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# CEMENT MANUFACTURERS

1965

## ANNUAL CENSUS OF MANUFACTURES

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## CEMENT MANUFACTURERS

1965

This report includes statistics for industry 341—Cement Manufacturers of the Standard Industrial Classification Manual (Catalogue No. 12-501).

The chief product of this industry is Portland cement, but these plants also ship masonry cement, portland—pozzolana cement and limestone.

Compilations are based on these measurements: Portland cement, 1 barrel=350 pounds=4 bags (87½ lb. ea.); Masonry cement, 1 barrel=280 pounds=4 bags (70 lb. ea.). Quantities are expressed in short tons of 2,000 pounds.

The commodity statistics shown in Table 14 and subsequent tables indicate that the producers' shipments (including made for own use) in 1965 increased by 7.4 per cent in quantity and 9.0 per cent in value from the shipments made in the preceding year. The value of containers has not been included in the above valuation.

### SYMBOLS

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

.. figures not available.

... figures not appropriate or not applicable.

— nil or zero.

— amount too small to be expressed.

p preliminary figures.

r revised figures.

x confidential to meet secrecy requirements of the Statistics Act.

TABLE 1. Principal Statistics, 1961-65

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 .....	20	2,557	5,644	12,923	16,262	14,359	107,246	76,423	—	—	3,590	19,255	76,971
1962													
Totals .....	20	2,629	5,810	13,743	17,719	16,221	116,706	83,622	—	—	3,679	20,636	84,166
1963													
Totals .....	20	2,526	5,549	13,534	17,920	16,292	122,179	87,816	—	—	3,566	20,558	87,881
1964													
Newfoundland .....	1	x	x	x	x	x	x	x	—	—	x	x	x
Prince Edward Island .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia .....	—	—	—	—	—	—	—	—	—	—	—	—	—
New Brunswick .....	1	x	x	x	x	x	x	x	—	—	x	x	x
Quebec .....	5	753	1,718	4,211	6,065	5,985	41,014	28,108	—	—	1,277	7,543	27,867
Ontario .....	6	806	1,744	4,508	7,741	5,152	48,409	34,872	—	—	1,084	6,451	34,815
Manitoba .....	1	x	x	x	x	x	x	x	—	—	x	x	x
Saskatchewan .....	1	x	x	x	x	x	x	x	—	—	x	x	x
Alberta .....	3	x	x	x	x	x	x	x	—	—	x	x	x
British Columbia .....	2	x	x	x	x	x	x	x	—	—	x	x	x
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals .....	20	2,502	5,522	13,942	19,354	16,593	133,299	95,402	—	—	3,592	21,289	95,097
1965													
Newfoundland .....	1	x	x	x	x	x	x	x	—	—	x	x	x
Prince Edward Island .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia .....	1	x	x	x	x	x	x	x	—	—	x	x	x
New Brunswick .....	1	x	x	x	x	x	x	x	—	—	x	x	x
Quebec .....	5	811	1,908	4,914	7,122	7,192	45,399	32,340	—	—	1,346	8,699	32,296
Ontario .....	6	853	1,919	5,421	9,329	5,950	51,117	36,327	—	—	1,163	7,443	36,234
Manitoba .....	2	x	x	x	x	x	x	x	—	—	x	x	x
Saskatchewan .....	1	x	x	x	x	x	x	x	—	—	x	x	x
Alberta .....	3	x	x	x	x	x	x	x	—	—	x	x	x
British Columbia .....	2	x	x	x	x	x	x	x	—	—	x	x	x
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals .....	22	2,644	6,039	16,185	22,515	19,767	144,842	104,081	—	—	3,837	24,422	104,045

TABLE 2. Principal Statistics classified by Size Group based on Value of Shipments of Goods of Own Manufacture, 1964 and 1965

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	
1964													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	-
\$ 10,000 to \$ 24,999	-	-	-	-	-	-	-	-	-	-	-	-	-
25,000 " 49,999	-	-	-	-	-	-	-	-	-	-	-	-	-
50,000 " 99,999	-	-	-	-	-	-	-	-	-	-	-	-	-
100,000 " 199,999	-	-	-	-	-	-	-	-	-	-	-	-	-
200,000 " 499,999	-	-	-	-	-	-	-	-	-	-	-	-	-
500,000 " 999,999	-	-	-	-	-	-	-	-	-	-	-	-	-
1,000,000 " 4,999,999	7	633	1,418	3,225	3,177	2,868	21,332	15,092	-	-	792	4,138	15,223
5,000,000 and over	13	1,869	4,103	10,717	16,177	13,726	111,966	80,310	-	-	2,406	14,473	80,185
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	394	2,678	(311)
Totals	20	2,502	5,522	13,942	19,354	16,593	133,299	95,402	-	-	3,592	21,289	95,097
1965													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	-
\$ 10,000 to \$ 24,999	-	-	-	-	-	-	-	-	-	-	-	-	-
25,000 " 49,999	-	-	-	-	-	-	-	-	-	-	-	-	-
50,000 " 99,999	-	-	-	-	-	-	-	-	-	-	-	-	-
100,000 " 199,999	-	-	-	-	-	-	-	-	-	-	-	-	-
200,000 " 499,999	-	-	-	-	-	-	-	-	-	-	-	-	-
500,000 " 999,999	9	730	1,681	4,119	4,067	3,628	25,421	18,705	-	-	932	5,330	18,834
1,000,000 " 4,999,999	13	1,914	4,358	12,066	18,448	16,139	119,420	85,376	-	-	2,509	16,102	85,613
5,000,000 and over	...	...	...	...	...	...	...	...	...	...	396	2,990	(403)
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	396	2,990	(403)
Totals	22	2,644	6,039	16,185	22,515	19,767	144,842	104,081	-	-	3,837	24,422	104,046

TABLE 3. Principal Statistics classified by Size Group based on Manufacturing Value Added, 1964 and 1965

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	
1964													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	-
\$ 10,000 to \$ 24,999	-	-	-	-	-	-	-	-	-	-	-	-	-
25,000 " 49,999	-	-	-	-	-	-	-	-	-	-	-	-	-
50,000 " 99,999	-	-	-	-	-	-	-	-	-	-	-	-	-
100,000 " 199,999	-	-	-	-	-	-	-	-	-	-	-	-	-
200,000 " 499,999	-	-	-	-	-	-	-	-	-	-	-	-	-
500,000 " 999,999	-	-	-	-	-	-	-	-	-	-	-	-	-
1,000,000 " 4,999,999	12	1,088	2,414	5,856	7,330	7,785	51,662	35,471	-	-	1,445	8,185	35,541
5,000,000 and over	8	1,414	3,108	8,083	12,024	8,809	81,637	59,941	-	-	1,753	10,426	59,867
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	394	2,678	(311)
Totals	20	2,502	5,522	13,942	19,354	16,593	133,299	95,402	-	-	3,592	21,289	95,097
1965													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	-
\$ 10,000 to \$ 24,999	-	-	-	-	-	-	-	-	-	-	-	-	-
25,000 " 49,999	-	-	-	-	-	-	-	-	-	-	-	-	-
50,000 " 99,999	-	-	-	-	-	-	-	-	-	-	-	-	-
100,000 " 199,999	-	-	-	-	-	-	-	-	-	-	-	-	-
200,000 " 499,999	-	-	-	-	-	-	-	-	-	-	-	-	-
500,000 " 999,999	14	1,309	3,008	7,770	9,152	9,462	57,674	39,934	-	-	1,675	10,103	40,103
1,000,000 " 4,999,999	8	1,335	3,032	8,414	13,364	10,306	87,168	64,147	-	-	1,768	11,329	64,344
5,000,000 and over	...	...	...	...	...	...	...	...	...	...	396	2,990	(402)
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	396	2,990	(402)
Totals	22	2,644	6,039	16,185	22,515	19,767	144,842	104,081	-	-	3,837	24,422	104,046



TABLE 4. Principal Statistics classified by Size Group based on Total Value Added, 1964 and 1965

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
<b>1964</b>													
Under \$10,000 .....	-	-	-	-	-	-	-	-	-	-	-	-	-
\$ 10,000 to \$ 24,999 .....	-	-	-	-	-	-	-	-	-	-	-	-	-
25,000 " 49,999 .....	-	-	-	-	-	-	-	-	-	-	-	-	-
50,000 " 99,999 .....	-	-	-	-	-	-	-	-	-	-	-	-	-
100,000 " 199,999 .....	-	-	-	-	-	-	-	-	-	-	-	-	-
200,000 " 499,999 .....	-	-	-	-	-	-	-	-	-	-	-	-	-
500,000 " 999,999 .....	-	-	-	-	-	-	-	-	-	-	-	-	-
1,000,000 " 4,999,999 .....	12	1,088	2,414	5,858	7,330	7,785	51,662	35,461	-	-	1,445	8,185	35,541
5,000,000 and over .....	8	1,414	3,108	8,083	12,024	8,809	81,637	59,941	-	-	1,753	10,426	59,867
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	394	2,678	(311)
<b>Totals .....</b>	<b>20</b>	<b>2,502</b>	<b>5,522</b>	<b>13,942</b>	<b>19,354</b>	<b>16,593</b>	<b>133,299</b>	<b>95,402</b>	<b>-</b>	<b>-</b>	<b>3,592</b>	<b>21,289</b>	<b>95,097</b>
<b>1965</b>													
Under \$10,000 .....	-	-	-	-	-	-	-	-	-	-	-	-	-
\$ 10,000 to \$ 24,999 .....	-	-	-	-	-	-	-	-	-	-	-	-	-
25,000 " 49,999 .....	-	-	-	-	-	-	-	-	-	-	-	-	-
50,000 " 99,999 .....	-	-	-	-	-	-	-	-	-	-	-	-	-
100,000 " 199,999 .....	-	-	-	-	-	-	-	-	-	-	-	-	-
200,000 " 499,999 .....	-	-	-	-	-	-	-	-	-	-	-	-	-
500,000 " 999,999 .....	14	1,309	3,008	7,770	9,152	9,462	57,674	39,934	-	-	1,675	10,103	40,103
1,000,000 " 4,999,999 .....	8	1,335	3,032	8,414	13,364	10,306	87,168	64,147	-	-	1,766	11,329	64,344
5,000,000 and over .....	...	...	...	...	...	...	...	...	...	...	396	2,990	(402)
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	396	2,990	(402)
<b>Totals .....</b>	<b>22</b>	<b>2,644</b>	<b>6,039</b>	<b>16,185</b>	<b>22,515</b>	<b>19,767</b>	<b>144,842</b>	<b>104,081</b>	<b>-</b>	<b>-</b>	<b>3,837</b>	<b>24,422</b>	<b>104,045</b>

TABLE 5. Principal Statistics classified by Size Group based on Total Employed, 1964 and 1965

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
<b>1964</b>													
Under 5 employed .....	-	-	-	-	-	-	-	-	-	-	-	-	-
5-14 employed .....	-	-	-	-	-	-	-	-	-	-	-	-	-
15-49 " .....	3	162	350	880	1,470	2,310	12,946	8,831	-	-	190	1,060	8,825
50-99 " .....	14	1,618	3,560	8,775	11,826	9,961	78,457	55,846	-	-	2,132	12,209	55,895
100-199 " .....	3	722	1,612	4,288	6,058	4,322	41,895	30,725	-	-	876	5,342	30,888
200-499 " .....	-	-	-	-	-	-	-	-	-	-	-	-	-
500 employed and over .....	...	...	...	...	...	...	...	...	...	...	394	2,678	(311)
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	394	2,678	(311)
<b>Totals .....</b>	<b>20</b>	<b>2,502</b>	<b>5,522</b>	<b>13,942</b>	<b>19,354</b>	<b>16,593</b>	<b>133,299</b>	<b>95,402</b>	<b>-</b>	<b>-</b>	<b>3,592</b>	<b>21,289</b>	<b>95,097</b>
<b>1965</b>													
Under 5 employed .....	-	-	-	-	-	-	-	-	-	-	-	-	-
5-14 employed .....	-	-	-	-	-	-	-	-	-	-	-	-	-
15-49 " .....	4	143	320	871	1,517	3,051	13,738	9,692	-	-	202	1,185	9,676
50-99 " .....	13	1,439	3,260	8,526	12,055	8,957	74,733	53,748	-	-	1,892	11,616	53,927
100-199 " .....	5	1,062	2,459	6,788	8,943	7,759	56,371	40,641	-	-	1,347	8,632	40,845
200-499 " .....	-	-	-	-	-	-	-	-	-	-	-	-	-
500 employed and over .....	...	...	...	...	...	...	...	...	...	...	396	2,990	(402)
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	396	2,990	(402)
<b>Totals .....</b>	<b>22</b>	<b>2,644</b>	<b>6,039</b>	<b>16,185</b>	<b>22,515</b>	<b>19,767</b>	<b>144,842</b>	<b>104,081</b>	<b>-</b>	<b>-</b>	<b>3,837</b>	<b>24,422</b>	<b>104,045</b>

TABLE 6. Principal Statistics classified by Type of Organization, 1964 and 1965

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	
1964													
Individual ownerships .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Partnerships .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Incorporated companies .....	20	2,502	5,522	13,942	19,354	16,593	133,299	95,402	...	...	3,198	18,611	95,408
Co-operatives .....	-	-	-	-	-	-	-	-	...	...	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	394	2,678	(311)
Totals .....	20	2,502	5,522	13,942	19,354	16,593	133,299	95,402	-	-	3,592	21,289	95,097
1965													
Individual ownerships .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Partnerships .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Incorporated companies .....	22	2,644	6,039	16,185	22,515	19,767	144,842	104,081	...	...	3,441	21,432	104,447
Co-operatives .....	-	-	-	-	-	-	-	-	...	...	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	396	2,990	(402)
Totals .....	22	2,644	6,039	16,185	22,515	19,767	144,842	104,081	-	-	3,837	24,422	104,045

TABLE 7. Calculation of Output, Input and Value Added, 1964 and 1965

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1964	1965	1964	1965	1964	1965
\$'000						
Output						
1. Shipments and other revenue .....	133,299	144,842	1,633	2,176	134,932	147,018
Inventories—Goods of own manufacture:						
Add closing—Goods in process .....	2,560	3,358	...	...	2,560	3,358
Finished goods .....	4,491	4,722	...	...	4,491	4,722
Deduct opening—Goods in process .....	3,974	2,492	...	...	3,974	2,492
Finished goods .....	5,026	4,067	...	...	5,026	4,067
2. Net inventory change .....	(1,949)	1,521	...	...	(1,949)	1,521
3. Gross output (1 + 2) .....	131,350	146,363	1,633	2,176	132,983	148,539
Input						
4. Purchases of goods not of own manufacture .....	...	...	395	905	395	905
Inventories—Goods not of own manufacture:						
Add opening .....	...	...	4	93	4	93
Deduct closing .....	...	...	19	105	19	105
5. Cost of goods sold (not of own manufacture) .....	...	...	380	893	380	893
6. Materials, supplies, etc. ....	16,593	19,767	1,559	1,318	18,152	21,085
7. Fuel and electricity .....	19,354	22,515	...	...	19,354	22,515
8. Gross input (5 + 6 + 7) .....	35,947	42,282	1,939	2,211	37,886	44,493
Value added (3 - 8) .....	95,402	104,081	(306)	(35)	95,097	104,045



TABLE 8. Employment and Payroll, 1964 and 1965

Year and province	Employees										Salaries and wages				
	Production and related workers				Adminis- trative and office		Sales and distribution		Total		Production and related workers		Adminis- trative and office	Sales and distrib- ution	Total
	Manufacturing		Other								Manufacturing	Other			
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female					
	number										\$'000				
1964															
Newfoundland .....	x	-	x	-	x	x	x	-	x	x	x	x	x	x	x
Prince Edward Island .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick .....	x	-	-	-	x	x	x	-	x	x	x	-	x	x	x
Quebec .....	753	-	63	11	212	73	135	30	1,163	114	4,211	284	2,107	941	7,543
Ontario .....	804	2	4	-	134	35	96	9	1,038	46	4,508	17	1,192	734	6,451
Manitoba .....	x	-	-	-	x	x	x	-	x	x	x	-	x	x	x
Saskatchewan .....	x	-	-	-	x	x	x	x	x	x	x	-	x	x	x
Alberta .....	x	-	x	-	x	x	x	x	x	x	x	x	x	x	x
British Columbia .....	x	-	-	-	x	x	x	x	x	x	x	-	x	x	x
Yukon and Northwest Terri- tories .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals .....	2,500	2	80	11	532	142	273	52	3,385	207	13,942	338	4,948	2,061	21,289
1965															
Newfoundland .....	x	-	x	-	x	x	x	-	x	x	x	x	x	x	x
Prince Edward Island .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia .....	x	-	-	-	x	x	-	-	x	x	x	-	x	-	x
New Brunswick .....	x	-	-	-	x	x	-	-	x	x	x	-	x	-	x
Quebec .....	811	-	53	12	223	81	136	30	1,223	123	4,914	255	2,408	1,123	8,699
Ontario .....	851	2	2	-	171	37	93	7	1,117	46	5,421	6	1,363	653	7,443
Manitoba .....	x	-	-	-	x	x	x	x	x	x	x	-	x	x	x
Saskatchewan .....	x	-	-	-	x	x	x	x	x	x	x	-	x	x	x
Alberta .....	x	-	-	-	x	x	x	x	x	x	x	-	x	x	x
British Columbia .....	x	-	x	-	x	x	x	x	x	x	x	-	x	x	x
Yukon and Northwest Terri- tories .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals .....	2,642	2	72	12	619	157	283	50	3,616	221	16,185	393	5,609	2,235	24,422

TABLE 9. Production and Related Workers, - Manufacturing Activity, 1964 and 1965

Month	1964		1965	
	Male	Female	Male	Female
	number			
Establishments reporting monthly detail (large establishments only):				
January .....	2,171	2	2,400	2
February .....	2,212	2	2,378	2
March .....	2,290	2	2,427	2
April .....	2,399	2	2,481	2
May .....	2,568	2	2,598	2
June .....	2,647	2	2,722	2
July .....	2,733	2	2,832	2
August .....	2,751	2	2,869	2
September .....	2,618	2	2,795	2
October .....	2,601	2	2,815	2
November .....	2,534	2	2,750	2
December .....	2,463	2	2,642	2
Averages .....	2,500	2	2,640	2
Establishments reporting annual averages (small establishments only) .....	...	...	...	...
Average for all establishments .....	2,500	2	2,642	2

TABLE 10. Inventories, 1965

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	—	x
Prince Edward Island .....	—	—	—	—	—	—
Nova Scotia .....	—	—	—	—	—	—
New Brunswick .....	x	x	x	—	—	x
Quebec .....	4,569	324	548	5,441	74	5,515
Ontario .....	3,662	330	1,290	5,282	—	5,282
Manitoba .....	x	x	x	x	—	x
Saskatchewan .....	x	x	x	x	—	x
Alberta .....	x	x	x	x	—	x
British Columbia .....	x	x	x	x	x	x
Yukon and Northwest Territories .....	—	—	—	—	—	—
Totals .....	13,188	2,492	4,067	19,747	93	19,840
Closing:						
Newfoundland .....	x	x	x	x	—	x
Prince Edward Island .....	—	—	—	—	—	—
Nova Scotia .....	x	x	x	x	—	x
New Brunswick .....	x	x	x	—	—	x
Quebec .....	6,108	987	1,140	8,235	56	8,290
Ontario .....	4,976	509	1,600	7,086	—	7,086
Manitoba .....	x	x	x	x	—	x
Saskatchewan .....	x	x	x	x	—	x
Alberta .....	x	x	x	x	x	x
British Columbia .....	x	x	x	x	x	x
Yukon and Northwest Territories .....	—	—	—	—	—	—
Totals .....	16,546	3,358	4,722	24,627	105	24,732

TABLE 11. Purchased Fuel and Electricity Used, 1964 and 1965

Description	1964		1965	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Large establishments reporting commodity detail:				
Bituminous coal:				
(a) From Canadian mines .....	ton	414,413	387,018	3,623
(b) Imported .....	"	200,702	524,062	5,416
Sub-bituminous coal (from Alberta mines only) .....	"	-	-	-
Anthracite coal .....	"	-	489	8
Lignite coal .....	"	-	-	-
Coke .....	"	-	-	-
Gasoline (including gasoline used in cars and trucks) .....	imp. gal.	218,058	234,441	76
Fuel oil including kerosene or coal oil .....	"	44,178,266	51,432,614	3,729
Wood .....	cord	-	-	-
Gas:				
(a) Liquefied petroleum gases .....	imp. gal.	32,783	30,048	8
(b) Other manufactured gas .....	M cu. ft.	3,056	-	-
(c) Natural gas .....	"	15,326,412	13,969,277	3,729
Other fuel .....		...	...	-
Electricity purchased .....	kwh.	866,463,259	958,998,359	5,926
Steam purchased .....		...	...	-
2. Small establishments not reporting commodity detail:				
Estimate for fuel and electricity .....		...	...	-
3. All establishments:				
Total fuel and electricity used .....		19,354	...	32,515

TABLE 12. Materials and Supplies - Manufacturing Activity, 1964 and 1965

Description	1964		1965	
	Quantity	Cost	Quantity	Cost
	tons	\$'000	tons	\$'000
1. Materials used:				
Limestone, purchased .....	1,031,537	763	1,132,081	1,134
Gypsum .....	349,289	2,163	393,717	2,496
Iron oxide .....	40,896	370	59,757	516
Silica sand .....	134,634	361	128,858	419
Shale .....	-	-	-	-
All other materials and components used .....	...	157	...	337
2. Containers and other packaging materials and supplies used .....	...	3,238	...	3,244
3. Operating, maintenance and repair supplies used (excluding fuel) .....	...	9,012	...	10,965
4. Amount paid out to others for work done on materials owned by establishments .....	...	529	...	655
<b>Totals .....</b>	<b>...</b>	<b>16,593</b>	<b>...</b>	<b>19,767</b>

TABLE 13. Shipments of Goods of Own Manufacture, 1964 and 1965

Description	1964		1965	
	Quantity	Value	Quantity	Value
	tons	\$'000	tons	\$'000
1. Products:				
Portland cement, all types .....	7,607,950	124,834	8,176,159	137,802
Masonry cement .....	221,771	4,184	241,032	4,616
Portland-pozzolana cement .....	...	-	...	-
Value of containers used, not included in above .....	...	3,055	...	3,075
All other products .....	...	1,226	...	611
2. Amount received in payment for work done on materials and products owned by others .....	...	-	...	-
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above .....	...	-	...	(1,263)
Net adjustment for establishments receiving progress payments .....	...	-	...	-
<b>Total adjusted value of shipments and work done .....</b>	<b>...</b>	<b>133,299</b>	<b>...</b>	<b>144,842</b>

TABLE 14. Producers' Shipments<sup>1</sup> of Cement, by Provinces, 1963-65

Province	1963		1964		1965	
	Tons	Value	Tons	Value	Tons	Value
		\$'000		\$'000		\$'000
Newfoundland .....	92,460	1,848	90,453	1,834	93,777	1,987
Nova Scotia .....	-	-	-	-	45,067	764
New Brunswick .....	161,833	2,659	174,238	2,908	177,254	2,941
Quebec .....	2,330,641	36,939	2,631,187	41,627	2,836,645	45,806
Ontario .....	2,552,665	39,552	3,043,771	46,804	3,145,873	50,055
Manitoba .....	455,325	9,685	350,762	7,531	421,840	8,885
Saskatchewan .....	217,545	5,672	247,600	5,612	233,630	5,287
Alberta .....	727,122	13,713	771,977	14,347	671,738	15,598
British Columbia .....	476,071	6,547	537,396	10,041	601,878	11,200
<b>Canada .....</b>	<b>7,013,662<sup>2</sup></b>	<b>118,615</b>	<b>7,847,384<sup>2</sup></b>	<b>130,704</b>	<b>8,427,702</b>	<b>142,523</b>

<sup>1</sup> Does not include the value of containers. Includes amounts used by the producers.

<sup>2</sup> Includes 195,369 tons of masonry cement in 1963, 221,764 tons in 1964, and 240,616 tons in 1965.

TABLE 15. Production Imports and Exports of Cement, 1964 and 1965

	1964		1965	
	Tons	Value \$'000	Tons	Value \$'000
Output .....	7,760,580	...	8,529,475	...
Shipments (sold or used by producers) .....	7,847,384	130,704	8,427,702	142,523
Stocks on hand December 31 .....	527,268	...	591,936	...
Imports:				
Portland cement .....	250	6	80	2
Portland cement clinker (white) .....	17,317	447	18,759	484
Portland cement clinker (other) .....	-	-	15,497	113
Portland cement (white) .....	21,352	725	23,301	873
Cement n.o.p. ....	11,078	542	14,238	671
Exports:				
Portland cement .....	297,669	4,689	334,887	5,214
Apparent consumption <sup>1</sup> .....	7,549,965	...	8,108,392	...

<sup>1</sup> Imports of Standard Portland cement plus producers' shipments, less exports.

TABLE 16. Producers' Shipments and Apparent Consumption of Cement, 1956-65

Year	Shipments (sold or used)		Imports	Exports	Apparent consumption <sup>1</sup>
	Tons	Value \$'000	Tons	Tons	Tons
1956 .....	5,021,683	75,233	677,616 <sup>2</sup>	124,561	5,574,738
1957 .....	6,049,098	93,167	92,380	338,315	5,803,163
1958 .....	6,153,421	96,414	41,555	141,250	6,053,726
1959 .....	6,284,486	95,147	29,256	303,126	6,010,616
1960 .....	5,787,225	93,261	22,478	161,117	5,628,586
1961 .....	6,205,948	103,924	1,381	249,377	5,957,952
1962 .....	6,878,729	113,234	2,973	219,164	6,662,538
1963 .....	7,013,662	118,615	160	272,803	6,741,019
1964 .....	7,847,384	130,704	250	297,669	7,549,965
1965 .....	8,427,702	142,523	15,577	334,887	8,108,392

<sup>1</sup> Shipments plus imports less exports.

<sup>2</sup> Includes imported clinker, other than white.

TABLE 17. Producers' Shipments<sup>1</sup> of Cement, by Months, 1964 and 1965

Month	1964	1965	Month	1964	1965
	tons			tons	
January .....	298,285	275,587	August .....	903,163	979,801
February .....	339,782	301,265	September .....	873,084	959,982
March .....	415,604	449,371	October .....	904,092	919,103
April .....	467,518	558,033	November .....	686,975	721,403
May .....	696,555	816,371	December .....	408,268	520,394
June .....	924,880	937,631			
July .....	929,178	988,926	Totals .....	7,847,384	8,427,702

<sup>1</sup> Includes cement used at producers' own plants.



TABLE 18. Materials Used: Cement Manufacturers, 1956-65

Year	Cost of purchased portion of materials listed, and other	Shale	Limestone	Gypsum	Sand	Clay	Iron oxides <sup>1</sup>
	\$'000	tons					
1956 .....	3,063	250,641	7,152,693	234,545	121,616	822,499	33,043
1957 .....	4,895	397,907	8,741,863	287,786	101,442	990,526	71,023
1958 .....	4,698	433,633	8,473,596	293,514	185,522	1,014,063	31,148
1959 .....	3,757	382,975	8,175,733	278,298	227,218	930,829	29,920
1960 .....	2,542	259,121	7,965,872	262,002	242,139	886,839	28,556
1961 .....	3,141	265,206	8,145,376	297,785	207,118	909,227	31,140
1962 .....	3,814	294,973	9,294,196	326,674	219,193	1,047,731	38,465
1963 .....	3,953	297,265	9,384,412	323,234	282,381	1,025,896	35,483
1964 .....	3,814	299,328	10,275,353 <sup>r</sup>	359,988	195,408	1,085,225 <sup>r</sup>	40,896
1965 .....	4,903	347,981	11,517,771	405,889	297,124	1,193,290	59,757

<sup>1</sup> Produced from iron pyrites by the chemical industry.

Note: Quantities include own raw materials and purchased materials.

TABLE 19. Coal Used: Cement Manufacturers, 1956-65

Year	Canadian		Foreign	
	Tons	Value	Tons	Value
		\$'000		\$'000
1956 .....	581,885	6,183	375,043	3,741
1957 .....	606,273	6,824	544,158	5,716
1958 .....	521,552	5,804	548,293	5,767
1959 .....	708,425	7,054	247,733	2,554
1960 .....	535,847	5,026	241,709	2,507
1961 .....	306,296	2,923	288,542	3,012
1962 .....	460,352	4,317	173,240	1,826
1963 .....	434,875	4,128	179,766	1,854
1964 .....	474,413	4,563	200,702	2,039
1965 .....	387,018	3,623	524,551	5,424

TABLE 20. Number and Capacity of Kilns in Cement Plants, 1956-65

Year	Total kilns		Kilns in use during the year	
	Number	Total capacity tons per year	Number	Total capacity tons per year
1956 .....	37	6,142,950	35	5,811,895
1957 .....	39	7,076,820	39	7,076,620
1958 .....	42	7,846,405	42	7,846,405
1959 .....	42	8,135,120	39	7,927,070
1960 .....	45	8,827,525	39	7,868,295
1961 .....	45	8,833,628	40	8,059,503
1962 .....	45	9,045,050	40	8,555,750
1963 .....	46	9,405,800	40	8,734,500
1964 .....	47	9,951,675	42	9,475,875
1965 .....	51	11,060,375	49	10,701,087



TABLE 21. World Production of Hydraulic Cement, by Countries

(From the Annual Review published by the United States Bureau of Mines)

Country	1961	1962	1963	1964	1965
	thousand barrels				
North America:					
Canada (sold or used by producers)	33,010	36,587	37,314	42,075	44,432
Costa Rica	—	—	—	193	698
Cuba	5,107	4,568	4,761	4,691	4,691
Dominican Republic	1,390	1,425	1,343	1,747	1,243
Guatemala	733	704	921	1,090	1,354
Haiti	258	299	270	328	246
Honduras	246	322	352	428	551
Jamaica	1,266	1,173	1,179	1,648	1,835
Mexico	17,795	19,654	22,058	26,174	24,620
Nicaragua	229	270	317	358	387
Panama	668	715	833	733	967
Salvador (El.)	440	381	457	528	475
Trinidad	575	967	950	1,032	1,114
United States (including Puerto Rico)	338,628	351,932	368,406	385,386	388,842
Totals	400,345	418,997	439,161	466,411	471,455
South America:					
Argentina	17,021	17,162	14,863	16,875	18,856
Bolivia	264	293	364	375	352
Brazil	27,622	29,739	30,395	32,623	32,700
Chile	5,177	5,992	6,837	7,429	6,966
Colombia	9,334	10,237	10,759	11,521	12,213
Ecuador	1,284	1,255	1,513	1,689	1,906
Paraguay	94	94	106	135	170
Peru	3,483	4,110	4,421	4,855	5,998
Uruguay	2,281	2,193	1,993	2,416	2,527
Venezuela	8,871	9,000	9,264	10,947	12,160
Totals	75,431	80,075	80,515	88,865	93,848
Europe:					
Albania	704	698	762	745	879
Austria	18,082	17,924	19,419	22,093	23,635
Belgium	27,874	28,073	27,610	34,277	34,623
Bulgaria	10,255	11,099	12,929	15,162	15,720
Czechoslovakia	31,328	33,479	30,360	32,207	40,005
Denmark	9,287	9,569	8,918	11,129	11,433
Finland	7,910	7,956	8,373	9,217	10,290
France	90,183	98,984	106,325	126,278	132,417
Germany:					
East	30,929	31,849	32,002	33,814	35,672
West	159,153	167,649	171,308	197,195	200,126
Saar					
Greece	10,771	11,275	13,450	15,667	18,833
Hungary	9,387	10,161	10,542	13,233	14,002
Iceland	440	569	575	633	668
Ireland	3,500	4,456	4,697	5,705	6,168
Italy	105,721	118,274	129,509	133,918	118,638
Luxembourg	1,354	1,349	1,190	1,196	1,302
Netherlands	11,158	11,815	12,202	16,845	17,432
Norway	7,470	8,279	8,431	9,035	9,053
Poland	43,177	44,233	44,995	51,368	56,129
Portugal	7,294	8,214	8,402	9,510	9,258
Rumania	19,396	20,457	25,617	27,862	31,697
Spain (includes Canary Islands)	38,862	42,767	45,429	49,838	57,695
Sweden	17,848	18,024	19,343	20,914	21,806
Switzerland	21,114	21,847	20,996	25,341	23,682
U.S.S.R. <sup>1</sup>	298,231	336,131	357,767	378,142	424,479
United Kingdom	84,291	83,587	82,438	99,488	99,488
Yugoslavia	13,697	14,764	16,693	17,819	18,188
Totals	1,079,416	1,163,482	1,220,282	1,358,631	1,433,318

See footnotes at end of table.

TABLE 21. World Production of Hydraulic Cement, by Countries - Concluded

Country	1961	1962	1963	1964	1965
	thousand barrels				
Asia:					
Afghanistan <sup>1</sup>	240	352	604	733 <sup>2</sup>	997
Burma	235	311	727	768	704
Ceylon	481	498	440	440	504
China	46,906	46,906	58,633	61,565 <sup>2</sup>	64,496
Cyprus	557	569	563	410	563
Hong Kong	1,079	1,243	1,272	1,261	1,413
India	48,343	50,342	54,851	56,815	62,198
Indonesia	2,609	2,961	1,935	2,574	2,140
Iran <sup>1</sup>	4,368	4,368 <sup>2</sup>	4,368 <sup>2</sup>	4,368 <sup>2</sup>	4,368
Iraq	5,494	5,400	5,283	6,303	7,534
Israel	4,960	5,594	5,992	6,438	7,376
Japan	144,448	168,787	175,594	193,377	191,665
Jordan	1,308	1,378	1,671	1,805	1,788
Korea:					
North	13,263	13,931	14,834	15,303	14,072
South	3,067	4,632	4,562	7,282	9,463
Lebanon	5,125	5,048	5,254	5,259	5,805
Malaysia	1,941	1,911	2,123	2,732	4,333
Pakistan	7,288	8,179	8,783	9,065	10,009
Philippines	5,975	5,635	5,576	7,042	8,895
Saudi Arabia	616	891	1,091	1,407	1,548
Singapore	-	715	1,137	1,173	1,190
Syrian Arab Republic	3,166	3,559	4,016	3,723	4,896
Taiwan	8,848	10,970	13,169	13,808	14,330
Thailand	4,749	5,646	5,840	6,215	7,323
Turkey	11,891	13,620	15,819	17,238	19,021
Viet-Nam:					
North <sup>1</sup>	2,685	2,709	2,879	3,805	4,397
South	-	-	-	440	1,143
<b>Totals</b>	<b>329,642</b>	<b>366,155</b>	<b>397,016</b>	<b>431,349</b>	<b>452,171</b>
Africa:					
Algeria	6,285	5,113	5,183	4,280	4,345
Angola	921	991	1,137	1,255	1,437
Cameroon, Republic of	-	-	-	-	-
Cape Verde Islands	41	41 <sup>2</sup>	64	70	70
Congo, Republic of the (Leopoldville)	821	1,155	1,442	1,319	1,454
Ethiopia	176	258	188	258 <sup>2</sup>	563
Kenya	1,935	2,029	2,011	2,474	2,961
Malawi	217	193	147	182	182
Morocco	3,694	4,093	4,450	5,435	4,362
Mozambique	1,243	1,050	979	1,067	1,290
Nigeria	2,134	2,838	3,084	3,887	5,764
Rhodesia (formerly Southern)	1,636	1,466 <sup>2</sup>	1,466 <sup>2</sup>	1,466 <sup>2</sup>	1,466
Senegal	1,067	1,073	1,114	1,202	1,061
South Africa, Republic of	15,233	15,591	16,910	20,410	22,755
Sudan	487	498	680	534	469
Tunisia	1,929	2,128	2,117	2,668	2,662
Uganda	369	328	322	428	768
United Arab Republic:					
Egypt region	12,073	13,087	14,711	14,781	13,603
Zambia	715	698	680	985	985
<b>Totals</b>	<b>50,976</b>	<b>52,630</b>	<b>56,685</b>	<b>62,701</b>	<b>66,467</b>
Oceania:					
Australia	16,757	17,197	18,288	21,260	22,292
Fiji Islands	-	-	-	182	235
New Zealand	3,817	3,700	4,233	4,620	4,937
<b>Totals</b>	<b>20,574</b>	<b>20,897</b>	<b>22,521</b>	<b>26,062</b>	<b>27,464</b>
<b>World totals (estimate)<sup>1</sup></b>	<b>1,956,384</b>	<b>2,102,236</b>	<b>2,216,180</b>	<b>2,434,019</b>	<b>2,544,723</b>

<sup>1</sup> This table incorporates a number of revisions of data published in previous cement chapters.

<sup>2</sup> Estimate.

<sup>3</sup> Year ended March 20 of year following that stated.

**List of Establishments classified to this Industry, 1965**

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

Name	Location
<b>Newfoundland:</b>	
North Star Cement Ltd. ....	Humber Heights, Corner Brook East
<b>Nova Scotia:</b>	
Canada Cement Company Limited .....	Brookfield
<b>New Brunswick:</b>	
Canada Cement Company Limited .....	Havelock
<b>Quebec:</b>	
Canada Cement Company Limited .....	Hull
Canada Cement Company Limited .....	Lakefield Ave., Montreal East
Ciment Québec Inc. ....	St-Basile
La Cie des Ciments du St. Laurent.....	Boulevard Ste-Anne, Villeneuve
Miron Compagnie Ltée .....	2201 Jarry St.E., St-Michel
<b>Ontario:</b>	
Canada Cement Company Limited .....	Pointe Anne
Canada Cement Company Limited .....	Port Colborne
Canada Cement Company Limited .....	Woodstock
Lake Ontario Cement Limited .....	Picton
St. Lawrence Cement Co. ....	Lakeshore Hwy., Clarkson
St. Mary's Cement Co. Limited .....	St. Mary's
<b>Manitoba:</b>	
Canada Cement Company Limited .....	713 McDonald Rd., Fort Whyte
Inland Cement Industries Ltd. ....	Winnipeg
<b>Saskatchewan:</b>	
Saskatchewan Cement, Division of Inland Cement Industries Ltd. ....	Victoria Plains, Regina
<b>Alberta:</b>	
Canada Cement Company Limited .....	Clover Bar
Canada Cement Company Limited .....	Exshaw
Inland Cement Industries Limited .....	156th St. & 125th Ave., Edmonton
<b>British Columbia:</b>	
British Columbia Cement, Div. of Ocean Cement Ltd.....	Bamberton
Lafarge Cement of North America Ltd.....	Richmond



# 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 55 (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 135 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 reports reflect the complete implementation of these changes and enable comparisons to be made back to and including 1961. 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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