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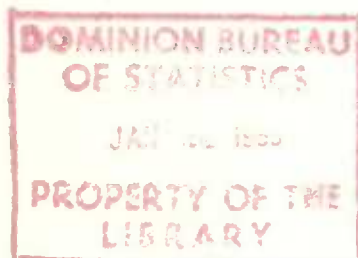
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ANNUAL



BREAKFAST CEREAL MANUFACTURERS

1963



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BREAKFAST CEREAL MANUFACTURERS

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Tabular presentations of statistical data in this publication are aligned to show **Manufacturing activity and total activity** of the establishments classified to this industry.

The respondents in this industry are those who are primarily manufacturing breakfast cereals and also flour milling firms which maintain separate breakfast food divisions.

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 A. Principal Statistics classified by Province, 1962 and 1963

Year and province	Establishments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1961													
Totals	19	1,156	2,508	4,914	520	15,651	40,036	23,632	5	15	1,521	6,989	23,678
1962													
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—	—	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—	—	—	—	—	—	—	—
Quebec	3	x	x	x	x	x	x	x	x	x	x	x	x
Ontario	8	1,105	2,399	5,260	637	17,850	42,163	24,359	x	x	1,416	7,134	24,861
Manitoba	4	26	48	77	8	630	1,363	711	x	x	29	92	707
Saskatchewan	—	—	—	—	—	—	—	—	—	—	—	—	—
Alberta	2	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	19	1,206	2,597	5,567	656	19,793	46,098	26,357	5	14	1,560	7,642	26,860
1963													
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—	—	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—	—	—	—	—	—	—	—
Quebec	3	x	x	x	x	x	x	x	x	x	x	x	x
Ontario	7	942	1,974	4,491	552	15,566	38,921	23,085	x	x	1,226	6,271	23,451
Manitoba	4	30	63	88	9	641	1,361	792	x	x	37	122	798
Saskatchewan	—	—	—	—	—	—	—	—	—	—	—	—	—
Alberta	2	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	18	1,043	2,194	4,821	572	17,500	42,921	25,257	5	20	1,377	6,830	25,689

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Under \$10,000.....	7	10	25	33	5	128	260	127	5	14	15	60	140
\$ 10,000 to \$ 24,999.....													
25,000 " 49,999.....													
50,000 " 99,999.....													
100,000 " 199,999.....													
200,000 " 499,999.....	6	73	141	221	20	1,565	2,874	1,283	—	—	88	276	1,288
500,000 " 999,999.....													
1,000,000 " 4,999,999.....	6	1,123	2,430	5,313	630	18,099	42,964	24,947	—	—	1,457	7,306	25,433
5,000,000 and over.....													
Head offices, sales offices and auxiliary units.....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	19	1,206	2,597	5,567	656	19,793	46,098	26,357	5	14	1,560	7,642	26,860
1963													
Under \$10,000.....	6	7	16	20	4	84	176	88	5	20	12	41	110
\$ 10,000 to \$ 24,999.....													
25,000 " 49,999.....													
50,000 " 99,999.....													
100,000 " 199,999.....													
200,000 " 499,999.....	7	81	179	267	23	1,678	3,127	1,534	—	—	103	361	1,619
500,000 " 999,999.....													
1,000,000 " 4,999,999.....	5	955	1,999	4,534	545	15,739	39,619	23,635	—	—	1,262	6,426	23,960
5,000,000 and over.....													
Head offices, sales offices and auxiliary units.....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	18	1,043	2,194	4,821	572	17,500	42,921	25,257	5	20	1,377	6,830	25,689

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Under \$10,000.....	7	10	25	33	5	128	260	127	5	14	15	60	140
\$ 10,000 to \$ 24,999.....													
25,000 " 49,999.....													
50,000 " 99,999.....													
100,000 " 199,999.....													
200,000 " 499,999.....	4	45	86	129	14	806	1,290	468	—	—	52	159	480
500,000 " 999,999.....													
1,000,000 " 4,999,999.....	4	98	199	375	54	2,458	4,679	2,247	—	—	150	652	2,241
5,000,000 and over.....													
Head offices, sales offices and auxiliary units.....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	19	1,206	2,597	5,567	656	19,793	46,098	26,357	5	14	1,560	7,642	26,890
1963													
Under \$10,000.....	6	7	16	20	4	84	176	88	5	20	12	41	110
\$ 10,000 to \$ 24,999.....													
25,000 " 49,999.....													
50,000 " 99,999.....													
100,000 " 199,999.....													
200,000 " 499,999.....	5	48	110	156	17	826	1,383	539	—	—	58	204	628
500,000 " 999,999.....													
1,000,000 " 4,999,999.....	3	63	133	212	8	1,484	3,034	1,868	—	—	100	384	1,705
5,000,000 and over.....													
Head offices, sales offices and auxiliary units.....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	18	1,043	2,194	4,821	572	17,500	42,921	25,257	5	20	1,377	6,830	25,689

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Under \$10,000.....													
\$ 10,000 to \$ 24,999.....	6	6	15	23	4	95	189	89	5	14	8	34	89
25,000 " 49,999.....													
50,000 " 99,999.....	5	49	97	140	16	840	1,362	506	—	—	59	185	530
100,000 " 199,999.....													
200,000 " 499,999.....	4	98	199	375	54	2,458	4,679	2,247	—	—	150	652	2,241
500,000 " 999,999.....													
1,000,000 " 4,999,999.....	4	1,053	2,286	5,030	582	16,400	39,868	23,515	—	—	1,343	6,770	24,000
5,000,000 and over.....													
Head offices, sales offices and auxiliary units.....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals.....	19	1,206	2,597	5,567	656	19,793	46,098	26,357	5	14	1,580	7,642	26,860
1963													
Under \$10,000.....													
\$ 10,000 to \$ 24,999.....	6	7	16	20	4	64	176	88	5	20	12	41	110
25,000 " 49,999.....													
50,000 " 99,999.....	5	46	110	156	17	826	1,383	539	—	—	58	204	628
100,000 " 199,999.....													
200,000 " 499,999.....	3	63	133	212	8	1,484	3,034	1,668	—	—	100	384	1,705
500,000 " 999,999.....													
1,000,000 " 4,999,999.....	4	925	1,934	4,434	542	15,106	38,330	22,963	—	—	1,207	6,201	23,246
5,000,000 and over.....													
Head offices, sales offices and auxiliary units.....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals.....	18	1,043	2,194	4,821	572	17,500	42,921	25,257	5	20	1,377	6,830	25,689

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Under 5 employed.....	6	6	15	23	4	95	189	89	5	14	8	34	69
5- 14 ".....	4	32	61	89	7	683	1,511	807	—	—	37	112	815
15- 49 ".....	3	45	91	143	15	915	1,434	514	—	—	58	190	523
50- 99 ".....													
100-199 ".....	3	202	436	956	176	5,633	11,412	6,210	—	—	280	1,387	6,206
200-499 ".....													
500 employed and over.....	3	921	1,994	4,357	454	12,466	31,552	18,738	—	—	1,177	5,919	19,227
Head offices, sales offices and auxiliary units.....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals.....	19	1,206	2,597	5,567	656	19,793	46,098	26,357	5	14	1,560	7,642	26,860
1963													
Under 5 employed.....	5	4	10	11	3	57	122	60	5	20	4	11	60
5- 14 ".....	6	48	107	148	12	827	1,745	987	—	—	63	221	1,015
15- 49 ".....													
50- 99 ".....	4	96	205	373	58	2,301	4,658	2,363	—	—	156	696	2,489
100-199 ".....													
200-499 ".....	3	895	1,873	4,289	499	14,315	36,397	21,847	—	—	1,154	5,901	22,125
500 employed and over.....													
Head offices, sales offices and auxiliary units.....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals.....	18	1,043	2,194	4,821	572	17,500	42,921	25,257	5	20	1,377	6,830	25,689

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

Type of organization	Establishments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Individual ownerships	1	2	5	6	3	48	93	42	5	14	3	11	42
Partnerships	2												
Incorporated companies	16	1,204	2,592	5,561	653	19,745	46,005	26,315	—	—	1,557	7,632	26,818
Cooperatives	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	19	1,206	2,597	5,567	656	19,793	46,098	26,357	5	14	1,560	7,642	26,860
1963													
Individual ownerships	1	3	7	7	3	51	106	53	5	20	3	7	53
Partnerships	2												
Incorporated companies	15	1,040	2,187	4,813	569	17,450	42,814	25,204	—	—	1,374	6,823	25,636
Cooperatives	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	18	1,043	2,194	4,821	572	17,500	42,921	25,257	5	20	1,377	6,830	25,689

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

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1962	1963	1962	1963	1962	1963
	\$'000					
Output						
1. Shipments and other revenue	46,098	42,921	2,213	2,342	48,311	45,263
Inventories—Goods of own manufacture:						
Add closing—Goods in process	85	52	...	...	85	52
Finished goods	1,955	1,668	...	...	1,955	1,668
Less opening—Goods in process	58	81	...	...	58	81
Finished goods	1,274	1,231	...	...	1,274	1,231
2. Net inventory change	708	408	...	...	708	408
3. Gross output (1 + 2)	46,806	43,329	2,213	2,342	49,019	45,871
Input						
4. Purchases of goods not of own manufacture .....	...	...	1,622	1,781	1,622	1,761
Inventories—Goods not of own manufacture:						
Add opening .....	...	...	15	35	15	35
Less closing .....	...	...	29	12	29	12
5. Costs of goods sold (not of own manufacture) .....	...	...	1,608	1,784	1,608	1,784
6. Materials, supplies, components and semi-processed goods	19,793	17,500	102	125	19,895	17,625
7. Fuel and electricity	856	572	...	...	856	572
8. Gross input (5 + 6 + 7)	20,449	18,072	1,710	1,909	22,159	19,981
Census value added (3-8)	26,357	25,257	503	433	26,860	25,689

TABLE 3. Employment and Payroll, 1962 and 1963

Year and province	Employees										Salaries and wages				
	Production and related workers				Adminis- trative and office		Sales and distribution		Total employees		Production and related workers		Admin- istra- tive and office	Sales and distrib- ution	Total salaries and wages
	Manufacturing		Other								Manufacturing	Other			
	Male	Female	Male	Female	Male	Female	Male	Female	Manufacturing	Other					
	number										\$'000				
1962															
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Quebec	x	x	—	—	x	x	x	—	x	x	x	—	x	x	x
Ontario	786	319	3	3	110	70	116	9	1,015	401	5,260	27	1,085	762	7,134
Manitoba	15	11	—	—	3	—	—	—	18	11	77	—	15	—	92
Saskatchewan	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	839	367	3	3	128	83	128	9	1,098	462	5,567	27	1,217	831	7,642
1963															
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Quebec	x	x	—	—	x	x	x	—	x	x	x	—	x	x	x
Ontario	653	289	9	3	89	55	120	8	871	355	4,491	57	934	789	6,271
Manitoba	18	12	—	—	6	1	—	—	24	13	88	—	33	—	122
Saskatchewan	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	703	340	9	3	112	69	133	8	957	420	4,821	57	1,094	858	6,830

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

Month	Establishments reporting monthly detail			
	1962		1963	
	Male	Female	Male	Female
	number			
January	853	353	659	297
February	833	327	693	326
March	833	334	685	330
April	853	393	689	352
May	867	389	683	335
June	923	440	724	358
July	924	432	744	393
August	873	421	746	386
September	832	369	712	351
October	822	349	703	318
November	754	272	693	316
December	710	320	700	318
Average for establishments reporting monthly detail (collected only for large establishments)	839	367	703	340
Average for small establishments (only annual averages collected) .....	...	...	...	...
Average for all establishments	839	367	703	340

TABLE 4. Industry Inventories, 1963¹

Province	Manufacturing				Non-manufacturing	Total inventories
	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total manufacturing	Products or materials purchased for resale	
book value \$'000						
Opening:						
Newfoundland	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—
Quebec	x	—	x	x	—	x
Ontario	2,471	81	1,012	3,564	35	3,599
Manitoba	96	—	104	200	—	200
Saskatchewan	—	—	—	—	—	—
Alberta	x	—	x	x	—	x
British Columbia	x	—	x	x	—	x
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	2,891	81	1,231	4,003	35	4,038
Closing:						
Newfoundland	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—
Quebec	x	—	x	x	—	x
Ontario	2,371	52	2,219	4,642	12	4,654
Manitoba	61	—	184	245	—	245
Saskatchewan	—	—	—	—	—	—
Alberta	x	—	x	x	—	x
British Columbia	x	—	x	x	—	x
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	2,527	52	2,565	5,144	12	5,156

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

Description	1962		1963	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Large establishments which reported commodity detail:				
Bituminous coal:				
(a) From Canadian mines	ton	125	96	1
(b) Imported	"	11,421	16,473	194
Sub-bituminous coal (from Alberta mines only)	"	—	—	—
Anthracite coal	"	—	—	—
Lignite coal	"	—	—	—
Coke	"	—	—	—
Gasoline (including gasoline used in cars and trucks) ..	Imp. gal.	10,879	10,615	4
Fuel oil including kerosene or coal oil	"	11,615	19,032	2
Wood	cord	—	—	—
Gas:				
(a) Liquefied petroleum gases	Imp. gal.	3,669	2,010	1
(b) Other manufactured gas	M cu. ft.	—	—	—
(c) Natural gas	"	258,517	146,878	108
Other fuel		—	—	—
Electricity purchased	kwh.	35,906,475	38,853,707	258
Steam purchased		—	—	—
2. Estimate for small establishments:				
Fuel and electricity		8	—	5
3. All establishments:				
Total fuel and electricity used		656		572

¹The difference between figures in Table 4 and those in Table 2 arises from firms reporting output of products on the basis of production rather than of shipments. Consequently, inventories of finished products for such respondents are not taken into account for purposes of compiling value added in Table 2. See also "Concepts and Definitions" for explanation of other variances.

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

Description	1962		1963	
	Quantity	Cost	Quantity	Cost
	ton	\$'000	ton	\$'000
1. Materials used:				
Wheat	25,652	1,841	21,955	1,566
Rye	82	6	72	5
Barley	1,694	117	1,614	94
Buckwheat	393	25	475	30
Oats	22,927	1,337	18,044	1,096
Corn	40,814	2,306	46,719	2,841
Corn grits, cornmeal, corn germ, and cracked corn	2,512	200	1,767	143
Rice and rice meal	10,947	2,223	7,880	1,523
Bran, shorts and middlings	7,564	477	6,567	488
Flour (wheat, etc.)	8,398	867	4,964	476
Flax	7	1	9	1
Wheat germ, wheatlets	278	57	361	56
Other grains, meals, etc.	1,493 ^r	342 ^r	3,177	436
Malt and malt sprouts	380	46	459	53
Malt extract and syrup	483	74	528	99
Sugar	7,099	1,027	5,187	1,254
Glucose	414	64	183	37
Salt	1,182	30	1,233	33
Shortening	194	51	229	77
All other materials and components used ¹ .....	...	1,675 ^r	...	1,420
2. Containers and other packaging materials and supplies used .....	...	6,359	...	5,220
3. Operating, maintenance and repair supplies used (excluding fuel) .....	...	667	...	546
4. Amount paid out to others for work done on materials owned by establishments .....	...	-	...	6
Totals .....	...	19,793	...	17,500

¹ No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$244,010 in 1962 and \$136,485 in 1963.

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

Description	1962		1963	
	Quantity	Value	Quantity	Value
	lb.	\$'000		\$'000
1. Products:				
Prepared breakfast cereals (ready for serving)	100,705,442	33,572	Commodity details not separately available - see Table 8	
Unprepared breakfast cereals	13,020,956	1,759		
All other products .....	...	10,826		
2. Amount received in payment for work done on materials and products owned by others .....	...	5	...	1
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above .....	...	(63)	...	-
Net adjustment for establishments receiving progress payments .....	...	-	...	-
Total adjusted value of shipments and work done .....	...	46,098	...	42,921

TABLE 8. Shipments of Selected Goods of Own Manufacture - All Industries, 1962 and 1963

(Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed)
(Selected Breakfast Cereal Products Only)

Description	1962		1963	
	Quantity	Value	Quantity	Value
	lb.	\$'000	lb.	\$'000
Prepared breakfast cereals	106,713,274	35,372	115,688,836	39,815
Unprepared breakfast cereals	17,085,611	2,237	15,772,014	1,913

List of Establishments classified to This Industry, 1963

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

Name	Location
Quebec:	
Eastern Cereal Food Products Co. Ltd.	St-Mathias
Jackson Newport Foods Co. Div. of George Weston Ltd.	Jacques Cartier
Empire Milling Co.	1451 Prefontaine St., Montreal
Ontario:	
Nabisco Limited	1651 Lewis Ave., Niagara Falls
Durum Cereals Limited	4 Shaftesbury Place, Toronto
Kellogg Company of Canada Limited	1097 Dundas St., London
Quaker Oats Co. of Canada Ltd., The	Peterborough
Ralston Purina Co. Ltd.	Clarkson
Toronto Buckwheat Milling Co.	660 College St., Toronto
Wilson, James & Sons Limited	St. Andrew St., Fergus
Manitoba:	
A & G. Packing Co.	71 Archibald St., St. Boniface
Nabisco Limited	312 Chambers St., Winnipeg
Prairie Maid Cereals Limited	905 Berry St., St. James
Winnipeg Cereal Milling Ltd.	1005 Logan Ave., Winnipeg
Alberta:	
Prairie Maid Cereals Limited	8625 Stadium Road, Edmonton
Sunny Boy Limited	Camrose
British Columbia:	
Melograin Milling Co. Ltd.	425 Industrial Ave., Vancouver
Rockhill Products Ltd.	231 - 10th St., New Westminster

CONCEPTS AND DEFINITIONS

Census of Manufactures

General

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

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

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

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

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

Establishment

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

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

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

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

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

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

Head Offices and Auxiliary Units

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

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

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

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

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

Employees

(a) Production and related workers - Manufacturing activity

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

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

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

(c) Administrative and office employees

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

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

(d) Sales and distribution workers

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

(e) Total Employees

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

Working Owners or Partners

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

Salaries and Wages

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

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

Fuel and Electricity

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

Materials and Supplies

(a) Manufacturing activities

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

(b) Non-manufacturing activities

1. Purchases for re-sale as such

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

2. Other materials and supplies used

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

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

Shipments

(a) General

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

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

(b) Shipments of goods of own manufacture

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

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

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

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

(c) Shipments of goods not of own manufacture

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

(d) Other revenue

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

Inventories

(a) Manufacturing activities

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

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

(b) Non-manufacturing activities

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

Value Added

(a) By manufacturing activities

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

(b) By non-manufacturing activities

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

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

(c) By Total activities

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

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