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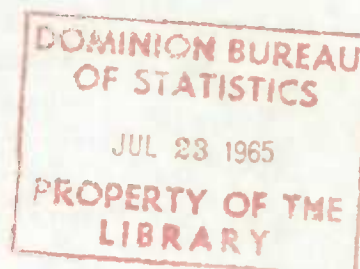
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ANNUAL



CONCRETE PRODUCTS MANUFACTURERS  
1962

ANNUAL CENSUS  
OF MANUFACTURES



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### 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.

## CONCRETE PRODUCTS MANUFACTURERS

1962

Data presented in this report under the heading of Concrete Products Manufacturers reflect implementation of the revised Standard Industrial Classification and the New Establishment Concept which are being used by the Dominion Bureau of Statistics in its compilations of industry statistics – see "Standard Industrial Classification" and "Establishment" in the Explanatory Notes section of this report.

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.

The combination of improvements in internal procedures with the introduction of the final stage of the Establishment Concept has produced changes which, for some industries, have required adjustments to industry statistical data. (See Explanatory Notes section for further details.) For this industry changes affecting manufacturing activity were of a minor nature.

**TABLE 1. Principal Statistics - Manufacturing Activity,<sup>1</sup> 1957-61**  
 Basis: Revised Standard Industrial Classification and New Establishment Concept<sup>2</sup>

Year	Estab- lish- ments	Employees						Cost of fuel and elec- tricity <sup>4</sup>	Cost of materials and supplies used <sup>4</sup>	Value of shipments of goods of own manu- facture <sup>4</sup>	Value added <sup>4</sup>
		Production and related workers <sup>4</sup>		Administrative and office employees <sup>3</sup>		Total <sup>4</sup>					
		Number	Wages	Number	Salaries	Number	Salaries and wages				
	No.		\$'000		\$'000			\$'000			
1957.....	547	5,096	15,569	1,573	6,549	6,669	22,118	2,855	30,277	76,505	..
1958.....	581	6,213	20,428	1,877	8,389	8,090	28,817	3,574	45,223	95,784	48,589
1959.....	576	6,622	23,139	1,887	8,760	8,509	31,899	3,644	43,341	109,274	65,101
1960.....	634	6,545	22,585	2,100	9,436	8,645	32,021	3,859	42,331	105,339	59,200
1961.....	616	6,402	22,565	1,937	8,894	8,339	31,460	3,614	44,445	111,871	65,266

See footnotes following Table 3 A.

**TABLE 1 A. Principal Statistics - Manufacturing Activity and Total Activity,<sup>1</sup> 1961 and 1962**  
 Basis: Revised Standard Industrial Classification and New Establishment Concept<sup>2</sup>

Year and province	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers <sup>4</sup>			Cost of fuel and elec- tricity <sup>5</sup>	Cost of materials and supplies used <sup>4</sup>	Value of shipments of goods of own manu- facture <sup>4</sup>	Value added <sup>4</sup>	Working owners and partners <sup>6</sup>		Total employees <sup>7</sup>		Total value added <sup>8</sup>
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000		\$'000				\$'000		\$'000		
<b>1961</b>													
Newfoundland.....	5	74	155	217	21	370	983	593	"	"	91	262	306
Prince Edward Island.....	4	22	46	46	6	92	221	130	"	"	26	62	132
Nova Scotia.....	13	86	170	230	28	603	1,040	463	7	17	104	287	488
New Brunswick.....	14	62	119	161	27	484	878	384	5	12	78	204	414
Quebec.....	218	1,875	4,210	6,059	807	12,308	28,566	16,005	130	324	2,332	8,072	16,226
Ontario.....	230	2,952	6,607	11,110	1,934	20,459	54,996	33,252	112	341	4,117	17,074	35,251
Manitoba.....	17	292	557	886	226	2,504	5,437	2,603	8	25	483	1,758	2,680
Saskatchewan.....	19	131	274	457	112	1,031	2,282	1,197	8	13	156	577	1,297
Alberta.....	48	569	1,215	2,096	253	4,202	11,796	7,386	5	8	750	3,050	7,532
British Columbia.....	49	293	600	1,318	189	2,268	5,637	3,487	23	50	366	1,628	3,548
<b>Totals.....</b>	<b>617</b>	<b>6,356</b>	<b>13,952</b>	<b>22,578</b>	<b>3,603</b>	<b>44,322</b>	<b>111,836</b>	<b>65,500</b>	<b>301</b>	<b>797</b>	<b>8,503</b>	<b>32,975</b>	<b>68,165</b>
<b>1962</b>													
Newfoundland.....	6	106	257	368	32	618	1,689	1,068	"	"	129	455	1,066
Prince Edward Island.....	4	21	42	43	8	85	203	105	"	"	26	64	122
Nova Scotia.....	17	67	147	206	28	545	1,112	513	7	15	86	278	536
New Brunswick.....	12	51	113	147	27	375	683	280	4	8	66	186	309
Quebec.....	203	1,908	4,281	6,606	864	13,219	31,529	17,430	141	377	2,310	8,513	17,690
Ontario.....	235	3,512	7,977	13,995	2,171	25,471	64,619	38,449	118	373	4,608	19,970	40,616
Manitoba.....	19	302	565	1,164	230	2,617	5,246	2,538	9	16	459	1,860	2,650
Saskatchewan.....	19	158	356	559	154	1,132	2,734	1,495	6	18	188	683	1,581
Alberta.....	53	733	1,649	2,935	268	6,324	15,980	9,580	16	37	947	3,984	9,598
British Columbia and Yukon.....	48	281	566	1,224	163	2,658	5,997	3,102	27	49	337	1,500	3,257
<b>Totals.....</b>	<b>816</b>	<b>7,139</b>	<b>15,953</b>	<b>27,248</b>	<b>3,946</b>	<b>53,043</b>	<b>129,792</b>	<b>74,560</b>	<b>331</b>	<b>900</b>	<b>9,156</b>	<b>37,492</b>	<b>77,424</b>

See Table 2 and footnotes following Table 3 A.



**TABLE 1 B. Principal Statistics classified by Size Groups based on Shipments of Goods of Own Manufacture, 1961 and 1962**  
Basis: Revised Standard Industrial Classification and New Establishment Concept<sup>2</sup>

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers <sup>4</sup>			Cost of fuel and elec- tricity <sup>5</sup>	Cost of materials and supplies used <sup>4</sup>	Value of shipments of goods of own manu- facture <sup>4</sup>	Value added <sup>4</sup>	Working owners and partners <sup>6</sup>		Total employees <sup>7</sup>		Total value added <sup>8</sup>
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
No.		'000			\$'000			\$'000		\$'000			
<b>1961</b>													
Under \$10,000	115	72	92	110	21	213	560	321	90	115	81	123	346
\$ 10,000 to \$ 24,999	108	208	354	477	74	643	1,807	1,091	83	216	252	580	1,169
25,000 "	98	368	652	928	144	1,403	3,688	2,241	64	223	458	1,223	2,496
50,000 "	92	558	1,125	1,595	256	2,538	6,834	4,151	45	157	738	2,241	4,455
100,000 "	89	872	1,869	2,855	470	5,444	12,931	7,453	18	76	1,162	4,094	7,725
200,000 "	59	1,125	2,575	3,910	676	8,025	19,173	11,149	1	10	1,497	5,767	11,664
500,000 "	29	1,155	2,628	4,152	654	8,346	20,327	11,501	-	-	1,482	5,839	12,055
1,000,000 "	27	1,998	4,656	8,550	1,309	17,709	46,514	27,592	-	-	2,803	12,923	28,265
5,000,000 and over	-	-	-	-	-	-	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units <sup>10</sup>	...	...	...	...	...	...	...	...	...	...	30	185	(10)
<b>Totals</b>	<b>617</b>	<b>6,356</b>	<b>13,952</b>	<b>22,578</b>	<b>3,603</b>	<b>44,322</b>	<b>111,836</b>	<b>65,500</b>	<b>301</b>	<b>797</b>	<b>8,503</b>	<b>32,975</b>	<b>68,165</b>
<b>1962</b>													
Under \$10,000	102	57	80	93	19	208	556	314	104	159	66	106	361
\$ 10,000 to \$ 24,999	98	172	306	408	58	613	1,649	988	90	245	208	495	1,105
25,000 "	99	331	638	902	136	1,342	3,547	2,098	80	260	403	1,122	2,249
50,000 "	92	558	1,122	1,653	229	2,475	6,620	3,958	45	175	731	2,291	4,206
100,000 "	88	845	1,819	2,794	495	4,874	12,453	7,092	10	50	1,084	3,906	7,561
200,000 "	78	1,335	3,017	4,852	828	11,082	24,386	13,197	2	11	1,709	6,751	13,704
500,000 "	27	1,054	2,425	3,897	717	7,304	18,647	10,772	-	-	1,314	5,509	11,024
1,000,000 "	32	2,787	6,545	12,647	1,463	25,144	61,934	36,142	-	-	3,637	17,287	37,214
5,000,000 and over	-	-	-	-	-	-	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units <sup>10</sup>	...	...	...	...	...	...	...	...	...	...	4	26	(2)
<b>Totals</b>	<b>616</b>	<b>7,139</b>	<b>15,953</b>	<b>27,246</b>	<b>3,946</b>	<b>53,043</b>	<b>129,792</b>	<b>74,560</b>	<b>331</b>	<b>900</b>	<b>9,156</b>	<b>37,492</b>	<b>77,424</b>

See footnotes following Table 3 A.

**TABLE 1 C. Principal Statistics classified by Size Groups based on Manufacturing Value Added, 1961 and 1962**  
Basis: Revised Standard Industrial Classification and New Establishment Concept<sup>2</sup>

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers <sup>4</sup>			Cost of fuel and elec- tricity <sup>5</sup>	Cost of materials and supplies used <sup>4</sup>	Value of shipments of goods of own manu- facture <sup>4</sup>	Value added <sup>4</sup>	Working owners and partners <sup>6</sup>		Total employees <sup>7</sup>		Total value added <sup>8</sup>
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
No.		'000			\$'000			\$'000		\$'000			
<b>1961</b>													
Under \$10,000	178	181	268	343	57	651	1,516	791	133	214	216	394	840
\$ 10,000 to \$ 24,999	116	344	616	866	150	1,322	3,421	1,969	89	288	423	1,116	2,201
25,000 "	92	487	912	1,336	228	2,567	6,023	3,349	52	177	651	1,878	3,652
50,000 "	101	936	2,013	2,943	451	5,518	12,801	7,170	25	103	1,205	4,114	7,466
100,000 "	54	608	1,826	2,864	517	5,724	13,827	7,831	2	15	1,102	4,303	6,417
200,000 "	45	1,460	3,185	4,848	792	9,361	24,074	14,501	-	-	1,774	6,964	15,020
500,000 "	19	998	2,236	4,109	656	9,820	23,173	13,027	-	-	1,332	5,996	13,523
1,000,000 "	12	1,242	2,896	5,269	753	9,357	27,001	16,861	-	-	1,770	8,025	17,056
5,000,000 and over	-	-	-	-	-	-	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units <sup>10</sup>	...	...	...	...	...	...	...	...	...	...	30	185	(10)
<b>Totals</b>	<b>617</b>	<b>6,356</b>	<b>13,952</b>	<b>22,578</b>	<b>3,603</b>	<b>44,322</b>	<b>111,836</b>	<b>65,500</b>	<b>301</b>	<b>797</b>	<b>8,503</b>	<b>32,975</b>	<b>68,165</b>
<b>1962</b>													
Under \$10,000	157	132	207	262	50	511	1,326	724	152	277	161	320	816
\$ 10,000 to \$ 24,999	134	414	793	1,096	190	1,723	4,279	2,331	112	340	509	1,395	2,721
25,000 "	76	416	848	1,204	193	2,254	5,174	2,786	38	143	548	1,695	2,943
50,000 "	107	923	1,961	3,047	517	5,732	13,728	7,484	28	136	1,195	4,280	8,011
100,000 "	56	797	1,782	2,824	465	6,270	14,058	7,648	1	5	1,026	4,012	7,866
200,000 "	48	1,367	3,050	4,963	846	10,053	24,253	13,731	-	-	1,701	6,781	13,888
500,000 "	25	1,451	3,434	6,178	863	12,571	30,949	17,934	-	-	1,807	8,232	19,190
1,000,000 "	13	1,639	3,879	7,672	822	13,929	36,025	21,923	-	-	2,205	10,750	21,991
5,000,000 and over	-	-	-	-	-	-	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units <sup>10</sup>	...	...	...	...	...	...	...	...	...	...	4	26	(2)
<b>Totals</b>	<b>616</b>	<b>7,139</b>	<b>15,953</b>	<b>27,246</b>	<b>3,946</b>	<b>53,043</b>	<b>129,792</b>	<b>74,560</b>	<b>331</b>	<b>900</b>	<b>9,156</b>	<b>37,492</b>	<b>77,424</b>

See footnotes following Table 3 A.

**TABLE 1D. Principal Statistics classified by Size Groups based on Total Value Added, 1961 and 1962**  
Basis: Revised Standard Industrial Classification and New Establishment Concept<sup>2</sup>

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers <sup>4</sup>			Cost of fuel and elec- tricity <sup>5</sup>	Cost of materials and supplies used <sup>4</sup>	Value of shipments of goods of own manu- facture <sup>4</sup>	Value added <sup>4</sup>	Working owners and partners <sup>6</sup>		Total employees <sup>7</sup>		Total value added <sup>8</sup>
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000		'000				'000		'000		
<b>1961</b>													
Under \$10,000 .....	172	169	246	313	51	584	1,396	744	128	203	198	353	765
\$ 10,000 to \$ 24,999 .....	110	307	540	760	131	1,201	3,118	1,790	86	268	375	941	1,833
25,000 " 49,999 .....	98	501	947	1,383	226	2,784	6,338	3,432	61	214	639	1,852	3,543
50,000 " 99,999 .....	100	897	1,923	2,785	431	5,157	12,016	6,771	22	93	1,151	3,909	7,246
100,000 " 199,999 .....	54	731	1,675	2,566	487	4,913	12,402	7,156	4	19	1,004	3,868	7,504
200,000 " 499,999 .....	51	1,464	3,387	5,204	851	10,312	25,690	15,228	-	-	1,925	7,525	15,957
500,000 " 999,999 .....	20	1,045	2,339	4,288	673	10,014	23,874	13,517	-	-	1,411	6,316	14,271
1,000,000 " 4,999,999 .....	12	1,242	2,896	5,269	753	9,357	27,001	16,861	-	-	1,770	8,025	17,056
5,000,000 and over .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units <sup>10</sup> .....	...	...	...	...	...	...	...	...	...	...	30	185	(10)
<b>Totals</b> .....	<b>617</b>	<b>6,356</b>	<b>13,952</b>	<b>22,578</b>	<b>3,603</b>	<b>44,322</b>	<b>111,836</b>	<b>65,500</b>	<b>301</b>	<b>797</b>	<b>8,503</b>	<b>32,975</b>	<b>68,165</b>
<b>1962</b>													
Under \$10,000 .....	146	109	162	200	40	444	1,161	647	143	252	135	252	673
\$ 10,000 to \$ 24,999 .....	132	357	688	951	142	1,494	3,825	2,162	114	339	429	1,141	2,277
25,000 " 49,999 .....	82	429	865	1,233	197	2,231	5,182	2,795	45	168	543	1,650	2,962
50,000 " 99,999 .....	107	916	1,929	2,986	492	5,470	13,183	7,226	28	136	1,164	4,082	7,543
100,000 " 199,999 .....	58	787	1,769	2,764	476	6,074	13,696	7,461	1	5	1,052	4,108	7,797
200,000 " 499,999 .....	54	1,488	3,309	5,479	954	11,352	26,858	14,932	-	-	1,854	7,468	15,478
500,000 " 999,999 .....	22	1,222	2,822	4,936	692	10,552	26,621	15,810	-	-	1,501	6,602	16,169
1,000,000 " 4,999,999 .....	15	1,831	4,408	8,696	952	15,425	39,265	23,526	-	-	2,474	12,163	24,527
5,000,000 and over .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units <sup>10</sup> .....	...	...	...	...	...	...	...	...	...	...	4	26	(2)
<b>Totals</b> .....	<b>616</b>	<b>7,139</b>	<b>15,953</b>	<b>27,246</b>	<b>3,946</b>	<b>53,043</b>	<b>129,792</b>	<b>74,560</b>	<b>331</b>	<b>900</b>	<b>9,156</b>	<b>37,492</b>	<b>77,424</b>

See footnotes following Table 3 A.

**TABLE 1E. Principal Statistics classified by Size Groups based on Total Employed<sup>11</sup>, 1961 and 1962**  
Basis: Revised Standard Industrial Classification and New Establishment Concept<sup>2</sup>

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers <sup>4</sup>			Cost of fuel and elec- tricity <sup>5</sup>	Cost of materials and supplies used <sup>4</sup>	Value of shipments of goods of own manu- facture <sup>4</sup>	Value added <sup>4</sup>	Working owners and partners <sup>6</sup>		Total employees <sup>7</sup>		Total value added <sup>8</sup>
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000		'000				'000		'000		
<b>1961</b>													
Under 5 employees .....	249	309	522	714	133	1,315	3,489	2,130	187	388	379	876	2,197
5- 14 employees .....	227	1,378	2,786	4,091	697	7,916	19,607	11,477	113	403	1,756	5,642	12,063
15- 49 " .....	100	1,851	4,214	6,518	1,182	13,896	33,594	19,144	1	6	2,475	9,620	20,075
50- 99 " .....	27	1,353	3,083	5,378	713	10,017	26,127	15,649	-	-	1,808	7,630	16,146
100-199 " .....	14	1,465	3,346	5,877	878	11,177	29,018	17,099	-	-	2,055	9,022	17,694
200-499 " .....													
500 employees and over .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units <sup>10</sup> .....	...	...	...	...	...	...	...	...	...	...	30	185	(10)
<b>Totals</b> .....	<b>617</b>	<b>6,356</b>	<b>13,952</b>	<b>22,578</b>	<b>3,603</b>	<b>44,322</b>	<b>111,836</b>	<b>65,500</b>	<b>301</b>	<b>797</b>	<b>8,503</b>	<b>32,975</b>	<b>68,165</b>
<b>1962</b>													
Under 5 employees .....	240	303	551	739	142	1,480	3,859	2,209	224	508	358	876	2,303
5- 14 employees .....	227	1,385	2,937	4,432	744	8,835	21,311	12,004	101	369	1,768	6,019	12,658
15- 49 " .....	110	2,161	4,766	7,771	1,331	16,789	40,313	22,671	6	23	2,735	10,815	23,626
50- 99 " .....	21	1,077	2,379	4,140	657	8,956	21,565	12,180	-	-	1,391	5,798	12,330
100-199 " .....	18	2,213	5,320	10,164	1,072	16,982	42,743	25,496	-	-	2,900	13,958	26,509
200-499 " .....													
500 employees and over .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units <sup>10</sup> .....	...	...	...	...	...	...	...	...	...	...	4	26	(2)
<b>Totals</b> .....	<b>616</b>	<b>7,139</b>	<b>15,953</b>	<b>27,246</b>	<b>3,946</b>	<b>53,043</b>	<b>129,792</b>	<b>74,560</b>	<b>331</b>	<b>900</b>	<b>9,156</b>	<b>37,492</b>	<b>77,424</b>

See footnotes following Table 3 A.

**TABLE 1F. Principal Statistics classified by Type of Organization, 1961 and 1962**  
Basis: Revised Standard Industrial Classification and New Establishment Concept<sup>2</sup>

Type of organization	Establishments	Manufacturing activity							Total activity				
		Production and related workers <sup>4</sup>			Cost of fuel and electricity <sup>5</sup>	Cost of materials and supplies used <sup>4</sup>	Value of shipments of goods of own manufacture <sup>4</sup>	Value added <sup>4</sup>	Working owners and partners <sup>6</sup>		Total employees <sup>7</sup>		Total value added <sup>8</sup>
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
No.		'000			\$'000				\$'000		\$'000		
<b>1961</b>													
Individual ownerships .....	217	467	813	1,088	152	1,860	4,810	2,941	185	481	500	1,159	3,045
Partnerships .....	66	217	435	607	127	1,304	3,264	1,889	116	316	242	673	2,023
Incorporated companies .....	334	5,672	12,704	20,883	3,324	41,157	103,762	60,669	-	-	7,731	30,958	63,106
Cooperatives .....	...	...	...	...	...	...	...	...	...	...	30	185	(10)
Head offices, sales offices and auxiliary units <sup>10</sup> .....	...	...	...	...	...	...	...	...	...	...	30	185	(10)
<b>Totals .....</b>	<b>617</b>	<b>6,356</b>	<b>13,952</b>	<b>22,578</b>	<b>3,603</b>	<b>44,322</b>	<b>111,836</b>	<b>65,500</b>	<b>301</b>	<b>797</b>	<b>8,503</b>	<b>32,975</b>	<b>68,165</b>
<b>1962</b>													
Individual ownerships .....	195	398	754	1,030	136	1,898	4,599	2,577	206	545	419	1,078	2,717
Partnerships .....	57	146	305	428	67	816	2,159	1,278	125	355	158	447	1,356
Incorporated companies .....	364	6,595	14,894	25,789	3,743	50,328	123,033	70,705	-	-	8,575	35,941	73,352
Cooperatives .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units <sup>10</sup> .....	...	...	...	...	...	...	...	...	...	...	4	26	(2)
<b>Totals .....</b>	<b>616</b>	<b>7,139</b>	<b>15,953</b>	<b>27,246</b>	<b>3,946</b>	<b>53,043</b>	<b>129,792</b>	<b>74,560</b>	<b>331</b>	<b>900</b>	<b>9,156</b>	<b>37,492</b>	<b>77,424</b>

See footnotes following Table 3 A.

**TABLE 2. Industry Outputs, Inputs and Value Added, 1961 and 1962**  
Basis: Revised Standard Industrial Classification and New Establishment Concept<sup>2</sup>

Item	1961		1962	
	\$'000			
<b>Manufacturing activity:</b>				
Value of shipments - Goods of own manufacture .....		111,836		129,792
Add: Closing inventory - Goods in process .....	1,030		1,467	
Finished goods .....	12,216	13,246	12,925	14,392
Deduct: Opening inventory - Goods in process .....	840		721	
Finished goods .....	10,817	(11,657)	11,914	(12,635)
Gross output - Manufacturing activity .....		113,425		131,549
Deduct: Cost of materials and supplies used in manufacturing activity .....	44,322		53,043	
Cost of fuel and electricity used .....	3,603	(47,925)	3,946	(56,989)
Value added - Manufacturing activity .....		65,500		74,560
<b>Non-manufacturing activities:</b>				
Value of shipments - Goods not of own manufacture .....		..		6,939
Add: All other revenue .....	..		1,899	
Closing inventory - Goods purchased for resale .....	565	..	483	2,382
Deduct: Purchases of goods for resale as such .....	..		5,137	
Opening inventory - Goods not of own manufacture .....	606		499	
Cost of all other materials and supplies used .....	..	(..)	821	(6,457)
Value added - Non-manufacturing activities .....		2,665		2,864
<b>Total value added .....</b>		<b>68,165</b>		<b>77,424</b>

See footnote following Table 3 A.



**TABLE 3. Employment and Payroll, 1961 and 1962**  
Basis: Revised Standard Industrial Classification and New Establishment Concept<sup>1</sup>

Year and province	Employees										Salaries and wages				
	Production and related workers				Admini- trative and office <sup>8,9</sup>		Sales, and distribution <sup>9</sup>		Total employees <sup>7,9</sup>		Production and related workers		Admini- trative and office	Sales, and distrib- ution	Total salaries and wages
	Manufacturing <sup>4</sup>		Other <sup>9</sup>		Male	Female	Male	Female	Male	Female	Manufacturing	Other			
	Male	Female	Male	Female											
	number										\$'000				
<b>1961</b>															
Newfoundland .....	74	-	..	..	..	..	..	..	89	2	217	..	..	..	262
Prince Edward Island .....	22	-	..	..	..	..	..	..	26	-	46	..	..	..	62
Nova Scotia .....	86	-	..	..	..	..	..	..	102	2	230	..	..	..	287
New Brunswick .....	62	-	..	..	..	..	..	..	77	1	161	..	..	..	204
Quebec .....	1,868	7	..	..	..	..	..	..	2,252	80	6,059	..	..	..	8,072
Ontario .....	2,925	27	..	..	..	..	..	..	3,898	219	11,110	..	..	..	17,074
Manitoba .....	291	1	..	..	..	..	..	..	466	17	886	..	..	..	1,758
Saskatchewan .....	130	1	..	..	..	..	..	..	151	5	457	..	..	..	577
Alberta .....	568	1	..	..	..	..	..	..	723	27	2,096	..	..	..	3,050
British Columbia .....	292	1	..	..	..	..	..	..	356	10	1,318	..	..	..	1,628
<b>Totals .....</b>	<b>6,318</b>	<b>38</b>	..	..	..	..	..	..	<b>8,140</b>	<b>363</b>	<b>22,578</b>	..	..	..	<b>32,975</b>
<b>1962</b>															
Newfoundland .....	106	-	-	-	16	4	3	-	125	4	368	-	77	10	455
Prince Edward Island .....	21	-	-	-	5	-	-	-	26	-	43	-	21	-	64
Nova Scotia .....	67	-	-	-	16	3	-	-	83	3	206	-	72	-	278
New Brunswick .....	51	-	-	-	14	1	-	-	65	1	147	-	38	-	186
Quebec .....	1,919	3	3	-	266	69	63	1	2,251	73	6,606	8	1,588	311	8,513
Ontario .....	3,463	35	74	-	596	184	239	3	4,372	222	13,995	408	4,167	1,399	19,970
Manitoba .....	302	-	-	-	77	18	61	1	440	19	1,164	-	397	299	1,860
Saskatchewan .....	158	-	-	-	24	5	1	-	183	5	559	-	118	6	683
Alberta .....	731	2	2	-	164	29	18	1	915	32	2,935	6	957	87	3,984
British Columbia and Yukon ..	280	1	-	-	48	8	-	-	328	9	1,224	-	277	-	1,500
<b>Totals .....</b>	<b>7,098</b>	<b>41</b>	<b>79</b>	-	<b>1,226</b>	<b>321</b>	<b>385</b>	<b>6</b>	<b>8,788</b>	<b>368</b>	<b>27,246</b>	<b>422</b>	<b>7,712</b>	<b>2,112</b>	<b>37,492</b>

See footnotes following Table 3 A.

**TABLE 3 A. Production and Related Workers,<sup>4</sup> - Manufacturing Activity, by Months, 1962**  
Basis: Revised Standard Industrial Classification and New Establishment Concept<sup>1</sup>

Month	Establishments reporting monthly detail	
	Male	Female
	number	
January .....	4,444	25
February .....	4,562	26
March .....	5,011	27
April .....	5,630	32
May .....	6,335	36
June .....	6,776	43
July .....	7,010	36
August .....	7,073	37
September .....	6,610	40
October .....	6,483	48
November .....	6,076	48
December .....	5,507	44
Average for establishments reporting monthly detail (collected only for large establishments) .....	5,979	37
Average for small establishments (only annual averages collected) .....	1,119	4
Average for all establishments .....	7,098	41

<sup>1</sup> See Table 2 and Explanatory Notes concerning manufacturing and non-manufacturing activities.  
<sup>2</sup> See Explanatory Notes.  
<sup>3</sup> This category, in this table only, includes working owners and partners. Since administrative and office employees are engaged in a variety of activities they have been excluded from manufacturing activity beginning with the revised 1961 series shown in the following tables. They are included here for purposes of comparison with the tabulations of previous years.  
<sup>4</sup> Conceptually identical to previous years. See Explanatory Notes.  
<sup>5</sup> Cannot be reported separately for manufacturing and non-manufacturing activities but related substantially to manufacturing activity. Identical concept to previous years.  
<sup>6</sup> Working owners and partners were included with administrative and office employees in the "Manufacturing series" published in former years. See Explanatory Notes.  
<sup>7</sup> Includes production and related workers, administrative and office employees, sales distribution and other employees. See Explanatory Notes for the treatment of head office employees and those employed in auxiliary units.  
<sup>8</sup> Value of total shipments and other operational revenue less total cost of materials, supplies, fuels used and purchases of products and materials for resale in the same condition; all adjusted for inventory changes where required. See Table 2 and Explanatory Notes.  
<sup>9</sup> Sales and distribution workers and production workers (non-manufacturing) are included for the first time as a result of the full implementation of the new definition of the establishment. The figures for production workers (non-manufacturing), administrative and office employees and sales and distribution workers are not yet available for 1961 but form part of total employees. Sales and distribution workers may include some employees that are reported as part of a manufacturing establishment but are not working at the establishment's location. Head offices, sales offices, etc., which report separately are included in the figures for the province in which they are located.  
<sup>10</sup> These data cover the activities reported by separately located units such as head offices, sales offices, administrative offices, laboratories, warehouses, etc. Such units do not usually constitute separate "establishments" as they do not normally generate all the necessary elements of input and output statistics. However, they are treated as extensions of manufacturing establishments and, in the case of individual industries, may be located in provinces where no processing plants are situated. For the most part, these units contribute only to costs of operations (mainly salaries and wages) and they are included here to provide completeness and consistency of the statistics. See Explanatory Notes which deal with Single and Multi establishments for a complete explanation of procedures.  
<sup>11</sup> Confidential data.  
<sup>12</sup> Includes paid employees and working owners but excludes unpaid family workers.

Note: Figures may not add due to rounding.



**TABLE 4. Materials and Supplies Used in Manufacturing Activity, 1962**

Basis: Revised Standard Industrial Classification and New Establishment Concept<sup>1</sup>

Description	Quantity	Cost
		\$'000
<b>1. Materials used:</b>		
Portland cement .....	bag 16,680,614	14,858
Quicklime .....	ton 26,834	251
Sand and gravel .....	cu. yd. 3,580,555	6,496
Crushed stone .....	ton 616,219	1,432
Cinders .....	cu. yd. 115,114	277
Reinforcing steel (wire, bar, mesh, etc.) .....	ton 47,830	9,260
Slag .....	cu. yd. 587,184	2,016
All other materials and components used <sup>2</sup> .....	...	12,500
<b>2. Containers and other packaging materials and supplies used .....</b>		
		256
<b>3. Operating, maintenance and repair supplies used (excluding fuel) .....</b>		
		5,144
<b>4. Amount paid out to others for work done on materials owned by establishments .....</b>		
		552
<b>Total .....</b>		
		<b>53,043</b>

<sup>1</sup> See Explanatory Notes.

<sup>2</sup> No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. In 1962 these estimated costs were \$5,260,768.

**TABLE 5. Fuel and Electricity Used<sup>1</sup> in Manufacturing Activity,<sup>2</sup> 1962**

Basis: Revised Standard Industrial Classification and New Establishment Concept<sup>3</sup>

Description	Quantity	Cost
		\$'000
<b>1. Large establishments which reported commodity detail:</b>		
<b>Bituminous coal:</b>		
(a) From Canadian mines .....	ton 7,651	105
(b) Imported .....	" 8,657	115
Sub-bituminous coal (from Alberta mines only) .....	" 109	1
Anthracite coal .....	" 2,441	33
Lignite coal .....	-	-
Coke .....	-	-
Gasoline (including gasoline used in cars and trucks) .....	Imp. gal. 2,996,067	1,133
Fuel oil including kerosene or coal oil .....	" 7,268,694	988
Wood .....	cord 86	1
<b>Gas:</b>		
(a) Liquefied petroleum gases .....	Imp. gal. 93,093	25
(b) Other manufactured gas .....	-	-
(c) Natural gas .....	M cu. ft. 556,223	292
Other fuel .....	...	1
Electricity purchased .....	kwh. 36,176,033	726
Steam purchased .....	...	114
<b>2. Estimate for small establishments for which no data were collected:</b>		
Fuel and electricity .....	...	409
<b>3. All establishments:</b>		
Total fuel and electricity used .....	...	3,946

<sup>1</sup> Does not include fuel and electricity produced for own use.

<sup>2</sup> Includes only fuel and electricity purchased. Conceptually identical to previous years in that it also includes relatively small amounts used in non-manufacturing activities since these cannot be reported separately.

<sup>3</sup> See Explanatory Notes.

**TABLE 6. Shipments of Goods of Own Manufacture, 1962**  
Basis: Revised Standard Industrial Classification and New Establishment Concept<sup>1</sup>

Description	Quantity	Value
		\$'000
<b>1. Products:</b>		
Concrete bricks .....	M 186,819	4,956
Concrete blocks:		
Cinder .....	" 12,927	2,597
Gravel .....	" 141,857	30,338
Other aggregates (expanded shale, expanded slag, etc.) .....	" 38,115	10,029
Concrete chimney blocks .....	" 824	511
Concrete burial vaults .....	No. 12,231	623
Concrete pipe (sewer, water, drain) and culvert tile .....	..	27,501
Artificial stone .....	..	9,825
Concrete laundry tubs .....	No. 53,915	594
Ready-mixed concrete .....	cu. yd. 495,803	6,138
Sand-lime products:		
Sand-lime brick .....	M 59,299	1,787
Sand-lime blocks .....	No. 420,000	105
All other products .....	..	36,473
<b>2. Amount received in payment for work done on materials and products owned by others .....</b>		<b>537</b>
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above .....		(2,228)
Net adjustment for establishments receiving progress payments .....		6
<b>Total adjusted value of shipments and work done .....</b>		<b>129,792</b>

<sup>1</sup> See Explanatory Notes.

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 8 A and B.

**TABLE 7. Industry Inventories,<sup>1</sup> 1962**  
Basis: Revised Standard Industrial Classification and New Establishment Concept<sup>2</sup>

Province	Manufacturing				Non-manufacturing	Total inventories <sup>3</sup>
	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total manufacturing	Products or materials purchased for resale	
book value \$'000						
<b>Opening:<sup>3</sup></b>						
Newfoundland .....	15	15	26	56	—	56
Prince Edward Island .....	13	—	19	32	—	32
Nova Scotia .....	51	22	146	219	7	226
New Brunswick .....	27	2	106	135	14	149
Quebec .....	1,455	205	2,617	4,277	6	4,283
Ontario .....	1,884	335	6,049	8,268	400	8,668
Manitoba .....	788	11	369	1,168	12	1,180
Saskatchewan .....	111	4	405	520	21	541
Alberta .....	463	36	1,375	1,874	40	1,914
British Columbia and Yukon .....	187	92	802	1,081	—	1,081
<b>Totals<sup>4</sup></b> .....	<b>4,994</b>	<b>721</b>	<b>11,914</b>	<b>17,629</b>	<b>499</b>	<b>18,128</b>
<b>Closing:</b>						
Newfoundland .....	35	38	31	104	—	104
Prince Edward Island .....	15	—	15	30	—	30
Nova Scotia .....	40	15	128	183	12	195
New Brunswick .....	27	3	103	133	18	151
Quebec .....	1,471	107	2,699	4,277	12	4,289
Ontario .....	2,292	1,052	6,804	10,148	358	10,506
Manitoba .....	892	36	482	1,410	11	1,421
Saskatchewan .....	93	4	452	549	18	567
Alberta .....	470	143	1,460	2,073	53	2,126
British Columbia and Yukon .....	167	69	752	988	—	988
<b>Totals<sup>4</sup></b> .....	<b>5,503</b>	<b>1,467</b>	<b>12,925</b>	<b>19,895</b>	<b>483</b>	<b>20,378</b>

<sup>1</sup> Values represent book values of inventories 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.

<sup>2</sup> See Explanatory Notes.

<sup>3</sup> The opening inventories may differ from the closing inventories for the previous survey 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.

<sup>4</sup> Figures may not add due to rounding.

TABLE 8. Factory Shipments of Goods of Own Manufacture - All Industries<sup>1</sup>

A. Principal Concrete Products, 1953-62

Year	Ready-mixed concrete	Concrete building blocks			Concrete pipe, (sewer, water, drain) and culvert tile	Concrete bricks	Artificial stone
		Cinder	Gravel	Other aggregates			
\$'000							
1953 .....	27,571	3,194	19,234	1,970	10,071	3,013	2,530
1954 .....	42,753	3,668	20,734	2,938	11,632	4,221	3,135
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 .....	91,382	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

B. Principal Concrete Products, by Provinces, 1962

Products		Quebec	Ontario	Alberta	British Columbia	Other provinces	Canada
Concrete bricks <sup>2</sup> .....	M \$	53,532 1,647,125	68,689 2,577,118	1,808 71,656	13,311 405,248	10,095 396,128	147,435 5,097,275
Concrete blocks: <sup>2</sup>							
Gravel .....	No. \$	29,744,591 5,550,376	94,717,745 20,692,373	5,779,157 1,412,342	4,430,194 1,131,422	13,477,879 3,111,270	148,149,566 31,897,783
Cinder .....	No. \$	6,025,785 988,843	5,694,458 1,360,566	1,743,994 393,745	53,509 15,478	28,720 7,180	13,546,466 2,765,812
Other aggregates .....	No. \$	3,843,571 949,256	15,696,233 3,988,824	13,768,082 3,775,332	1,994,864 592,043	3,446,612 945,696	38,749,362 10,231,151
Concrete pipe (sewer, water, drain) and culvert tile ..	\$	10,486,800	11,420,539	2,345,698	1,746,106	2,064,083	28,063,226
Concrete, ready-mixed .....	cu. yd. \$	3,815,182 43,768,239	4,262,009 52,024,404	1,121,276 14,820,487	683,665 8,368,139	1,044,574 15,095,817	10,928,706 134,077,086

<sup>1</sup> Includes shipments from other industries which manufacture as a secondary activity, the commodities listed here.

<sup>2</sup> 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.

TABLE 9. Capital and Repair Expenditures, 1960-62

Year	Capital expenditures			Repair expenditures			Total capital and repair expenditures		
	Construction	Machinery and equipment	Sub-total	Construction	Machinery and equipment	Sub-total	Construction	Machinery and equipment	Total
\$'000									
1960 .....	2,023	10,400	12,423	1,735	13,418	15,153	3,758	23,818	27,576
1961 .....	3,053	11,393	14,446	1,493	13,084	14,577	4,546	24,477	29,023
1962 .....	4,339	17,134	21,473	1,638	16,769	18,407	5,977	33,903	39,880

Note: Includes ready-mix concrete manufacturers.

Source: Business Finance Division. - DBS.



List of Establishments, 1962

Name	Location
<b>Newfoundland:</b>	
Dalley, S.B.	Stephensville
Dawe's Dunbrick Products Ltd.	St. John's
Dean, Harold	Botwood
Lundrigan's Concrete Ltd.	Corner Brook
Masonry Supplies Ltd.	St. John's
Wiseman, C.	Shoal Harbour
<b>Prince Edward Island:</b>	
Arnold Brick Ltd.	Charlottetown
Island Brickcrete Products Ltd.	Charlottetown
MacLean Cement Blocks	Montague
P.E.I. Concrete Products Ltd.	Summerside
<b>Nova Scotia:</b>	
Sower, John C.	Shelburne
Chute, L.M. and D.	Berwick
Deschamps, W.W.	Shelburne
Everett, Claude, Ltd.	Bridgetown
Freeman's Concrete Products	New Germany
Kentville Concrete Products Ltd.	Kentville
Mansfield Palt	Antigonish
McCurdy, W.M., Enterprises Ltd.	Wolfville
Oakes Precast Concrete Co.	Waverley
Prefac Concrete (N.S.) Ltd.	Halifax
Purney, Trefry	Arcadia
Ritchie's Ornamental Concrete	Bedford
Scotia Concrete Products Ltd.	Wellington Station
Shaw, L.E., Ltd.	Tufts Cove and Sydney
Superior Concrete Products Ltd.	Sydney
Walker, F.C.	Aylesford
<b>New Brunswick:</b>	
Atlantic Concrete Products Ltd.	Bathurst
Belliveau, Camille	Shediac
Courtney Concrete Co. Ltd.	St. John
Dundee Cement Products Ltd.	Dundee
Landry, Jean Paul	Ste. Anne du Bocage
McLaughlin Concrete Products Ltd.	Tracadie
Melanson, Laurie	St. Anselme, West Co.
Ocean Steel and Construction Ltd. (Precast Divn.)	Lancaster
Pelletier, Alphonse, Esq.	St. Basile
Pelletier's Concrete Products Ltd.	Edmundston
Shaw, L.E., Ltd.	Coldbrook
Trappist Fathers of Rogersville	North Rogersville
<b>Quebec:</b>	
Ace Artificial Stone Co. Ltd.	Ville St-Michel
Arco Stone Co. Ltd.	Montreal
Arti-Rock	Montreal North
Artistic Stone Engr.	Sept Iles
Audet, Gérard	N.D. Bon Consiel
Barrette et Lord Engr.	Shawinigan
Beaudry, H., Bloc de Ciment Co. Ltée	St-Vincent de Paul
Beauharnois, Pierre, Stone	Beauharnois
Beaulieu, J. Armour	Terrebonne
Beer Precast Concrete (MTL) Ltd.	Montreal
Belgo Stone	Montreal
Besner et Frère	Petite Côte de Vaudreuil
Betonlite Inc.	St-Jérôme
Béton Vibré Ltée	Trois-Rivières
Bisson Construction Inc.	Grande Rivière
Blanchette et Frères	Gentilly, Co. Nicolet
Blocs de Ciment Audet Engr.	Rivière Malbaie
Blocs de Ciment Engr.	Laurierville
Blocs de Ciment Montmagny Enr'g.	Montmagny
Blocs de Ciment Rouville Engr.	Beloeil Station
Boisclair et Frère	Piedmont
Bolduc, Aimé	St-Marie
Boudreault, Jean Claude	La Fuque
Bourgon et Bourgon	St-Polycarpe
Boyer, Hervé	Piedmont
Brique Orleans Inc.	Québec
Brouillette, L.A.	St-Narcisse
Brucy Stone Enr'g.	Ile Perrôt
Brunet, R., Concrete Ltd.	Valleyfield
Buffalo Stone Ltd.	St-Martin
Canada Iron Foundries Ltd. (Pipe Divn.)	Côte St-Luc
Cap Diamant Stone Enr'g.	Rivière des Prairies
Cap Stone	St-Elzéar
Casaulon, P.L., Inc.	St-Elizabeth
Castonguay, L., Enr.	Lothbinière Co.
Cement Sayabec	Sayabec
Chalifoux, Réal	Mont-Laurier
Chevrier, Emmanuel	Dorion
Chicoine et Frère	St-Dominique de Beaufort
Ciment Michaud et Bédard Ltée	Molartic, Abitibi-Est
Cimenterie Sept-Iles	Sept-Iles
Ciment Vibré Maniwaki	Maniwaki

List of Establishments, 1962 - Continued

Name	Location
<b>Quebec - Continued:</b>	
Cloutier, Roland	Shawinigan
Coates, Russel	South Bolton
Collinsville Artificial Stone	Sherbrooke
Campagne Miron Ltée (Produits en Béton)	Montreal
Concrete Laundry Tub Ltée	Ville St-Pierre
Concrete Septic Tank Reg'd.	Laféche
Concrete Spun Pipe Co. Ltd.	Chateauguay Village
Côté, Mme, Emilio	Drummondville Sud
Coupal, Gérard	Bréboeuf
Couture Cement Blocks	West Brome
Couture, Joseph	St-Henri
Creakhan and Archibald Ltd.	Pointe-aux-Trembles
D'Aoust, Jean	Ile Perrôt
Delany, Oscar, Ltd.	Grindstone, Magdalen Islands
Delco Stone Ltée	Pointe-Gatineau
Deschênes, J. Lucien, Inc.	Matane
Desnoyers, Lucien	St. Jean Baptiste
Désormeaux, R. et R., Enr'g.	Lesage
Dilco Concrete Products Ltd.	Montreal
Dominique Calabrese et Fils Ltée	Terrebonne
Domtar Construction Materials Ltd. (Gypsum Divn.)	Montreal
Domtar Construction Materials Ltd. (Siporex Divn.)	Montreal
Dorlon Brique Inc.	Dorlon
Doyan et Fils Enrg.	Beauceville West
Dunbrick Limitée	Chicoutimi
Dunbrik (Montreal) Co.	Ville St-Michel
Enterprises Kelvo	Hauterive
Fiset, J.L., Enr'g.	Trois Pistoles
Flinkote Co. of Canada Ltd. (Van Packer Divn. The)	Ville St-Pierre
Gagnon, G.	Ste. Thérèse
Gatineau Industries Reg'd.	Gatineau Point
Gaudreault, Mathilda	Mistassini
Gauthier, Amédée	Sept-Iles
Gauthier, Wilfrid	Hemingford
Gendron, P.A., Inc.	Ste-Rosalie
Genest, Emile, Esq.	St-Basile
Geoffrion, Aimé, Enrg.	Ste-Julienne
Giacomo Stone and Co.	Montréal
Giguère Limoges Ltd.	Montreal
Gosselin et Fils Ltée	Thetford Mines
Granby Artificial Stones Inc.	Granby
Grant Concrete Products Inc.	Douglastown
Gratton, Maxima	Val Quesnel
Granon Frères Ltée	Bagotville
Hochelaga Pre-cast Structures Ltd.	Montreal West
Hy-Grade Concrete Blocks Reg'd.	Longueuil
Industrie Notre-Dame	Montréal
Jalbert et Frères	Petit Cap, Gaspé
Jean et Frères Engr.	Shawinigan Sud
Jetté, C.H.	Joliette
Jiona, A.T. Inc.	New Carlisle
Johnson A. Co. (Canada) Ltd.	Montreal
Joliette Brique Ltée	Joliette
Jutras, Conrad	N.D. Bon Conseil
Jutras et Frère Ltée	Granby
Labelle, Léo	Ferme Neuve, Cte. Labelle
La Brique du Nord Ltée	Rouyn
La Cle des Produits Ciment de St-Jérôme Ltée	St-Jérôme
Lambert, Géo	Trois-Rivières
Langlois et Frères Enr'g.	South Stukley
La Pierre Artificielle de l'Abitibi Enr'g.	Taschereau, Cte. Abitibi
Lapointe et Fils Enr'g.	Forestville, Nord
Lavallée, Honoré	Beioell Station
Lavoie Concrete Block Reg'd.	Sept-Iles
Leblanc et Frenate Enrg.	Rivières des Prairies
Le Bloc Vibré Inc.	Sherbrooke
Le Ciment Baraute Ltée	Barraute
Leclerc, Raymond	Pont-Rouge
Légaré, Marcel	Loretteville
Légaré, Victorin	Dupuy
Léger, Jean-Paul, Enr'g.	Dorion
Lemaire, C.E.	Drummondville
Les Carrières de St-Armand Ltée	St-Armand Station
Les Entreprises Neurohr Enr.	Hauterive
Les Industries de Béton Boisvert Ltée	St-Léonard Port Maurice
Les Industries de Ciment Enr'g.	La Guadeloupe
Les Industries de Tuyaux de Quebec Enrg.	St-Sauveur
Les Industries Fortier Ltée	Lévis
Les Produits de Béton Beaudry Ltée	Duvernay
Les Produits de Béton Inc.	Rimouski
Les Produits Ciment de l'Annonciation	L'Annonciation
Les Produits de Ciment de Barnston Enr'g.	Barnston
Les Produits de Ciment de Sherbrooke Ltée	Sherbrooke
Les Produits de Ciment de St-Laurent	St-Laurent
Les Produits de Ciment de Windsor Enr'g.	Windsor
Les Produits de Ciment du Lac St-Jean Ltée	Matébetchouan
Les Produits de Ciment du Saguenay Ltée	Chicoutimi
Les Produits de Ciment St-Félicien Ltd.	St-Félicien
Les Produits de Ciment St-Maurice Ltée	Trois-Rivières
Les Spécialités de Tuyaux de Montmagny Enr'g.	Montmagny
Les Tuyaux de Béton Mauricien Inc.	St-Sévérin de Prouville
Les Tuyaux de Ciment de l'Islet Enrg.	L'Islet



List of Establishments, 1962 - Continued

Name	Location
<b>Quebec - Concluded:</b>	
Les Tuyaux Vibrés de Portneuf Enr'g.	St. Casimir, Co. Portneuf
Les Tuyaux Vibrés Inc.	Québec
Letendre et Frères	Drummondville
Martin et Fils Inc.	St-Hubert
Martineau, Maurice	Dosquet, Cte. Lothbinière
Milanon et Fils Inc.	Grand-Mère
Monarch Stone	Montreal
Montreal Art Stone	St-Vincent de Paul
Montreal Concrete Works	Ville St-Michel
Morin, M. Adélard	Beauceville West
Morin, Raymond	Robertsonville
National Cut and Precast Stone (Quebec) Ltd.	Montréal Nord
New Stone Co.	Montreal South
North Shore Béton	Portneuf Sur Mer
Ornamental Marble Terrazo Works Ltd.	Montreal
Page, J.M., et Frère Inc.	Charlesbourg Ouest
Pelletier et Fils	St-Pacome
Perron, Gérard	Baie St-Paul
Petit, L.P.	Granby
Pétrin, J.M., et Frère	St-Jean
Pichette, Pierre	St-Jean Chrysostome de Lévis
Pierre Artificielle Drummond Enrg.	St-Jean Baptiste
Pierre Artista Québec Enr.	Québec
Pierrefonds Stone	Ville Pierrefonds
Pierre Ornementale Enrg.	Drummondville
Pierres Artificielles d'Abitibi Enr'g.	Taschereau
Porète Co. (Canada) Ltd.	Montreal
Potier Frères Ltée	Montréal
Prefac Concrete Co. Ltd.	Montreal
Produits Ciment St-Eustache Enrg.	St-Eustache
Produits de Ciment Couillard Ltée	Coaticook
Produits de Ciment Economiques Ltée	Lachine
Produits de Ciment Leclerc Ltée	St-Félicien
Proulx, Roméo, Esq.	St-Polycarpe
Rainville, M. Albert	Joliette
Rawdon Cement Works Co.	Rawdon
Robitaille, Edouard, Inc.	Shawinigan Sud
Rodrique, Ernest	Lac Mégantic
Rondeau, Fernand	Chibougamau
Roy, Louis	Victoriaville
Sarazin, Lucien, Enrg.	Cap de la Madeleine
Security Chimneys Mfg. Co.	Montreal
Sept-Iles Perma Stone	Sept-Iles
Silicacement Enr'g.	Les Saules
Soucy et Lécuyer Ltée	Napierville
Soulières, David	Crabtree Mills
St-Germain, J.A., Inc.	Lafleche
St-Louis, J.R., Esq.	Ste-Ursule
St-Pierre, J.B., et Fils Inc.	Rimouski
Taschereau, Denis	Plessisville
Théberge, Paul	St-Fabien, Cte. Rimouski
Tremblay, Pierre	Iberville
Trois-Rivières Dunbrik Ltée	Trois-Rivières
Trotter, Jude	Victoriaville
Trudel, Alban	St. Séverin de Proulxville
Turcotte, J.M.	Trois Pistoles
Tuyaerie Beurivage Enr'g.	St-Paride de Beurivage
Tuyaux Bellechasse Enr.	St-Raphaël
Tuyaux Ciment Sherbrooke Inc.	Sherbrooke
Vaillancourt, W., Ltée	Danville
Valère Côté Inc.	Québec
Valois Stone	Montreal
Variety Stone Enrg.	Longueil
Vibrapide Concrete Products	Cap St-Martin
Victor Tanner Concrete Block and Tile	Shawville
Villeneuve, Candile	N.D. des Laurentides
Viroc Concrete Products Ltée	St-Placide
Whissel, Mrs. J.F.	Lachute
Windsor Artificial Stone Reg'd.	Windsor Mills
<b>Ontario:</b>	
Acme Curbing Co.	Wallaceburg
Anderson Block and Tile Ltd.	Port Arthur
Angelstone Ltd.	Preston
Aristocrat Manufacturing Co. Ltd., The	Toronto
Artistic Stone Ltd.	Hamilton
Atlas Block Co. Ltd.	Islington
Babcock Supply Co.	Wallaceburg
Babuk's Concrete Products	Woodbridge
Bancroft Concrete Products Ltd.	Bancroft
Barber Building Blocks Ltd.	Guelph
Barnett, D., and Co.	Kitchener
Barratt Spun Concrete Pole Ltd.	Niagara Falls
Barton Stone Co. Ltd.	Toronto
B and B Stone Ltd.	Fort William
Beamsville Block Ltd.	Beamsville
Belleville Brick Co. Ltd.	Belleville
Bellon Lumber Co. Ltd.	Sarnia
Berg and Dam Concrete Products	Sarnia
Bestpipe Ltd.	Kitchener
Bethel, A., and Son Ltd.	Ottawa



List of Establishments, 1962 - Continued

Name	Location
<b>Ontario—Continued:</b>	
Bishop, H., and Sons	St. Thomas
Boyd Bros., Messrs.	Osgoode
Brampton Pre-Cast Concrete	Brampton
Brans Concrete Blocks	Toronto
Brantford Brick Ltd.	Brantford
Brantford Builders Supplies Ltd.	Brantford
Brickerete and Masonry Products	St. Joachims
Brooklin Concrete Products Ltd.	Brooklin
Brown's Concrete Products Ltd.	Sudbury
Brunskill, William, Well Tile	Huntsville
Burlington Builders' Supply Ltd.	Burlington
Canada Iron Foundries (Pipe Division)	Rexdale
Canada Silo Company, Ltd.	Ingersoll
Canadian Marietta of Ontario Ltd.	Chatham
Canadian Marietta of Ontario Ltd.	Scarborough
Canadian Marietta of Ontario Ltd.	St. Catharines
Canadian Precast Terrazo Ltd.	Cornwall
Cannington Cement Block Co.	Cannington
Canton, H., and Son	Wyoming
Capital Concrete Products Ltd.	Iroquois
Century Concrete Products Ltd.	Toronto
Churchill Bros.	Keswick
Coldstream Concrete Products	Ilderton
Concrete Pipe Ltd.	London
Concrete Pipe Ltd.	Toronto
Concrete Products	Cornwall
Concrete Well Tiles	Port Arthur
Con-Lite Products	Burlington
Consteel Concrete Steps Ltd.	Toronto
Cooke, J., Concrete Blocks	Burlington
Cooper Block Ltd.	Toronto
Cope, A., and Sons Ltd.	Bartonville
Cornwall Cement Block Ltd.	Cornwall
Cursio, M., and Son	Toronto
Dandy, James	Grimsby
Day and Campbell Ltd.	Hamilton
Dellow, S.H., Ltd.	Cooksville
DeBonne Concrete Products Ltd.	Earlton
Dol-Mar Cement Products	Weston
Dentlar Construction Materials Ltd. (Gypsum)	Toronto
Dentlar Construction Materials Ltd. (Siporex)	Scarborough
Daughty Concrete Products Ltd.	Peterborough
Durisol Materials Ltd.	Hamilton
D.W.S. Concrete Products Ltd.	Toronto
Eagle Stone Co.	Willowdale
Elgin Block and Cement Products Ltd.	St-Thomas
Erie Concrete Products Ltd.	London
Erin Tile Works	Erin
Feldco Concrete Pipe Ltd.	Ajax
Fenelon Concrete Products	Fenelon Falls
Fleming Block and Supply Ltd.	Cooksville
Fonhill Concrete Products	Fonhill
Forgie, J.L. and Sons	Renfrew
Frazer Dunille Co. Ltd.	Ottawa
General Concrete Ltd.	Hamilton
G. and L. Masonry Products Ltd.	Point Edward
Gormley Block Co. Ltd.	Gormley
Grant, J.H., and Son	Collingwood
Grey-Wellington Paving Co. Ltd.	Durham
Grover Cast Stone	Gormley
Gurr Block Manufacturing	West Hill
Gus Marker Block and Tile Ltd.	Kingston
Haberer and Westlake	Zurich
Hafner, A., Cement Products	Kitchener
Hagersville Concrete Tile Manufacturer	Hagersville
Halcovitch Bros. Ltd.	Hamilton
Hallman Silo Co.	Kitchener
Hambly Concrete Products Ltd.	Oshawa
Hamilton Pre-Cast Stone Co.	Stoney Creek
Han-Stone	Hanover
Harbour Brick Co. Ltd.	Toronto
Hayley, Harry, and Sons Ltd.	Ottawa
Hence Concrete Products Ltd.	Picton
Henderson Concrete Products Ltd.	Oshawa
Hill, Harold H., Esq.	Essex
H. and K. Concrete Specialities Ltd.	Brantford
Huffman Concrete Products Ltd.	Pembroke
Huronian Building Products Ltd.	Orillia
Hutchins, C., and Son Vault Works	Kingston
Hy-Grade Concrete Co.	Merriton
Ideal Cement Block Co. Ltd.	Hearst
Industrial Cast Stone	Tbornhill
International Block Co.	Fort Frances
Jason Manufacturing Co. Ltd.	Beamsville
Kap Cement Works Ltd.	Kapuskasing
K. Checko Cement Blocks	Oshawa
Kon-Krete Ltd.	Kenora
Killaloe Concrete Reg'd.	Killaloe Station
Kingston Dunbrik Co. Ltd.	Kingston
Kitchener Concrete Block Co.	Kitchener
Kitchener Silo Co. Ltd.	Kitchener
Laird's Burial Vaults	Dorchester

List of Establishments, 1962 - Continued

Name	Location
<b>Ontario - Continued:</b>	
Lakefield Concrete Tile	Lakefield
Lakeshore Block Co. Ltd.	Lakeview
Lakeview Cement Products Ltd.	Sault Ste. Marie
Lars Concrete Products Co.	Toronto
Laurentian Dunbrik Ltd.	Sudbury
Leaside Block and Tile Ltd.	Leaside
Leblond, Fred, Window Sills	Cyrville
Leiden's Superior Concrete Burial Vault Works	Fenwick
Lloyd's Cement Blocks	Cannington
London Pre-Cast Products	London
Lucas Concrete Products Ltd.	London
Lucier Drainage Supplies Ltd.	McGregor
MacDowell Cement Products Ltd.	Brockville
Macown Silos Ltd.	Campbellford
MacVicar Cement Products	Leamington
The Maple Block and Tile Ltd.	Maple
Maple Leaf Cement Works Ltd.	Toronto
Maple Precast Concrete	Toronto
Marlo Stone Co.	Toronto
Mar-Vel Tile	Clarkson
Master Brick Ltd.	Richmond Hill
McGinnis Building Block Co. Ltd.	Preston
McKay Concrete Block	Kitchener
Meteor Building Supplies Ltd.	Scarborough Junction
Minghella, A. Ltd. - York Block and Tile York Building Supply	Willowdale
Modern Stone Co.	Toronto
Modular Precast Ltd.	Welland
Moose Creek Cement Products	Moose Creek
Murray Associates Ltd.	Richvale
Muskota Concrete and Block	Utterson
National Concrete Products Ltd.	Mimico
National Masonry Co. Ltd.	Rexdale
Newcastle Cement Block Co.	Newcastle
Newtonbrook Block and Supply Co. Ltd.	Willowdale
Niagara Block and Sand Co.	Niagara Falls
Niagara Drain Tile	Ridgeway
Nickel Belt Cement Products Ltd.	Sudbury
Normandin, Geo. L.	Lombardy
North Bay Const. Products Ltd.	North Bay
Northern Block and Building Supply Co.	Parry Sound
Oaks, J.D., and Son Ltd.	Guelph
Ontario Block and Tile Ltd.	Sunderland
Ontario Building Materials	Toronto
Ontario-Strees-Crete Ltd.	Burlington
Oriole Block Ltd.	Glen Williams
Oxford Silo	Ingersoll
Panes Dunbrik Co. Ltd.	Cooksville
Paris Dunbrik Co. Ltd.	Paris
Parnell Cement Products	Timmins
Patterson Concrete Products Ltd.	Kingston
Peel Block Co. Ltd.	Brampton
Perfect Stone Co. Ltd.	Malton
Pinchin, R., Esq.	Clarkson
Pink, C.J., and Son Ltd.	London
Porter's Septic Tank Service	Lucknow
Precast Building Products Co.	Toronto
Precast Concrete Products	Port Williams
Precast Tank and Vault Co. Ltd.	North Bay
Pre-con Limited	Brampton
Prescott Concrete Vault Co.	Prescott
Priddle, Harold	Glen Meyer
Primeau Argo Block Co. Ltd.	Cooksville
Primeau Argo Block Co. Ltd.	Markham
Rainbow Cement Products	Sudbury
Red Circle Concrete Products	Brantford
Reinke, Elmer A.	Eganville
Reliance Brick Co. Ltd.	Cooksville
Ren-Car Products Ltd.	Toronto
Richvale Block Supply Co. Ltd.	Richvale
Ridgeville Concrete Works	Ridgeville
Risi Stone Mfg. Co. Ltd.	Richmond Hill
Rogers, Walter H.	Frankford
Royal Manufacture Co.	Toronto
Ruston, Frank, Tile	Gladshill
Ryan Builders Supplies Ltd.	London
Ryan Builders Supplies (Windsor) Ltd.	Windsor
Solovaara, George H.	Copper Cliff
Sandrin, Frank and Co. Ltd.	Weston
Sarnia Concrete Products	Sarnia
Satchell, Milton	Gadhill Station
Sauble Colour Concrete Products	Massey
Sauvé, Dennis, and Sons	Belle River
Schell Industries Ltd.	Woodstock
Schultz Concrete Pipe Ltd.	Kitchener
Scott Building Products	Welland
Seaforth Sewer Tile Ltd.	Seaforth
Seaway Tile	Port Colborne
Seal-Tite Concrete Burial Vault Co.	Toronto
Shouldice Cement Products Ltd.	Shallowlake
Simco Block Co. Ltd.	Barrie
Simfar Building Products	Peterborough
Soo Aggregates Ltd.	Sault Ste Marie



List of Establishments, 1962 - Continued

Name	Location
<b>Ontario - Concluded:</b>	
Southern Concrete Products Ltd.	Chatham
Spun Concrete Structures (Canada) Ltd.	Brampton
Standard Prestressed Structures Ltd.	Maple
Stanley Crawford (Concrete Blocks) Ltd.	Hamilton
Star Stone Products Ltd.	St. Catharines
St. Jacobs Tile Yard	St. Jacob
Storrar Dunbrik Ltd.	Oshawa
Storrar Dunbrik Ltd.	Weston
Superior Concrete Products (London) Ltd.	Lambeth
Superior Vault Co. Ltd.	Islington
Taylor Interlocking Concrete Products	Madoc
Terra Tile of Canada Ltd.	Belmont
Toronto Cast Stone Company Ltd.	Toronto
Trenton Concrete Products	Trenton
Turnbull, L.H., and Son	Grande Bend, Lambton Co.
Twin City Dunbrik Co. Ltd.	Eastview
United Concrete Products Ltd.	Cobourg
Unit Precast Specialties Ltd.	Bells Corners
Unit Step (Ontario) Ltd.	Woodstock
Uxbridge Concrete Products	Uxbridge
Vinette, J. Albert, Esq.	Clarence Creek
Wallace Lockhart	Fingal
Watson Block Co.	Chatham
Watson, I.M.	Lindsay
Wice Concrete Products	Barrie
Wilkinson, William E.	Bridgeview
Wilson Concrete Products Ltd.	Belleville
Wilson's Concrete Products	Omehee
Winona Concrete Products and Plastering Co.	Winona
Wright, J.M., Ltd.	North Bay
Wyevale Cement Block	Wyevale
<b>Manitoba:</b>	
Barkman Manufacturing Ltd.	Steinbach
Bergen Concrete Works	Old Kildonan
Dick's Concrete Products	Winnipeg
Duracrete Building Products Ltd.	Brandon
Goossen, Elmer	Winnipeg
Kildonan Concrete Products, Ltd.	Winnipeg
Larch Concrete Products, Ltd.	Winnipeg
Lee Burial Vault Co., Ltd. (The)	Headingley
Lok-a-Blok Supplies Brandon, Ltd.	Brandon
Perma-Crete Products	Clanwilliam
Pressure-Crete Ltd.	Winnipeg
Pugh, Elmer	Gladstone
Quigley's Cement Works	Ashville
R and D Concrete Products	Winnipeg
Rusti-Krete of Canada Ltd.	Winnipeg
Sifton Concrete Works	Sifton
Steinhagen Vaults, Ltd.	Winnipeg
Supercrete, Ltd.	St. Boniface
Wall Construction Co., Ltd.	Winnipeg
<b>Saskatchewan:</b>	
A and B Concrete Products	Saskatoon
Apex Concrete Products	Saskatoon
Cindercrete Block Mfg. Co.	Swift Current
Cindercrete Products Ltd.	Regina
Commeyne Concrete Products	Redvers
Concrete Drainage Pipe (Sask.) Ltd.	Saskatoon
Concrete Products Western Ltd.	Regina
Consolidated Industries, Ltd.	Regina
Eastend Block Co., Ltd.	Eastend
Lloydminster Concrete Block & Pipe	Lloydminster
Mappin Concrete Products	Prince Albert
Nipawin Concrete Products Ltd.	Nipawin
Precast Concrete Co. Ltd.	Regina
Saskatoon Precast Concrete Ltd.	Saskatoon
Souris Valley Septic Tanks	Weyburn
Suburban Industries Limited	Saskatoon
Weldon's Concrete Products	Saskatoon
Westcon Concrete Products	Saskatoon
Yorkton Concrete Products, Ltd.	Yorkton
<b>Alberta:</b>	
Alberta Dunbrik Co. Ltd.	Calgary
Ambler's Precast Concrete Slabs	Edmonton
Architectural Concrete Products	Calgary
Bow Valley Concrete Bldg. Products	Calgary
Burtex Industries Limited	Calgary
Chemolli, Agostino	Lethbridge
Concrete Drainage Pipe	Edmonton
Con-Force Products, Ltd.	Calgary
Con-Force Products, Ltd.	Edmonton
Con-Force Products, Ltd.	Lethbridge
Consolidated Concrete, Ltd. (Block Division)	Calgary
Consolidated Concrete, Ltd. (Block Division)	Edmonton
Consolidated Concrete, Ltd.	Edmonton
Consolidated Concrete, Ltd.	Edmonton



List of Establishments, 1962 - Concluded

Name	Location
<b>Alberta - Concluded:</b>	
Consolidated Concrete, Ltd.	Lethbridge
Consolidated Concrete, Ltd. (Pipe Division)	Calgary
Consolidated Concrete, Ltd.	Red Deer
Czar Block Ltd.	Metishow
Du-Al Block, Ltd.	Edmonton
Edmonton Concrete Block Co. Ltd.	Edmonton
Edmonton Reinforced Concrete Prod. Ltd.	Edmonton
Penrick Prestressed Concrete, Ltd.	Edmonton
H. Q. Concrete Supplies, Ltd.	Edmonton
Kimmitt Concrete Ltd.	Lethbridge
Kimmitt Concrete Ltd.	Medicine Hat
Kruger Concrete Products (Calgary) Ltd.	Calgary
Kruger, P. Concrete Products, Ltd.	Edmonton
Lloydminster Pre-Cast Septic Tanks	Lloydminster
Loder's Lime (Alberta) Ltd.	Calgary
Mackie's Concrete (Grimshaw) Ltd.	Grimshaw
Mackie's Concrete Products, Ltd.	Grand Prairie
National Concrete Block Co. Ltd.	Edmonton
Newsome Concrete Block Co. Ltd.	Camrose
Northwest Concrete	Grand Prairie
Pacific Concrete Enterprises, Ltd.	Edmonton
Perma-Crete Precast	Edmonton
Proctor Concrete Products	Calgary
Ritz Construction Ltd.	Edmonton
Sanston Manufacturing Co. Ltd.	Edmonton
Smoky Lake Concrete Works	Smoky Lake
Stel-Marr Concrete, Ltd.	Edmonton
Stoy Cement Co. Ltd.	Calgary
St. Paul Concrete Products Ltd.	St. Paul
Superlor Cement Works	Ponoka
Tex-Crete Cement Products	Lethbridge
Toews, Levi, Building Block	Linden
Trall Concrete Products	Edmonton
Tru-Cast Step	Edmonton
Unit Step (Alberta) Ltd.	Calgary
Vanguard Concrete Products, Ltd.	Edmonton
Westlock Cement Products	Westlock
Woods Cement Works	Calgary
Zono-Crete Manufacturing	Edmonton
<b>British Columbia</b>	
Aldergrove Cement Tile Products	Aldergrove
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.	North Surrey
Concrete Castings, Ltd.	Burnaby
Courtenay Concrete Products, Ltd.	Courtenay
Crest Cements of Canada, Ltd.	Burnaby
Danforth, Harry E., Concrete and Brick Mfg.	Enderby
Dania Cement Products	Parson
Dupont, Gordon	Cable Hill
Durra Pipe Co. Ltd.	North Surrey
Evans, Coleman and Evans, Ltd. (B.C. Concrete Divn.)	Vancouver
Evans, Coleman and Evans, Ltd. (Marpole Brick Divn.)	Vancouver
Evans, Coleman and Evans, Ltd. (Precast Division)	Vancouver
East Kootenay Block Co.	Cranbrook
Flint, C.W. (Jr.)	Salmon Arm
Graybar Precast Ltd.	Burnaby
Interior Cement Works and Construction Co. Ltd.	Grand Forks
Jensen, Mads M. (Osyoos Tile Works)	Osyoos
Johnny's Concrete Products	Charlie Lake
Kamloops Brick and Block, Ltd.	Kamloops
Kanaka Concrete Products	Haney
Korpack Cement Products Co. Ltd.	Trail
Langley Concrete Tile, Ltd.	Langley Prairie
MacGregor Concrete Products	Cranberry Lake
Mount Ida Concrete Products	Salmon Arm
Nanaimo River Cement Products, Ltd.	Nanaimo
Pacific Brick and Block, Ltd.	North Vancouver
Prince George Concrete	Prince George
Progress Cement Block and Tile Co. Ltd.	North Vancouver
Randall, A. Cement Products	Mission City
Revelstoke Concrete Products, Ltd.	Revelstoke
R and H Builders	Kamloops
Saunderson Cement Products, Ltd.	Vancouver
Sasges Cement Products, Ltd.	Vernon
Superior Concrete Products, Ltd.	North Vancouver
Valley Cement Works	Abbotsford
Valley Concrete Products, Ltd.	Penticton
Veddar Crossing Concrete Products	Veddar Crossing
Vernon Brick and Tile Co.	Vernon
Watson Lake Cement Block Co.	Watson Lake (Yukon)
West Coast Concrete Works	Alberni
Westone Construction Products, Ltd.	Penticton
Westone Construction Products, Ltd.	Vernon
Williams Concrete Co.	Vancouver
Wilson Pumice Products Ltd.	Kelowna

## EXPLANATORY NOTES

This report is one in a series of about 140 publications which present the results of the 1962 Census of Manufactures. Most reports in this series refer to specific industries, but there are summary reports for Canada and the provinces and special reports on geographical distribution and on type of ownership and size of establishments.

With the publication of the results of the 1962 Census of Manufactures, the Bureau has completed a major revision in the classification and concept of its annual census of manufacturing establishments. Because of its size and complexity, this project had to be carried out in three stages. The first stage was the change in classification and the results of the 1960 Census, together with the re-compilation of the 1957, 1958 and 1959 Censuses were published in the 1960 reports on the basis of the revised Standard Industrial Classification. This part of the project was confined entirely to a re-coding of existing reporting units. The second stage consisted of the implementation of the new definition of the reporting unit i.e. "establishment" as it applied to **manufacturing activities** of manufacturing establishments (See following note on "Establishment"). Results of the 1961 Census reflected this change in concept and, in order to provide comparability of data for recent years, the 1961 reports contained principal statistics on the basis of the new establishment definition for years back to 1957.

The third stage which was the extension of the definition of the establishment to cover **total activities** of manufacturing establishments is reflected in the statistics for 1961 and 1962 contained in this report. This full implementation of the new definition of the establishment has resulted in an extension of the data to non-manufacturing activities of manufacturing establishments and in additional changes in the 1961 statistics of manufacturing activities. Statistics on manufacturing activities will continue to be shown separately as in the past but, beginning with 1961, data on all operations (total activity) of manufacturing establishments will also be given. By definition "total activity" relates to all operational data and excludes such non-operational items as rent, interest and dividends. In addition, statistics on man-hours paid will be included as part of the regular series of industry statistics. For many industries, adjustments and revisions were made to the 1961 data on **manufacturing activities** which were published during the second stage to bring them in line with reporting procedures followed in the 1962 Census and to reflect the final application of the new concept. The 1961 statistics on manufacturing activities contained in this report are thus not entirely comparable with those published in the 1961 reports. However, the 1961 statistics are shown in this publication in both their original and revised forms in order to provide a link with the immediate past. A more complete account of recent changes and additions and brief descriptions of the principal industry statistics are given in following sections of these notes.

### Standard Industrial Classification

The revised Standard Industrial Classification which was introduced with the 1960 Census of Manufactures and applied to the results of the 1957, 1958 and 1959 censuses provides for a breakdown of the manufacturing universe into 140 industries arranged in 20 major groups. Custom Tailoring Shops is the only industry class in the Manufacturing Industries Division of the classification which is not covered in the annual Census of Manufactures. It is surveyed as part of the Decennial Census of Merchandising and Service Establishments. Of the 140 "three-digit" industry classes in the Manufacturing Industries Division, 21 are further broken down into 67 "four-digit" sub-classes. With the exception of the Wood Preservation and Sound Recording industries, the figures for which are at present confidential and have to be included with those of related industries, the statistics for all of the "four-digit" sub-classes are published regularly. Thus, at the Canada level, principal statistics are compiled for 183 industries. These cannot all be published separately by province because of the confidential nature of the data in certain provinces.

Reporting establishments are classified or allotted to specific industries in the classification system on the basis of the value of principal products made or shipped. In general, establishments primarily engaged in repair work (Shoe Repair Shops, Motor Vehicle Repair Shops etc.) are not included in manufacturing industries. Exceptions are establishments primarily engaged in furniture, ship, boat, aircraft and railroad rolling stock repairs which are classified to the manufacturing industries producing the products involved. Establishments primarily engaged in assembling parts into complete units have always been included in manufacturing industries.

Full details concerning the revised classification system are contained in the Standard Industrial Classification Manual, Catalogue No. 12-501, which is available from either the Queen's Printer or the Dominion Bureau of Statistics.

It should be noted that two new industries (Poultry Processors and Dental Laboratories) and three new groups of establishments (book publishers in the Publishing Industry, electro-plating establishments in the Metal Stamping, Pressing and Coating Industry and prescription branches in the Ophthalmic Goods Manufacturers Industry) have been included in the 1961 (revised) and 1962 Census statistics and will continue to be included thereafter. They were surveyed for the first time in the 1960 Census (1961 Census in the case of prescription branches) in line with the revised classification but, since they did not represent new production, they were removed from the 1960 and 1961 compilations published in the 1961 Census reports in order to provide complete comparability of data over the period 1957-61. Statistics for this period are repeated in the 1962 reports to supply a link with the revised 1961 data and the new 1962 statistics.



## Establishment

The reporting unit in the Census of Manufactures is the **establishment**. The majority of establishments are firms, but many firms have more than one manufacturing establishment. Such firms are requested to submit a separate Census of Manufactures report for each manufacturing establishment which can meet the reporting requirements described below.

Beginning with the 1961 Census of Manufactures the establishment is defined as follows:

"The smallest unit which is a separate operating entity capable of reporting all 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,  
Inventories,  
Shipments or sales."

Following is a description of the main features of the new establishment concept introduced in the 1961 Census, how they differ from those of the old "activity" concept and the steps taken to correct for breaks in continuity.

(a) The establishment is to be distinguished from smaller subdivisions or departments which do not have records that permit them to report all items required of an establishment. Prior to 1961, some establishments were required to submit two or more separate reports when they were engaged in activities which were classifiable to different industries. Beginning with 1961, separate reports for such activities are required only in cases where accounting records can provide the necessary input and output elements of principal statistics. Special reporting arrangements were made with respondents when the acceptance of combined reports would have seriously affected the statistics for particular industries or areas. Where continuity of industry statistics was affected by this change in reporting procedures, adjustments to the data were made back to 1957 in order to maintain comparability of the series for recent years.<sup>1</sup>

(b) A manufacturing establishment is typically a factory, mill or plant principally engaged in manufacturing activities. Prior to 1961, the Census of Manufactures attempted to cover the manufacturing activities of all establishments, whether or not they were primarily engaged in manufacturing. Beginning with the 1961 Census, establishments (accounting entities) which are not primarily engaged in manufacturing are no longer included as manufacturing establishments in the basic industry statistics.<sup>1</sup>

<sup>1</sup> Most of these adjustments were made when the results of the 1961 Census were being compiled. Since publication of these results in the 1961 reports additional adjustments were made to the 1961 data, as noted earlier, and these are reflected, where applicable, in the revised 1961 statistics contained in this report.

Again, adjustments were made to reflect the removal of such reporting units for the period 1957-60. These reporting units are now listed as establishments in other Bureau surveys, such as Wholesale Trade, Construction etc. This has resulted in a somewhat smaller universe represented by the Census of Manufactures. In terms of overall 1960 Census results, the number of establishments transferred to other industries totalled 2,786 or 8% but these represented only 0.7% of total employment and of total value of shipments of manufactured products. In order, however, to maintain complete coverage of certain commodity items produced mainly in manufacturing establishments, many non-manufacturing establishments are now surveyed by the Industry Division for commodity shipments only and the latter are included in those tables of industry reports showing shipments of certain commodities "from all industries".

(c) A manufacturing establishment may be, and often is, engaged in other activities in addition to its principal manufacturing activity. Prior to 1961 the main emphasis in the Census of Manufactures was on manufacturing activity. Beginning with 1961, each establishment reports on all the activities carried out within its accounting boundaries (except income from investments such as rent, interest and dividends) and data on different activities (manufacturing, trading in goods not of own manufacture, construction by own labour force, revenue from services etc.) are requested separately. However, the statistics published in the 1961 reports were confined to manufacturing activity only in order to maintain comparability with previous years and to permit a more thorough audit of the new data. The 1962 reports contain principal statistics on total activities of manufacturing establishments for 1961 and 1962 with the main elements of manufacturing activity shown separately as in the past. It should be noted that the statistics for separate activities are not completely consistent. Some respondents cannot distinguish in their records materials, shipments and inventories relating to own manufacturing activities from those relating to goods not of their own manufacture or to other activities and can report operational data in total only under manufacturing activity. This situation has always existed, however, and is not considered important enough to invalidate the use of the data in the measurement of manufacturing as an "activity". The values assigned by the respondent to materials and shipments of own manufactured goods include costs in varying degrees that relate to internal (to the establishment) transportation, warehousing and selling activities, but it is not possible to make adjustments to arrive at a uniform valuation for manufacturing activity only; although valuation at the establishment "boundary" must be accepted, the items valued under manufacturing activities still relate, in most cases, to "goods of own manufacture". In the case of employment only data on manufacturing production workers and manufacturing man-hours can be assigned, in total, to manufacturing activity; administrative and office employees can seldom be allocated to separate activities.



Complete consistency, therefore, can be obtained only at the "all operations" (total activity) level, and for studies or statistical measures requiring accurate co-ordinated data, the "total" statistics should be used.

(d) Additional changes resulted from intensive editing and follow-up consistent with the introduction of the new concept. An example of such changes is the provision for the elimination, in total, of sales taxes and outward transportation charges from value of shipments. Prior to 1961, although the value of shipments for each product was requested excluding taxes and transportation charges, no allowance had been made for the reporting of these items in total when the respondents' records did not permit their deduction from the values of the individual products. Another example is a change in the valuation of shipments where, prior to 1961, a manufacturing company operating warehouses or sales outlets was reporting value of shipments in terms of an estimated manufacturer's price in accordance with the old activity concept, even though his records were not kept on this basis. Since the accounting boundary in such cases extends to distribution operations, the respondent was instructed in 1961 to report shipments at the final selling price in order to obtain more realistic and accurate data.<sup>2</sup> Adjustments were made to the value of shipments for the period 1957-60 to reflect such changes and maintain continuity of the shipments data. Since no actual data to make these corrections were available for back years, 1961 adjustment ratios were applied to the previous years for each industry affected, on the assumption that the valuation changes in 1961 applied in equal proportions to the preceding period.<sup>3</sup>

(e) The new concept also demands that inventories held apart from plant be included with plant inventories if establishment boundaries extend to warehouses and sales outlets. Prior to 1961, compilations took into account only the inventories held at plant. In this case, however, most of the missing data were available from supplementary questions in the Annual Census and from the Monthly Inventories and Shipments Survey and actual corrections could be made for previous years.

<sup>2</sup> Some manufacturing firms operate sales branches or selling warehouses as separate sales establishments for which complete accounting records of receipts, expenses, employment and sales are maintained. In such cases the plants, in effect, "sell" to the sales outlets on much the same basis as they would to independent buyers. The value of plant shipments is based on factory prices and the "boundary" of the manufacturing establishment does not extend beyond the plant. The sales outlets in such cases constitute separate sales establishments and are classified to wholesale or retail trade. Some sales outlets of manufacturing firms, although they physically handle products of the plants, do not maintain separate accounts and are generally treated for statistical purposes as extensions of manufacturing operations. Special arrangements were made for separate reporting in a few cases where the treatment of such outlets as manufacturing extensions would seriously affect the significance of statistics for particular manufacturing and trade industries.

<sup>3</sup> See footnote 1.

(f) Prior to 1961 the Census of Manufactures did not have complete coverage of head and administrative offices and had never surveyed separate sales offices, warehouses or laboratories operated by manufacturing firms. Beginning with the 1961 survey, complete coverage of these auxiliary units was effected. In the past the employment and salaries and wages of those head and administrative offices that were surveyed were either coded in total to the industry in which the greatest portion of the company's manufacturing activities was classified or else, in the case of certain large multi-unit firms with establishments in several industries, were pro-rated among the different industries involved. In the original 1961 statistics published in 1961 reports, the same coverage and treatment of head offices was applied to maintain comparability over the 1957-61 period. Beginning with the revised 1961 statistics, all head offices and auxiliary units are covered and are processed according to the methods described below.

### 1. Single-Establishment Companies

In the great majority of cases central administrative and executive personnel of companies consisting only of one establishment are generally located at the site of the manufacturing plant and are automatically included in the plant reports. Where head offices and auxiliary units are geographically separate from plant locations and employ a sizeable number of workers they are surveyed on special questionnaires.

Separately located head offices, sales offices, administrative offices and other separate auxiliary units (laboratories, warehouses, etc.) do not usually constitute separate establishments<sup>4</sup> for purposes of industry statistics since they do not normally generate operational revenues but give rise only to costs of operation (mainly salaries and wages) which make up part of the selling price of manufactured products and which are thus included in the value of shipments or sales. Where such units belong to single-establishment companies, they will be considered as extensions of the establishment's boundaries and their operations consolidated with the establishment's total activity.

### 2. Multi-Establishment Companies

In the case of companies with more than one establishment the following rules are applied:

(i) Where all the establishments of a company are classified to the same (three-digit) industry, the head office and other auxiliary units are coded to that same industry.

(ii) Where the establishments of a company are not all classified to the same (three-digit) industry but are coded to different industries, or industries in different industry groups or even different divisions

<sup>4</sup> See footnote 2 for exceptions.

of the Standard Industrial Classification, the inclusion of data for head office and auxiliary units in any one of the (three-digit) industries concerned would distort the relationship between items of principal statistics. In such cases, the auxiliary units are coded at the group (two-digit) level in tabulations of industry statistics. Where multi-establishment companies cut across group or major division lines of the Classification, the head office and auxiliary units will be coded to the (two-digit) industry group in which the major part of the company's operations are classified. Although this may result in some distortion of (two-digit) industry group statistics it will eliminate distortion within groups as it will leave statistics at the (three-digit) industry level free of these company-wide data.

### **Period Covered**

Respondents are asked to submit figures for the calendar year, if at all possible, and most reports are on this basis. Financial year reports for periods differing from the calendar year are accepted in instances where respondents find it impossible to supply calendar year data from accounting records. However, the data on employees, salaries, wages and man-hours are requested on a calendar year basis in all cases.

When establishments are operated for only a portion of a year, a report is required covering the period of operation.

### **Working Owners or Partners**

Beginning with the revised 1961 statistics working owners and partners of unincorporated businesses are shown as a separate category in the principal statistics and are neither included in the number of employees nor in 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. In all previous reports of the Census of Manufactures these workers were included as part of the number of administrative and office employees and their withdrawals were included as part of salaries. Withdrawals are defined as amounts withdrawn by owners or partners for normal living expenses, excluding withdrawals for payment of income tax.

### **Number of Establishments**

The number of establishments represents the number of operating units (accounting entities as per the new definition of the establishment) for which separate reports are submitted. Head offices located apart from establishments and which are surveyed separately and separate sales and administrative auxiliaries that are treated as extensions of manufacturing activities are not included in the establishment count. However, the operational statistics (employment, salaries etc.) of such auxiliary units which are coded at the "three-digit"

level are included in the principal statistics of industries coded at the same level; those units coded at the "two-digit" level are included with the statistics for groups of industries.

### **Employees**

As noted above, the number of working owners and partners are excluded from the number of employees, beginning with the revised 1961 statistics. This change brings the definition of "employees" in the Census of Manufactures in line with that of "employees" in the Bureau's monthly Employment Survey and with that of "paid workers" in the Bureau's Labour Force Survey. For purposes of historical comparisons, the number of working owners and partners should be added to total employees (beginning with the revised 1961 data) in order to correspond with the figure of "total employees" published in previous reports concerned with the Annual Census of Manufactures.

In addition to production and related workers engaged in manufacturing activities, total employees include administrative, office, sales and distribution workers as well as any production workers employed in non-manufacturing activities such as construction undertaken for the use of the establishment by its own employees (when these are treated as a separate work force) or logging (mostly in connection with sawmills or planing mills). Number of employees represents as closely as possible equivalent annual full-time employment. Adjustments are made when reported figures indicate the existence of part-time or seasonal employment.

Administrative and office employees include all executive and supervisory officials such as presidents, vice-presidents, controllers, secretaries, treasurers etc., together with managers, professional, technical and research employees, superintendents and factory supervisors above the working foreman level, and clerical staffs. Also included are employees in activities such as advertising, credit collections, purchasing, personnel, legal, medical etc. Sales and distribution workers include office personnel whose salaries are charged to selling expense, travelling salesmen, driver salesmen, truck drivers and their helpers, etc. They exclude persons working on a commission basis who are not considered regular employees.

Production and related workers in manufacturing activities include, in addition to those engaged in processing and assembling, those employed in storing, inspecting, handling, packing, warehousing, etc. They also include employees in related activities such as maintenance, repair, janitorial and watchman services. Working foremen doing similar work to that of employees they supervise are also included. Production workers employed in non-manufacturing activities such as construction undertaken for the use of the establishment, logging



employees or outside piece-workers employed in certain industries are excluded from the number of production and related workers but are part of the total number of employees in those industries.

Production and related workers 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 twelve. This procedure is followed even though the plant did not operate in all months in order to derive equivalent annual full-time employment. The numbers are somewhat affected by turn over, in that employment is overstated when an employee changes employment within the same industry during a pay period. Other categories of workers are reported in the form of annual averages. Figures on employment and man-hours refer to the calendar year whether or not some establishments report other data on a financial year basis.

Man-hours of production and related workers in manufacturing activities 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.

#### Salaries and Wages

Salaries and Wages refer to gross earnings of the employees described above, **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 workers' earnings. Payments for overtime are included.

Wages refer to amounts paid to production and related workers engaged in manufacturing operations as defined above. Salaries refer to amounts paid to all other categories of employees including relatively small numbers of production workers engaged in construction and extractive operations or who are employed as outside piece-workers. Figures on salaries and wages refer to the calendar year whether or not some establishments reported other data on a financial year basis.

#### 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.

#### Materials and Supplies

(a) Used in 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. The statistics represent only commodity items or physical goods (costs 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. Respondents are required to report materials and supplies **used not purchased.** 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) Purchases for resale as such. Figures represent the 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.

(c) 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. Value of construction and repair work done by outside contractors is 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 medical supplies, laboratory supplies etc.

#### Shipments

In general the figures represent revenue from all production, sales, services and related activities of reporting establishments. Non-operating revenues such as rent, interest and dividends and the sale of used fixed assets are excluded.



#### (a) 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 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. (See notes on "Establishment").

Such shipments are net of returned goods, and value figures at the establishment exclude discounts, returns, allowances, sales taxes and excise duties, returnable containers, and charges for outward transportation by common or contract carriers. Transportation or delivery expenses incurred by the reporting establishments' own carriers are not deducted.

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 form B.13 "Customs Canada, Export Entry" has been completed, are treated as shipments.

In four industries, viz. Fabricated Structural Metal Industry, Aircraft and Parts Manufacturers, Railroad Rolling Stock Industry and Shipbuilding and Repair, where work on principal products extends over a relatively long period, the value of production, rather than the value of shipments, is recorded. For these industries value of production is computed from the value of deliveries of complete units during the year plus the value of work done during the year on unfinished units less the value of work done in previous years on units delivered in the year under review. Adjustments to the value of shipments are also made for firms in these industries and in some other industries which operate on the basis of progress payments. The latter are treated as sales and not as inventory, so that for firms which use a progress payments account, an adjustment to the value of shipments is made for the net change in this account during the year.

#### (b) Shipments of goods not of own manufacture

These figures represent the net selling value at the establishment (less discounts, returns, allowances, sales taxes and excise duties 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 goods on a rental basis value of shipments represents the book value of such goods. All sales of consignment goods from other countries are included.

#### (c) Other revenue

Figures represent the book value of fixed assets, if any, (new construction and machinery and equipment including major repairs and alterations, additions, modifications, installation and assembly work) produced during the year for the use of reporting establishments by the establishments' 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 establishments' own employees, such as revenue from goods produced for rental (the book value of such goods are included as part of factory shipments), servicing revenues, commissions on sales (when not included in value of sales), revenue from company-operated cafeterias and lunch counters and revenue from outside installation or construction work not related to the establishments' 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 inventory

Values represent the book value of manufacturing inventory owned in Canada. The value of inventory held for which progress payments have been received is treated as shipments and is not included in inventory owned. 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. Inventory owned abroad has already been reported as shipments and is excluded.

##### (b) Inventory of goods purchased for re-sale

Figures represent the book value of inventory of goods purchased for re-sale as such without further processing, owned by reporting establishments and held at the plants and at any warehouses or selling outlets which are treated as extensions of establishments. Inventory owned in transit in Canada or on consignment in Canada is included.

Because of changes in classification, the receipt of revised data, the inclusion of new establishments or the removal of old establishments which did not operate during the latest year, the opening inventory for the latest year does not necessarily coincide with the closing inventory of the preceding year.

#### 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 total activities

Figures consist of value added by manufacturing activities plus value added by non-manufacturing activities and is compiled by deducting the cost 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, adjusted for changes in the value of inventories of goods purchased for re-sale.

"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 in 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.

### Short Forms

Since 1949, in order to ease the reporting burden for smaller firms, a one-page short form has been used asking for only a limited amount of detail. For purposes of publication, missing data were estimated on the basis of appropriate ratios. Beginning with the 1959 census, the general limit for short forms was raised from \$50,000 (the limit used since 1949) to \$100,000 value of shipments and a new medium form was used. This form is a shortened version of the long form in that some of the general questions were pared down and the detailed lists of materials and products were limited to the more important items. The general limits for firms in this category were set at between \$100,000-\$500,000 value of shipments, but in the case of both the

short and medium forms there are lower cut-offs for a number of industries in which the smaller firms account for a larger share of total shipments.

Prior to 1961, the short form was limited to a question on the principal items of factory shipments. In the 1961 and 1962 censuses, in addition to the question on shipments of goods of own manufacture, general questions on employment and payroll and on total revenue were added on all short forms. The other elements of principal statistics, viz. value of materials, fuel and electricity and inventories, were estimated by using ratios based on the change in the value of shipments reported in 1961 and 1962. This was done to permit the complete compilation of basic industry statistics by industry and by geographic location. The proportions of the estimated data was generally less than 5 per cent of the total in each category of principal statistics.

Beginning with the 1963 census, general questions on total purchases of materials, fuel and electricity and on total inventory were added on the short forms. The two questions, however, were designed so that the data can be easily derived from respondents' regular accounting records. This will permit a complete tabulation of principal statistics without the necessity of estimating missing items and will result in increased accuracy for rural area statistics where small firms account for a relatively important part of industrial output.

The addition of extra questions on the short form in recent years has also permitted an increase in the cut-off limits for short forms in many industries. This has meant that many more firms are now receiving the short form instead of the long or medium form. It has also resulted in the withdrawal of the medium form in a number of industries, thus further simplifying collection and tabulation procedures.







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