Concrete Co.	Waverley
Purney, Trefry	Arcadia
Ritchie's Ornamental Concrete	Bedford
Shaw, L.E., Ltd.	Dartmouth
Shaw, L.E., Ltd.	Prince St., Sydney
Walker, F.C., Ltd.	Aylesford
New Brunswick:	
Atlantic Concrete Products Ltd.	195 Main St., Bathurst
Belliveau, Camille	Shediac
Concrete Products Ltd.	161 Robinson St., Moncton
Dundee Cement Products Ltd.	Dundee
Frits, Henry Concrete Blocks Works	Hillstream, Apohaqui R.R. No. 2
Landry, Jean Paul	Ste-Anne-du-Bocage
McLaughlin Concrete Products Ltd.	Tracadie
Malanson, L., Concrete Products Co. Ltd.	St. Anselme
Miranichi Concrete Products	Chatham Head
Pelletier, Alphonse Esq.	St-Basile
Shaw, L.E., Ltd.	Coldbrook
Stresscon Ltd.	406 Chesley St., Saint John
Trappist Fathers of Rogersville	North Rogersville
Wilson Concrete Pipe Ltd.	Red Bank
Quebec:	
Ace Artificial Stone Co. Ltd.	7470-18th Ave., St-Michel
All Con Precast Products Ltd.	50 Laflamme St., St-Jérôme
Arco Stone Co. Ltd.	2565 Bélanger St., Montréal
Artl-Rock	10171 Hébert St., Montreal-Nord
Artistic Stone Enr.	Sept-Îles
Audet, Gérard	Notre-Dame-du-Bon-Conseil
Beaudry, H., Bloc de Ciment Co. Ltée	3631 de La Concorde St., St-Vincent-de-Paul
Beaulieu, J. Armour	125 Chartrand St., Terrebonne
Beaulieu, Rosaire	Sully
Bégin, Bertrand	Dupuy
Bélanger, J. Almé	Rivière-Bleue
Belgo Stone	5325 Papineau St., Montréal
Bergeron, Emile	St-Ambroise
Besner et Frère	Vaudreuil
Béton Moderne Ltée	7825 Brouillette St., St-Hyacinthe
Béton Provincial Ltée	Matane
Béton Provincial (Hauterive) Ltd.	Rue Industrielle, Hauterive
Béton Vibré Ltée	1200 Récollets Blvd., Trois-Rivières
Bisson Construction Inc.	Grande Rivière
Blocs de Ciment Audet Enr.	Rivière-Malbaie
Blocs de Ciment Enr.	167 Dubé St., Laurierville
Blocs de Ciment Montmagny Enr.	Montmagny
Bolsclair et Frère	Piedmont
Bolduc, Aimé et Fils Inc.	St-Marie
Boudreault, Jean-Claude	La Tuque
Bourcier, Bernard	184, boul. Herbert, Melocheville
Bourgón et Bourgón	St-Polycarpe
Boyer, Hervé	Piedmont
Brouillette, L.A.	St-Narcisse
Brucy Stone Enr.	Île-Perrot
Brunet, R., Concrete Ltd.	330 Langlois Blvd., Valleyfield
Cal-Sil Products Ltd.	2920 Marie-Victorin Blvd., Jacques-Cartier
Canada Iron Foundries Ltd. (Pipe Divn.)	6905 Clanranald Ave., Montreal
Cap Stone	1525 des Laurentides Blvd., Chomedey
Casabon, P.L. Inc.	Ste-Élizabeth
Castonguay, L., Enr.	St-Edouard
Chartier, Léo	331 Ruisseau St-Pierre, Joliette
Chicoine et Frères	229 Principale St., St-Dominique
Ciment L.L. Inc.	St-Grégoire
Ciment Michaud et Bédard Ltée	Malartic
Cimenterie Sept-Îles Ltée	Sept-Îles
Ciment Vibré Maniwaki	63 de la Montagne St., Maniwaki

List of Establishments classified to This Industry, 1964 - Continued

Name	Locations
Quebec - Continued:	
Collinsville Artificial Stone	980 Panneton St., Sherbrooke
Compagnie Miron Ltée. (Produits en Béton)	2201 Jarry St. E., St-Michel
Compagnie Montco Ltée	9821, rue Louzanne, Montreal-Nord
Compagnie Simard Beauty Ltée	4297, Rang St-Elzéar, Duvernay
Concrete Laundry Tub Ltée	105 Union St., St-Pierre
Côté, Mme, Emilio & Fils	990 Goupil St., Drummondville-Sud
Côte, Valeri, Inc.	90 Dorchester St. S., Québec
Coupal, Gérard	Bréboeuf
Couture, Joseph	St-Henri
Creaghan and Archibald Ltd.	13838 Notre-Dame St. E., Pointe-aux-Trembles
Delco Stone Ltée	40 Greber Blvd., Pointe-Gatineau
Désormeaux, R. et R., Enr.	Lesage
Dilco Concrete Products Ltd.	8180 Hochelaga St., Montréal
Domaine d'Art et de Sculpture Inc.	1424 Pie IX Blvd., Montréal
Domtar Construction Materials Ltd. (Gypsum Divn.)	1595 St-Grégoire St., Montréal
Domtar Construction Materials Ltd. (Siporex Divn.)	Delson
Dorion Brique Inc.	Dorion
Doyon et Fils Enr.	Beauceville-West
Dunbrick Limitée	596 Price St., Chicoutimi
Enterprises Drouin Enr.	St-Georges-Est
Enterprises Kelvo	Hauterive
Flintkote Co. of Canada Ltd. (Van Packer Divn., The)	365 Broadway St., Montreal
Florida Patio & Ornaments	St-Basile-le-Grand
Gagnon Eléar	9, rue Jean-Roux, Trois-Pistoles
Gaudreault, Mathilda	Mistassini
Gauthier, Wilfrid	Hemingford
Gendron, P.A., Inc.	165 Laurier Blvd., Ste-Rosalie
Genest, Emile, Esq.	St-Basile
Geoffrioo, Aimé, Enr.	Ste-Julienne
Giacomo Stone Mfg. Co. Ltd.	2222 Charland St., Montreal
Gosselin et Fils Ltée	70 Smith Blvd. N., Thetford Mines
Grant Concrete Products Inc.	Douglstown
Gratton, Maxima	Val Quesnel
Grenon Frères Ltée	Bagotville
Hochelaga Pre-cast Structures Ltd.	39 Westminister Ave. S., Montreal South
Hy-Grade Concrete Blocks Reg'd.	10 Monk St., Longueuil
Industrie Notre-Dame	8445 Notre-Dame St. E., Montreal
Jean et Frère Enr.	6132-18th Ave., Shawinigan
Jetté, C.H. Inc.	380, boul. Industrie, Joliette
Jiona, A.T. Inc.	New Carlisle
Johnson, A., Co. (Canada) Ltd.	1255 Laird Blvd., Montreal
Joliette Brique Ltd.	147 Coulombe Ave., Joliette
Jutras, Conrad Inc.	Notre-Dame-du-Bon-Conseil
Jutras et Frère Ltée	R.R. No. 4, Granby
Labelle, Léo	Ferme-Neuve
La Brique du Nord Ltée	1074 Larivière St., Rouyn
La Cie des Produits Ciment de St-Jérôme Ltée	Parent Ave., St-Jérôme
Lambert, Géo, Inc.	1000 Normand Blvd., Trois-Rivières
Lamoureux, Normand	1220, rue Maisonneuve, Magog
La Pierre Artificielle de l'Abitibi Enr.	Taschereau
Lavoie Concrete Block Reg'd.	Sept-Îles
Leblanc et Frénette Enr.	9635-28th Ave., Rivière-des-Prairies
Le Bloc Vibré Inc.	1080 Panneton St., Sherbrooke
Le Ciment Barraute Ltée	Barraute
Leclerc, Raymond	Pont-Rouge
Légaré, Victorin	Dupuy
Lemaire, C.E.	2195 Mercure Blvd., Drummondville-Sud
Les Bétons Centrifuges Ltée	3125, Montée St-Charles, Kirkland
Les Blocs Laurentiens	Lafontaine
Les Entreprises Frontenac Enr.	Wolburn
Les Industries Ciment Orléans Ltée	81 rue des Érables, St-Émile-de-Québec
Les Industries de Ciment Enr.	La Guadeloupe
Les Industries de Tuyaux de Québec Enr.	1702 St-Vallier St. W., Duberger
Les Industries Portier Ltée	140 Commercial St., St-Henri
Les Produits Ciment de l'Annonciation	L'Annonciation
Les Produits Ciment Dorion Inc.	190, rue Valois, Dorion
Les Produits de Béton Inc.	Pointe-au-Père
Les Produits de Ciment de Barnston Enr.	Barnston
Les Produits de Ciment de Sherbrooke Ltée	1376 Bourlase St., Sherbrooke
Les Produits de Ciment de Windsor Enr.	Windsor
Les Produits de Ciment du Lac St-Jean Ltée	Métabetchouan
Les Produits de Ciment du Saguenay Ltée	Talbot Blvd., Chicoutimi
Les Produits de Ciment St-Maurice Ltée	1030 Viger St., Trois-Rivières
Les Produits de Ciment Tremblay Inc.	231, rue Missisquoi, Iberville
Les Spécialités de Tuyaux de Montmagny Enr.	Montmagny
Les Tuyaux de Béton Mauricien Inc.	Prouxville
Les Tuyaux de Ciment de l'Islet Enr.	L'Islet
Les Tuyaux Vibrés de Portneuf Enr.	St-Casimir
Les Tuyaux Vibrés Inc.	75 Dorchester St. S., Québec
Letendre Fernand Inc.	103 St-Denis St., Drummondville
Lord, Jean-Paul	1493-66th St., Shawinigan
Marble and Stone Products Ltd.	5255, Rang Nord, Montée Pincourt, Terrebonne
Marble Ornamental Enr.	7155 Waverly St., Montreal
Marois, Hubert Enr.	St-Etienne-de-Lauzon
Martin et Fils Inc.	7190 Chambly Rd., St-Hubert
Martineau, Maurice	Dosquet
Mélancon et Fils Inc.	500 des Hêtres St., Grand'Mère
Metro Block. Inc.	700, boul. Lajeunesse, St-Jérôme
Monarch Stone Mfg. Co. Ltd.	2205 Charland St., Montréal
Montreal Art Stone	St-Vincent-de-Paul
Morin, M. Adélard	St-Fabien
Mosaikebec Inc.	103 de La Vêrendrye St., Québec

List of Establishments classified to This Industry, 1964 - Continued

Name	Location
Quebec - Concluded:	
Muro Stone Ltd.	10100, Hôtel-de-Ville St., Montréal-Nord
National Cut and Precast Stone (Québec) Ltd.	10459 Bellevois St., Montréal-Nord
New Stone Co.	789 Préfontaine St., Montréal-South
Noiseux, Réjean	Dunham
Pagé, J.M., et Frère Inc.	Charlesbourg-Ouest
Pelchat, F.X. et Fils Inc.	Aclon Vale
Pelletier et Fils	St-Pacôme
Permaçon Inc.	117 Principale St., Châteauguay
Perma-Crete Building Products	South Bolton
Perron, Gérard	18 St-Edouard St., Baie-St-Paul
Petit, L.P.	Granby
Pétrin, et Frère Inc.	305 Gouin Blvd., Saint-Jean
Pierre Artificielle Drummond Enr.	106-9th Ave., Drummondville
Pierrefonds Stones Reg'd.	Pierrefonds
Porete Co. (Canada) Ltd.	9500 St. Lawrence Blvd., Montréal
Portier Frères Ltée	8645 Casgrain St., Montréal
Prefac Concrete Co. Ltd.	10520 Drapeau St., Montréal-North
Produits Béton St-Fabien Enr.	14-7th. Ave., St-Fabien
Produits Ciment St-Eustache Enr.	34 Sauvé Blvd., St-Eustache
Produits de Ciment Couillard Ltée	340 Merrill St., Coaticook
Produits de Ciment Économiques Ltée	975 Pacific St., Lachine
Produits de Ciment Leclerc Ltée	St-Félicien
Proulx, Roméo, Esq.	St-Polycarpe
Rainville, M. Albert	91 Papineau St., Joliette
Rawdon Cement Works Co.	Rawdon
Robitaille, Alfred	Shawinigan-Sud
Robitaille, Edouard, Inc.	675-122nd St., Shawinigan-South
Rodrique, Construction	Lac-Mégantic
Roy, Louis	Victoriaville
St-Germain, J.A., Inc.	2737 Mackay St., Lafleche
St-Louis, Mme J.R.	Ste-Ursule
St-Pierre, J.B., et Fils Inc.	26 St-Jacques St., Rimouski
Sarazin, Lucien, Enr.	1203 Thibeau St., Cap-de-la-Madeleine
Sayabec Ciment Enr.	Sayabec
Security Chimneys Inc.	2205 Charland St., Montréal
Shawnee Precast (Montréal) Ltd.	8210 Lafrenale St., St-Léonard
Sicity Reg'd.	8025 Dante St., St-Michel
Silbeton Ltée	31 Giraud St., Marieville
Silicaciment Inc.	3667, boul. Hamel, Les Saules
Soucy et Lécuyer Ltée	St-Rémi
Soulières, David	Crabtree Mills
Spancrete Limited	2914 Marie-Victorin Blvd., Jacques-Cartier
Théberge, Paul	St-Fabien
Théoret, René	152, 1st Ave., St-Eustache
Tremblay, et Frère Enr.	Iberville
Trottier, Jude	Victoriaville
Trudel, Alban	St-Séverin-de-Proulxville
Turcotte, J.M.	Trois-Pistoles
Tuyauterie Beauvillage Enr.	Beauvillage
Tuyaux Bellechasse Enr.	St-Raphaël
Tuyaux Béton Dollard des Ormeaux Enr.	4380, Montée St-Rémi, Dollard-des-Ormeaux
Tuyaux Ciment Sherbrooke Inc.	Boul. Queen Nord, Sherbrooke
Universal Building Products Ltd.	1627 Notre Dame St. W., Montreal 13
Valleyfield Ornamental Stone	Rang Double, Valleyfield
Valois Stone	3830 Ontario St., Montréal
Variety Stone Enr.	376, Chemin Chambly, Longueuil
Vibrapipe Concrete Products	1385 Laurentides Blvd., Vimont
Whlssel, A.D.	Lachute
Ontario:	
A.B.C. Structural Concrete Ltd.	R.R. No. 1, Brampton
Anderson Block and Tile Ltd.	808 Fort William Rd., Port Arthur
Angelstone Ltd.	Preston
Aristocrat Manufacturing Co. Ltd., The	77 Pelham Ave., Toronto
Artex Concrete Ltd.	34 Maple Ave., Richvale
Atlas Block Co. Ltd.	11 Richview, Islington
Babcock Supply Co.	Wallaceburg
Babiuk Maurice Ltd.	Woodbridge
B and B Stone Ltd.	859 Fort William Rd., Port Arthur
Bancroft Concrete Products Ltd.	Bancroft
Barber Building Blocks Ltd.	167 Inkerman St., Guelph
Barnett D., and Co.	298 Lawrence Ave., Kitchener
Barratt Spun Concrete Pole Ltd.	536 Montrose Rd., Niagara Falls
Bass Lake Block and Tile	R.R. No. 2, Orillia
Beamsville Block Ltd.	Beamsville
Beer Precast Concrete Ltd.	110 Manville Rd., Scarborough
Belleville Brick Co. Ltd.	Cannifton Rd., Belleville
Belton Lumber Co. Ltd.	166 Devine St., Sarnia
Berg and Dam Concrete Products	968 Exmouth St., Sarnia
Bestpipe Ltd.	245 Strassburg Rd., Kitchener
Bethel, A., and Son Ltd.	1600 Lapérière Ave., Ottawa
Bishop, H., and Sons	7 Woodworth Ave., St. Thomas
Boyd Bros.	Osgoode
Brampton Pre-Cast Concrete	82 Railroad St., Brampton
Brans Concrete Blocks	24 Savoy Ave., Toronto
Brantford Brick Ltd.	40 Charlton Ave., Brantford
Brantford Builders Supplies Ltd.	Brantford
Brickcrete and Masonry Products	St. Joachims
Brooklin Concrete Products Ltd.	Brooklin
Brooklin Concrete Products Ltd.	Newmarket
Brown's Concrete Products Ltd.	750 Long Lake Rd., Sudbury

List of Establishments classified to this Industry, 1964 - Continued

Name	Location
Ontario - Continued:	
Brunskill, William, Well Tile	16 Tait St., Huntsville
Burgess Builders Supply Ltd.	819-3rd St., Lakeview
Burlington Builders Supply Ltd.	1167 Petit Rd., Burlington
Canada Building Materials (London) Ltd.	1201 Brydges St., London
Canada Iron Foundries (Pipe Division)	60 Vulcan St., Rexdale
Canada Iron Foundries Ltd.	Scarborough
Canada Silo Co. Ltd.	Ingersoll
Canton, H., and Son	Wyoming
Capital Concrete Products Ltd.	Iroquois
Caswell Concrete Products	R.R. 2, Sault Ste-Marie
Central Precast Products Ltd.	Commercial Ave., Ottawa
Century Concrete Products Ltd.	Halsey Ave., Toronto
Checko, K. Cement Blocks	292 Dean St., Oshawa
Churchill Bros.	Keswick
Coldstream Concrete Products	Ilderton
Concrete Pipe Ltd.	Huron & Clarke Side Rd., London
Concrete Pipe Ltd.	940 Caledonia Rd., Toronto
Concrete Products	460-7th St. W., Cornwall
Con-Lite Products	37 John St., Cooksville
Consteel Concrete Steps Ltd.	1260 Dupont St., Toronto
Cooke, J., Concrete Blocks	Burlington
Cooper Block Ltd.	4824 Yonge St., Willowdale
Cope, A., and Sons Ltd.	Bartonville
Crawford, Stanley (Concrete Blocks) Ltd.	754 King St. W., Hamilton
Cursio, M., and Son	4173 Dundas St. W., Toronto
Day and Campbell Ltd.	1074 Upper Wellington St., Hamilton
Dellow, S.H., Ltd.	3054 Mavis Rd., Cooksville
Del Zotto Brothers Ltd.	1039 Belfast Rd., Ottawa
Diamond Stone & Precast	Baysville
Dionne Concrete Products Ltd.	Earlton
Domtar Construction Materials Ltd. (Siporex)	Scarborough
Doughty Concrete Products Ltd.	Chemong Rd., Peterborough
Duracan Precast Industries Ltd.	Box 248, Cooksville
Durisol Materials Ltd.	200 Glendale Ave., Hamilton
D.W.S. Concrete Products Ltd.	109 Niagara St., Toronto
Eagle Stone Co.	R.R. 1, Milliker
Eisinga, S.J. & Co.	20 John St., Lindsay
Elgin Block and Cement Products Ltd.	1253 Talbot St. E., St. Thomas
Emcrete Cement Products	227 Huron St., Clinton
Erie Concrete Products Ltd.	R.R. No. 9, London
Erin Tile Works	Erin
Fledco Concrete Pipe Ltd.	Monarch Ave., Ajax
Fleming Block and Supply Ltd.	4100 Cawthra Rd., Cooksville
Fonthill Concrete Products Ltd.	Fonthill
Forgie, J.L., and Sons	200 Hinc's Ave. E., Renfrew
Frankford Concrete Pipe	Frankford
Fraser Duntile Co. Ltd.	Westboro
Gadshill Concrete	Gadshill
General Concrete Ltd.	P.O. Box 46, Stn. C, Hamilton
Grover Cast Stone	Gormley
Hafner, A., Cement Products	400 Mill St., Kitchener
Hagersville Concrete Tile Manufacturer	75 Main St., Hagersville
Hamilton Cement Products & Supplies	697 Parkdale Ave. N., Hamilton
Hallman Silo Co.	R.R. No. 3, Kitchener
Hambly Concrete Products Ltd.	81 William St. W., Oshawa
Hamilton Pre-Cast Stone Co.	2415 Barton St. E., Hamilton
H. & K. Concrete Specialties Ltd.	135 Tollgate Rd., Brantford
Harbour Brick Co. Ltd.	135 St. Clair Ave. W., Toronto
Hayley, Harry, and Sons Ltd.	Hurdman Rd., Ottawa
Henderson Concrete Products Ltd.	1089 Nelson St., Oshawa
Hill, Harold H., Esq.	Essex
Hince Concrete Products Ltd.	22 Spring St., Picton
Hoffman Concrete Products Ltd.	Pembroke
Huron Building Products Ltd.	103 Dufferin St., Orillia
Hutchins, C., and Son	10 Foundry St., Leamington
Hy-Grade Concrete Co.	290 Glendale Ave., St. Catharines
Ideal Cement Block Co. Ltd.	Hearst
Industrial Cast Stone	Thornhill
International Block Co.	Fort Frances
Jason Manufacturing Co. Ltd.	Beamsville
Kap Cement Works Ltd.	Kapuskasing
Kitchener Concrete Block Co.	151 Louisa St., Kitchener
Kitchener Silo Co. Ltd.	Kitchener
Laird's Concrete Products	Dorchester
Lakefield Concrete Tile	Lakefield
Lakeshore Block Co. Ltd.	Lakeview
Lakeview Cement Products Ltd.	1115 Peoples Rd., Sault Ste. Marie
Lars Concrete Products Co.	210 Christie St., Toronto
Leaside Block and Tile Ltd.	8 Industrial St., Toronto
Leblond, Fred, Window Sills	1337 St-Laurent Blvd., Ottawa
Leiden's Superior Concrete Burial Vault Works	Fenwick
Lifestore Stone	2709 Montrose, Niagara Falls
Lockhart, Wallace	Fingal
London Pre-Cast Products Ltd.	103 Falcon St., London
Lucas Concrete Products Ltd.	R.R. No. 8, London
Lucier Drainage Supplies Ltd.	McGregor
MacDowell Cement Products Ltd.	Brockville
Macoun Silos Ltd.	Campbellford
MacVicar, Russell, Limited	9 Ivan St., Leamington
Maple Leaf Cement Works Co. Ltd.	21 A. Denison Rd. E., Weston
Maple Precast Concrete	Maple
Marker, Gus Block & Tile Ltd.	725 Division St., Kingston

List of Establishments classified to This Industry, 1963 - Continued

Name	Location
Ontario - Continued:	
Mor-Vel Concrete & Tile Prod. Ltd.	Clarkson
Marvelstone	97 Cambridge St., Lindsay
Master Brick Ltd.	175 Cedar Ave., Richmond Hill
McCord, S. & Co. Ltd.	611 King St. E., Toronto 2
McGinnis Building Block Co. Ltd.	1771 Eagle St., Preston
Meteor Building Supplies Ltd.	1241 Kennedy Rd., Scarborough
Mike's Well Tile	520 Dublin St., Port Arthur
Modern Stone Co.	North Queen St. E., Toronto
Moose Creek Cement Products	Moose Creek
Muskoka Concrete and Block	Utterson
National Concrete Products Ltd.	P.O. Box 18, Oakville
National Masonry Co. Ltd.	Renforth Dr., Rexdale
Newcastle Cement Block Co.	Newcastel
Newtonbrook Block and Supply Co. Ltd.	90 Ahlthi Ave., Willowdale
Niagara Block Co.	938 Montrose Rd., Niagara Falls
Niagara Drain Tile	Ridgeway
Nickel Belt Cement Products Ltd.	134 Douglas St. W., Sudbury
Normandin, G.L.	Lombardy
North Bay Const. Products Ltd.	P.O. Box 494, North Bay
Northern Block and Building Supply Co.	77 River St., Parry Scund
Oaks, J.D., and Son Ltd.	351 Elizabeth St., Guelph
Oakville Concrete Products	3019 Triller St., Oakville
Ontario Block and Tile Ltd.	Sunderland
Ontario Building Materials Ltd.	5 Grand Ave., Toronto
Ontario-Stress-Concrete Ltd.	840 Walker's Line, Burlington
Ormsby Concrete Products Limited	Meaford
Ornamental Concrete Industries	795 Kent St., Niagara Falls
Oxford Silo and Concrete Products	Ingersoll
Paris Dunbrick Co. Ltd.	Paris
Parnell, L.O.	102 Riverside Dr., Timmins
Parry Bros. Concrete Products	R.R. No. 1, Port Perry
Patterson Concrete Products Ltd.	181 Hillendale Ave., Kingston
Peel Block Co. Ltd.	10 Side Rd., Brampton
Perfect Stone Co. Ltd.	Malton
Pink, C.J., and Son Ltd.	R.R. No. 8, London
Porter's Septic Tank Service	Lucknow
Precast Building Products Co.	190 Bridgeland St., Toronto
Pre Cast Septic Tanks	R.R. No. 1, Glen Meyer
Precast Tank and Vault Co. Ltd.	778 Laurentian Ave., North Bay
Precast Terrazo Tile Ltd.	Cornwall
Pre-con Murray Limited	Richvale
Prescott Concrete Vault Co.	Prescott
Primeau Argo Block Co. Ltd.	449 Hensall Circle, Cooksville
Primeau Argo Block Co. Ltd.	Markham
Rainbow Cement Products Ltd.	2231 Sudbury Junction Rd., Sudbury
Red Circle Concrete Products	11 Gilkinson St., Brantford
Roid, Archie	Glen Meyer
Reinke, Elmer A.	Eganville
Reliance Brick Co. Ltd.	3177 Hurontario Rd., Cooksville
Ren-Car Products Ltd.	15 Pharmacy Dr., Toronto
Richmond Stone Products	R.R. No. 1 Richmond Hill
Richvale Block Supply Co. Ltd.	9137 Yonge St., Thornhill
Risi Stone Mfg. Co. Ltd.	163 Cedar Ave., Richmond Hill
Royal Manufacture Co.	201 Weston Rd., Toronto
Ryan Builders Supplies (Windsor) Ltd.	210 Detroit St., Windsor
St. Jacobs Tile Yard	St. Jacob
Sandrin, Precast Ltd.	152 Toryork Dr., Weston
Sarnia Concrete Products	952 Murphy Rd., Sarnia
Saubie Colour Concrete Products	Massey
Sauvé, Dennis, and Sons Ltd.	Belle River
Scheel Industries Ltd.	Woodstock
Schulz Concrete Pipe Ltd.	479 Wendell Ave., Kitchener
Scott Products and Supplies Ltd.	Prince Charles Dr., Welland
Seaforth Sewer Tile Ltd.	R.R. No. 6, Brantford
Seal-Tite Concrete Burial Vault Co.	246 Scarlett Rd., Toronto
Shawnee Pre-Cast of Ottawa	Bells Corners
Shouldice Cement Products Ltd.	Shallow Lake
Simcoe Block Co. Ltd.	113 Tiffin St., Barrie
Simfar Building Products	Chemong Rd., Peterborough
Southern Concrete Products Ltd.	100 Park Lane, Chatham
Spun Concrete Structures (Canada) Ltd.	Brampton
Standard Prestressed Structures Ltd.	Maple
Star Stone Products Ltd.	First St. S., St. Catharines
Stormont Concrete	Cornwall
Storror Dunbrick Ltd.	North Simcoe St., Osbawa
Storror Dunbrick Ltd.	1070 Kipling Ave. N., Rexdale
Superior Concrete Products (London) Ltd.	Lambeth
Superior Vault Co. Ltd.	P.O. Box 202, Islington
Taylor Interlocking Concrete Products	Madoc
Terra Tile of Canada Ltd.	Belmont
Trenton Concrete Products	Trenton
Twin City Dunbrick Co. Ltd.	158 McArthur Rd., Eastview
United Concrete Products Ltd.	566 D'Arcy St., Cobourg
Unit Precast Specialties Ltd.	Bells Corners
Unit Step of Kitchener Ltd.	Victoria St. W., Kitchener
Ureai, Wm. Precast Cement Products	R.R. No. 8, London
Uxbridge Concrete Products	69 King St., Uxbridge
Vars Concrete Products	Vars
Watson Concrete Products Ltd.	252 Patterson Ave., Chatham
Waver Concrete Products Ltd.	R.R. No. 1, Cooksville
Weber, R & P Concrete Products Ltd.	R.R. No. 2, Breslau
Westlake, Habefer Concrete Products	Zurich

List of Establishments classified to This Industry, 1964 - Continued

Name	Location
Ontario - Concluded:	
Weston Concrete	Wallacetown
Wice Concrete Products	Barrie
Wilkinson, W.E.	Bridgeview
Wilson Concrete Products Ltd.	Wilson Ave., Belleville
Wilson's Concrete Products	Queen st., Omenee
Winona Concrete Products and Plastering Co.	489 Main St. W., Grimsby
Wright, J. M., Ltd.	107 Shirriff Ave., North Bay
Wyevale Cement Block	Wyevale
Manitoba:	
Barkman Manufacturing Ltd.	Steinbach
Bergen Concrete Works	McPhillips St., Winnipeg
Dick's Concrete Products	61 Burnett Ave., Winnipeg
Duracrete Building Products Ltd.	501 Pacific Ave., Brandon
Goossen, Elmer	787 St. Joseph St., St. Boniface
Halls Associates Mfg. Ltd.	675 Berry St., Winnipeg
Kildonan Concrete Products Ltd.	600 Jamieson Ave., Winnipeg
Kruger, P. Concrete Products	835 Mission St., St. Boniface
Larch Concrete Products, Ltd.	Gateway Rd., Winnipeg
Lee Burial Vault Co., Ltd. (The)	Headingley
Lok-a-Blok Supplies Brandon, Ltd.	2506 Southern Ave., Brandon
Perma-Crete Mfg. Co. Ltd.	Clanwilliam
Pressure-Crete Ltd.	8491 Portage Ave., Winnipeg
Pugh Concrete Products	Gladstone
Quigley's Cement Works	Ashville
R and D Concrete Products	224 Emerson Ave., Winnipeg
Rusti-Krete of Canada Ltd.	2043 Logan Ave., Winnipeg
Sifton Concrete Works	Sifton
Sleinhagen Vaults Ltd.	1213 Fife St., Winnipeg
Supercrete Ltd.	222 Provencher Ave., St. Boniface
Trevi-Tile Company	1500 Wall St., Winnipeg
Washington Drain Tile	671 Washington Ave., Winnipeg
Saskatchewan:	
Apex Concrete Products	1208 Central Ave., Saskatoon
B and M Concrete Products	605 Ave. S., Saskatoon
Cindercrete Block Mfg. Co.	Swift Current
Cindercrete Products Ltd.	Trans-Canada Highway E., Regina
Commeyne Concrete Products	Redvers
Concrete Drainage Pipe (Sask.) Ltd.	11th Ave. W., Saskatoon
Concrete Products Western Ltd.	5th Ave. & John St., Regina
Consolidated Industries Ltd.	Regina
Eastend Block Co. Ltd.	Eastend
Lloydminster Concrete Block and Pipe	Lloydminster
Mappin Concrete Products	45-9th St. N.W., Prince Albert
Nipawin Concrete Products Ltd.	Nipawin
Precast Concrete Co. Ltd.	950 Winnipeg St., Regina
Saskatoon Precast Concrete Ltd.	202-105 St., Saskatoon
Souris Valley Septic Tanks	Weyburn
Suburban Industries Limited	1211 Ave. S., Saskatoon
Surfastone Industries	Parkside
Weldon's Concrete Products	192D-11th St. W., Saskatoon
Weston Construction Products (1964) Ltd.	1801 Ontario Ave., Saskatoon
Yorkton Concrete Products Ltd.	Yorkton
Alberta:	
Alberta Dunbik Co. Ltd.	5230-1st St. S. W., Calgary
Al-type Blocks Ltd.	P.O. Box 2267, Edmonton
Ambler's Precast Concrete Slabs	12455-58th St., Edmonton
Chemolli, Agostino	715-17 St. N., Lethbridge
Concrete Drainage Pipe	6413-104 St., Edmonton
Con-Force Products Ltd.	Calgary
Con-Force Products Ltd.	130-125 Ave., Edmonton
Con-Force Products Ltd.	4th Ave. & 5th N., Lethbridge
Consolidated Concrete Ltd. (Block Division)	5440-1st St. S.E., Calgary
Consolidated Concrete Ltd.	P.O. Box 5026, Edmonton
Consolidated Concrete Ltd.	11459-149th St., Edmonton
Consolidated Concrete Ltd.	5th Ave. & 28th St. E., Lethbridge
Consolidated Concrete Ltd. (Pipe Division)	5440 1st St. S.E., Calgary
Consolidated Concrete Ltd.	4310-52nd Ave., Red Deer
Durable Cement Products Ltd.	13525 Fort Rd. Edmonton
Edmonton Concrete Block Co. Ltd.	7425-120th Ave., Edmonton
Fenrick Prestressed Concrete Ltd.	90 Ave. & 45 St., Edmonton
H.O. Concrete Supplies Ltd.	12203-134 Ave., Edmonton
Kimmitt Concrete Ltd.	1010-2nd Ave. N., Lethbridge
Kruger Concrete Products (Calgary) Ltd.	6229 Centre St. S., Calgary
Kruger, P. Concrete Products Ltd.	6131-97th St., Edmonton
Lloydminster Pre-Cast Septic Tanks	56th & 52nd St., Lloydminster
Loder's Lime (Alberta) Ltd.	5504-3rd St. S.E., Calgary
Mackie's Concrete (Grimshaw) Ltd.	Grimshaw
Mackie's Concrete Products Ltd.	10214-95th. Ave., Grand Prairie
Multiblock Construction of Canada Ltd.	5910-97th. St., Edmonton
National Concrete Block Co. Ltd.	14250-125th Ave., Edmonton
Nord Precast Concrete Ltd.	Lethbridge
Northwest Concrete	11505-99th St., Grand Prairie
Perma-Crete Precast	75th St. & 64th Ave., Edmonton
Proctor Concrete Products Ltd.	3620-15th St. S.E., Calgary
Ritz Construction Ltd.	6025-104th St., Edmonton
Stoy Cement Co. Ltd.	66 Ave. & 12 St. S. E., Calgary

List of Establishments classified to This Industry, 1964 - Concluded

Name	Location
Alberta - Concluded:	
St. Paul Concrete Products Ltd.	St. Paul
Superior Cement Works	Ponoka
Tex-Crete Cement Products	1502 - 2nd Ave. S., Lethbridge
Toews, Building Blox	Linden
Tru-Cast Step	45th St. & 90th Ave., Edmonton
Vanguard Concrete Products Ltd.	7625 - 127th Ave., Edmonton
Westcon Forming & Concrete Products Ltd.	1801 Ontario Ave., Saskatoon
Weston Block & Contracting	Westlock
British Columbia:	
Aldergrove Cement Tile Products	2437 South Jackman Rd. Aldergrove
Art Casting	3185 Quadra St., Victoria
Birchall Manufacturing	Dawson Creek
Brownsey, W.G., and Sons	Duncan
Canadian Colour Concrete Products	Cedar P.O.
Clearbrooke Tile Plant Co. Ltd.	Abbotsford
Columbia Concrete Products and Erectors Ltd.	1292 West Georgia St., Vancouver
Concrete Castings Ltd.	7261 Tubilee Ave., Burnaby
Courtenay Concrete Products Ltd.	Courtenay
Cowichan Concrete Pipe	Duncan
Dania Cement Products	Parson
Denstone Concrete Products Ltd.	976 Adair St., New Westminster
Dupont Cement Rings	Cobble Hill
Dura Pipe Co. Ltd.	11039 Bridge St., North Surrey
East Kootenay Block Co.	Cranbrook
Facemaster Block Co. Ltd.	1650 W 1st St., North Vancouver
Felix Salvage & Exchange Ltd.	North Surrey
Flint, C.W. (Jr.)	Salmon Arm
Graybar Precast Ltd.	230 Brunette St., New Westminster
Interior Cement Works and Construction Co. Ltd.	Grand Forks
Island Pre-Cast Concrete	Parksville
Johnny's Concrete Products	Charlie Lake
Kamloops Brick and Block Ltd.	Kamloops
Korpach Cement Products Co. Ltd.	154 Wellington St., Trail
Langley Concrete Tile Ltd.	Langley
Merritt Cement Block Ltd.	Box 406, Merritt
Mount Ida Concrete Products	Salmon Arm
Nanaimo River Cement Products Ltd.	Cedar
Northern Concrete Products Ltd.	269 Irwin St., Prince George
Ocean Cement Ltd. (2 plants)	Columbia St., Vancouver
Osoyoos Tile Works	Osoyoos
Pacific Brick and Block Ltd.	P.O. Box 187, New Westminster
Pleasance East Concrete Ltd.	22927 Lougheed Hwy., Honey
Prince George Concrete	Prince George
Progress Cement Block and Tile Co. Ltd.	248 Fill Ave., North Vancouver
Revelstoke Concrete Products Ltd.	Revelstoke
R and H Builders	Kamloops
Sanderson Cement Products Ltd.	Vancouver
Sasges Cement Products Ltd.	R.R. No. 2, Vernon
Smithers Concrete Products	Smithers
Southern Okanagan Concrete Prod.	Osoyoos
Superior Concrete Products, Ltd.	551 Seymour Blvd., North Vancouver
Tremblay Concrete Products Ltd.	Dawson Creek
Valley Concrete Products Ltd.	324 Windsor Ave., Penticton
Wallace, Stan	Burns Lake
West Cost Concrete Works	Alberni
Westone Construction Products Ltd.	1325 Kendall Cres., Penticton
Westone Construction Products Ltd.	Vernon
Williams Concrete Co.	1025 Pender St. E., Vancouver
Wilson Pumice Products Ltd.	1146 St. Paul St., Kelowna

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 56 (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 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 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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