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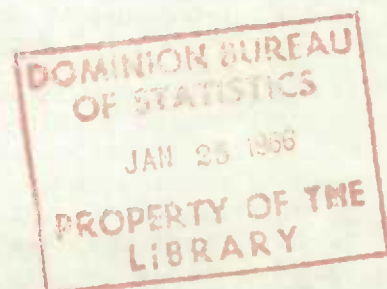
ANNUAL



READY-MIX CONCRETE MANUFACTURERS

1963

ANNUAL CENSUS
OF MANUFACTURES



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READY-MIX CONCRETE MANUFACTURERS

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Data presented in this report under the heading of Ready-Mix Concrete Manufacturers reflect implementation of the revised Standard Industrial Classification (S.I.C.) 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 Ready-Mix Concrete Manufacturers in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in mixing and delivering ready-mix concrete.

The establishments in this industry manufacture ready-mix concrete as their main product. Figures on cement work undertaken by firms classified for statistical purposes in the area of "Construction" are not included. The latter type of work has been covered in the annual survey of construction.

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.
- ▮ preliminary figures.
- ʳ revised figures.
- x confidential to meet secrecy requirements of the Statistics Act.

TABLE 1 A. Principal Statistics classified by Province, 1962 and 1963

Year and province	Establishments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1961													
Totals	158	3,238	7,807	14,868	3,480	66,750	106,399	36,236	14	35	4,232	20,203	39,296
1962													
Newfoundland	3	217	513	795	160	2,744	4,805	1,882	x	x	276	1,060	2,230
Prince Edward Island	—												
Nova Scotia	6												
New Brunswick	5												
Quebec	47	1,381	3,533	6,678	2,068	24,699	45,098	18,346	8	25	1,669	8,204	20,089
Ontario	71	1,259	2,956	6,397	1,430	31,844	49,942	16,672	8	31	1,754	9,559	18,710
Manitoba	6	75	181	376	104	2,112	4,617	2,401	x	x	114	645	2,451
Saskatchewan	8	108	251	441	135	3,001	4,452	1,316	x	x	160	641	1,557
Alberta	18	389	918	1,841	307	9,252	15,149	5,614	x	x	474	2,370	6,008
British Columbia	28	362	745	2,000	367	5,718	9,218	3,095	4	11	439	2,401	4,163
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	192	3,781	9,097	18,527	4,592	79,370	133,282	49,327	25	82	4,886	24,880	55,208
1963													
Newfoundland	3	x	x	x	x	x	x	x	—	—	x	x	x
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	7	64	142	222	78	1,062	1,802	660	x	x	84	294	669
New Brunswick	6	x	x	x	x	x	x	x	—	—	x	x	x
Quebec	51	1,500	3,721	7,402	2,360	28,068	52,652	22,195	—	—	1,924	9,514	24,598
Ontario	73	1,356	3,270	7,029	1,789	34,134	53,417	17,489	x	x	1,922	10,247	18,966
Manitoba	7	94	197	438	159	2,743	4,816	1,935	x	x	134	721	1,965
Saskatchewan	9	111	241	436	145	3,553	5,811	2,113	x	x	166	633	2,415
Alberta	20	349	819	1,607	383	8,160	13,184	4,630	7	29	434	2,138	5,041
British Columbia	30	445	895	2,284	415	7,006	11,972	4,716	7	30	535	2,727	5,234
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	206	4,084	9,661	20,052	5,454	86,608	147,093	55,197	18	71	5,411	27,131	60,875

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Under \$10,000.....	—	—	—	—	—	—	—	—	—	—	—	—	—
\$ 10,000 to \$ 24,999.....	5	4	5	8	5	56	80	19	—	—	7	11	19
25,000 " 49,999.....	13	25	49	76	33	293	510	184	10	32	35	97	196
50,000 " 99,999.....	19	65	138	234	69	785	1,421	565	5	16	91	321	645
100,000 " 199,999.....	35	176	397	664	224	2,825	4,935	1,891	7	26	232	893	1,970
200,000 " 499,999.....	47	492	1,175	2,026	582	8,874	15,040	5,584	3	8	640	2,643	6,230
500,000 " 999,999.....	41	727	1,712	3,348	1,003	17,282	27,279	9,030	—	—	969	4,702	10,388
1,000,000 " 4,999,999.....	29	1,729	4,096	8,882	1,794	35,909	60,503	22,769	—	—	2,107	11,527	25,550
5,000,000 and over.....	3	573	1,525	3,289	883	13,346	23,514	9,286	—	—	759	4,349	10,233
Head offices, sales offices and auxiliary units.....	...	...	...	...	...	...	...	...	...	...	46	336	(22)
Totals.....	192	3,791	9,097	18,527	4,592	79,370	133,282	49,327	25	82	4,896	24,880	55,208
1963													
Under \$10,000.....	—	—	—	—	—	—	—	—	—	—	—	—	—
\$ 10,000 to \$ 24,999.....	4	3	6	6	3	27	62	31	1	3	6	10	31
25,000 " 49,999.....	6	11	21	32	10	108	202	84	2	8	15	36	100
50,000 " 99,999.....	27	99	207	332	113	994	2,013	904	13	52	124	432	919
100,000 " 199,999.....	37	201	454	740	279	3,139	5,421	2,008	2	8	265	1,011	2,136
200,000 " 499,999.....	57	586	1,256	2,363	664	10,669	18,227	6,906	—	—	747	3,092	7,339
500,000 " 999,999.....	41	830	1,807	3,571	996	18,002	29,108	10,103	—	—	1,047	4,726	10,586
1,000,000 " 4,999,999.....	30	1,631	3,893	8,688	2,162	35,619	59,535	21,915	—	—	2,137	11,489	25,049
5,000,000 and over.....	4	723	2,016	4,321	1,226	18,051	32,525	13,247	—	—	998	5,832	14,618
Head offices, sales offices and auxiliary units.....	...	...	...	...	...	...	...	...	...	...	72	504	96
Totals.....	206	4,084	9,661	20,052	5,454	86,608	147,093	55,197	18	71	5,411	27,131	60,875

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Under \$10,000.....	7	7	12	18	10	114	156	32	1	3	12	23	50
\$ 10,000 to \$ 24,999.....	17	45	86	144	44	608	950	295	10	31	57	173	330
25,000 " 49,999.....	28	110	246	406	140	1,757	2,861	965	9	30	152	544	1,055
50,000 " 99,999.....	36	231	535	926	292	4,460	7,335	2,588	4	16	305	1,255	2,632
100,000 " 199,999.....	48	596	1,394	2,633	839	13,319	21,051	6,886	1	2	801	3,643	8,460
200,000 " 499,999.....	34	815	2,032	3,741	896	18,248	29,764	10,667	—	—	1,061	5,221	11,373
500,000 " 999,999.....	13	848	1,885	4,089	707	17,263	27,584	9,619	—	—	999	5,299	11,345
1,000,000 " 4,999,999.....	9	1,139	2,907	6,570	1,663	23,602	43,581	18,275	—	—	1,453	8,386	19,987
5,000,000 and over.....	...	...	...	...	...	...	...	...	...	...	46	336	(22)
Head offices, sales offices and auxiliary units.....	...	...	...	...	...	...	...	...	...	...	72	504	96
Totals.....	192	3,791	9,097	18,527	4,592	79,370	133,282	49,327	25	82	4,896	24,880	55,208
1963													
Under \$10,000.....	5	6	11	17	5	64	104	34	—	—	11	23	50
\$ 10,000 to \$ 24,999.....	14	35	71	106	44	609	928	265	9	38	46	141	292
25,000 " 49,999.....	32	138	296	505	203	2,109	3,501	1,195	7	28	175	658	1,271
50,000 " 99,999.....	45	343	743	1,253	410	5,427	9,113	3,286	2	5	450	1,686	3,415
100,000 " 199,999.....	46	576	1,231	2,434	700	12,759	20,069	6,612	—	—	736	3,226	7,059
200,000 " 499,999.....	40	931	2,147	4,368	1,101	20,752	34,128	12,277	—	—	1,185	5,790	12,763
500,000 " 999,999.....	14	587	1,379	2,870	702	14,007	24,093	9,410	—	—	753	3,883	10,107
1,000,000 " 4,999,999.....	10	1,468	3,784	8,501	2,288	30,881	55,156	22,119	—	—	1,983	11,220	25,821
5,000,000 and over.....	...	...	...	...	...	...	...	...	...	...	72	504	96
Head offices, sales offices and auxiliary units.....	...	...	...	...	...	...	...	...	...	...	72	504	96
Totals.....	206	4,084	9,661	20,052	5,454	86,608	147,093	55,197	18	71	5,411	27,131	60,875

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000							\$'000		\$'000	
1962													
Under \$10,000.....	6	7	11	18	9	78	116	29	11	34	12	25	22
\$ 10,000 to \$ 24,999.....	17	41	79	125	42	563	885	277	8	27	53	152	293
25,000 " 49,999.....	27	106	237	394	134	1,712	2,771	927	5	19	147	529	979
50,000 " 99,999.....	38	239	552	957	302	4,586	7,532	2,647	1	2	314	1,288	2,772
100,000 " 199,999.....	36	358	845	1,607	553	9,593	15,147	4,994	—	—	493	2,220	5,124
200,000 " 499,999.....	44	943	2,303	4,248	1,067	20,754	33,704	11,925	—	—	1,235	5,989	13,318
500,000 " 999,999.....	11	563	1,418	2,805	531	11,250	18,715	6,939	—	—	674	3,766	7,611
1,000,000 " 4,999,999.....	13	1,534	3,652	8,372	1,954	30,835	54,413	21,589	—	—	1,912	10,576	25,111
5,000,000 and over.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units.....	—	—	—	—	—	—	—	—	—	—	46	336	(22)
Totals	192	3,791	9,097	18,527	4,592	79,370	133,282	49,327	25	82	4,886	24,880	55,208
1963													
Under \$10,000.....	4	4	8	11	3	43	76	30	—	—	8	17	30
\$ 10,000 to \$ 24,999.....	13	29	59	81	36	500	768	221	9	38	38	104	246
25,000 " 49,999.....	32	138	293	500	196	2,029	3,394	1,176	7	28	173	644	1,204
50,000 " 99,999.....	43	316	682	1,130	380	4,999	8,355	2,983	2	5	412	1,502	3,105
100,000 " 199,999.....	45	521	1,114	2,260	621	12,360	19,104	6,111	—	—	660	2,952	6,273
200,000 " 499,999.....	45	1,021	2,343	4,699	1,229	21,790	36,147	13,148	—	—	1,312	6,305	13,993
500,000 " 999,999.....	12	510	1,198	2,512	602	12,432	21,110	8,070	—	—	644	3,363	8,047
1,000,000 " 4,999,999.....	12	1,545	3,964	8,858	2,388	32,456	58,139	23,459	—	—	2,082	11,740	27,882
5,000,000 and over.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units.....	—	—	—	—	—	—	—	—	—	—	72	504	96
Totals	206	4,084	9,661	20,052	5,454	86,608	147,093	55,197	18	71	5,411	27,131	60,875

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000							\$'000		\$'000	
1962													
Under 5 employed.....	32	65	130	242	124	1,682	2,807	1,002	15	45	87	291	1,082
5- 14 ".....	79	479	1,112	1,946	561	9,980	16,764	6,223	10	37	632	2,551	6,613
15- 49 ".....	57	1,084	2,598	5,083	1,452	27,243	45,029	16,370	—	—	1,442	7,144	17,516
50- 99 ".....	15	751	1,911	3,532	843	14,432	24,498	9,229	—	—	929	4,828	10,495
100-199 ".....	6	760	1,718	3,818	718	12,864	25,103	11,526	—	—	882	4,566	13,009
200-499 ".....	3	652	1,629	3,906	893	13,169	19,081	4,977	—	—	868	5,165	6,515
500 employed and over.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units.....	—	—	—	—	—	—	—	—	—	—	46	336	(22)
Totals	192	3,791	9,097	18,527	4,592	79,370	133,282	49,327	25	82	4,886	24,880	55,208
1963													
Under 5 employed.....	27	54	113	217	89	1,492	2,606	1,020	9	32	69	257	1,075
5- 14 ".....	90	588	1,263	2,369	707	12,086	20,259	7,461	9	39	761	3,101	7,668
15- 49 ".....	63	1,204	2,668	5,152	1,556	27,383	44,352	15,430	—	—	1,555	7,115	16,477
50- 99 ".....	17	845	2,049	4,210	934	17,071	28,554	10,577	—	—	1,061	5,469	11,374
100-199 ".....	6	697	1,708	3,994	1,111	14,943	30,460	14,382	—	—	940	5,219	16,351
200-499 ".....	3	696	1,860	4,109	1,058	13,633	20,863	6,327	—	—	953	5,468	7,834
500 employed and over.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units.....	—	—	—	—	—	—	—	—	—	—	72	504	96
Totals	206	4,084	9,661	20,052	5,454	86,608	147,093	55,197	18	71	5,411	27,131	60,875

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

Type of organization	Establishments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Individual ownerships	10	26	59	89	35	464	839	341	13	40	33	98	379
Partnerships	6	20	44	70	33	461	719	225	12	42	23	78	227
Incorporated companies	175	3,720	8,934	18,295	4,507	78,226	131,323	48,596	—	—	4,752	24,261	54,412
Cooperatives	1	25	61	71	17	219	401	165	—	—	32	108	212
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	46	336	(22)
Totals	192	3,791	9,097	18,527	4,592	79,370	133,282	49,327	25	82	4,886	24,880	55,208
1963													
Individual ownerships	8	32	68	111	44	424	834	365	9	33	39	134	388
Partnerships	6	9	19	28	15	200	333	118	9	38	10	32	128
Incorporated companies	188	3,999	9,472	19,705	5,331	84,953	144,062	53,946	—	—	5,239	26,216	59,494
Cooperatives	4	44	102	207	64	1,031	1,863	768	—	—	51	245	768
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	72	504	96
Totals	206	4,084	9,661	20,052	5,454	86,608	147,093	55,197	18	71	5,411	27,131	60,875

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

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1962	1963	1962	1963	1962	1963
	\$'000					
Output						
1. Shipments and other revenue	133,282	147,093	19,680	15,073	142,962	162,166
Inventories—Goods of own manufacture:						
Add closing—Goods in process	—	11	...	...	—	11
Finished goods	488	853	...	...	488	853
Less opening—Goods in process	—	10	...	...	—	10
Finished goods	481	687	...	...	481	687
2. Net inventory change	7	167	...	...	7	167
3. Gross output (1 + 2)	133,289	147,260	19,680	15,073	152,969	162,333
Input						
4. Purchases of goods not of own manufacture .....	...	...	11,926	9,008	11,926	9,008
Inventories—Goods not of own manufacture:						
Add opening .....	...	...	1,161	793	1,161	793
Less closing .....	...	...	1,109	849	1,109	849
5. Cost of goods sold (not of own manufacture) .....	...	...	11,978	8,952	11,978	8,952
6. Materials, supplies, components and semi-processed goods	79,370	86,608	1,821	443	81,191	87,051
7. Fuel and electricity	4,592	5,454	...	...	4,592	5,454
8. Gross input (5 + 6 + 7)	83,962	92,062	13,799	9,395	97,761	101,457
Census value added (3-8)	49,327	55,197	5,881	5,678	55,208	60,875

TABLE 3. Employment and Payroll, 1962 and 1963

Year and province	Employees										Salaries and wages					
	Production and related workers				Adminis- trative and office		Sales and distribution		Total employees		Production and related workers		Adminis- trative and office	Sales and distri- bution	Total salaries and wages	
	Manufacturing		Other								Manufacturing	Other				
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female						
	number										\$'000					
1962																
Newfoundland	}															
Prince Edward Island																
Nova Scotia		217	—	—	—	39	14	6	—	282	14	795	—	229	35	1,059
New Brunswick																
Quebec		1,381	—	10	—	214	45	19	—	1,824	45	6,678	35	1,366	126	8,204
Ontario		1,259	—	124	—	231	79	59	2	1,873	81	6,397	716	2,118	329	9,559
Manitoba		75	—	6	—	13	2	24	—	112	2	376	—	83	206	645
Saskatchewan		108	—	—	—	28	5	15	—	155	5	441	24	135	40	641
Alberta		389	—	—	—	58	13	14	—	461	13	1,841	—	457	72	2,370
British Columbia		381	1	—	—	42	15	18	4	419	20	2,000	—	272	130	2,401
Yukon and Northwest Territories		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals		3,790	1	140	—	623	173	153	6	4,706	180	18,527	776	4,640	937	24,880
1963																
Newfoundland		x	—	—	—	x	x	x	—	x	x	x	—	x	x	x
Prince Edward Island		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia		84	—	—	—	17	3	—	—	81	3	222	—	72	—	294
New Brunswick		x	—	—	—	x	x	x	—	x	x	x	—	x	x	x
Quebec		1,500	—	88	—	256	46	34	—	1,878	46	7,402	382	1,554	176	9,514
Ontario		1,354	2	131	—	258	89	87	1	1,830	92	7,029	672	2,038	507	10,247
Manitoba		94	—	—	—	15	2	23	—	132	2	438	—	68	216	721
Saskatchewan		111	—	11	—	25	5	14	—	181	5	436	42	125	29	633
Alberta		348	1	—	—	51	11	23	—	422	12	1,607	—	391	140	2,138
British Columbia		444	1	—	—	44	20	21	5	509	26	2,284	—	284	159	2,727
Yukon and Northwest Territories		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals		4,080	4	230	—	695	186	210	6	5,215	196	20,052	1,097	4,715	1,268	27,131

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

Month	Establishments reporting monthly detail			
	1962		1963	
	Male	Female	Male	Female
	number			
January	2,869	1	3,166	4
February	2,932	1	3,197	4
March	3,184	1	3,415	4
April	3,451	1	3,706	4
May	3,906	1	4,136	4
June	4,062	1	4,243	5
July	4,028	1	4,327	5
August	4,119	1	4,283	6
September	4,056	1	4,282	4
October	3,917	1	4,265	4
November	3,678	1	4,005	4
December	3,164	1	3,412	5
Average for establishments reporting monthly detail (collected only for large establishments)	3,651*	1	3,905	4
Average for small establishments (only annual averages collected)	139	—	175	—
Average for all establishments	3,790	1	4,080	4

TABLE 4. Industry Inventories, 1963

Province	Manufacturing				Non-manufacturing	Total inventories
	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total manufacturing	Products or materials purchased for resale	
book value \$'000						
Opening:						
Newfoundland	x	—	x	x	x	x
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	40	—	12	52	—	52
New Brunswick	x	—	x	x	x	x
Quebec	809	10	258	1,077	—	1,077
Ontario	1,521	—	53	1,574	565	2,139
Manitoba	176	—	50	226	—	226
Saskatchewan	253	—	—	253	—	253
Alberta	435	—	135	570	1	571
British Columbia	424	—	101	525	204	729
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	3,748	10	687	4,445	793	5,238
Closing:						
Newfoundland	x	—	x	x	x	x
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	29	—	10	39	—	39
New Brunswick	x	—	x	x	x	x
Quebec	776	11	227	1,014	11	1,025
Ontario	1,558	—	47	1,605	572	2,177
Manitoba	202	—	72	274	—	274
Saskatchewan	286	—	—	286	—	286
Alberta	332	—	124	456	1	457
British Columbia	549	—	266	815	235	1,050
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	3,817	11	853	4,681	849	5,531

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

Description	1962		1963	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Large establishments which reported commodity detail:				
Bituminous coal:				
(a) From Canadian mines	ton	592	495	7
(b) Imported	"	512	421	7
Sub-bituminous coal (from Alberta mines only)	"	—	—	—
Anthracite coal	"	12	37	1
Lignite coal	"	497	580	7
Coke	"	—	7	—
Gasoline (including gasoline used in cars and trucks) ..	Imp. gal.	8,840,334	9,049,229	3,065
Fuel oil including kerosene or coal oil	"	5,070,694	8,007,380	1,461
Wood	cord	27	11	—
Gas:				
(a) Liquefied petroleum gases	Imp. gal.	281,363	336,315	71
(b) Other manufactured gas	M cu. ft.	—	—	—
(c) Natural gas	"	111,878	158,458	79
Other fuel .....	...	10	...	12
Electricity purchased	kwh.	25,223,591	29,078,320	503
Steam purchased .....	...	6	...	11
2. Estimate for small establishments:				
Fuel and electricity .....	...	130	...	232
3. All establishments:				
Total fuel and electricity used .....	...	4,592	...	5,454

TABLE 6. Materials and Supplies - Manufacturing Activity, 1962 and 1963

Description	1962		1963		
	Quantity	Cost	Quantity	Cost	
		\$'000		\$'000	
1. Materials used:					
Portland cement	bag	48,202,151	41,311	51,292,623	45,317
Sand and gravel	ton	10,422,765	16,506	11,701,244	18,009
Crushed stone	"	5,855,670	9,810	5,873,276	9,463
Cinders	cu. yd.	37,371	81	5,381	15
Reinforcing steel - Wire	ton	183	32	179	28
Other (mesh, rod, etc.)	"	181	46	593	129
Slag	cu. yd.	11,124	66	7,665	18
All other materials and components used ¹ .....		...	4,413	...	6,327
2. Containers and other packaging materials and supplies used					
		...	7	...	108
3. Operating, maintenance and repair supplies used (excluding fuel)					
		...	6,847	...	6,924
4. Amount paid out to others for work done on materials owned by establishments					
		...	249	...	270
Totals					
		...	79,370	...	86,608

¹ No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$2,020,626, in 1962 and \$2,653,635 in 1963.

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

Description	1962		1963	
	Quantity	Value	Quantity	Value
		\$'000		\$'000
1. Products:				
Concrete products:				
Brick	M	3,953	141	3,211
Blocks, (gravel, cinder, other aggregates).....	"	7,547	1,931	5,924
Chimney blocks	No.	39,789	27	31,483
Pipe, (drain, sewer, water) and culvert tile			562	980
Concrete, ready-mixed	cu. yd.	10,430,903	127,939	11,109,574
Other concrete products .....		...	220	...
All other products .....		...	2,813	...
2. Amount received in payment for work done on materials and products owned by others				
		...	285	...
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above				
		...	(615)	...
Net adjustment for establishments receiving progress payments				
		—	—	—
Total adjusted value of shipments and work done				
		...	133,282	...

TABLE 8. Shipments of Selected Goods of Own Manufacture - All Industries
(Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed)

A. Principal Concrete Products, 1954-63

Year	Ready mixed concrete	Concrete building blocks ¹			Concrete pipe, (sewer, water, drain) and culvert tile	Concrete bricks	Artificial stone
		Cinder	Gravel	Other aggregates			
		\$'000					
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	4,606
1957	82,756	3,237	24,492	5,507	18,967	4,692	4,592
1958	91,362	3,342	29,163	5,809	24,245	6,944	5,514
1959	99,927	2,485	30,148	7,195	28,014	6,175	7,965
1960	102,976	1,502	27,449	8,234	27,110	5,000	7,389
1961	107,241	2,476	29,158	9,083	25,617	5,277	6,897
1962	134,077	2,766	31,898	10,231	28,063	5,097	9,825
1963	149,768	1,405	34,079	10,323	28,459	4,218	8,668

TABLE 8. Shipments of Selected Goods of Own Manufacture - All Industries - Concluded
B. Principal Concrete Products, by Provinces, 1963

Products		Quebec	Ontario	Alberta	British Columbia	Other provinces	Canada
Concrete bricks ¹	M	43,936	54,737	525	14,168	6,941	120,307
	\$	1,257,077	2,241,535	19,226	441,407	259,074	4,218,319
Concrete blocks: ¹							
Gravel	No.	36,850,046	101,915,541	2,708,862	5,980,393	11,518,893	158,973,735
	\$	6,210,831	23,000,166	672,491	1,389,132	2,805,885	34,078,505
Cinder	No.	309,118	5,063,593	448,233	29,431	20,000	5,870,375
	\$	49,134	1,208,403	134,470	8,149	5,000	1,405,156
Other aggregates	No.	2,331,495	16,613,214	11,452,083	2,688,002	4,278,093	37,362,887
	\$	694,141	4,310,388	3,444,171	696,310	1,177,985	10,322,995
Concrete pipe (sewer, water, drain) and culvert tile	\$	10,685,596	10,595,711	2,203,155	2,357,744	2,617,128	28,459,334
Concrete, ready-mixed	cu. yd.	4,151,082	4,732,854	988,127	910,075	1,136,018	11,918,156
	\$	49,811,821	58,165,556	12,768,772	12,153,608	16,867,836	149,767,593

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

List of Establishments classified to This Industry, 1963

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

Name	Location
Newfoundland:	
Concrete Products (Newfoundland) Ltd.....	Brookfield Road, St. John's West
McNamara Ready-Mix Concrete Limited	Portugal Cove Road, St. John's
Pinsent's Concrete Ltd.	Brook Street, Stephenville
Nova Scotia:	
Atlantic Building Materials Ltd.	3455 Kempt Road, Halifax
Cape Breton Concrete Ltd.	Port Hawkesbury
Cape Breton Concrete Ltd.	Sydney
Casey, E.L. Construction Ltd.	96 Park St., Amherst
Inter Supply Ltd.	North Provost St., New Glasgow
Vibric Ltd.	Lower Truro
Whebb's Concrete Mix Ltd.	56 Main St., Dartmouth
New Brunswick:	
Bathurst Ready-Mix	150 Main St., Bathurst
Blakeny Concrete Products Ltd.	Commercial St., Moncton
Elmtree Concrete Ltd.	Dunn's Crossing Rd., Fredericton
Gordon's Concrete Products Ltd.	250 Killam Drive, Moncton
H.G. Ready Mix Concrete Co. Ltd.	48 Ramsay St., Campbellton
Martin Ready Mix Ltd.	Queen Street, Edmundston
Quebec:	
Alma Mix Co. Ltd.	Isle Maligne
Amyot Ready Mix Co. Ltd.	700 boul. St-Joseph, Hull
Arnaud Ready Mix Concrete Ltd.	Sept-Iles
Arvida Mix and Supply Co. Ltd.	299, rue Deschênes, Arvida
B. and F. Ready Mix Limited	1515-3e avenue, Val d'Or.
Beaudry O., et Fils Ltée	2455 est, rue Jarry, Montreal 38
Béton Préparé Canadien, Inc.	100, rue Lois, Hull
Bétons Lac St-Jean Ltée	Roberval
Bétonnières Meloche Inc., Les	Dorion
Billet, A., Limitées	1585, boul. des Laurentides, Chomedey
Bourassa, Gaston, Ltée	1250, rue Père Marquette, Trois-Rivières
Chateauguay Ready Mix Enterprise Inc.	83, boul. St-Jean-Baptiste, Chateauguay
Ciment Ro-No Ltée	rue Blanchet, Arthabaska
Ciment Maski Ltée, Les	Louiseville
Comeau Ready Mix Concrete Inc.	Baie Comeau
Compagnie Miron Limitée	2201 est, rue Jarry, St-Michel
Concreters Ready Mix Ltd.	1450, boul. Laurentien, Ville St-Laurent 9
De-Mix Inc.	3350, boul. Laurier, Cité de Lafleche
Dominion Building Materials Ltd.	Cousineau St., Hull
Dominion Building Materials Ltd.	5525 Upper Lachine Rd., Montreal 28
Dominion Ready Mix Inc.	Boul. Bertrand, Québec Ouest
Fabi et Fils Limitée	Boul. Queen Nord, Sherbrooke
Frontenac Ready-Mix Inc.	3101, Chemin Ste-Foy, Ste-Foy
Gagnon, L.P., Ltée	7, Avenue Gagnon, Lévis
Goulet, Marcel	rue Roberval, LaTuque
Guertin, A., Ltée	4190, rue Notre-Dame O., Montréal
International Concrete Materials Inc.	761, Maloney Blvd., Gatineau
Laurentide Ready-Mix and Equipment Inc.	191, rue Fusey, Cap-de-la-Madeleine
Matane Ready Mix Inc.	Matane
Matagami Ready Mix Ltd.	Matagami
Metro Mix Limitée	L'Assomption
Montmagny Ready Mix	Route Trans-Canada, Montmagny
Mount Royal Paving and Supplies Ltd.	37 Jarry St. E., St-Michel

List of Establishments classified to This Industry, 1963 - Continued

Name	Location
Quebec - Concluded:	
Nor Mix Limitée	rue de Martigny (côte Dalhousie), St. Jérôme
Produits de Clément Grandmont, Inc., Les	245, rue St-Charles S., Granby
Quebec Ready Mix Inc.	1,000, rue Goupil, Quebec
Rimouski Ready-Mix Inc.	74, rue Léonidas, Rimouski
Saguenay Premix Inc.	123, boul. St-Jean, St-Jean-Eudes
Saguenay Ready Mix Inc.	310, rue Joliette, Sept-Îles
Sept-Îles Ready Mix	310, rue Joliette, Sept-Îles
Sorel Asphalte Ltée	373, avenue Royale, Sorel
Southern Ready Mix Reg'd	Doscot Plant, Contrecoeurs
St. Johns Ready Mix Co. Ltd.	R.R. # 2, Petit Bernier, St-Jean
St-Marc Ready Mix Ltée	270, rue Legaré, St-Marc-des-Carières
St. Maurice Ready Mix	6383, Boul. des Hêtres, Shawinigan
Thetford Ready Mix Inc.	3e rue, Thetford Mines
Tremblay Ready Mix Ltée	Chibougamau
Unicrete Ready Mix Inc.	Sherbrooke
Valleyfield Ready Mix Inc.	Valleyfield
Verreault, Elzéar, Ltée	3725, rue St-Henri, Gifford
Vlau, Paul, Ready-Mix Inc.	75, boul. Mgr. Langlois, Grande-Île
Ontario:	
A.B.C. Ready-Mix Ltd.	Brampton
Atikokan Cement Products Ltd.	Atikokan
Border Cities Ready Mix Cement	Fort Frances
Brant Transit Mix Ltd.	Harry St. R.R. # 6, Brantford
Canada Building Materials Ltd.	Union St., Sarnia
Canada Building Materials Ltd.	951 Wilson Ave., Downsview
Champlain Ready Mixed Concrete Ltd.	Orillia
Clem's Ready Mix Limited	Port Colborne
Community Building Supplies Ltd.	Downsview
Cross Supplies and Paving Ltd.	1272 Windsor Ave., Windsor
Curran and Briggs Ready Mix Ltd.	991 Simcoe St. S., Oshawa
Delta Ready Mix Limited	235 Superior St., Hamilton
De Luxe Ready Mix Limited	Nobleton
Dominion Building Materials Ltd.	Woodroffe Ave. South, Ottawa
Dominion Building Materials Ltd.	1529 St. Laurent Blvd., Ottawa
Dominion Building Materials Ltd.	Perth
Downey Building Materials Ltd.	244 Bruce St., Sault Ste-Marie
Dyal Mixed Concrete and Materials Co.	2700 Dufferin St., Toronto 19
Elliott Mobile Mix Co. Ltd.	Agincourt
Fox Ready Mix Ltd.	Leamington
Grant Ready Mix Ltd.	250-11th St. W., Cornwall
Howard Concrete and Materials Ltd.	1093 Howard Road, Burlington
Irwin Bob, Ready Mix Concrete Limited	256 Gore St. W., Fort William
J and J Ready-Mix Concrete Ltd.	Tecumseh
King Paving and Materials Ltd.	Oakville
Lalonde Ready Mix Concrete Ltd.	255-10th Street E., Cornwall
Lime-Sand Mortar (Toronto) Ltd.	Symes Road, Toronto 9
Maitland Redi-Mix Concrete Products Ltd.	Tremain St., Listowel
Mallard Ready-Mix Ltd.	555 King Street, Sudbury
McCord, S., and Co. Limited	611 King St. E., Toronto 2
McMaster, Alex Ltd.	549 Woodward Ave., Hamilton
Mel Mix Concrete and Asphalt	Downsview
M.I.T. Mixed In Transit Concrete Limited	Tillsonburg
Mobile Mix Concrete Products Ltd.	72 Ann St., London
Moto Mix Concrete Limited	1 Clyde St., Ottawa
Nor-Shore Ready Mix Concrete Ltd.	McIntyre St., Fort William
North Bay Concrete Supply Co. Ltd.	180 Sherriff Ave., North Bay
Omamee Ready-Mix Concrete Ltd.	Lindsay
Ottawa Pre-Mixed Concrete Limited	1575 Russell Road, Ottawa
Peninsula Ready-Mix Supplies Ltd.	50 Bartlett Rd., Beamsville
Permanent Transit-Mix Concrete Ltd.	Belleville
Permanent Transit-Mix Concrete Ltd.	Cobourg
Permanent Transit-Mix Concrete Ltd.	Kingston
Perth Concrete Products Ltd.	Stratford
Peterborough Ready-Mix Concrete Supply Ltd.	Harper Road, Peterborough
Port Hope Ready Mix Ltd.	Port Hope
Premier Building Materials Limited	Alton
Premier Building Materials Limited	Dixie
Premier Building Materials Limited	Corner of Basin and Souther Sts., Toronto
Premier Building Materials Ltd.	Toro Road, Toronto
Premier Building Materials Limited	Woodbridge
Ready-Mix Concrete (Oshawa) Ltd.	1270 Simcoe St. N., Oshawa
Red-D-Mix Concrete Limited	124 Henry St., Brantford
Red-D-Mix Concrete Limited	Burlington
Red-D-Mix Concrete Limited	Inkerman St., Guelph
Red-D-Mix Concrete Limited	Ft. of Victoria Ave. N., Hamilton
Red-D-Mix Concrete Limited	100 Hume St., London
Red-D-Mix Concrete Limited	Milton
Red-D-Mix Concrete Limited	Niagara Falls
Red-D-Mix Concrete Limited	Preston
Red-D-Mix Concrete Limited	St. Thomas
Red-D-Mix Concrete Limited	Welland
Richvale Ready Mix Ltd.	9137 Yonge Street, Thornhill
Sterling Building Materials Ltd.	2494 Riverside Dr. E., Windsor
Strathroy Reddi-Mix Concrete Ltd.	218 Front St. E., Strathroy
Sutton Ready Mix	Sutton West
Taskey Ready-Mix Limited	184 Regent Road, Downsview
Thunder Bay Concrete Products Ltd.	771 Fort William Rd., Port Arthur
Timmins Gravel Products Co. Ltd.	MacLean Drive, Timmins
Transit Mixed Concrete and Builders Supply Limited	Berryman Avenue, St. Catharines
Victoria Ready Mixed Concrete Ltd.	67 Melbourne St., Lindsay
Way Industries Ltd.	140 Douglas St. W., Sudbury
W.B. and M. Ready Mix Ltd.	Trout Lake Rd., North Bay

List of Establishments classified to This Industry, 1963 - Concluded

Name	Location
Manitoba:	
Alberta Concrete & Supply	3rd Street N.W., Altona
Portage Concrete Products	300-8th Street N.W., Portage-la-Prairie
Provincial Concrete and Building Supply (Divn. of Tallman Gravel and Sand Supply).....	205 Stadacona St., Winnipeg 5
Rand Ready-Mix Limited	445 McPhillips St., Winnipeg
Thompson Supply Company	Thompson
Western Concrete Products Ltd.	20th Street and Park Avenue, Brandon
Wheat City Concrete Products Ltd.	918 McTavish Ave. E., Brandon
Saskatchewan:	
Clark Concrete Ltd.	24-7th Avenue N.W., Moose Jaw
Concrete Mix (Regina) Ltd.	1850 McDonald St., Regina
Dalghiesh and Giroux Bros. Ready-Mix Ltd.	1st Avenue S.W., Weyburn
Nickell Ready Mix	Melfort
Patrick Ready Mix Concrete Ltd.	125-105th Street, Saskatoon
Redi-Mix Concrete Limited	Corner of River and 5th St. W., Moose Jaw
Redi-Mix Concrete Limited	300-10th Avenue E., Regina
Redi-Mix Concrete Limited	810-42nd Street E., Saskatoon
Stodola Concrete (Sask.) Ltd.	Saskatoon
Alberta:	
Alberta Concrete Products & Co. Ltd.	8635 Stadium Road, Edmonton
Camrose Transit Mix Limited	5011-47th Street, Camrose
Consolidated Concrete Limited	5440-1st Street S.W., Calgary
Edmonton Transit Mix and Supply Co. Ltd.	50th Street and HW 3-14, Edmonton
Forden Concrete Ltd.	11121-156th Street, Edmonton
L. and G. Concrete	Medicine Hat
Lorenz Transit Mix Ltd.	Peace River
Pyramid Dry Mix Ltd.	Bowden
Revelstoke Transit Mix	Ponoka
Rex Concrete Products Ltd.	11202-149th Street, Edmonton
Smith Concrete Ltd.	6230-100th Street, Edmonton
South Side Concrete Mix Ltd.	700-46th Avenue S.E., Calgary
Superior Masonry Products Ltd.	9th Avenue and 6th Street N., Lethbridge
Tiger Transit Mix Ltd.	16102-112th Avenue, Edmonton
Transcrete Company Limited	703-48th Avenue, Calgary
Underwood Transit Mixed (1961) Ltd.	6125-75th Street, Edmonton
Valley Concrete Mix	Drumheller
Valley Concrete Supply	Drayton Valley
Van Redi-Mix Ltd.	821-17th Street S.W., Medicine Hat
Wolver Construction and Transit Mix Co. Ltd.	9918-75th Avenue, Edmonton
British Columbia:	
Chilliwack Ready Mix Ltd.	Brink Road, Chilliwack
Cook-Dovell Cement and Construction Co. Ltd.	St. Mary's Road, Marysville
Deeks-McBride Ltd.	1051 Main Street, Vancouver
Evans, Coleman and Evans Ltd.	Granville Island, Vancouver 1
Evans, Coleman and Evans Ltd.	1295 West 77th Avenue, Vancouver 14
Evans, Coleman and Evans Ltd.	1120 Terminal, New Westminster
Evans, Coleman and Evans Ltd.	231 West Esplanade, North Vancouver
Evans, Coleman and Evans Ltd.	1051 Main Street, Vancouver 4
G. and H. Sand and Gravel Co. Ltd.	6983 Surrey St., Powell River
Hasler's Concrete Ltd.	375 West Victoria St., Kamloops
Invermere Redi-Mix	Invermere
Island Ready-Mix Ltd.	Courtenay
Kask Bros.	6715 Curtis St., North Burnaby
Kelowna Ready-Mix Concrete Ltd.	1131 Ellis St., Kelowna
Kitimat Concrete Products (1961) Ltd.	Kitimat
McGaughey Ready-Mix Concrete Co. Ltd.	Trail
Metro Concrete Ltd.	1265 Mitchell Road, Richmond
Nelson Ready-Mix Concrete Co. Ltd.	7th Street, Nelson
Ocean Cement Limited (Evans, Coleman and Evans Divn.)	1961 Zorkin Road, Nanaimo
Ocean Cement Limited (Evans, Coleman and Evans Divn.)	3rd Avenue, Port Alberni
Ocean Cement Limited (Evans, Coleman and Evans Divn.)	900 Wharf Street, Victoria
P. & W. Development Co.	Gibsons
Parker's Ready Mix	4801-20th Street N., Vernon
Princeton Redi-Mix Ltd.	Princeton
Quesnel Redi-Mix Cement Co. Ltd.	Quesnel
Rupert Cement Products Ltd.	Corner 2nd and Park Avenue, Prince Rupert
Southern Okanagan Concrete Co. Ltd.	1675 Fairview Rd., Penticton
Target Concrete Products Ltd.	620 Taylor St., Vancouver
Terrace Concrete Products Ltd.	Terrace
Thorp's Concrete and Masonary Products Ltd.	Oliver

CONCEPTS AND DEFINITIONS

Census of Manufactures

General

The Census of Manufactures is an annual mail survey covering Canada's Manufacturing Industries. It is based on the Standard Classification of Industries and full details concerning the system may be found in the Standard Industrial Classification manual, Catalogue No. 12-501 which is available from the Queen's Printer or the Dominion Bureau of Statistics. In summary, the Classification as it relates to the manufacturing industries provides for a breakdown into 140 industries arranged in 20 major industry groups. Of the 140 (3 digit) industries, 18 are further broken down into 58 (4 digit) sub classes. At the Canada level, principal statistics are collected and compiled for 178 separate industries. They cannot all be published separately by province, however, because of the confidential nature of the data in certain provinces.

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

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

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

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

Establishment

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

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

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

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

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

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

Head Offices and Auxiliary Units

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

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

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

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

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

Employees

(a) Production and related workers—Manufacturing activity

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

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

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

(c) Administrative and office employees

This category includes all executive and supervisory officials such as presidents, vice-presidents, comptrollers, secretaries, treasurers,

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

(d) Sales and distribution workers

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

(e) Total Employees

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

Working Owners or Partners

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

Salaries and Wages

Salaries and wages refer to gross earnings of employees **before** deductions for income tax and employees contributions to social services such as sickness, accident and unemployment insurance, pensions, etc. They include all salaries, wages, bonuses, profits shared with employees, the value of room and board where provided, commissions (paid to regular employees only) as well as any

other allowance forming part of the worker's earnings. Payments for over-time are included. Figures on salaries and wages refer to the calendar year.

Fuel and Electricity

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

Materials and Supplies

(a) Manufacturing activities

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

(b) Non-manufacturing activities

1. Purchases for re-sale as such

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

2. Other materials and supplies used

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

fixed assets accounts and the cost of such other items of materials and supplies used as food, beverages and supplies for establishment-operated cafeterias and lunch counters, first aid and medical supplies, laboratory supplies, etc.

Shipments

(a) General

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

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

(b) Shipments of goods of own manufacture

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

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

Shipments of goods of own manufacture of establishments which are coded to some other division of the Standard Industrial Classification (on the basis of principal activity) but which are engaged in manufacturing as a subsidiary activity are collected by means of the Commodity questionnaire referred to earlier. Such shipments together

with shipments of goods of own manufacture of establishments forming the universe of manufacturing industries are compiled and recorded in the various industry publications.

(c) Shipments of goods not of own manufacture

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

(d) Other revenue

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

Inventories

(a) Manufacturing activities

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

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

(b) Non-manufacturing activities

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

Value Added

(a) By manufacturing activities

Figures are compiled by deducting the cost of materials and fuel and electricity consumed from the value of production (value of shipments adjusted for changes in the value of inventories of finished goods and goods in process).

(b) By non-manufacturing activities

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

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

(c) By Total activities

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

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