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READY-MIX CONCRETE MANUFACTURERS

1964

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.

Value of shipments and other revenue (manufacturing and non-manufacturing) of the Ready-Mix Concrete Manufacturers Industry amounted to \$201,794,000 in 1964, compared with \$162,166,000 in 1963, an increase of \$39,628,000 or about 25 percent. Included in this total were shipments of ready-mix concrete valued at \$171,196,000. Shipments of other manufactured products accounted for \$6,750,000, while other revenue (non-manufacturing) amounted to \$24,512,000.

This industry's shipments of ready-mix concrete represented 96 per cent of its manufacturing revenue. Other products shipped by this industry in 1964 included concrete products, such as brick, blocks, chimney blocks, pipe, etc.

The cost of materials and supplies, etc., used in the production of goods of own manufacture increased by \$19,998,000. Cost of materials and supplies etc., (inputs) in 1964 represented 60 per cent of value of shipments of own manufacture (outputs), compared to 59 per cent in 1963.

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

SYMBOLS

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

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

TABLE 1. Principal Statistics, 1961-64

Year and province	Establishments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1961													
Totals	158	3,239	7,807	14,866	3,490	66,750	106,399	36,236	14	35	4,232	20,203	39,296
1962													
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													
Newfoundland	3	x	x	x	x	x	x	x	—	—	x	x	x
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	7	64	142	222	78	1,062	1,602	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	16,966
Manitoba	7	94	197	438	159	2,743	4,816	1,935	x	x	134	721	1,985
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
1964													
Newfoundland	3	x	x	x	x	x	x	x	—	—	x	x	x
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	6	69	159	244	88	1,060	2,062	914	x	x	87	317	921
New Brunswick	5	x	x	x	x	x	x	x	—	—	x	x	x
Quebec	53	1,555	3,814	7,592	2,496	34,175	60,644	24,140	x	x	2,395	12,465	31,951
Ontario	77	1,461	3,554	8,168	2,068	43,744	69,218	23,406	x	x	2,055	11,719	25,288
Manitoba	8	128	306	645	172	3,057	4,856	1,626	—	—	156	796	1,770
Saskatchewan	13	126	301	550	198	3,951	6,006	1,924	5	21	179	749	2,359
Alberta	25	368	836	1,706	399	8,853	14,247	5,014	7	27	440	2,177	5,506
British Columbia	35	571	1,148	2,804	519	9,660	16,857	6,785	8	33	682	3,384	7,504
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	225	4,417	10,419	22,267	6,051	106,606	177,282	65,003	24	99	6,171	32,355	76,830

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1963													
Under \$10,000	4	3	6	6	3	27	62	31	1	3	6	10	31
\$ 10,000 to \$ 24,999													
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	1,228	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
1964													
Under \$10,000	10	15	31	48	14	149	336	173	2	7	23	68	182
\$ 10,000 to \$ 24,999													
25,000 " 49,999	22	62	145	205	83	908	1,733	743	17	73	78	261	761
50,000 " 99,999	45	240	552	918	316	3,481	6,285	2,495	3	12	303	1,176	2,646
100,000 " 199,999	62	622	1,388	2,531	872	11,050	19,598	7,873	2	7	775	3,313	8,612
200,000 " 499,999	43	757	1,709	3,498	1,037	18,854	30,170	10,289	—	—	977	4,691	11,241
500,000 " 999,999	37	1,608	3,835	8,348	2,242	42,929	69,259	24,148	—	—	2,444	13,336	31,104
1,000,000 " 4,999,999	6	1,113	2,758	6,718	1,487	29,234	49,902	19,283	—	—	1,492	8,918	22,162
5,000,000 and over .....	...	...	...	...	...	...	...	...	...	...	79	592	122
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	79	592	122
Totals	225	4,417	10,419	22,267	6,051	106,606	177,282	65,003	24	99	6,171	32,355	76,830

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1963													
Under \$10,000	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	4,366	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	3,853	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
1964													
Under \$10,000	13	20	45	66	30	314	577	233	8	37	29	91	250
\$ 10,000 to \$ 24,999	38	147	333	536	256	2,835	4,540	1,447	13	50	188	702	1,759
25,000 " 49,999	46	314	722	1,256	491	4,956	8,760	3,339	2	9	388	1,588	3,690
50,000 " 99,999	54	653	1,446	2,755	830	13,659	22,375	7,929	1	3	817	3,618	8,322
100,000 " 199,999	44	1,017	2,307	4,715	1,278	23,696	38,601	13,876	—	—	1,291	6,261	15,258
200,000 " 499,999	21	868	2,076	4,715	1,220	24,994	40,429	14,195	—	—	1,223	6,661	16,422
500,000 " 999,999	9	1,398	3,490	8,224	1,947	36,151	61,980	23,985	—	—	2,156	12,842	31,007
1,000,000 " 4,999,999 .....		...	...	...	...	...	...	...	...	...	79	592	122
5,000,000 and over .....	...	...	...	...	...	...	...	...	...	...	79	592	122
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	79	592	122
Totals	225	4,417	10,419	22,267	6,051	106,606	177,282	65,003	24	99	6,171	32,355	76,830

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			'000				'000		'000	
1963													
Under \$10,000	4	4	8	11	3	43	76	30	—	—	8	17	30
\$ 10,000 to \$ 24,999	13	29	59	81	36	500	788	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	—	—	2,092	11,740	27,882
5,000,000 and over	...	...	...	...	...	...	...	...	...	...	72	504	96
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	206	4,084	9,661	20,052	5,454	86,608	147,093	55,197	18	71	5,411	27,131	60,875
1964													
Under \$10,000	12	18	41	57	50	682	972	240	4	17	25	73	210
\$ 10,000 to \$ 24,999	39	133	305	477	209	2,421	4,086	1,458	17	70	172	630	1,495
25,000 " 49,999	39	133	305	477	209	2,421	4,086	1,458	17	70	172	630	1,495
50,000 " 99,999	40	254	577	1,003	347	4,067	7,251	2,844	2	9	316	1,272	2,905
100,000 " 199,999	56	651	1,460	2,754	873	13,238	21,919	7,850	1	3	813	3,587	8,280
200,000 " 499,999	45	984	2,232	4,606	1,261	23,480	38,151	13,637	—	—	1,204	5,833	14,471
500,000 " 999,999	23	950	2,255	5,002	1,079	24,532	39,966	14,379	—	—	1,179	6,304	15,812
1,000,000 " 4,999,999	10	1,427	3,548	8,369	2,231	38,187	64,938	24,598	—	—	2,383	14,063	33,535
5,000,000 and over	...	...	...	...	...	...	...	...	...	...	79	592	122
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	225	4,417	10,419	22,267	6,051	106,606	177,282	65,003	24	99	6,171	32,355	76,830

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			'000				'000		'000	
1963													
Under 5 employed	27	54	113	217	89	1,492	2,606	1,020	9	32	69	257	1,075
5 - 14 employed	90	588	1,253	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	854	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	8,327	—	—	953	5,468	7,634
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
1964													
Under 5 employed	39	62	192	322	147	2,734	4,551	1,670	13	49	106	407	1,649
5 - 14 employed	82	540	1,243	2,195	810	10,809	18,809	7,205	11	50	690	2,875	7,595
15 - 49	79	1,563	3,548	7,211	1,996	37,110	61,111	22,274	—	—	1,943	9,297	23,888
50 - 99	17	946	2,237	4,871	1,070	22,159	35,876	12,663	—	—	1,138	6,023	13,696
100-199	3	358	869	2,142	330	11,534	22,838	10,974	—	—	448	2,698	11,325
200-499	5	928	2,330	5,525	1,698	22,258	34,097	10,218	—	—	1,767	10,463	18,555
500 employed and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	79	592	122
Totals	225	4,417	10,419	22,267	6,051	106,606	177,282	65,003	24	99	6,171	32,355	76,830

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

Type of organization	Establishments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1963													
Individual ownerships	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
Co-operatives	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
1964													
Individual ownerships	8	24	51	77	29	439	878	410	8	33	29	64	409
Partnerships	7	16	36	51	30	305	577	241	16	66	16	56	251
Incorporated companies	210	4,377	10,331	22,139	5,991	105,862	175,828	64,352	...	...	6,045	31,623	76,048
Co-operatives .....	—	—	—	—	—	—	—	—	...	...	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	79	592	122
Totals	225	4,417	10,419	22,267	6,051	106,606	177,282	65,003	24	99	6,171	32,355	76,830

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

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1963	1964	1963	1964	1963	1964
\$'000						
Output						
1. Shipments and other revenue	147,093	177,282	15,073	24,512	162,166	201,794
Inventories—Goods of own manufacture:						
Add closing—Goods in process	11	16	...	...	11	16
Finished goods	853	1,181	...	...	853	1,181
Deduct opening—Goods in process	10	13	...	...	10	13
Finished goods	687	807	...	...	687	807
2. Net inventory change	167	377	...	...	167	377
3. Gross output (1 + 2)	147,260	177,659	15,073	24,512	162,333	202,171
Input						
4. Purchases of goods not of own manufacture .....	...	...	9,008	10,706	9,008	10,706
Inventories—Goods not of own manufacture:						
Add opening .....	...	...	793	851	793	851
Deduct closing .....	...	...	849	1,106	849	1,106
5. Cost of goods sold (not of own manufacture) .....	...	...	6,952	10,451	8,952	10,451
6. Materials, supplies, etc.	66,608	106,606	443	2,234	87,051	108,840
7. Fuel and electricity	5,454	6,051	...	...	5,454	6,051
8. Gross input (5 + 6 + 7)	92,062	112,657	9,395	12,685	101,457	125,342
Value added (3 - 8)	55,197	65,003	5,678	11,827	60,875	76,630

TABLE 8. Employment and Payroll, 1963 and 1964

Year and province	Employees										Salaries and wages				
	Production and related workers				Adminis- trative and office		Sales and distribution		Total		Production and related workers		Admin- istra- tive and office	Sales and distrib- ution	Total
	Manufacturing		Other												
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Manufac- turing	Other			
	number										\$'000				
1963															
Newfoundland	x	—	—	—	x	x	x	—	x	x	x	—	x	x	x
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	64	—	—	—	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	178	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	438	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 Terri- tories	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	4,080	4	230	—	695	186	210	6	5,215	196	20,052	1,097	4,715	1,268	27,131
1964															
Newfoundland	x	—	—	—	x	x	x	—	x	x	x	—	x	x	x
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	69	—	—	—	16	2	—	—	85	2	244	—	73	—	317
New Brunswick	x	—	—	—	x	x	—	—	x	x	x	—	x	—	x
Quebec	1,553	2	491	—	267	50	30	2	2,341	54	7,592	3,031	1,654	188	12,465
Ontario	1,460	1	120	—	289	104	80	1	1,949	106	8,168	749	2,308	494	11,719
Manitoba	128	—	—	—	22	2	4	—	154	2	645	—	124	27	796
Saskatchewan	126	—	21	—	23	8	1	—	171	8	550	72	120	6	749
Alberta	366	—	—	—	54	6	12	—	434	6	1,706	—	388	83	2,177
British Columbia	570	1	—	—	56	25	24	6	650	32	2,804	—	400	179	3,384
Yukon and Northwest Terri- tories	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	4,413	4	632	—	755	202	156	9	5,956	215	22,267	3,852	5,235	1,001	32,355

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

Month	1963		1964	
	Male	Female	Male	Female
	number			
Establishments reporting monthly detail (large establishments only):				
January	3,166	4	3,520	4
February	3,197	4	3,584	4
March	3,415	4	3,685	4
April	3,706	4	3,945	4
May	4,136	4	4,387	4
June	4,243	5	4,552	4
July	4,327	5	4,591	4
August	4,283	6	4,576	4
September	4,282	4	4,584	4
October	4,265	4	4,522	4
November	4,005	4	4,288	4
December	3,412	5	3,721	4
Averages	3,905	4	4,174	4
Establishments reporting annual averages (small establishments only)	175	-	239	-
Average for all establishments	4,080	4	4,413	4

TABLE 10. Inventories, 1964

Province	Manufacturing				Non-manufacturing	Total inventories
	Materials, supplies, etc.	Goods in process	Finished goods of own manufacture	Total	Products or materials purchased for resale	
book value \$'000						
Opening:						
Newfoundland	x	—	x	x	—	x
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	30	—	—	30	—	30
New Brunswick	x	—	—	x	—	x
Quebec	884	12	269	1,166	11	1,177
Ontario	1,693	—	94	1,787	551	2,338
Manitoba	227	—	—	227	53	280
Saskatchewan	208	—	2	209	—	209
Alberta	313	—	109	422	1	423
British Columbia	599	—	243	841	235	1,077
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	4,006	13	807	4,826	851	5,677
Closing:						
Newfoundland	x	—	x	x	—	x
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	65	—	—	65	—	65
New Brunswick	x	—	—	x	—	x
Quebec	1,095	10	438	1,543	12	1,555
Ontario	1,691	—	94	1,785	729	2,513
Manitoba	263	—	—	263	57	320
Saskatchewan	238	—	68	307	—	307
Alberta	490	6	123	618	1	619
British Columbia	699	—	350	1,050	308	1,357
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	4,598	16	1,181	5,795	1,106	6,901

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

Description	1963		1964	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Large establishments reporting commodity detail:				
Bituminous coal:				
(a) From Canadian mines	ton	495	226	3
(b) Imported	"	421	577	9
Sub-bituminous coal (from Alberta mines only)	"	—	—	—
Anthracite coal	"	37	50	1
Lignite coal	"	580	773	8
Coke	"	7	—	—
Gasoline (including gasoline used in cars and trucks)	imp. gal.	9,049,229	11,033,049	3,655
Fuel oil including kerosene or coal oil	"	8,007,380	7,641,161	1,357
Wood	cord	11	95	1
Gas:				
(a) Liquefied petroleum gases	imp. gal.	336,315	459,311	94
(b) Other manufactured gas	M cu. ft.	—	—	—
(c) Natural gas	"	158,458	209,609	96
Other fuel .....	...	12	...	9
Electricity purchased	kwh.	29,078,320	34,108,284	557
Steam purchased .....	...	11	...	2
2. Small establishments not reporting commodity detail:				
Estimate for fuel and electricity .....	...	232	...	257
3. All establishments:				
Total fuel and electricity used .....	...	5,454	...	6,051

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

Description		1963		1964	
		Quantity	Cost	Quantity	Cost
			\$'000		\$'000
1. Materials used:					
Portland cement	bag	51,292,623	45,317	65,948,514	58,239
Sand and gravel	ton	11,701,244	18,009	13,898,220	21,235
Crushed stone	"	5,873,276	9,463	7,002,880	11,246
Cinders	cu. yd.	5,381	15	3,344	7
Reinforcing steel:					
Wire	ton	179	28	202	36
Other (mesh, rod, etc.)	"	593	129	780	189
Slag	"	7,665	18	12,660	24
All other materials and components used ¹ .....		...	6,327	...	6,471
2. Containers and other packaging materials and supplies used .....		...	108	...	14
3. Operating, maintenance and repair supplies used (excluding fuel) .....		...	6,924	...	8,718
4. Amount paid out to others for work done on materials owned by establishments .....		...	270	...	426
Totals .....		...	86,608	...	106,606

¹ No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$2,653,635 in 1963 and were \$3,413,669 in 1964.

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

Description		1963		1964	
		Quantity	Cost	Quantity	Cost
			\$'000		\$'000
1. Products:					
Concrete products:					
Brick	M	3,211	137	3,162	130
Blocks, (gravel, cinder, other aggregates)	"	5,924	1,506	5,798	1,485
Chimney blocks	No.	31,483	23	26,164	19
Pipe, (drain, sewer, water) and culvert tile .....		...	980	...	1,124
Concrete, ready-mixed	cu. yd.	11,109,574	139,684	13,188,784	171,196
Other concrete products .....		...	278	...	525
All other products .....		...	5,900	...	3,155
2. Amount received in payment for work done on materials and products owned by others .....		...	250	...	310
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above .....		...	(1,665)	...	(663)
Net adjustment for establishments receiving progress payments		-	-	-	-
Total adjusted value of shipments and work done .....		...	147,093	...	177,282

TABLE 14. Shipments of Selected Goods of Own Manufacture - All Industries

(Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed)

A. Principal Concrete Products, 1955-64

Year	Ready mixed concrete	Concrete building blocks ¹			Concrete pipe, (sewer, water drain) and culvert tile	Concrete bricks	Artificial stone
		Cinder	Gravel	Other aggregates			
				\$'000			
1955	58,918	3,837	24,612	3,876	18,154	5,855	4,204
1956	75,907	3,668	24,325	5,702	18,761	5,253	4,608
1957	82,756	3,237	24,492	5,507	18,967	4,692	4,592
1958	91,362	3,342	29,163	5,809	24,245	6,944	5,514
1959	99,927	2,485	30,148	7,195	28,014	6,175	7,965
1960	102,976	1,502	27,449	8,234	27,110	5,000	7,389
1961	107,241	2,476	29,158	9,083	25,617	5,277	6,897
1962	134,077	2,766	31,898	10,231	28,063	5,097	9,825
1963	149,788	1,405	34,079	10,323	28,459	4,218	8,668
1964	181,553	956	34,525	11,059	37,019	4,081	9,723

TABLE 14. Shipments of Selected Goods of Own Manufacture - All Industries - Concluded
B. Principal Concrete Products, by Provinces, 1964

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

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

List of Establishments classified of This Industry, 1964

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

Name	Location
Newfoundland:	
Concrete Products (Newfoundland) Ltd.	Mount Pearl
McNamara Readi-Mix Concrete Limited	Portugal Cove Road, St. John's
Pinsent's Concrete Ltd.	Rock Street, Stephenville
Nova Scotia:	
Atlantic Building Materials Ltd.	2455 Hants Road, Halifax
Canso Breton Ltd.	P.O. Box 461, Port Hawkesbury
Casey, E.L. Construction Ltd.	96 Park St., Amherst
Inter Supply Ltd.	North Provost St., New Glasgow
Vibric Ltd.	Lower Truro
Wheby's Concrete Mix Ltd.	56 Main St., Dartmouth
New Brunswick:	
Bathurst Ready-Mix	150 Main St., Bathurst
Brunswick Ready-Mix Concrete Ltd.	P. O. Box 1374, Newcastle
Elmtree Concrete Ltd.	Dunn's Crossing Rd., Fredericton
Gordon's Concrete Products Ltd.	250 Killam Drive, Moncton
Martin Ready Mix Ltd.	Queen Street, Edmundston
Quebec:	
Alma Mix Co. Ltd.	Isle Maligne
Amyot Ready Mix Co. Ltd.	700 boul. St-Joseph, Hull
Arvida Mix and Supply Co. Ltd.	299, rue Deschênes, Arvida
B. and F. Ready Mix Limited	1515-3e avenue, Val d'Or
Beaudry, Simard Inc.	2455 est, rue Jarry, Montreal 38
Béton Richelleu	337 Blvd. Choquette, Beloeil
Bétonnières Meloche Inc., Les	Dorion
Béton Lac-St-Jean Ltée	Roberval
Billet, A. Ltée	1585, boul. des Laurentides, Chomedey
Bourassa, Gaston Ltée	1250, rue Père Marquette, Trois-Rivières
Cartier Ready-Mix Inc.	Rte. de la Pageau, Loretteville
Chateauguay Ready Mix Enterprise Inc.	83, boul. St-Jean-Baptiste, Chateauguay
Ciment Maski Ltée, Les	Louiseville
Ciment Ro-No Ltée	Rue Blanchet, Arthabaska
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
Kennebec Ready-Mix Inc.	1015, boul. Dionne, St-Georges O.
Laurentide Ready-Mix and Equipment Inc.	191 rue Fusey, Cap-de-la-Madeleine
Mattagami Ready Mix Ltd.	Mattagami
Ménard Ready Mix Ltd.	100 Lois St., Hull
Métro Mix Limitée	L'Assomption
Montmagny Ready Mix Inc.	Route Trans-Canada, Montmagny
Mount Royal Paving and Supplies Ltd.	37 Jarry St. E., St-Michel

List of Establishments classified to This Industry, 1964 - Continued

Name	Location
Quebec - Concluded:	
Nor Mix Limitée	Rue de Martigny (côte Dalhousie), St-Jérôme
Produits de Ciment 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 Jollette, Sept-Îles
St. Johns Ready Mix Co. Ltd.	R.R. No. 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
Sorel Asphalte Ltée	373, avenue Royale, Sorel
Southern Ready Mix Reg'd.	C.P. 251, Sorel
Taschereau, Denis	Plessisville
Thetford Ready Mix Inc.	3e Rue, Thetford Mines
Tremblay Ready Mix Ltée	231 Ave. Durocher, Normandin
Unicrete Ready Mix Inc.	Sherbrooke
Vaillancourt, W.	Danville
Valleyfield Ready Mix Inc.	Valleyfield
Verreault, Elzéar, Ltée.	3725, rue St-Henri, Gifford
Viau, Paul, Ready-Mix Inc.	75, boul. Mgr. Langlois, Grande-Île
Ontario:	
A.B.C. Ready-Mix Ltd.	Brampton
Brant Transit Mix Ltd.	Harry St. R.R. No. 6, Brantford
Canada Building Materials Ltd.	Union St., Sarnia
Canada Buildign Materials Ltd.	951 Wilson Ave., Downsview
Champlain Ready Mixed Concrete Ltd.	317 Atherby Rd., Orillia
Clem's Ready Mix Ltd.	Drew St., Welland
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
Custom Ready Mix Ltd.	P.O. Box 59, Thornhill
Delta Ready Mix Limited	235 Superior St., Hamilton
De Luxe Readymix 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
Dufferin Materials & Const. Ltd.	2700 Dufferin St., Toronto 19
Elliot Mobile Mix Co. Ltd.	Agincourt
Fox Ready Mix Ltd.	Leamington
Gant Ready Mix Ltd.	205-1st St. E, Cornwall
Howard Concrete and Materials Ltd.	1093 Howard Road, Burlington
J and J Ready-Mix Concrete Ltd.	Tecumseh
King Paving and Materials Ltd.	Oakville
Kimmer, Harry	P.O. Box 251, Rexdale
Lalonde Ready Mix Concrete Ltd.	255-10th, St. E., Cornwall
Maitland Redi-Mix Concrete Products Ltd.	Wingham
Mallard Ready-Mix Concrete Ltd.	555 King Street, Sudbury
Mar-Mix Woodstock Ltd.	297 Tecumseh St., Woodstock
McCord, S., and Co. Limited	611 King St. E., Toronto 2
McMaster, Alex Ltd.	549 Woodward Ave., Hamilton
M.I.T. Mixed in Transit Concrete Limited	Tillsonburg
Mobile Mix Concrete Products Ltd.	72 Ann St., London
Modern Mobile Mix	166 Walnut St., Collingwood
Moto Mix Concrete Limited	130 Sparks St., Ottawa
Nor-Shore Ready Mix Concrete Ltd.	McIntyre St., Fort William
North Bay Concrete Supply Co. Ltd.	180 Shitriff Ave., North Bay
North Western Concrete	Box 633, Kenora
Omamee Ready-Mix Concrete Ltd.	R.R. 4, Lindsay
Ottawa Pre-Mixed Concrete Limited	1575 Russell Road, Ottawa
Peninsula Ready-Mix Supplies Ltd.	50 Bartlett Rd., Beamsville
Permanent Concrete Ltd.	Belleville
Permanent Concrete Ltd.	Cobourg
Permanent Concrete Ltd.	Kingston
Perth Concrete Products Ltd.	Box 368, Stratford
Peterborough Ready-Mix Concrete Supply Ltd.	Harper Road, Peterborough
Port Hope Ready Mix Ltd.	Victoria St., 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 Ltd.	Kennedy Road, Toronto
Premier Building Materials Ltd.	Woodbridge
Provincial Concrete	1541 Davenport Rd., Toronto
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	P.O. Box 65, Stn. B., 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	St. Thomas
Red-D-Mix Concrete Limited	Welland
Richvale Ready Mix Ltd.	9137 Yonge Street, Thornhill
Schutz Block Tile & Gravel Ltd.	Durham
Sterling Building Materials Ltd.	2494 Riverside Dr. E., Wndsor
Strathroy Reddi-Mix Concrete Ltd.	218 Front St. E, Strathroy
Sutton Ready Mix Ltd.	Sutton West
Teskey Ready-Mix Limited	184 Regent Road, Downsview
Thunder Bay Concrete Products Ltd.	771 Fort William Rd., Port Arthur
Thunder Bay Concrete Products Ltd.	P.O. Box 246, Fort William
Timmins Gravel Products Co. Ltd.	MacLean Drive, Timmins

List of Establishments classified to This Industry, 1964 - Concluded

Name	Location
Ontario - Concluded:	
Transit Mixed Concrete and Builders Supply Limited	Berryman Avenue, St. Catharines
Van Nostrand, Kilmer Co. Ltd.	949 Wilson Ave., Downsview
Victoria Ready Mixed Concrete Ltd.	67 Melbourne St., Lindsay
W.B. and M. Ready Mix Ltd.	Trout Lake Rd., North Bay
Wavy Industries Ltd.	140 Douglas St. W., Sudbury
Manitoba:	
Alberta Concrete & Supply	3rd St. N.W., Altona
Altona Concrete & Supply	Box 752, 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	388 Portage Ave., Winnipeg
Western Concrete Products Ltd.	20th Street and Park Avenue, Brandon
Wheat City Concrete Products Ltd.	918 McTavish Ave. E., Brandon
Saskatchewan:	
Assiniboia Transit Mix	Box 502, Assiniboia
Atlas Concrete Ltd.	York Rd. & Gladstone Ave., Yorkton
Clark Concrete Ltd.	24-7th Avenue N.W., Moose Jaw
Concrete Mix (Regina) Ltd.	Winnipeg St., & Arcola Ave., Regina
Dalglish and Giroux Bros. Ready-Mix Ltd.	1st Avenue S.W., Weyburn
Mickell Ready Mix	Melfort
Patrick Ready Mix Concrete Ltd.	125-105th Street, Saskatoon
Prairie Concrete Products	Box 1675, Estevan
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
Western Concrete Ltd.	Box 873, Rosetown
Alberta:	
Alberta Concrete Products & Co. Ltd.	8635 Stadium Road, Edmonton
Barry Concrete	Fort Saskatchewan
Camrose Transit Mix Limited	5011-47th Street, Camrose
Consolidated Concrete Limited	5440-1st Street S.W., Calgary
Forden Concrete Ltd.	11121-156th Street, Edmonton
Kucey Construction Ltd.	5920-98th St., Edmonton
L. and G. Concrete	846 Balmoral St. S.E.
Lorenz Transit Mix Ltd.	Peace River
Manning Transit Mix Ltd.	Manning
Pyramid Dry Mix Ltd.	Bowden
Revelstoke Transit Mix	Ponoka
Rex Concrete Products Ltd.	11202-149th Street, Edmonton
Rudyk's Transit Mix Ltd.	4004-50th Ave., Camrose
Smoky River Transit Mix	Falher
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
Town & Country Transit Mix	6247-112 A St., Edmonton
Transcrete Company Limited	703-48th Avenue, Calgary
Underwood Transit Mixed (1961) Ltd.	P.O. Box 4036, South 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:	
Allison Concrete Ltd.	Golden
Bell Concrete Ltd.	R.R. 3, Kamloops
Butter Bros. Supplies Ltd.	Box 936, Victoria
Cariboo Concrete Ltd.	Box 135, Williams Lake
Chilliwack Ready Mix Ltd.	45848 Yale Rd. W., Chilliwack
Deeks-McBride Ltd.	1051 Main Street, Vancouver
Empress Ready Mix	Squamish
G. and H. Gravel Co. Ltd.	6963 Surrey St., Powell River
Hasler's Concrete Ltd.	375 West Victoria St., Kamloops
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
Madson Redi Mix Ltd.	Box 8, Radium Junction
McGaughey Ready-Mix Concrete Co. Ltd.	Trail
Metro Concrete Ltd.	628 Carnation St., New Westminster
Nelson Ready-Mix Concrete Co. Ltd.	7th Street, Nelson
Ocean Cement Limited (Evans, Coleman and Evans Divn.)	1961 Sorkin 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
Ocean Cement Limited (Evans, Coleman and Evans Divn.)	Granville Island
Ocean Cement Limited (Evans, Coleman and Evans Divn.)	Marpole
Ocean Cement Limited (Evans, Coleman and Evans Divn.)	New Westminster
Ocean Cement Limited (Evans, Coleman and Evans Divn.)	North Vancouver
Okanagan Ready-Mix Ltd.	P.O. Box 366, Penticton
P. & W. Development Co.	Gibsons
Parker's Ready Mix & Parker-Wells Redi-Mix & Building Products Ltd.	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
Shuswap Ready-Mix Concrete Ltd.	Chase
Southern Okanagan Concrete Co. Ltd.	51 Nanaimo Ave. E., Penticton
Terrace Concrete Products Ltd.	Terrace
Thorpe's Concrete and Masonry Products Ltd.	Oliver
Walske Ready-Mix Ltd.	22648 Lougheed Hwy Haney

CONCEPTS AND DEFINITIONS

Census of Manufactures

General

The Census of Manufactures is an annual mail survey covering Canada's Manufacturing Industries. It is based on the Standard Classification of Industries and full details concerning the system may be found in the Standard Industrial Classification manual, Catalogue No. 12-501 which is available from the Queen's Printer or the Dominion Bureau of Statistics. In summary, the Classification as it relates to the manufacturing industries provides for a breakdown into 140 industries arranged in 20 major industry groups. Of the 140 (3 digit) industries, 18 are further broken down into 56 (4 digit) sub classes. At the Canada level, principal statistics are collected and compiled for 176 separate industries. They cannot all be published separately by province, however, because of the confidential nature of the data in certain provinces.

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

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

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

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

Establishment

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

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

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

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

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

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

Head Offices and Auxiliary Units

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

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

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

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

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

Employees

(a) Production and related workers — Manufacturing activities

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

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

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

(c) Administrative and office employees

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

(d) Sales and distribution workers

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

(e) Total Employees

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

Working Owners or Partners

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

Salaries and Wages

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

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

Fuel and Electricity

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

Materials and Supplies

(a) Manufacturing activities

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

(b) Non-manufacturing activities

1. Purchases for re-sale as such

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

2. Other materials and supplies used

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

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

Shipments

(a) General

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

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

(b) Shipments of goods of own manufacture

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

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

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

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

(c) Shipments of goods not of own manufacture

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

(d) Other revenue

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

Inventories

(a) Manufacturing activities

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

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

(b) Non-manufacturing activities

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

Value Added

(a) By manufacturing activities

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

(b) By non-manufacturing activities

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

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

(c) By Total activities

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

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