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FLOUR MILLS

1962

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SYMBOLS

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

- .. figures not available.
- ... figures not appropriate or not applicable.
- nil or zero.
- amount too small to be expressed.
- preliminary figures.
- * revised figures.

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Tabular presentations of statistical data in this publication show more details than were contained in previous catalogues for this industry. Basically the information has been expanded to reflect **total activity** of the establishments, whereas in previous years the published data represented the manufacturing operations. For explanation of definitions and tabular details, please refer to table footnotes and also the Explanatory Notes on the pages following Table 9.

Commencing 1953 the Grain Milling Industries have been presented in the following publications:

Flour Mills includes all establishments which primarily produce wheat flour. By-products would also include feeds or cereals in any form. However, some of the larger milling companies operate feed and/or cereal divisions. In these instances separate reports are completed for the respective operations.

Feed Manufacturers includes those establishments classified as manufacturers of prepared feeds or chopped grain feeds on own account. Service operation of custom milling and chopping may also form part of the manufacturing activities. Historically the feed milling industry as it was compiled prior to 1953, has been removed from its statistical association with flour milling. Concurrent with this segregation, the feeds industry was expanded to include the Prepared Stock and Poultry Feed Industry.

Breakfast Cereal Manufacturers includes those establishments which are primarily manufacturing breakfast cereal foods. The industry also includes some of the larger milling firms which maintain separate specialized cereal divisions.

TABLE 1. Principal Statistics - Manufacturing Activity,¹ 1957-61
 Basis: Revised Standard Industrial Classification and New Establishment Concept²

Year	Estab- lish- ments	Employees						Cost of fuel and elec- tricity ⁴	Cost of materials and supplies used ⁴	Value of shipments of goods of own manu- facture ⁴	Value added ⁴
		Production and related workers ⁴		Administrative and office employees ³		Total ⁴					
		Number	Wages	Number	Salaries	Number	Salaries and wages				
	No.		\$'000		\$'000				\$'000		
1957	59	2,973	9,681	1,365	5,278	4,338	14,959	1,731	168,305	202,885	..
1958	57	2,926	10,138	1,409	5,556	4,335	15,694	1,782	173,349	216,332	41,575
1959	57	2,847	10,545	1,324	6,035	4,171	16,579	1,779	170,012	217,461	45,767
1960	55	2,871	11,227	1,340	6,325	4,211	17,552	1,838	176,199	222,549	44,510
1961	54	2,664	10,685	1,300	6,236	3,964	16,921	1,686	173,682	220,587	45,275

See footnotes following Table 3 A.

TABLE 1 A. Principal Statistics - Manufacturing Activity and Total Activity,¹ 1961 and 1962
 Basis: Revised Standard Industrial Classification and New Establishment Concept²

Year and province	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers ⁴			Cost of fuel and elec- tricity ⁵	Cost of materials and supplies used ⁴	Value of shipments of goods of own manu- facture ⁴	Value added ⁴	Working owners and partners ⁶		Total employees ⁷		Total value added ⁸
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000		\$'000				\$'000		\$'000		
1961													
New Brunswick .....	...	...	...	...	...	...	...	...	...	24	92	...	
Quebec	4	423	1,019	1,947	248	39,056	48,569	9,351	-	-	1,039	4,914	10,193
Ontario	29	933	2,150	3,758	571	57,961	72,614	14,198	12	61	1,145	4,752	14,530
Manitoba	5	348	731	1,355	218	18,893	22,776	3,659	12	12	505	1,952	3,939
Saskatchewan	6	505	1,083	1,944	409	34,068	46,423	11,900	12	12	806	3,264	11,971
British Columbia	2												
Alberta	8	456	924	1,681	240	23,685	30,205	6,186	12	12	704	2,676	6,419
Totals	54	2,665	5,906	10,685	1,686	173,662	220,587	45,295	17	76	4,223	17,649	47,052
1962													
New Brunswick .....	...	...	...	...	...	...	...	...	...	...	23	57	...
Quebec	4	459	1,004	1,928	247	45,051	54,637	9,380	-	-	1,203	5,662	10,077
Ontario	30	896	1,931	3,645	572	64,296	80,017	15,300	13	61	1,135	4,788	16,572
Manitoba	5	310	612	1,163	216	18,373	22,243	3,631	-	-	493	1,931	3,747
Saskatchewan	6	474	978	1,983	388	35,278	45,534	9,624	12	12	765	3,366	9,927
British Columbia	2												
Alberta	8	436	855	1,634	248	25,456	31,824	6,032	12	12	646	2,524	6,225
Totals	55	2,575	5,380	10,353	1,672	188,453	234,255	43,967	16	70	4,265	18,328	46,548

See Table 2 and footnotes following Table 3 A.

TABLE 1B. Principal Statistics classified by Size Groups based on Shipments of Goods of Own Manufacture, 1961 and 1962
 Basis: Revised Standard Industrial Classification and New Establishment Concept²

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers ⁴			Cost of fuel and elec- tricity ⁵	Cost of materials and supplies used ⁴	Value of shipments of goods of own manu- facture ⁴	Value added ⁴	Working owners and partners ⁶		Total employees ⁷		Total value added ⁸
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
No.	'000	\$'000					'000	\$'000		'000			
1961													
Under \$10,000	5	2	5	6	4	30	62	27	5	15	3	7	27
\$ 10,000 to \$ 24,999	4	12	31	37	13	179	278	95	4	17	14	44	142
25,000 " 49,999		23	61	81	15	445	579	109	4	24	28	94	142
50,000 " 99,999		31	77	97	34	1,187	1,521	301			38	136	353
100,000 " 199,999		50	129	160	38	2,553	3,178	599	63	255	619		
200,000 " 499,999	509	1,143	1,899	402	31,037	41,450	10,127	—	—	709	2,899	10,629	
500,000 " 999,999	2,038	4,461	8,404	1,180	138,231	173,518	34,036	—	—	2,984	12,469	35,438	
1,000,000 " 4,999,999	15	—	—	—	—	—	—	—	—	—	—	—	—
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units ¹⁰	—	—	—	—	—	—	—	—	—	—	384	1,744	(299)
Totals	54	2,665	5,906	10,685	1,686	173,662	220,587	45,295	17	76	4,223	17,649	47,052
1962													
Under \$10,000	4	2	4	7	2	28	46	15	3	9	2	7	19
\$ 10,000 to \$ 24,999	5	14	34	52	10	184	284	80	4	19	18	83	115
25,000 " 49,999		15	32	51	26	416	565	138	4	11	21	73	155
50,000 " 99,999		43	97	153	44	1,552	2,012	410			52	239	454
100,000 " 199,999		40	98	129	25	2,222	2,623	398	5	32	50	187	397
200,000 " 499,999	393	863	1,441	258	27,873	34,626	6,733	—	—	562	2,328	8,079	
500,000 " 999,999	2,068	4,252	8,521	1,306	156,176	194,098	36,192	—	—	3,017	12,849	37,630	
1,000,000 " 4,999,999	17	—	—	—	—	—	—	—	—	—	—	—	—
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units ¹⁰	—	—	—	—	—	—	—	—	—	—	543	2,583	(300)
Totals	55	2,575	5,380	10,353	1,672	188,453	234,255	43,967	16	70	4,265	18,328	46,548

See footnotes following Table 3 A.

TABLE 1C. Principal Statistics classified by Size Groups based on Manufacturing Value Added, 1961 and 1962
 Basis: Revised Standard Industrial Classification and New Establishment Concept²

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers ⁴			Cost of fuel and elec- tricity ⁵	Cost of materials and supplies used ⁴	Value of shipments of goods of own manu- facture ⁴	Value added ⁴	Working owners and partners ⁶		Total employees ⁷		Total value added ⁸
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
No.	'000	\$'000					'000	\$'000		'000			
1961													
Under \$10,000	5	3	6	7	4	53	83	26	4	10	4	8	26
\$ 10,000 to \$ 24,999	3	8	21	26	7	165	214	42	4	19	11	33	73
25,000 " 49,999		32	85	114	34	657	898	204	5	27	39	137	300
50,000 " 99,999		45	107	135	38	2,450	2,872	401			55	187	407
100,000 " 199,999		124	287	426	66	5,902	7,037	1,047	4	20	173	703	1,108
200,000 " 499,999	82	187	303	65	5,450	6,454	954	—	—	110	486	1,018	
500,000 " 999,999	461	1,025	1,779	313	29,874	37,418	7,268	—	—	652	2,654	7,688	
1,000,000 " 4,999,999	1,910	4,187	7,895	1,160	129,110	165,611	35,353	—	—	2,795	11,697	36,733	
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units ¹⁰	—	—	—	—	—	—	—	—	—	—	384	1,744	(299)
Totals	54	2,665	5,906	10,685	1,686	173,662	220,587	45,295	17	76	4,223	17,649	47,052
1962													
Under \$10,000	5	2	5	8	3	55	82	24	4	12	2	8	28
\$ 10,000 to \$ 24,999	6	17	38	59	17	343	472	107	6	21	23	75	142
25,000 " 49,999		19	44	72	20	534	662	109	6	37	23	84	142
50,000 " 99,999		54	121	180	58	2,397	3,021	576			65	278	803
100,000 " 199,999		271	593	984	174	17,512	20,988	3,392	—	—	380	1,530	4,336
200,000 " 499,999	452	942	1,807	322	32,478	38,325	5,663	—	—	649	2,745	6,029	
500,000 " 999,999	1,760	3,636	7,245	1,077	135,135	170,704	34,096	—	—	2,580	11,026	35,567	
1,000,000 " 4,999,999	14	—	—	—	—	—	—	—	—	—	—	—	—
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units ¹⁰	—	—	—	—	—	—	—	—	—	—	543	2,583	(300)
Totals	55	2,575	5,380	10,353	1,672	188,453	234,255	43,967	16	70	4,265	18,328	46,548

See footnotes following Table 3 A.

TABLE 1 D. Principal Statistics classified by Size Groups based on Total Value Added, 1961 and 1962
Basis: Revised Standard Industrial Classification and New Establishment Concept²

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers ⁴			Cost of fuel and elec- tricity ⁵	Cost of materials and supplies used ⁴	Value of shipments of goods of own manu- facture ⁴	Value added ⁴	Working owners and partners ⁶		Total employees ⁷		Total value added ⁸
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
No.		'000			'000			'000		'000			
1961													
Under \$10,000	5	3	6	7	4	53	83	26	4	10	4	8	26
\$ 10,000 to \$ 24,999	6	22	58	78	17	429	592	139	5	21	27	89	172
25,000 " 49,999	9	63	155	196	62	2,843	3,392	508	4	24	78	268	607
50,000 " 99,999	6	116	262	396	53	5,400	6,338	855	4	20	162	632	900
100,000 " 199,999	5	90	213	333	78	5,952	7,154	1,145	-	-	121	556	1,225
200,000 " 499,999	7	379	841	1,485	237	24,858	30,406	5,400	-	-	535	2,147	5,659
500,000 " 999,999	16	1,992	4,371	8,189	1,235	134,126	172,623	37,221	-	-	2,912	12,205	38,762
1,000,000 " 4,999,999													
5,000,000 and over	...	...	...	...	...	...	...	...	...	...	384	1,744	(299)
Head offices, sales offices and auxiliary units ¹⁰	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	54	2,665	5,906	10,685	1,686	173,662	220,587	43,295	17	76	4,223	17,649	47,652
1962													
Under \$10,000	5	2	5	8	3	55	82	24	4	12	2	8	28
\$ 10,000 to \$ 24,999	3	10	22	33	11	247	305	46	3	6	13	41	47
25,000 " 49,999	5	19	43	70	13	404	550	129	4	21	24	84	178
50,000 " 99,999	8	53	119	176	64	2,332	2,897	518	5	32	63	225	553
100,000 " 199,999	3	30	76	105	16	1,365	1,697	324	-	-	41	211	332
200,000 " 499,999	8	162	363	603	108	11,349	13,669	2,304	-	-	244	1,005	2,390
500,000 " 999,999	7	439	891	1,695	272	29,403	34,608	5,082	-	-	607	2,480	5,439
1,000,000 " 4,999,999	16	1,860	3,861	7,665	1,184	143,298	180,449	35,539	-	-	2,728	11,691	37,880
5,000,000 and over													
Head offices, sales offices and auxiliary units ¹⁰	...	...	...	...	...	...	...	...	...	...	543	2,583	(300)
Totals	55	2,575	5,380	10,353	1,672	188,453	234,255	43,967	16	70	4,265	18,328	46,548

See footnotes following Table 3 A.

TABLE 1 E. Principal Statistics classified by Size Groups based on Total Employed,¹¹ 1961 and 1962
Basis: Revised Standard Industrial Classification and New Establishment Concept²

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers ⁴			Cost of fuel and elec- tricity ⁵	Cost of materials and supplies used ⁴	Value of shipments of goods of own manu- facture ⁴	Value added ⁴	Working owners and partners ⁶		Total employees ⁷		Total value added ⁸
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
No.		'000			'000			'000		'000			
1961													
Under 5 employees	7	5	11	13	8	86	162	70	7	21	6	14	72
5- 14 employees	15	96	246	318	96	4,185	5,275	994	10	55	117	433	1,140
15- 49 "	11	202	488	757	149	17,286	21,400	4,182	-	-	287	1,305	4,276
50- 99 "	7	342	780	1,357	314	21,871	30,095	7,841	-	-	486	2,062	8,088
100-199 "	8	884	1,920	3,549	449	60,602	74,240	13,097	-	-	1,155	4,632	13,358
200-499 "	6	1,136	2,462	4,691	669	69,630	89,415	19,111	-	-	1,788	7,458	20,419
500 employees and over													
Head offices, sales offices and auxiliary units ¹⁰	...	...	...	...	...	...	...	...	...	...	384	1,744	(299)
Totals	54	2,665	5,906	10,685	1,686	173,662	220,587	43,295	17	76	4,223	17,649	47,652
1962													
Under 5 employees	9	8	16	26	17	280	402	107	8	21	12	36	130
5- 14 employees	14	95	219	324	90	3,575	4,475	826	8	49	114	453	902
15- 49 "	11	193	481	761	148	19,420	23,779	4,333	-	-	277	1,278	5,380
50- 99 "	7	367	741	1,468	289	26,895	32,495	5,552	-	-	506	2,162	6,035
100-199 "	8	811	1,702	3,279	484	64,992	78,260	12,482	-	-	1,099	4,520	12,584
200-499 "	6	1,101	2,222	4,495	645	73,291	94,844	20,667	-	-	1,714	7,296	21,817
500 employees and over													
Head offices, sales offices and auxiliary units ¹⁰	...	...	...	...	...	...	...	...	...	...	543	2,583	(300)
Totals	55	2,575	5,380	10,353	1,672	188,453	234,255	43,967	16	70	4,265	18,328	46,548

See footnotes following Table 3 A.

TABLE 1 F. Principal Statistics classified by Type of Organization, 1961 and 1962
Basis: Revised Standard Industrial Classification and New Establishment Concept¹

Type of organization	Estab-lish-ments	Manufacturing activity							Total activity				
		Production and related workers ⁴			Cost of fuel and elec-tricity ⁵	Cost of materials and supplies used ⁶	Value of shipments of goods of own manu-facture ⁶	Value added ⁴	Working owners and partners ⁶		Total employees ⁷		Total value added ⁸
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
No.		'000							'000				
1961													
Individual ownerships	7	22	48	55	14	649	913	247	7	22	23	58	249
Partnerships	5	25	70	89	22	930	1,180	224	10	54	27	96	291
Incorporated companies	41	2,618	5,788	10,540	1,649	172,083	218,494	44,824	-	-	3,789	15,752	46,811
Cooperatives	1												
Head offices, sales offices and auxiliary units ¹⁰ .....	...	...	...	...	...	...	...	...	...	...	384	1,744	(299)
Totals	54	2,665	5,906	10,685	1,686	173,662	220,587	45,295	17	76	4,223	17,649	47,052
1962													
Individual ownerships	6	10	19	30	7	224	335	101	5	15	10	30	110
Partnerships	5	25	58	94	26	1,104	1,329	202	11	55	27	101	237
Incorporated companies	43	2,540	5,303	10,229	1,638	187,125	232,591	43,664	-	-	3,685	15,614	46,501
Cooperatives	1												
Head offices, sales offices and auxiliary units ¹⁰ .....	...	...	...	...	...	...	...	...	...	...	543	2,583	(300)
Totals	55	2,575	5,380	10,353	1,672	188,453	234,255	43,967	16	70	4,265	18,328	46,548

See footnotes following Table 3 A.

TABLE 2. Industry Outputs, Inputs and Value Added, 1961 and 1962
Basis: Revised Standard Industrial Classification and New Establishment Concept¹

Item	1961		1962	
	\$'000			
Manufacturing activity:				
Value of shipments—Goods of own manufacture		220,587		234,255
Add: Closing inventory—Goods in process		-		-
Finished goods	2,301	2,301	3,430	3,430
Deduct: Opening inventory—Goods in process		-		-
Finished goods	2,245	(2,245)	3,594	(3,594)
Gross output—Manufacturing activity		220,643		234,091
Deduct: Cost of materials and supplies used in manufacturing activity	173,662		188,453	
Cost of fuel and electricity used	1,686	(175,348)	1,672	(190,125)
Value added—Manufacturing activity		45,295		43,967
Non-manufacturing activities:				
Value of shipments—Goods not of own manufacture .....		..		22,724
Add: All other revenue .....		..	445	
Closing inventory—Goods purchased for resale	123	..	330	775
Deduct: Purchases of goods for resale as such .....		..	19,890	
Opening inventory—Goods not of own manufacture	93		356	
Cost of all other materials and supplies used .....		..	670	(20,916)
Value added—Non-manufacturing activities		1,757		2,581
Total value added		47,052		46,548

See footnote following Table 3 A.

TABLE 3. Employment and Payroll, 1961 and 1962
Basis: Revised Standard Industrial Classification and New Establishment Concept¹

Year and province	Employees										Salaries and wages				
	Production and related workers				Administrative and office ^{6,9}		Sales, and distribution ⁹		Total employees ^{8,9}		Production and related workers		Administrative and office	Sales, and distribution	Total salaries and wages
	Manufacturing ⁴		Other ⁵		Male	Female	Male	Female	Male	Female	Manufacturing	Other			
	Male	Female	Male	Female											
	number										\$'000				
1961															
New Brunswick	...	...	..	..	..	..	..	..	18	6	...	..	..	..	92
Quebec	419	4	..	..	..	..	..	..	911	128	1,947	..	..	..	4,914
Ontario	889	44	..	..	..	..	..	..	1,046	99	3,758	..	..	..	4,750
Manitoba	320	28	..	..	..	..	..	..	435	70	1,355	..	..	..	1,952
Saskatchewan	461	44	..	..	..	..	..	..	683	123	1,944	..	..	..	3,264
British Columbia															
Alberta	431	25	..	..	..	..	..	..	617	87	1,661	..	..	..	2,676
Totals	2,520	145	..	..	..	..	..	..	3,710	513	10,685	..	..	..	17,649
1962															
New Brunswick	...	...	...	...	...	...	18	5	18	5	...	...	...	57	57
Quebec	457	2	2	..	334	137	265	6	1,058	145	1,928	9	2,776	949	5,662
Ontario	868	28	7	..	128	54	35	15	1,038	97	3,645	12	909	222	4,788
Manitoba	284	26	1	..	75	39	58	10	418	75	1,163	1	449	318	1,931
Saskatchewan	430	44	1	..	118	50	101	21	650	115	1,983	3	785	595	3,366
British Columbia															
Alberta	411	25	..	..	69	47	82	12	562	84	1,634	..	494	396	2,524
Totals	2,450	125	11	..	724	327	559	69	3,744	521	10,353	26	5,413	2,537	18,328

See footnotes following Table 3 A.

TABLE 3 A. Production and Related Workers,⁴ - Manufacturing Activity, by Months, 1962
Basis: Revised Standard Industrial Classification and New Establishment Concept¹

Month	Establishments reporting monthly detail ¹¹	
	Male	Female
	number	
January	2,400	133
February	2,426	148
March	2,505	118
April	2,315	106
May	2,492	100
June	2,568	114
July	2,585	115
August	2,432	128
September	2,522	143
October	2,472	144
November	2,362	125
December	2,297	121
Monthly averages	2,450	125

¹ See Table 2 and Explanatory Notes concerning manufacturing and non-manufacturing activities.
² See Explanatory Notes.
³ This category, in this table only, includes working owners and partners. Since administrative and office employees are engaged in a variety of activities they have been excluded from manufacturing activity beginning with the revised 1961 series shown in the following tables. They are included here for purposes of comparison with the tabulations of previous years.
⁴ Conceptually identical to previous years. See Explanatory Notes.
⁵ Cannot be reported separately for manufacturing and non-manufacturing activities but related substantially to manufacturing activity. Identical concept to previous years.
⁶ Working owners and partners were included with administrative and office employees in the "Manufacturing series" published in former years. See Explanatory Notes.
⁷ Includes production and related workers, administrative and office employees, sales distribution and other employees. See Explanatory Notes for the treatment of head office employees and those employed in auxiliary units.
⁸ Value of total shipments and other operational revenue less total cost of materials, supplies, fuels used and purchases of products and materials for resale in the same condition; all adjusted for inventory changes where required. See Table 2 and Explanatory Notes.
⁹ Sales and distribution workers and production workers (non-manufacturing) are included for the first time as a result of the full implementation of the new definition of the establishment. The figures for production workers (non-manufacturing), administrative and office employees and sales and distribution workers are not yet available for 1961 but form part of total employees. Sales and distribution workers may include some employees that are reported as part of a manufacturing establishment but are not working at the establishment's location. Head offices, sales offices, etc., which report separately are included in the figures for the province in which they are located.
¹⁰ These data cover the activities reported by separately located units such as head offices, sales offices, administrative offices, laboratories, warehouses, etc. Such units do not usually constitute separate "establishments" as they do not normally generate all the necessary elements of input and output statistics. However, they are treated as extensions of manufacturing establishments and, in the case of individual industries, may be located in provinces where no processing plants are situated. For the most part, these units contribute only to costs of operations (mainly salaries and wages) and they are included here to provide completeness and consistency of the statistics. See Explanatory Notes which deal with Single and Multi establishments for a complete explanation of procedures.
¹¹ The monthly detail of production workers was not collected from small establishments. Annual averages reported by these establishments were included in each month's total.
¹² Confidential data.
¹³ Includes paid employees and working owners but excludes unpaid family workers.
Note: Figures may not add due to rounding.

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

Basis: Revised Standard Industrial Classification and New Establishment Concept¹

Description	Quantity	Cost
	tons	\$'000
1. Materials used:		
Grains:		
Wheat	2,588,742	159,817
Oats	66,583	3,667
Corn	19,400	1,006
Barley	7,810	440
Buckwheat	-	-
Rye	9,410	458
Screenings	1,582	61
Grain, n.e.s.	215	12
Grain by-products:		
Wheat flour	334	23
Other flour	-	-
Bran, shorts and middlings	9,059	440
Gluten feed and meal	973	88
Brewer's and distillers' grains	859	74
Grain by-products, n.e.s.	1,702	93
Mixed concentrates and premixes	2,421	296
Oil seed products, meal, etc.	10,837	1,066
Legumes and grasses	1,512	89
Fish by-products, meals, etc.	834	121
Meat and tankage by-products	2,103	210
Other materials:		
Buttermilk powder	99	13
Skim milk powder	457	54
Molasses	1,518	62
Limestone	1,528	19
Salt	792	26
Sugar	3,809	643
Egg powder	5	13
Shortening	603	250
Mineral mixtures	83	30
Antibiotics (coccidiostats and other drugs)	44	91
Phosphates	763	66
Vitamins	3,915	697
Urea	140	15
Yeast	5	1
Oils, animal and fish	825	98
All other materials and components used ² .....	...	1,535
2. Containers and other packaging materials and supplies used		13,225
3. Operating, maintenance and repair supplies used (excluding fuel)		1,645
4. Amount paid out to others for work done on materials owned by establishments		12
Total		188,453

¹ See Explanatory Notes.

² No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. In 1962 these estimated costs were \$1,869,402.

TABLE 5. Fuel and Electricity Used¹ in Manufacturing Activity,² 1962
Basis: Revised Standard Industrial Classification and New Establishment Concept³

Description	Quantity	Cost
		\$'000
1. Large establishments which reported commodity detail:		
Bituminous coal:		
(a) From Canadian mines	ton	—
(b) Imported	4,868	61
Sub-bituminous coal (from Alberta mines only)	—	—
Anthracite coal	ton	1
Lignite coal	"	36
Coke	—	—
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	110
Fuel oil including kerosene or coal oil	"	151
Wood	—	—
Gas:		
(a) Liquefied petroleum gases	—	—
(b) Other manufactured gas	—	—
(c) Natural gas	M cu. ft.	60
Other fuel	—	—
Electricity purchased	kwh.	1,155
Steam purchased .....	...	24
2. Estimate for small establishments for which no data were collected:		
Fuel and electricity .....	...	75
3. All establishments:		
Total fuel and electricity used .....	...	1,672

¹ Does not include fuel and electricity produced for own use.
² Includes only fuel and electricity purchased. Conceptually identical to previous years in that it also includes relatively small amounts used in non-manufacturing activities since these cannot be reported separately.
³ See Explanatory Notes.

TABLE 6. Shipments of Goods of Own Manufacture, 1962
Basis: Revised Standard Industrial Classification and New Establishment Concept¹

Description	Quantity	Value
		\$'000
1. Products:		
Wheat flour:		
Spring No. 1 or Top Patent including semolina	"	"
Spring No. 2 Patent	"	"
Spring No. 3 Patent (Strong Bakers or Export Patent)	"	"
Whole wheat and Graham flour	"	"
Ontario winter wheat flour	cwt.	13,259
Durum semolina and flour	"	4,769
Lower grades of flour	"	7,426
All other	"	155,177
Total flour	"	180,633
Enriched flour, all grades combined	"	107,600
Non-enriched flour, all grades combined	"	73,032
Breakfast foods:		
Prepared breakfast foods	ton	442
Unprepared breakfast foods	"	—
Oatmeal	"	6,933
Rolled oats	"	—
Flour and meal, other:		
Barley flour and meal	ton	71
Barley, pot and pearl	"	—
Rye flour and meal	"	4
Corn flour and meal	"	—
Buck wheat flour and meal	ton	20
Prepared cake mixes	"	4
Other prepared mixes	"	4
Bran, shorts and middlings	ton	31,059
Offal	"	699
Hominy feed	"	—
Cereals milled, n.e.s.	"	4
Primary or concentrated feeds or premixes:		
Calf and cattle concentrates	"	—
Swine concentrates	ton	109
All other concentrates and premixes	"	631

See footnotes at end of table.

TABLE 6. Shipments of Goods of Own Manufacture, 1962 - Concluded

Description	Quantity	Value
		\$'000
1. Products - Concluded:		
Secondary or completed feeds:		
Calf	ton 597	56
Dairy and cattle	" 4	4
Swine	" 4	4
Poultry:		
Chick starter	" 4	4
Broiler	" 4	4
Growing, laying and hatching	ton 8,383	699
Fattening and finishing	" 4	4
Turkey	ton 10,047	896
Other poultry, n.e.s.	" 23,086	2,188
Mixed feeds, n.e.s.	" 4	4
Scratch feeds	" 4	4
Chopped grain, n.e.s.	ton 5,069	294
Screenings	" 4	4
All other products .....	...	9,915
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		(461)
Net adjustment for establishments receiving progress payments ² .....		...
Total adjusted value of shipments and work done		234,255

- ¹ See Explanatory Notes.
- ² See footnote 1, Table 7.
- ³ Confidential. Included with wheat flour "All Other".
- ⁴ Confidential. Included with "All other products".
- ⁵ Confidential. Included with "All other concentrates and premixes".
- ⁶ Confidential. Included with "Other poultry, n.e.s."

TABLE 7. Industry Inventories, 1962¹
Basis: Revised Standard Industrial Classification and New Establishment Concept²

Province	Manufacturing				Non-manufacturing	Total inventories
	Raw materials and supplies	Goods in process	Finished goods of own manufacture ³	Total manufacturing	Products or materials purchased for resale	
book value \$'000						
Opening:⁴						
New Brunswick .....	...	...	...	...	...	...
Quebec	9,468	—	6,661	16,329	4	16,333
Ontario	14,262	—	916	15,178	101	15,279
Manitoba	975	—	340	1,315	49	1,364
Saskatchewan	6,902	—	662	7,564	18	7,582
British Columbia						
Alberta	3,932	—	1,586	5,518	184	5,702
Totals⁴	35,539	—	10,365	45,904	356	46,260
Closing:						
New Brunswick .....	...	...	...	...	...	...
Quebec	10,698	—	5,587	16,285	2	16,287
Ontario	14,580	—	1,067	15,647	76	15,723
Manitoba	1,052	—	317	1,369	67	1,436
Saskatchewan	7,636	—	419	8,055	22	8,077
British Columbia						
Alberta	3,987	—	2,525	6,512	163	6,675
Totals⁴	37,954	—	9,915	47,869	330	48,199

- ¹ Values represent book values of inventories owned in Canada. Inventories held for which progress payments have been received are not included. Where progress payment accounts are maintained the change in these accounts is treated as a net adjustment to shipments.
- ² See Explanatory Notes.
- ³ The opening inventories may differ from the closing inventories for the previous survey year because of changes in classification, the receipt of revised data, the inclusion of new establishments and the removal of establishments which did not operate during the survey year.
- ⁴ Figures may not add due to rounding.
- ⁵ The difference between figures in this table 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.

TABLE 8. Shipments of Goods of Own Manufacture - All Industries, 1962¹

Description	Quantity	Value
		\$'000
Wheat flour		
Spring No. 1 or Top Patent including semolina	cwt. 7,761,966	38,604
Spring No. 2 Patent	" 14,252,363	64,176
Spring No. 3 Patent (Strong Bakers or Export Patent)	" 8,938,982	40,127
Whole Wheat and Graham flour	" 1,409,095	6,149
Ontario winter wheat flour	" 2,821,296	13,574
Durum semolina and flour	" 796,719	4,769
Lower grades of flour	" 1,904,926	7,428
All other	" 1,580,861	6,812
Total flour	" 39,468,208	181,638
Enriched flour, all grades combined	" 23,102,103	107,754
Non-enriched flour, all grades combined	" 16,366,105	73,884
Flour and meal, other:		
Barley flour and meal	ton 1,479	116
Barley, pot and pearl	" 2,171	253
Rye flour and meal	" 9,628	721
Corn flour and meal	" 9,276	797
Buck wheat flour and meal	" 599	52
Prepared cake mixes	lb. 57,591,826	12,476
Other prepared mixes (pastry, doughnut etc.)	" 71,151,633	10,946

¹ Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed above.

TABLE 9. Capital and Repair Expenditures,¹ 1960-62

Year	Capital expenditures			Repair expenditures			Total capital and repair expenditures		
	Construction	Machinery and equipment	Sub-total	Construction	Machinery and equipment	Sub-total	Construction	Machinery and equipment	Total
	\$'000								
1960	2,038	4,562	6,600	567	2,015	2,582	2,805	6,577	9,162
1961	4,109	7,201	11,310	829	2,110	2,939	4,936	9,311	14,249
1962	615	2,292	2,907	596	2,438	3,034	1,211	4,730	5,941

¹ Includes Breakfast Cereal Manufacturers.

Source: Business Finance Division. - DBS.

List of Establishments, 1962

Name	Address
Quebec:	
Eastern Canada Flour Mills Ltd.	4394 St. Ambroise St., Montreal
McDonald & Robb Limited	70 Chaussée St., Valleyfield
The Oglvie Flour Mills Co., Ltd.	950 Mill St., Montreal
Robin Hood Flour Mills Ltd.	2110 Notre Dame St. West, Montreal
Ontario:	
Acton Flour Mills	62 Mill St., Acton
Almonte Flour Mills, Limited	P.O. Box 60, Almonte
Ancaster Mountain Mills	548 Mill St., Ancaster
Caledonia Milling Co. Ltd.	Caledonia
Cherry & Sons Limited, S.J.	166 King St., Preston
Collingwood Milling Co., The	P.O. Box 311, Collingwood
Cullen & Sons Limited, James	107 Wilson St., Woodstock

List of Establishments, 1962 - Concluded

Name	Address
Ontario - Concluded:	
Dutton Flour Mills	Main St., Dutton
Great Star Flour Mills, Limited	Water St., St. Mary's
Hawken Milling Company	Wallaceburg
Hayhoe Bros.	Pine Grove
Hogg & Sons Ltd., George	Thamesford
Hortop & Son, W.H.	Everton
Howson & Howson, Ltd.	Blyth
Lake of the Woods Milling Co. Ltd.	Keewatin
McCarthy Milling Co. Limited	Streetsville
Maple Leaf Mills Limited	Port Colborne
Maple Leaf Mills Limited	12 Monarch Rd., Toronto
Morris & Son, Ltd., J.A.	P.O. Box 25, Dorchester
Paris Flour Mills	2 Grand River N., Paris
Phenix Mills, Limited	69 Ainslie St., South, Galt
Pillsbury of Canada Ltd.	206 King St., Midland
Reid Milling Co. Limited	Streetsville
Robin Hood Flour Mills, Limited	Port Colborne
Smith & Son, E.L.	R.R. No. 4, Scotland
Snider Flour Milling Co. Ltd., The	St. Jacobs
Springwaler Flour Mills	St. Thomas
Strathroy Flour Mills, Limited	Albert St., Strathroy
Taylor Co. Limited, The T.H.	14 William St. N., Chatham
Vanstone Flour & Feed Mill	116 King St. W., Bowmanville
Manitoba:	
Harrison Milling & Grain Co.	Holmfild
Kent Flour Mills, Ltd., B.P.	Viriden
Ogilvie Flour Mills Co. Ltd., The	39 Higgins Ave., Winnipeg
Maple Leaf Mills, Limited	480 Archibald St., St. Boniface
Soo Line Mills, Limited	7 Higgins Ave., Winnipeg
Saskatchewan:	
Quaker Oats Co. of Canada, Ltd., The	18th Street & Avenue "N", Saskatoon
Robin Hood Flour Mills, Ltd.	Flth Ave. and High St. West, Moose Jaw
Robin Hood Flour Mills, Ltd.	Flrst Ave. and 33rd St., Saskatoon
Saskatchewan Wheat Pool	P.O. Box 170, Saskatoon
Wynyard Flour Mill	Box 84, Wynyard
Yorkton Milling Company Limited	Livingstone St., Yorkton
Alberta:	
Ellison Milling & Elevator Co. Ltd.	1301 Second Ave. S., Lethbridge
Maple Leaf Mills Limited	Medicine Hat
Maple Leaf Mills Limited	14th St. E., at 17th Avenue, Calgary
Ogilvie Flour Mills Co. Limited, The	10527 - 103rd St., Edmonton
Ogilvie Flour Mills Co. Limited, The	Medicine Hat
Pillsbury of Canada Ltd.	Bonnybrook Road, Calgary
Robin Hood Flour Mills, Ltd.	Ninth Avenue & Fourth St. W., Calgary
Vulcan Flour Mill	Vulcan
British Columbia:	
Master Baker Flour Mills, Ltd.	1315 E. Hastings St., Vancouver
Millstream Flour Mills	2550 Millstream Rd., Victoria

EXPLANATORY NOTES

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

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

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

Standard Industrial Classification

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

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

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

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

Establishment

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

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

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

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

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

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

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

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

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

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

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

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

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

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

³ See footnote 1.

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

1. Single-Establishment Companies

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

Separately located head offices, sales offices, administrative offices and other separate auxiliary units (laboratories, warehouses, etc.) do not usually constitute separate establishments⁴ for purposes of industry statistics since they do not normally generate operational revenues but give rise only to costs of operation (mainly salaries and wages) which make up part of the selling price of manufactured products and which are thus included in the value of shipments or sales. Where such units belong to single-establishment companies, they will be considered as extensions of the establishment's boundaries and their operations consolidated with the establishment's total activity.

2. Multi-Establishment Companies

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

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

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

⁴ See footnote 2 for exceptions.

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

Period Covered

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

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

Working Owners or Partners

Beginning with the revised 1961 statistics working owners and partners of unincorporated businesses are shown as a separate category in the principal statistics and are neither included in the number of employees nor in salaries and wages; there is some duplication in numbers when a person owns more than one establishment and is reported as a working owner on each census return. In all previous reports of the Census of Manufactures these workers were included as part of the number of administrative and office employees and their withdrawals were included as part of salaries. Withdrawals are defined as amounts withdrawn by owners or partners for normal living expenses, excluding withdrawals for payment of income tax.

Number of Establishments

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

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

Employees

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

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

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

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

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

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

Man-hours of production and related workers in manufacturing activities represent total man-hours paid (total hours at work during the calendar year plus hours not worked but nevertheless paid for, such as paid vacations, sick leave, statutory holidays etc.). In reporting overtime hours, respondents are requested to report only hours actually at work. It should be noted that the division of hours paid into production and related workers payrolls results in **average** hourly earnings and does **not** represent hourly wage rates which are collected and published by the Department of Labour and which are based on selected occupations.

Salaries and Wages

Salaries and Wages refer to gross earnings of the employees described above, **before** deductions for income tax and employees' contributions to social services such as sickness, accident and unemployment insurance, pensions etc. They include all salaries, wages, bonuses, profits shared with employees, the value of room and board where provided, commissions (paid to regular employees only), as well as any other allowance forming part of the workers' earnings. Payments for overtime are included.

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

Fuel and Electricity

Figures for fuel refer to amounts actually used (including fuel used in cars, trucks, locomotives etc.) not to purchases unless the quantities are

substantially the same. **Any fuel and electricity produced by establishments for internal consumption are not included in the total cost.** Values represent laid-down cost at the establishment including freight, duty etc.

Materials and Supplies

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

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

(c) Other materials and supplies used. Figures represent the cost of materials and supplies, if any, used in new construction and in the production of machinery and equipment (for the use of the reporting establishment) by the establishment's own employees. Included are materials used for any capital repairs and alterations carried out by the establishment's employees. Value of construction and repair work done by outside contractors is not included nor is the cost of purchased machinery and equipment. Also included is the cost of office supplies not chargeable to fixed assets accounts and the cost of such other items of materials and supplies used as food, beverages and supplies for establishment-operated cafeterias and lunch counters, first aid medical supplies, laboratory supplies etc.

Shipments

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

(a) Shipments of goods of own manufacture

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

All products and by-products of own manufacture shipped from the establishment are covered, including transfer shipments to sales outlets, distributing warehouses or to other manufacturing plants of the reporting firm when such units are treated as separate establishments. (See notes on "Establishment").

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

The unsold portion, at year-end, of consignment shipments in Canada, is treated as inventory and not as shipments, but all shipments to foreign countries, for which form B.13 "Customs Canada, Export Entry" has been completed, are treated as shipments.

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

(b) Shipments of goods not of own manufacture

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

(c) Other revenue

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

Inventories

(a) Manufacturing inventory

Values represent the book value of manufacturing inventory owned in Canada. The value of inventory held for which progress payments have been received is treated as shipments and is not included in inventory owned. Figures consist of inventory owned at the plant and at warehouses or selling outlets which are treated as extensions of establishments for the purpose of reporting shipments. Inventory owned in transit in Canada or on consignment in Canada is included. Inventory owned abroad has already been reported as shipments and is excluded.

(b) Inventory of goods purchased for re-sale

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

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

Value Added

(a) By manufacturing activities

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



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(b) By total activities

Figures consist of value added by manufacturing activities plus value added by non-manufacturing activities and is compiled by deducting the cost of goods purchased for re-sale and the cost of other materials and supplies used from the value of shipments of goods not of own manufacture plus other revenue, adjusted for changes in the value of inventories of goods purchased for re-sale.

"Value added" is sometimes referred to as net production. However, to arrive at the National Accounts concept of net production, or "Gross domestic product at factor cost", it would be necessary to subtract also the cost of advertising, insurance and other business expenses which are not collected in the annual Census of Manufactures. "Value added" figures for the primary industries, manufacturing and construction are published in DBS publication Catalogue No. 61-202, Survey of Production.

Short Forms

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

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

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

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

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